NI 43-101 TECHNICAL REPORT ON THE EL CAPITAN PROJECT, LINCOLN COUNTY, NEW MEXICO

Prepared for EL CAPITAN PRECIOUS METALS INC. 5871 Honeysuckle Dr. Prescott, Arizona, USA, 86305-3764

> Prepared by CLYDE L. SMITH, Ph.D., P.Eng. Consulting Geologist 106-1680 56th Street Delta, British Columbia Canada V4L 2L6

Effective Date July 24, 2023

Table of Contents

1	Sun	nmary	3
2		oduction	
	2.1	Sources of Information	5
	2.2	Independence	5
	2.3	Current Personal Inspection	5
3	Reli	ance on Other Experts	5
4		perty Description and Location	
	4.1	Property Location	
	4.2	Nature of El Capitan's Interest	8
	4.3	Environmental Liabilities	8
	4.4	Permitting	8
5	Acc	essibility, Climate, Local Resources, Infrastructure, Physiography	9
6	Hist	tory	9
7		logic Setting and Mineralization	
	7.1	Regional Geology	10
	7.2	Project Geology	10
	7.3	Mineralization	11
8	Dep	osit Types	16
	8.1	Skarn Deposits	16
	8.2	Great Plains Margin Gold-Silver Deposits	16
	8.3	Hydrothermal Gold-Platinum Group Metals Deposits	17
9		loration	
10	Dr	illing	18
11		mple Preparation, Analyses, and Security	
	11.1	Surface Sampling, 2004-2005	
	11.2	Drill Sampling, 2005-2006	
	11.3	Analytical Testing, 2007-2009	
	11.4	Analytical Testing, 2009-2011	
	11.5	Analytical Testing, 2011-Present	
12	Da	nta Verification	
	12.1	Independent Evaluation and Verification of Auric Caustic Fusion Assay Results	
	12.2	Data Verification, 2007-2009	
	12.3	Data Verification, 2009-2011	
	12.4	Data Verification, 2011-Present	
13	Mi	ineral Processing and Metallurgical Testing	
	13.1	Hydrometallurgical Extractions, 2005	29
	13.2	SRI Smelting and Extraction Tests	
	13.3	Hydrometallurgical extractions, 2019	30
14		ineral Resource Estimates	31
15		ljacent Properties	
16		her Relevant Data and Information	
17	Int	terpretation and Conclusions	
	17.1	Exploration Potential	
	17.2	Significant Risks and Uncertainties	
18		commendations	
19		ferences	
20	Ce	ertificate of Qualified Person	40

Figures

Appendices

- Appendix 1. Claim recording and fee payment documents, March 2022.
- Appendix 2. Geologic Cross Sections
- Appendix 3. Missouri Bureau of Mines Microscopy Report
- Appendix 4. Hydrothermal Gold-Platinum Group Metals
- Appendix 5. El Capitan Drill Logs
- Appendix 6. Auric Caustic Fusion Assay Results on Drill Samples
- Appendix 7. Auric Metallurgical Labs Sample Preparation and Analytical Procedures
- Appendix 8. Auric Metallurgical Labs Extraction Tests
- Appendix 9. Ken Bright Metallurgical Review Report
- Appendix 10. Noel Palmer Metallurgical Review Report
- Appendix 11. Auric Process Validation Report

1 Summary

The El Capitan project is located approximately 5 miles NNE of the town of Capitan, in Lincoln County, south-central New Mexico. The property consists of 112 Bureau of Land Management (BLM) unpatented lode claims and four patented claims covering a total area of approximately 2,320 acres. El Capitan Precious Metals Inc. and its subsidiary ECPN Technologies Inc. have 100% ownership of the claims. No property payments or royalties are due on the four patented claims. The author is not aware of any current environmental liabilities on the project.

The El Capitan deposit has been known as a potential iron ore resource for several decades, with early work by the U.S. Bureau of Mines in 1944 and 1948, and Kelley (1952). Small-scale iron ore production totaled approximately 250,000 tons in the years 1961-1988. El Capitan Precious Metals Inc. began work on the project in 2002 with a ground magnetic survey and a drill program of six shallow holes. Although only low precious metals values had been obtained from the deposit by fire assay over the years and no significant exploration had been conducted on the property, beginning in May 2004 Auric Metallurgical Laboratories of Salt Lake City, Utah, began reporting significant gold and platinum results on samples from the project using their proprietary caustic fusion assay method. These results prompted a 32-sample surface sampling and assay program conducted by the author in January 2005, which returned potential ore-grade gold and platinum results on all 32 samples, causing El Capitan to undertake three stages of exploration drilling. Following drilling, the company commissioned a study to verify the Auric proprietary caustic fusion assay method; based on the positive results of this report, the company undertook an initial resource calculation followed by a full technical report that reported a measured resource in 2007. Since that time, additional analytical testing has been carried out by the company, focused on developing viable assay and metallurgical extraction methods.

The El Capitan project is located at the most prominent structural intersection in New Mexico within the area of the greatest exposed concentration of Tertiary intrusions in the state. Regional air magnetic and gravity surveys indicate that the project is underlain by an interpreted large mafic or ultramafic intrusion. The El Capitan deposit is one of 16 Au-Ag-bearing occurrences in a 270-mile-long, north-south trending belt that traverses New Mexico within the Rio Grande Rift. The project is located within a 12-square-mile north-south-trending belt approximately 2 miles wide underlain by Permian (250-296 Ma) limestone and lesser quartz sandstone. These sedimentary rocks crop out intermittently between the bold outcrops of the Miocene-age Capitan aplite intrusion to the east and rhyolitic volcanics and lesser interbedded basaltic volcanics and conglomerate to the west. The rhyolites are dominantly ash flows and appear to be the extrusive equivalents of the aplite intrusion.

The El Capitan deposit is exposed in a shallow open pit within a nearly circular area of 1300 feet in diameter. Mineralization consists of a shallow west-dipping skarn body of oxide- and silicate-facies skarn hosted in limestone, sandstone, and aplite. Skarn mineralization includes two magnetite dominant zones, and a variety of skarn assemblages including hematite, calcite, phlogopite, diopside, quartz, tremolite, as well as crystalline limestone. Mineralization lies above the west-plunging Capitan aplite pluton. No zonal mineralogical pattern is apparent among skarn facies. The mineralized body is at least 3000 feet long in an east-west direction, at least 2000 feet wide north-south, and ranges in thickness up to 400 feet. All of the above-described rocks are cut by ubiquitous and commonly abundant hematite, oxidized to limonite or goethite on surface and in the upper parts of drill holes. Hematite occurs as a primary constituent in all skarn assemblages and as post-skarn fracture fillings, stockworks, breccia fillings, and replacements with calcite in skarn, limestone, sandstone, and aplite. Geologic evidence indicates that gold (Au) was introduced both during magnetite skarn formation and during hematite-calcite veining. Mineralization fits into three mineral-deposit classes: 1) skarn deposits; 2) Great Plains Margin deposits; and 3) hydrothermal gold-platinum deposits.

Drilling on the project has consisted of 37 holes of core, open-hole rotary, and reverse-circulation drilling 12,763.5 feet, which took place between April 2005 and May 2006. Drill-hole spacing is irregular, ranging from 150 to 700 feet and averaging approximately 400 feet. The holes are located over an area of 3600 feet east-west by 2100 feet north-south and were drilled to variable depths ranging from 98 feet to 710 feet.

Until recent years, all drill samples were kept in secure storage and under intact chain of custody; the current status of drill samples can not be confirmed by the author. All drill samples were analyzed by Auric Metallurgical Labs using a proprietary caustic fusion assay method to generate results for Au, Ag, Pt, and Pd. The lab is independent of El Capitan Precious Metals. Although the fundamental principles of Auric's caustic fusion assay method have been

known for many years and are available in metallurgy textbooks, Auric is reluctant to release details of its method. For this reason, samples analyzed by Auric were subjected to an independent evaluation and verification study. Although questions remain regarding the verification study, it provided independent confirmation of Auric's caustic fusion assay process. Subsequent to Auric's analysis of drill samples, ongoing testing has involved additional laboratories; the author can only comment on sample preparation, analysis, and security and data verification for a limited subset of samples analyzed by other laboratories.

Since 2006, analytical results have been mixed. The Auric Metallurgical caustic fusion assay remains the sole consistently effective assay method used on the project. Focused analytical testing has been carried out since early 2012 in 13 stages; the author has had only intermittent contact with some of these methods. Although potentially encouraging results have been obtained from some methods, many were compromised by unacceptable quality control results. To date, no viable analytical testing method has been developed apart from Auric's caustic fusion assay.

Scanning electron microscope work on gravity concentrates has unequivocally proven the presence of gold at the El Capitan project. In this work, <10-micron grains of Au were imaged, either as individual solitary grains or as inclusions within magnetite; detections were confirmed by energy-dispersive spectrophotometry (EDS) analysis.

Hydrometallurgical extractions by Auric Metallurgical in 2005 and 2019 using sodium cyanide and sodium thiosulfate leaches on Au head ore grades of 0.017-0.089 opt Au (ounces per tonne Au) and non-magnetic concentrates of 0.189-0.266 opt Au have produced impressive recoveries in the range 72.6-98.3%. Extractions on Pt head grades of 0.015-0.44 opt Pt have also resulted in recoveries in the range 63.4-78%. To date, hydrometallurgy appears to hold the best promise for potential commercial production of precious metals. In addition, although requiring verification, pyrometallurgical and hydrometallurgical procedures developed by AuraSource Inc. in a laboratory in China show ore-grade Au and Pt values on an El Capitan concentrate sample as well as on samples from another deposit of similar geologic character to El Capitan. El Capitan Precious Metals should encourage AuraSource Inc. to establish a laboratory in the U.S.

A resource calculation based on Auric's caustic fusion drill hole assays was completed by Gemcom Software International in their Vancouver, B.C., Canada, offices, supervised by the author and two other consultants. Using a 0.01 opt Au cut-off grade, the study showed a measured resource of 141,444,000 short tons grading 0.020 opt Au, 0.011 opt Pt, with a contained 2,769,106 ounces Au and 1,517,868 ounces Pt. The deposit is apparently closed on the north, east, and south sides but open to the west. It should be noted that this resource calculation relies entirely on Auric Metallurgical Labs analyses using a non-standard analytical method.

The El Capitan project comes with the following three risks and uncertainties: 1) El Capitan samples have not consistently responded to standard fire assays and reliance has been placed on the caustic fusion assay method of Auric Metallurgical labs. Although independently verified, the method is non-standard and results will be questioned by the mining industry. In order to meet assay standards commonly required by the industry, the company should continue to seek a laboratory that can consistently produce verification assays using the Auric method. 2) Although hydrometallurgical extraction results produced by Auric Metallurgical are impressive, the company should continue to seek a laboratory that can consistently produce verification extractions using the Auric method. It is possible that the AuraSouce Inc. pyromettalurgical and hydrometallurgical methods may provide this verification. 3) All mining projects come with some level of permitting risk. Local opposition is likely the biggest permitting risk on this project. This could be most effectively mitigated by contracting with credible and professional permitting consultants who can guide the company through the permitting and community relations processes.

The author makes the following recommendations for the project that include a budget of US\$172,000.

- The 12 mi.² band of Permian limestone and quartz sandstone that is the host rock for the El Capitan deposit should be explored with a detailed ground magnetic survey conducted by a reputable geophysical survey company with results interpreted by an experienced consultant. Hyperspectral anomalies and ore-grade assays from anomalies show potential for additional El Capitan deposits. Magnetic anomalies should be geologically mapped and sampled followed by recommendations by the geologist for drilling.
- El Capitan Precious Metals should pursue an aggressive approach to metallurgical evaluation, a feasibility study, and potential production of a magnetite iron ore concentrate and production of Au, Pt, and possibly other precious metals. This would involve test work to determine the optimum method of magnetic concentration to produce a commercially viable iron ore and an optimum method for extracting Au, Pt, and

other precious metals. A three-phase laboratory study is recommended; with success at these stages, the project could be advanced to pilot plants and production. In addition, AuraSource Inc. shoulc be encouraged to establish a pyrometallurgical or hydrometallurgical extraction facility in the U.S.

2 Introduction

This report has been prepared at the request of Mr. Douglas Sanders, Director of El Capitan Precious Metals, Inc., as an update to a report authored by me on the El Capital project dated March 22, 2022. The purpose of this report is to provide an explanation of the work conducted on the El Capitan project, located in Lincoln County, New Mexico, and to summarize the results of geologic investigations including mapping, drilling, assaying, metallurgical extractions, and calculation of a resource that could be used in determining the potential economic viability of the El Capitan deposit as a producing iron ore and precious metals mine.

In 2001, the Canadian government published National Instrument 43-101 in an attempt to establish rigorous high-quality standards for professional reports written on exploration and mining properties. As a result, NI 43-101 guidelines have been universally adopted by North American exploration and mining companies. This report complies with all aspects of the NI 43-101 guidelines. In particular, because the U.S. Securities and Exchange Commission does not recognize "resource" categories for deposits, this report uses the NI 43-101 resource category definitions.

2.1 Sources of Information

The sources of information used in this report include published and unpublished reports on the project, published reports and maps on the regional geology, and project data generated by or under the direction of the author. The author has also reviewed and reported on selected test results that have not been generated under his direction nor independently verified, but that are included in this report because they are part of the project history. A detailed list of references and information sources is included at the end of the report.

The author has made numerous visits to the El Capital property beginning in December 2004. The author provided geological consulting services under an agreement with El Capitan Precious Metals, Inc. between January 2005 and January 2014 when he was responsible for directing all aspects of the geological exploration program described in this report. This work included reviewing and interpreting published materials on regional geologic studies, geologic mapping, designing and administering drill programs, geologic logging of all drill holes, maintaining chain of custody of samples, working intermittently with assayers and metallurgists, overseeing resource calculations, and making recommendations for continuing work on the project. This work included evaluation and direction of metallurgical studies focused on achieving production of commercially viable iron ore and precious metals products, and to complete NI 43-101 technical reports. The author was retained again in March 2022 to complete an updated NI 43-101 technical report.

2.2 Independence

The author is an independent geological consultant and currently holds no stock or any incentive in El Capitan Precious Metals, Inc.

2.3 Current Personal Inspection

The author's most recent personal inspection of the property took place on July 18, 2023, during which he toured the property and obtained additional samples of concentrates and mineralized outcrops for future analytical or metallurgical test work.

3 Reliance on Other Experts

The author has relied on reports and opinions prepared by metallurgical engineer Mr. Richard Danielle, principally his report, "Summary Report of Evaluation and Validation of Auric Alkali Fusion Analytical Procedure at Wendell & Company," dated September 1, 2005, as discussed in the Data Verification section of this report. The author has

also relied on reports and opinions prepared by analytical chemist Noel Palmer, PhD, in this report's section on Sample Preparation, Analysis, and Security, which is based in part on Dr. Palmer's report "Results of El Capitan Analytical Testing Stages 1, 2, 4, and 5," dated February 27, 2012. In both cases, the author has relied on the conclusions of these independent experts in support of analytical work on the project.

The sections on Environmental Liabilities and Permitting have been summarized from verbal and email communications during February 2012, with Ms. Vickie Maranville, Project Manager for environmental consultants AMEC, which provided permitting and environmental services to the company.

The section on Mineral Resource Estimates is based on resource modeling performed by Mr. Manuel Arre of Gemcom Software International in February 2007. Mr. Arre performed the calculations under the direction of the author, then-President of El Capitan, Mr. Kenneth Pavlich, and geological consultant David S. Smith.

Except in the case of reports by Noel Palmer and David Smith, and resource modeling by Mr. Manuel Arre, the author has not been able to fully verify the information in the above reports and communications but is of the opinion that they are generally accurate and reliable.

4 Property Description and Location

4.1 Property Description and Location

The El Capitan project is located approximately five miles NNE of the town of Capitan, in Lincoln County, south-central New Mexico (Figure 1). The property is in Sections 9 through 16, Township 8 South, Range 14 East, New Mexico Principal Meridian, on the Capitan and Jacob Spring U.S. Geological Survey 1:24,000 topographic quadrangle maps. The center of the project is at approximate GPS coordinates 448450E, 3719950N, using datum WSG 84 Coordinatee System.

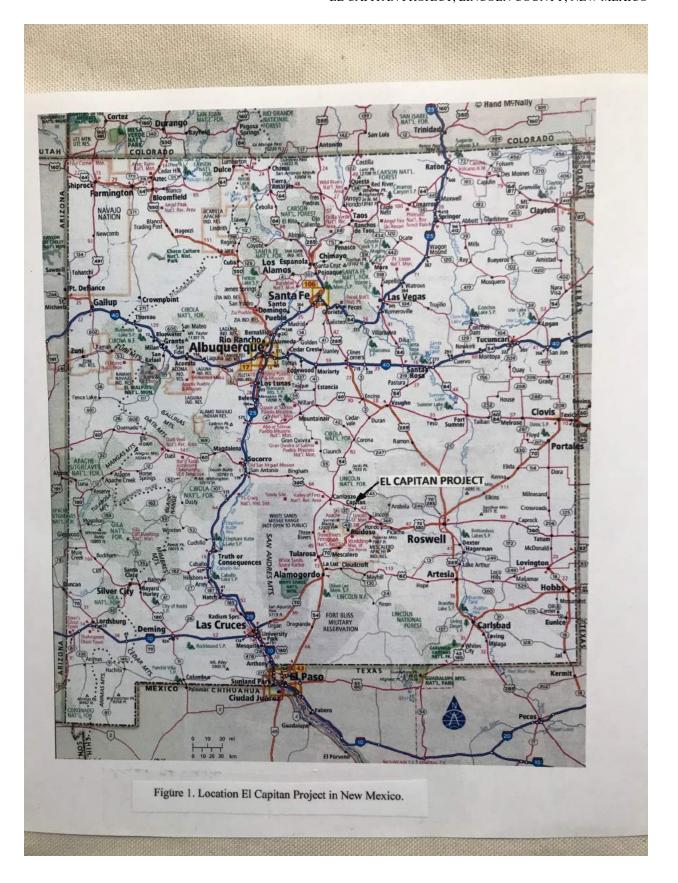
The El Capitan property consists of three blocks of claims (Fig. 2):

- Four patented claims located in 1902 and patented in 1911 with Mineral Survey Numbers 1440, 1441, 1442, and 1443. No property payments or royalties are due on these claims.
- Twelve Bureau of Land Management (BLM) unpatented lode claims that were staked between 1996 and 2011. These claims are shown in gray in Figure 2. These claims have been maintained in good standing by payment of annual maintenance fees since 2012.
- One hundred Bureau of Land Management (BLM) unpatented lode claims that were staked on March 9, 2022, recorded in the Lincoln County BLM office on March 11, 2022, with payment of a total of \$22,500 acknowledged by the Santa Fe, NM, BLM office on March 15, 2022.

The 112 unpatented lode claims are named Smokey and consist of rhe following numbers: 1-6, 10-18, 20-24, 26-28, 30-53, 228-237, 254-264, 281-285, 298-302, 314-316, 328-331, 354-360, 381-391, 420-428.

On July 18, 2023, Commissioner Nicholas Morerod in the Lincoln County government office, Carrizozo, NM, confirmed and provided documentat that these 112 claims are in good standing.

All of the above claims are in good standing with the BLM as of the effective date of this report. Surface lands in the property area are administered by the U.S. Forest Service.



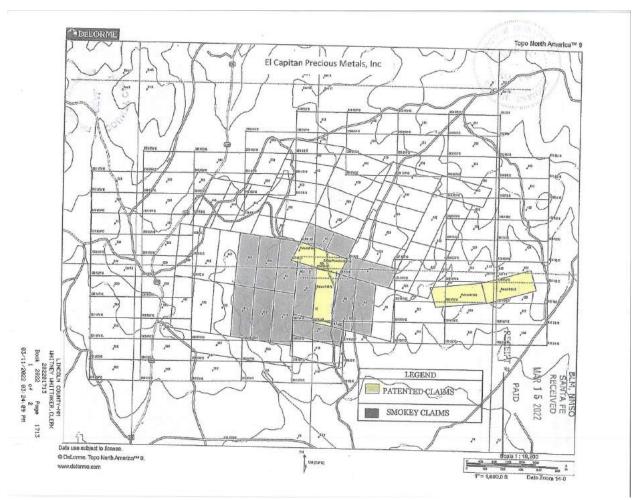


Figure 2. Map of El Capitan Precious Metals Inc. claim block. Four patented claims shown in yellow; 12 unpatended claims held since 1996-2011 in gray, and 100 uncolored unpatented claims staked and recorded in March 2022.

4.2 Nature of El Capitan's Interest

The El Capitan claims are owned by El Capitan Precious Metals Inc., a Nevada corporation in good standing as of the effective date of this report, and its subsidiary, ECPN Technologies Inc. The company has staked the unpatented lode claims in 1996, 2000, 2003, 2005, 2011, and 2022, and purchased a 100% equity interest in the four patented claims in January 2006.

4.3 Environmental Liabilities

The author is not aware of any current environmental liabilities on the project.

4.4 Permitting

Permitting for the El Capitan project is required for two functions: exploration drilling on areas outside of the central mine area and mining operations.

Two principal government agencies oversee exploration permitting for the project: the U.S. Forest Service (USFS) and the New Mexico Mining and Minerals Division (MMD). Through its permitting consultant, AMEC, El Capitan has previously submitted documents to both agencies. USFS requires approval of a Plan of Operations that has been submitted, revised, and re-submitted. A National Environmental Policy Act (NEPA) scope of work was also

submitted to the USFS, comments received, and incorporated into a revised NEPA scope of work. MMD requires approval of a Subpart 4 Exploration Permit, which has been submitted and administrative comments received; a MMD site visit has been conducted.

Permitting for small-scale mining operations is reportedly in place. The company holds a Minimal Impact Existing Mine Operation Permit (number LI00 ME) issued in June 1999 covering mining on the property. According to El Capitan's permitting consultant AMEC in March 2022, the mining permit was valid and remains in effect.

Both exploration and mining permitting could potentially be affected by the Mining Ordinance passed by Lincoln County in 2009. This requires a proposed mining operation to comply with all State and Federal permitting requirements and adds to these a Mining Operations Permit issued by the county. It was AMEC's opinion in March 2022 that this statute may apply to the exploration permitting, but should not affect the mining permit, since the mining permit was issued and in effect long before the Mining Ordinance was passed.

5 Accessibility, Climate, Local Resources, Infrastructure, Physiography

The project is located approximately six miles by road north of the town of Capitan, New Mexico. It may be reached by driving 5.5 miles north from Capitan on paved State Highway 48 to a dirt road turn-off to the east. This road leads to the deposit located 0.8 mile from the highway.

The claim block covers gently rolling to moderately rugged topography ranging in elevation from 6700-7100 feet above sea level. Elevations in the area of the main El Capitan deposit are 6780-6900 feet. Vegetation is sparse, consisting of scattered juniper trees with grass and rare small cactus ground cover. The climate of the area is amenable to year-round operations. Summer temperatures reach 95 degrees and winter temperatures may drop below freezing with brief periods of snow.

Surface rights for mining are administered by the U.S. Forest Service and are generally awarded in the southwestern U.S., subject to the permitting and environmental issues outlined above.

The property is currently supplied with power and telephone service. Water for a mining operation will probably only be available from wells drilled on the property. The gently rolling terrain of the main deposit should provide acceptable locations for plant sites and waste and tailings disposal.

The southwestern U.S. has ample skilled mining labor available from large population centers such as Phoenix and Tucson, Arizona. Local labor is also available from such nearby towns as Capitan, Ruidoso, and Roswell, New Mexico.

6 History

The El Capitan deposit has been known as a potential iron ore resource for several decades. The U.S. Bureau of Mines drilled approximately 140 shallow holes through an outcropping, shallowly-dipping magnetite skarn deposit in 1944 and 1948. The outcropping deposit was geologically mapped at a scale of 1:3600 in 1952 (Kelley, 1952). Small-scale iron ore production totaled approximately 250,000 tons in the years 1961-1988. El Capitan Precious Metals Inc. conducted a ground magnetic survey and a drill program of six shallow holes in 2002.

Although only low precious metals values had been obtained from the deposit by fire assay over the years, and no significant exploration had been conducted on the property, in May 2004 El Capitan Precious Metals submitted a few samples of magnetite skarn to Auric Metallurgical Labs in Salt Lake City, Utah. Auric separated the samples into magnetic and non-magnetic fractions and reported significant gold and platinum results on the non-magnetic fractions using their proprietary caustic fusion assay method.

The encouraging 2004 Auric assay results prompted a 32-sample surface sampling and assay program conducted by the author in January 2005. Auric reported potential ore-grade gold and platinum results on all 32 samples; this caused El Capitan Precious Metals Inc. to undertake three stages (Stage 1, Stage 2, Stage 3) of core, open-hole rotary, and reverse circulation drilling, under the direction of the author, which took place between April 2005 and May 2006.

Following the drilling campaigns, the company commissioned a study to verify the Auric proprietary caustic fusion assay method (Danielle, 2005). Based on the positive results of this report, the company undertook an initial

resource calculation (Smith, 2005), followed by NI 43-101 Technical Reports (Smith 2012, 2014). In 2007, Mr. Ken Pavlich became President and CEO of the company and served in this role until 2009. During this time a significant amount of testing work was undertaken in order to verify the presence of precious metals. Most of this work was done on four composite samples prepared from drill samples. A wide variety of tests were performed at numerous labs.

7 Geologic Setting and Mineralization

7.1 Regional Geology

The El Capitan project is located at the most prominent structural intersection in New Mexico (Scholte, 2003), within perhaps the greatest exposed concentration of Tertiary intrusions in New Mexico (Cather et al, 1991; Figure 3). Air magnetic and gravity surveys suggest that the project is underlain by a large mafic or ultramafic intrusion (Figures 4, 5). The structural intersection is formed by the north-south-trending axis of the Pedernal uplift-Mescalero arch and the east-west-trending Capitan lineament (Figure 3). In the south, the Pedernal-Mescalero axis closely parallels the Sacramento uplift, an east-tilted fault block with evidence of at least three periods of deformation ranging from Precambrian to late Tertiary; in the north it closely parallels a series of faults and folds in the Picuris-Pecos trend. The Pedernal-Mescalero structural zone coincides generally with a belt of crustal thickening and alkalic intrusions (Bird, 1984) that marks the boundary between the tectonically active Rio Grande Rift (a branch of the Basin and Range) and Rocky Mountains on the west and the tectonically stable Great Plains on the east. The Pedernal-Mescalero axis appears to be offset approximately 8.5 miles across the Capitan lineament (Cather et al, 1991). The Capitan lineament is a well-defined basement fracture and magmatic zone that can be traced for over 270 miles from Socorro, New Mexico into western Texas; in the area of the El Capitan deposit the lineament is reflected by the Capitan pluton (Figure 3).

The Tertiary intrusions in the area form the Lincoln County porphyry belt that includes at least 11 stocks and laccoliths (Figure 3). The east-west elongate, 35 km-long Capitan pluton is a Miocene (26.5 Ma) aplite (granitic) laccolith that plunges westerly and underlies the El Capitan deposit. Thompson (1991) concluded that magmas in the porphyry belt were generated from both lower crustal and upper mantle sources, and McLemore (1991) concluded that a diversity of mineral deposit types in the El Capitan region resulted from several different complex magmatic fractionation and differentiation events. Figures 4 and 5, from Roberts, et al (1991), show coincident steep-gradient aeromagnetic and gravity anomalies. These anomalies cover an area of over 270 square miles, show northerly and easterly structural trends, and are interpreted to reflect a large mafic or ultramafic intrusion that underlies the Lincoln County porphyry belt and the El Capitan deposit. It is possible that precious metals-bearing hydrothermal fluids that formed the El Capitan deposit were differentiates from this buried mafic or ultramafic intrusion.

The El Capitan deposit is one of 16 Au-Ag-bearing occurrences in a 270-mile-long, north-south trending belt that traverses New Mexico within the Rio Grande Rift (Figure 6). McLemore (2001) has termed these occurrences Great Plains Margin deposits, has described the similarities between them, and has classified them as a distinct hydrothermal type located near Oligocene-Miocene (38-23 Ma) intrusions.

7.2 Property Geology

The El Capitan deposit is located within a 10-square-mile north-south-trending belt approximately 2 miles wide underlain by Permian limestone and lesser quartz sandstone. These sedimentary rocks crop out intermittently between the bold outcrops of the Miocene Capitan aplite intrusion to the east and rhyolitic volcanics and lesser interbedded basaltic volcanics and conglomerate to the west. The rhyolites are dominantly ash flows and appear to be the extrusive equivalents of the aplite intrusion. Both the aplite and the rhyolites are unusually iron-rich; disseminations of limonite/goethite (original hematite) occur to some extent in most outcrops of these rocks. It is possible that the iron-rich composition of these rocks reflects crystallization from magmas that originated by differentiation from mafic/ultramafic magmas at depth; as noted above, coincident aeromagnetic and gravity anomalies in the region suggest deep mafic/ultramafic compositions.

7.3 Mineralization

The El Capitan deposit is exposed in a shallow open pit and outcrops within a nearly circular area 1300 feet in diameter (Figure 7). Kelly (1952) attributed the circular shape of the main El Capitan deposit to a solution collapse structure in the host San Andres limestone of Permian age. Drill results indicate, however, that the deposit extends in all directions beyond the area of surface exposure and that the circular shape is simply an erosional expression of a shallowly dipping skarn deposit.

Six east-west and seven north-south geologic cross-sections (Appendix 2) show the general geology of the deposit based on drill holes. These cross-sections show that the overall form of the El Capitan deposit is that of a flat-lying to shallow west-dipping body of skarn surrounded by crystalline limestone lying on the aplite intrusive contact. Interbeds of quartz sandstone interrupt the continuity of the skarn and crystalline limestone. The mineralized body is at least 3000 feet long in an east-west direction, at least 2000 feet wide north-south, and ranges in thickness up to 400 feet. Although potentially economic gold assays are concentrated in the skarn and crystalline limestone, potentially economic grades occur in all rock types, including fractured, stockwork, or brecciated quartz sandstone, limestone, and aplite.

The El Capitan skarn includes two magnetite-dominant zones (upper and lower magnetite bodies). The upper magnetite zone lies below a limestone cap that is bleached, fractured, and contains hematite-calcite fracture filling. This bleached, fractured, and veined limestone cap is nowhere more than a few tens of feet thick and it passes upsection into fresh limestone. Below the limestone cap rock and upper magnetite zone lie a variety of skarn assemblages including magnetite, hematite, calcite, phlogopite, diopside, quartz, tremolite, as well as crystalline limestone. These all lie above aplite of the Capitan pluton. At this stage, no zonal pattern has emerged among skarn facies. The aplite contact has a shallow westerly dip, ranging in depth, where drilled, from 100 feet in holes to the east to 450 feet in holes to the west (Appendix 2).

All of the above-described rocks are cut by ubiquitous and commonly abundant hematite, oxidized to limonite or goethite on surface and in the upper parts of drill holes. Hematite occurs as a primary constituent in all skarn assemblages and as post-skarn fracture fillings, stockworks, breccia fillings, and replacements with calcite in skarn, limestone, sandstone, and aplite. Hematite commonly exceeds 12% and ranges as high as 80% in some drill intervals. Fracture-filling and replacement hematite-calcite clearly represent a later-stage hydrothermal event that was superimposed on earlier rock types. An assumption that these fluids were derived exclusively from the aplite is questionable because fracture-filling hematite-calcite occurs in aplite in the deeper parts of some drill holes. It is therefore apparent that at least some portion of the hematite-calcite hydrothermal fluids were derived from a deeper source underlying the aplite intersected in drill holes.

Geologic evidence indicates that gold was introduced both during magnetite skarn formation and during hematite-calcite veining. Precious metals in the deposit appear to correlate with the presence of hematite-calcite: higher gold values (as assayed by Auric Labs) generally occur in both surface and drill samples with higher percentages of hematite. Two hematite-dominant samples from the El Capitan deposit studied at the Missouri Bureau of Mines in 1996 (Appendix 3) contained 2- to 35-micron crystals of electrum (Au-Ag alloy), native gold, and an unidentified possible Pt mineral as shown by reflected-light microscopy and scanning-electron microscopy with energy dispersive spectroscopy (SEM-EDS). SEM-EDS work conducted under the author's direction has revealed 1-micron crystals of Au with possibly small amounts of Pd as inclusions in magnetite crystals (see Analytical Testing, 2011-Present, below)

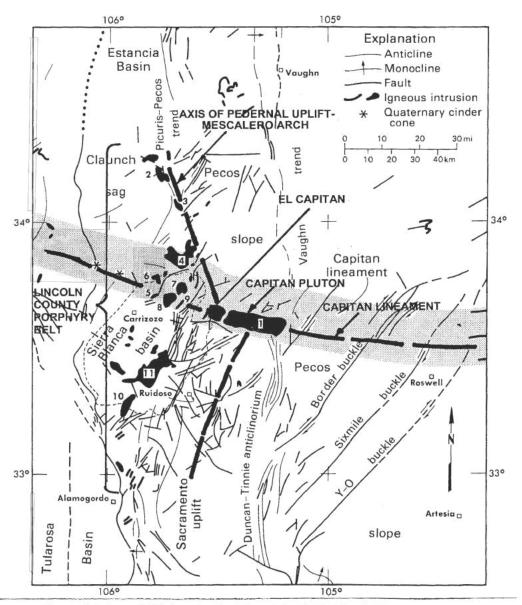


Figure 3. Tectonic map of El Capitan region (after Cather and others, 1991). Pedernal uplift-Mescalero Arch coincides with crestal area of Sacramento uplift, belt of igneous intrusions and Picuris-Pecos trend to north of Capitan pluton. Arch steps west 16 km to north of pluton.

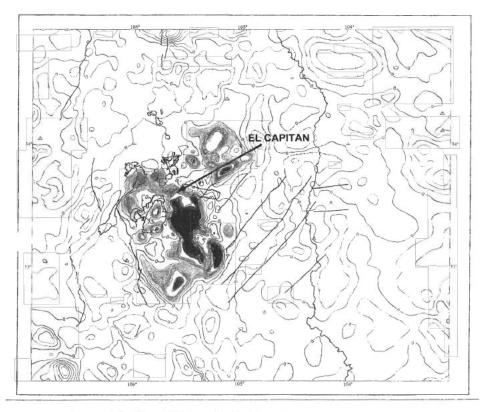


Figure 4. Aeromagnetic intensity map, El Capitan region (after Roberts and others, 1991). Contour interval 50 gammas except where steep gradient shows 500 gamma and higher contours.

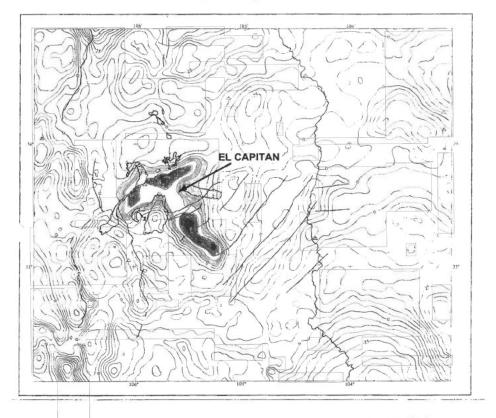


Figure 5. Residual gravity map, El Capitan region (after Roberts and others, 1991). Contour interval 5 milligals.

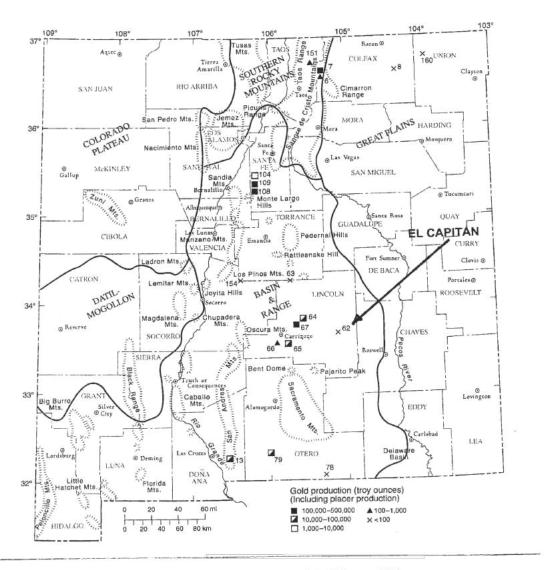
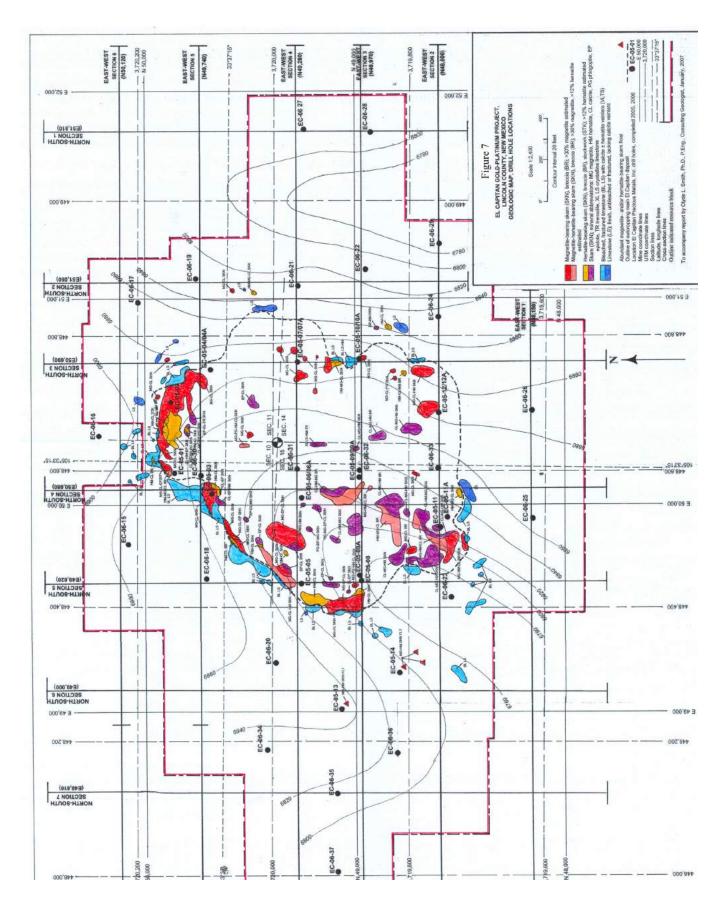


Figure 6. Great Plains Margin deposits in New Mexico (after McLemore, 2001).



8 Deposit Types

The El Capitan deposit is principally a skarn deposit. It can also be classified as a Great Plains Margin deposit according to McLemore (2001), and the presence of platinum as reported by Auric Metallurgical Labs indicates that it may also be a hydrothermal gold-platinum group elements deposit. These deposit types are described below.

8.1 Skarn Deposits

The mineralization at El Capitan clearly falls into the category of skarn deposits. Skarns are a widely variable class of deposit formed by magmatic hydrothermal activity resulting from the interaction between dioritic to granitic intrusives and host rocks, typically Ca- or Mg-rich sedimentary rocks. Skarns are distinguished by coarse-grained, generally Fe-rich mixtures of Ca-Mg-Fe-Al-Mn silicate minerals formed by fluid metasomatism at relatively high temperature (Einaudi and Burt, 1982). The most economically important skarn deposits are formed in Ca-rich host rocks, dominantly limestone. Mineralogy of individual skarn deposits is highly variable, but generally includes varieties of garnet, pyroxene, and wollastonite; Fe-rich skarn deposits, such as El Capitan, also include magnetite, epidote, amphibole, and mica minerals.

Skarns are a major source of the world's tungsten, iron, copper, lead, zinc, and tin; in their iron-rich form, they typically form 5- to 200-million-ton deposits averaging about 40% Fe with accompanying Cu, Co, and Au (Einaudi et al, 1981). Skarn deposits in the southwestern U.S. include those in the Iron Mountain and Central mining districts, New Mexico; Christmas, Morenci, and Twin Buttes districts, Arizona; Bingham Canyon, Utah; and Yerington, Nevada (Einaudi et al, 1981).

Skarn deposits typically follow a three-stage progression from 1) contact metamorphism during intrusion of the mineralizing magma; to 2) formation of skarn mineralization as fluid is released during the magma's crystallization; and finally, to 3) retrograde alteration as the magma cools. During the main stage of skarn formation, fluids infiltrate along available structures, including intrusive contacts, fractures, dikes and sills, sedimentary contacts, or other zones of permeability (Einaudi et al, 1981). As the result of multi-stage formation and appropriation of this wide variety of pre-existing fluid pathways, skarn deposits often form complex and irregular bodies.

Einaudi et al (1981) note that sulfide minerals, and in some cases Fe-oxide minerals, typically precipitate during retrograde phases of skarn systems and cut across the earlier skarn formations. These are generally accompanied by hydrous, Ca-depleted silicates and carbonates, among them epidote, chlorite, and calcite; these minerals are evident at El Capitan. Thus, skarn minerals at El Capitan are likely retrograde in origin. More importantly, the retrograde nature of Fe oxides in late-stage, cross-cutting events matches the observation in the El Capitan deposit of hematite-calcite veins (retrograde) cutting across magnetite (main-stage skarn).

The limestone host rock, irregular form, association with nearby intrusives, and varied assemblage of Ca-rich silicate minerals, all place the El Capitan mineralization in the skarn category.

8.2 Great Plains Margin Gold-Silver Deposits

The El Capitan deposit is one of 16 Au-Ag-bearing occurrences in a 270-mile-long, north-south trending belt that traverses New Mexico within the Rio Grande Rift (Figure 6). McLemore (2001) has termed these occurrences Great Plains Margin deposits, has described the similarities between them, and has classified them as a hydrothermal deposit type located near alkaline Oligocene-Miocene (38-23 Ma) intrusions. They constitute a broad group of deposits containing both precious and base metals. The Au-rich subtype may also be classified as alkaline Au or alkaline-igneous-related Au deposits; Great Plains Margin Au deposits typically have high Au relative to other Au occurrences in New Mexico and contain generally low levels of Ag, less than 1 opt Ag.

Great Plains Margin deposits include Cu, Fe, Pb-Zn, and Au skarns or carbonate replacements. Fe skarns are hosted in Paleozoic or Cretaceous limestone or calcareous shale and contain predominantly magnetite and hematite, along with garnet, epidote, diopside, and other calc-silicate minerals; El Capitan contains all of these characteristics. McLemore (2001) notes anomalous precious-metals assays (>0.6 ppm Au, >15 ppm Ag) from Fe skarns in the Capitan Mountains (presumably the El Capitan occurrence) and states that fluid inclusions suggest a link between this Fe skarn and veins in the Capitan Mountains.

The origin of Great Plains Margin deposits is not fully clear, but McLemore (2001) notes that they correspond with a belt of alkaline igneous rocks occurring along the boundary between the Great Plains to the east and the southern

Rocky Mountains and Basin Range province to the west, and that there is evidence of their origin in these alkaline igneous rocks.

8.3 Hydrothermal Gold-Platinum Group Metals Deposits

Because assays from Auric Metallurgical Labs indicated the presence of potentially ore-grade platinum, the author investigated gold-platinum deposits formed as the result of hydrothermal processes. Gold occurs with platinum group metals (PGM) in several classes of mineral deposits, many of which are hydrothermal in origin. Because the production of PGM has come almost exclusively from large Precambrian ultramafic layered intrusions, such as the Bushveld or Stillwater complexes of South Africa and Montana, respectively, the majority of geologists are of the opinion that PGM are restricted to these high-temperature magmatic segregation environments. Beginning in the early 1970's, however, a few detailed studies confirmed that PGM could be mobilized with Au in relatively lower-temperature hydrothermal fluids (Stumpfl and Tarkian, 1976). Numerous studies of Au-PGM deposits and laboratory research on the thermochemistry of PGM solubility, transport, and deposition since that time have shown that Au-PGM occur in a variety of hydrothermal deposit classes, including porphyry copper, fracture-shear-zone-hosted, and sediment-hosted deposits (Appendix 4).

The Lincoln Country porphyry belt, which includes the Capitan pluton, is dominated by intrusions of alkaline composition (Cather et al, 1991) and is included in a belt of alkaline intrusive rocks that stretches through the eastern Rocky Mountains from British Columbia to New Mexico. Alkaline intrusions commonly occur in continental rifts, such as the Rio Grande Rift. Hydrothermal Au-PGM occur as minor constituents in porphyry copper mineralization in alkaline plutons within this belt, the best example being the Allard stock in the Colorado Mineral Belt. The 70-65 Ma Allard syenite stock had a copper resource that included 0.02 opt Au, 0.05 opt Pt, and 0.03 opt Pd (Werle et al, 1984). Although the El Capitan Au-PGM-Fe mineralization is hosted primarily in skarn, close proximity to the Capitan pluton and its possible genetic association with the pluton indicates that the El Capitan deposit is a member of the Au-PGM mineralized alkaline porphyry belt of the eastern Rocky Mountains.

Similarly, the Coronation Hill Au-PGM deposit in Australia exhibits a strong hematite-precious metals association that bears a resemblance to El Capitan. At Coronation Hill, hematite-calcite veinlets, breccias, disseminations, and alteration in a 2500-1600 Ma sedimentary section intruded by quartz feldspar porphyry and quartz diorite host a deposit grading 0.20 opt Au, 0.008 opt Pt, 0.028 opt Pd (Carville et al, 1990). Mernagh et al (1994) concluded that a calcium-rich, highly oxidized, acidic, moderately saline brine transported Au-PGM in chloride complexes. This conclusion corresponds with the results of numerous thermochemical studies showing that significant Au-Pt-Pd can only be transported in chloride complexes in acidic, moderately to extremely oxidized (hematite stable) hydrothermal fluids (Appendix 4).

9 Exploration

The 32-sample surface sampling program conducted in January 2005 consisted of 28 samples in the main El Capitan deposit and four in a mineralized trend to the east. Near-vertical (slope corrections were made for non-vertical samples) continuous chip samples of approximately 10 pounds in weight were collected from outcropping mineralization over vertical lengths ranging from 4 to 45 feet at stations located with a GPS instrument and plotted as UTM coordinates. Samples were submitted to Auric Metallurgical Labs for caustic fusion assays.

Following encouraging assay results from a Stage 1 drill program (see below), the area of outcrop of the main El Capitan deposit was mapped at a scale of 1:2400. Figure 7 shows the distribution of various skarn assemblages consisting of magnetite, hematite, calcite, phlogopite, epidote (now identified petrographically as diopside), and tremolite; crystalline limestone; bleached and fractured limestone; and limestone.

An airborne hyperspectral survey was conducted over a 35-square mile area surrounding the El Capitan property by Earth Search Sciences, Inc. in February 2006. The data was interpreted by Joe Zamudio, Ph.D., who distinguished calc-silicate and hematite-goethite spectral signatures. A total of 38 samples were collected from outcropping mineralization or alteration at 24 anomaly locations and submitted for caustic fusion assay to Auric Metallurgical Labs. Auric reported significant gold and platinum results for several samples. These areas should be more fully explored.

10 Drilling

A Stage 1 diamond drill program, consisting of 12 vertical HQ-size holes (EC-05-1 through EC-05-12; Table 1) totaling 1,027 feet, was conducted in April-May 2005. Because several Stage 1 drill holes terminated in favorable geology and/or assay intervals, the company conducted a Stage 2 drill program in June-August 2005. Stage 2 consisted of 10 vertical HQ core and open-hole rotary holes (EC-05-04A through EC-05-14; Table 1) totaling 2,091.5 feet. Eight Stage 2 holes were located adjacent to Stage 1 holes and are labeled with the designation "A"; for these holes, assays and geologic logs are available only for footages below the adjacent twin holes (Table 1). Favorable assay results from Stages 1 and 2 prompted the company to undertake a 23-hole Stage 3 reverse-circulation drill program (EC-06-15 through EC-06-37) totaling 9,645 feet in February-May 2006 (Table 1).

Drill core was logged in 1-foot intervals and rotary and reverse-circulation drill cuttings in 5-foot intervals with the aid of a binocular microscope (Appendix 5). Mineral percentages were estimated for each interval and lithologic divisions were designated. Although most core sampled and assayed was in five-foot intervals, in some cases core intervals were selected based on lithologic boundaries. Most rotary and reverse-circulation drill cuttings were sampled in 5-foot intervals; in cases where geology was uniform over significant lengths, such as in aplite with low hematite content deep in several holes, sample intervals were increased to 10 feet.

Drill-hole spacing is irregular, ranging from 150 to 700 feet and averaging approximately 400 feet. The holes are located over an area of 3600 feet east-west by 2100 feet north-south and were drilled to variable depths ranging from 98 feet to 710 feet (Table 1).

Table 1. Drill-Hole Information								
	UTM Cool	rdinates¹	Mine coordi	nates, ft²				
Hole ID	\mathbf{E}	N	${f E}$	N	Elevation, ft	Depth, ft		
EC-05-01	448,596	3,720,145	50153.23	49861.08	6866.90	99		
EC-05-02	448,702	3,720,149	50499.12	49877.16	6890.79	118		
EC-05-03	448,566	3,720,091	50052.17	49684.19	6852.89	133		
EC-05-04	448,749	3,720,092	50652.50	49688.93	6894.18	38		
EC-05-4A	448,750	3,720,092	50656.42	49688.03	6895.09	136		
EC-05-05	448,433	3,719,961	49617.09	49259.62	6817.08	103.5		
EC-05-06	448,558	3,719,961	50028.57	49257.91	6815.33	81		
EC-05-6A	448,561	3,719,960	50037.37	49255.48	6816.30	206		
EC-05-07	448,757	3,719,966	50681.64	49276.03	6889.03	118		
EC-05-7A	448,760	3,719,966	50689.92	49275.95	6889.17	260		
EC-05-08	448,437	3,719,873	49630.60	48970.42	6780.25	89		
EC-05-8A	448,445	3,719,876	49656.26	48979.05	6779.62	280		
EC-05-09	448,589	3,719,878	50129.81	48985.87	6834.44	66		
EC-05-9A	448,589	3,719,877	50130.62	48982.14	6834.22	90.5		
EC-05-10	448,764	3,719,876	50702.95	48980.33	6881.23	62		
EC-05-10A	448,765	3,719,876	50706.86	48979.04	6881.39	210		
EC-05-11	448,516	3,719,758	49889.93	48593.51	6830.58	59		
EC-05-11A	448,531	3,719,749	49937.27	48562.52	6838.89	340		
EC-05-12	448,686	3,719,761	50448.02	48602.26	6882.99	60.5		
EC-05-12A	448,682	3,719,762	50435.35	48604.69	6881.79	405		
EC-05-13	448,247	3,719,903	49008.55	49070.36	6842.41	82		
EC-05-14	448,302	3,719,818	49186.12	48790.32	6803.17	82		
EC-06-15	448,491	3,720,211	49808.70	50078.64	6875.39	400		
EC-06-16	448,652	3,720,254	50334.67	50219.52	6905.79	355		
EC-06-17	448,849	3,720,197	50981.04	50033.56	6863.52	450		
EC-06-18	448,440	3,720,098	49640.12	49709.08	6866.49	450		
EC-06-19	448,883	3,720,112	51094.23	49755.31	6825.41	250		
EC-06-20	448,315	3,719,999	49230.40	49382.09	6854.57	450		
EC-06-21	448,873	3,719,964	51060.87	49269.61	6839.01	350		
EC-06-22	448,897	3,719,867	51138.32	48949.98	6806.07	450		
EC-06-23	448,413	3,719,743	49552.48	48543.06	6768.36	400		
EC-06-24	448,826	3,719,762	50908.13	48605.89	6848.67	400		
EC-06-25	448,528	3,719,624	49930.45	48152.85	6869.39	500		
EC-06-26	448,688	3,719,625	50453.06	48158.12	6882.62	360		
EC-06-27	449,103	3,719,956	51816.87	49241.64	6812.25	270		
EC-06-28	449,098	3,719,859	51799.91	48924.14	6814.30	300		
EC-06-29	448,934	3,719,759	51261.03	48596.53	6777.26	420		
EC-06-30	448,593	3,720,106	50143.02	49734.70	6849.07	600		
EC-06-31	448,602	3,719,967	50171.25	49278.13	6838.80	710		
EC-06-32	448,601	3,719,877	50168.89	48982.15	6836.45	530		
EC-06-33	448,603	3,719,762	50174.38	48607.18	6848.99	600		
EC-06-34	448,190	3,720,010	48812.86	49419.41	6835.99	400		
EC-06-35	448,125	3,719,910	48602.40	49085.57	6818.21	400		
EC-06-36	448,180	3,719,823	48799.60	48797.94	6819.34	300		
EC-06-37	448,010	3,719,910	48223.68	49088.47	6779.43	300		
	- ,	, ,			Total	12,763.5		

¹UTM coordinates are in meters, using 1927 North American Datum (NAD 27) ²Mine coordinates surveyed in feet by Ruidoso Land Surveying, Ruidoso, NM

Numbers in bold type - Assays and geologic logs available only for footages below adjacent twin holes

11 Sample Preparation, Analyses, and Security

Sample preparation, analyses, and security are reported below for the various phases of the project. For convenience, all testing is summarized in this section, some of which includes metallurgical testing.

11.1 Surface Sampling, 2004-2005

In December 2004, the author first visited the El Capitan project and collected three samples. He submitted these to American Assay Labs of Sparks, Nevada. Because Auric Metallurgical Labs had been reporting positive preciousmetals results in the non-magnetic fraction of El Capitan samples, American Assay was instructed to do a magnetic separation and assay both the magnetic and non-magnetic fraction. Assays of the three non-magnetic fraction samples returned results of: <0.003, 0.016, and 0.024 opt Au. The lab did not weigh the magnetic and non-magnetic fractions, so calculation back to head grade could not be done, but the results indicated to the author the presence of Au at the El Capitan project. To date, this is one of the few reliable testing results without pre-treatment on a chain-of-custody sample that have produced ore-grade numbers similar to Auric's caustic fusion assays (see below).

Based on these positive results, the author returned to the project in January 2005 for additional work. During this visit, he collected 32 samples, including 28 from the main pit area and four from a mineralized showing to the east. These samples were submitted under chain of custody to Auric Metallurgical Labs without prior preparation. Auric returned encouraging results in Au and Pt, with values up to 0.089 opt Au and 0.053 opt Pt. These results prompted El Capitan Precious Metals to undertake a Stage 1 drilling program, later expanded to include Stages 2 and 3 drilling.

11.2 Drill Sampling, 2005-2006

11.2.1 Drill Sample Preparation and Security

The author paid close attention to chain of custody for all drill samples and maintained the drill samples under secure storage since they were generated during all three phases of drilling. Drill core and cuttings were removed from the drill site by the independent consultant in charge at the time and transported to and stored in secure locked storage units in the town of Capitan, New Mexico, near the property. No personnel of El Capitan Precious Metals had access to or handled any drill core or cuttings. Core and drill cuttings recovery on the job ranged from good to excellent and samples are excellent representations of the deposit.

Sample preparation onsite consisted of cutting drill core lengthwise with an electric diamond saw. One half of the core was returned to the core box and retained as a geologic sample. The other half was quartered; one quarter was sent for assay and the other bagged in anticipation of future testing and retained in secure storage. Rotary and reverse-circulation drill cuttings were split at the drill discharge and bagged into two equivalent samples in 5-foot intervals by the drilling contractor under the supervision of an independent consultant. The one-quarter sawed core and one 5-foot sample bag of drill cuttings were sent under chain of custody by a certified shipping company to Auric Metallurgical for caustic fusion assays. One shipment of reverse-circulation drill samples sealed in buckets with tamper-evident tape was transported by El Capitan personnel to Auric Metallurgical in October 2006; Auric confirmed upon delivery that these samples arrived with all seals intact.

Drill core and cuttings were stored in a secure, locked storage facility in the town of Capitan, New Mexico with access by only the author, his associate, consulting geologist David S. Smith, and independent consultant George Stephens IV. In order to facilitate testing research, all drill samples were moved to secure storage in Denver, Colorado in December 2011. The status of drill samples that were stored in Capitan and in Denver cannot be confirmed by the author as of the effective date of this report.

11.2.2 Drill Sample Analytical Testing

All drill samples were analyzed by Auric Metallurgical Labs who reported caustic fusion assay results for Au, Ag, Pt, and Pd in ounces per ton (opt; Appendix 6). The owner of Auric Metallurgial reported on July 13, 2023 that the lab was sold in March 2023 and nolonger performs analytical services. Auric was located at 3260 West Directors Row, Salt Lake City, Utah, USA, 84104. The lab was independent of El Capitan Precious Metals. Auric was a duly registered mineral assay and analysis laboratory since 1996. The lab was a participating member in the Proficiency Testing Program for Mineral Laboratories operated by the Canadian Certified Reference Materials Project for the

Task Group Mineral Analysis Laboratories Working Group for the elements analyzed on El Capitan samples. In addition, Auric participated in an evaluation of accuracy of U.S. analytical laboratories administered by the Bureau of Land Management in 2002. Auric's results on blind standards selected by the BLM were excellent for all four elements tested: Au, Ag, Pt, Pd. Auric employed quality controls in its laboratory, including running blanks and standards for each 10 samples analyzed. Auric reported that during analyses of El Capitan samples, they used Nevada Bureau of Mines blank NBM-2a, standards NBM-5b, and CDN PGMS-6, -7, and -9.

Sample preparation methods employed by Auric were as follows (Appendix 7). The one-quarter core samples were passed through a Denver 4x6-inch jaw crusher to reduce to -0.25 inch. Both crushed core and rotary and reverse circulation materials were passed through a Jones riffle splitter several times to reduce sample size to approximately 150 grams. Samples were then passed through a 6-inch Bico-Braun pulverizer until samples passed an 80-mesh screen. Pulverized samples were placed in 3x5-inch yellow kraft paper sample envelopes and appropriately labeled.

Stage 1 drill samples were visually separated into magnetic and non-magnetic categories based on apparent magnetite contents, and 100-gram aliquots of high-magnetite samples were subjected to wet magnetic separation. Initial separate analyses of the magnetic and the non-magnetic fractions indicated significantly higher values in the non-magnetic fractions. Thereafter, Stage 1 assay results were provided only for non-magnetic fractions. (For these samples, the Au, Ag, and Pt results for non-magnetic fractions were recalculated back to whole-rock grades using the magnetic/non-magnetic percentages.) This practice was abandoned in Stages 2 and 3.

Auric reported that it used high-quality equipment in its laboratory (see equipment list in Appendix 7) and that it maintained service contracts with certified calibration companies. According to Auric, only reagent grade chemicals from reputable chemical suppliers were used, and each batch of incoming reagents was subjected to analysis to ensure its purity.

Auric developed a proprietary caustic fusion assay method. Although the fundamental principles of fusion assays have been known for many years and are available in metallurgy textbooks, Auric was reluctant to release details of its method. For this reason, samples analyzed by Auric were subjected to an independent evaluation and verification study (see Data Verification, below).

Splits from 79 core intervals prepared at Auric that contained significant magnetite were submitted to Lerch Bros., Hibbing, Minnesota for determinations of magnetite percentage and Fe content of the magnetite.

11.3 Analytical Testing, 2007-2009

During the period of 2007-2009, while the company was led by Ken Pavlich, a significant amount of testing work was undertaken in order to verify the presence of precious metals on the project. Most of this work was done on four composite samples prepared from drill samples. A wide variety of tests were performed at numerous labs.

Test work performed by Mr. Michael Thomas at MHS Research near Denver, Colorado, during 2006-2007 appeared to provide promising results, similar to Auric's, with assays returning potentially ore-grade values. The methods and sample origins are not clearly known to the author, but procedures appear to include a nickel-sulfide assay and a carbonate pre-roast. Results from this testing deserve scrutiny and possible follow-up.

A careful review done by consulting geochemist Mr. Ken Bright in 2008 (Bright, 2008; Appendix 9) evaluated the following work:

- The Mineral Lab, Inc.: XRF for major and trace elements.
- Acme Analytical Labs: trace elements, Au Ag and Pt by wet analysis.
- Becquerel Labs: Neutron activation analysis.
- ALS Chemex: 24-hour cyanide leach using extra strength (2%) cyanide, a catalyst called Leachwell (a Pb nitrate), and continuous rolling.
- Acme Lab and ALS Chemex: fire assay with ICP finish of various sample sizes, re-testing of fire-assay slag, and use of a carbonate-flour roast and a Na-peroxide sinter prior to fire assaying.
- MHS Research (Mike Thomas): flour and potassium carbonate pre-treatment, with the resulting beads analyzed by Acme Lab by ICP-ES after parting and leaching.

The highest result was 84 ppb Au (0.0025 opt Au), detected by neutron activation at Bequerel Labs. Bright concluded that the four composite samples tested "do not evidence economically significant amounts of any noble metal" (Bright, 2008). He did allow that this could be due to a sampling anomaly, and recommended a thorough testing of about 75 samples from the project at various labs for various methods, including repeating the initial caustic fusion and cyanide leach tests at Auric Metallurgical Labs (See Mineral Processing and Metallurgical Testing, below).

In 2008-2009, Copper State Analytical Labs (CSAL) of Prescott, Arizona, was contracted to analyze the composite samples using a 3-acid /MIBK extraction, with 20-hour digestion in a Parr bomb pressurized vessel. If the results from this test are valid, they indicate potentially ore-grade levels of Au in the composite samples tested. CSAL's methods and procedures should be thoroughly evaluated, and a new suite of samples tested. In addition, CSAL performed hot cyanide-leach tests during the same period, again achieving potentially ore-grade results in the El Capitan composite samples. These results deserve follow-up.

The author was not involved in the analytical work during 2007-2009 and cannot comment directly on sample preparation and security, although it is his opinion that the work was handled in a generally professional and reliable manner.

11.4 Analytical Testing, 2009-2011

Following the departure of Ken Pavlich, the company undertook further research on assay and extraction techniques. The author was largely uninvolved during this period and until a thorough review of this work can be done, he cannot verify sample preparation, security, or results, except for the June 2009 sampling and analysis managed by David Smith, described below.

11.4.1 June 2009 Surface Sampling and Testing

In June 2009, independent consulting geologist David Smith collected a suite of 10 surface samples from within the El Capitan pit area (Smith, 2009). Two quality-control samples—a field blank and a field duplicate—brought the total number of samples to 12. Approximately 25 pounds of each sample was collected, to provide sufficient material for repeated testing. The intent of this sampling was to return to the sites originally sampled by the author in January 2005, in order to re-test those samples that had initially generated interest for the drilling program when analyzed by Auric Metallurgical Labs. The 12 samples collected by David Smith were sent under chain of custody to RDI in Denver, Colorado, for sample preparation. Splits of these samples were then sent to four different labs: American Assay Lab in Sparks, Nevada; Hazen Research in Golden, Colorado; Auric Metallurgical Labs in Salt Lake City, Utah; and Copper State Analytical Labs (CSAL) in Prescott, Arizona.

American Assay ran a 60-gram fire assays for Au and Ag and a multi-element ICP package; all precious-metals results were below or near the method detection limits. Hazen Research performed both a 60-gram fire assay and a 5-gram atomic absorption analysis for Au and Ag; all results were below or near the method detection limits. Auric declined to analyze the samples.

11.4.2 Testing Review Report

In October 2009, consulting analytical chemist Dr. Noel Palmer performed a review of the test work done up to that time on the project (Palmer and Smith, 2009; Appendix 10). Palmer noted the positive results from American Assay in 2005. He reviewed Richard Daniele's verification of the Auric caustic fusion assay method, concluding that "it shows the caustic fusion technique successfully being applied to El Capitan samples at two different labs and returning ore-grade numbers," and raising a number of questions for follow-up. This report also made a thorough review of the work done during 2007-2009 and recommended that the recommendations in Bright (2008) be followed, and it noted the positive results from Parr-bomb tests and hot cyanide leaching done at CSAL.

11.4.3 Orlando Villa and Sundancer Resources

Mr. Orlando Villa performed analytical services for El Capitan Precious Metals for several years, through his company Sundancer Resources Inc. (SRI), now based in Phoenix, Arizona.

Splits from the 10 surface samples taken by David Smith in June 2009 (see above) were sent to Copper State Analytical Labs, where they were apparently analyzed by Villa using a custom fire assay method and submitted to CSAL for analysis. CSAL split the beads, analyzed one half, and sent the other half to IPL Labs of Vancouver, B.C.,

for duplicate analysis. IPL returned assays as high as 0.364 opt Au, and CSAL reported assays as high as 0.408 opt Au. The average grade of the El Capitan samples was 0.063 opt Au and 3.99 opt Ag. However, in the opinion of the author the results are not reliable and remain unverified for two reasons: 1) recent testing directed by the author has pointed out serious quality-control issues with SRI's analytical work; and 2) SRI's work was not supervised by an independent observer and was therefore not under chain of custody. Results of SRI's custom assay methods deserve further evaluation but have so far not proven to be sufficiently accurate, precise, nor repeatable (see below).

In addition to custom assay methods of various sorts, SRI apparently has performed smelting tests; one such test is reported by El Capitan to have resulted in a net sale of approximately 40 ounces Ag to refinery Gannon & Scott in 2011 (see Mineral Processing and Metallurgical Testing, below). As well, SRI is reported to have treated a sample with a high-temperature roast in a plasma furnace, returning potentially ore-grade results; this sample was obtained by ECPN staff from its bulk stockpile of El Capitan mineralized rock and is therefore not a chain-of-custody sample. The author cannot comment on sample preparation and security for these tests, since he was not involved in the testing, but is of the opinion that they deserve evaluation and follow-up.

11.5 Analytical Testing, 2011-Present

In October 2011, El Capitan Precious Metals approached the author to assist with further analytical testing on the project. The author and his associate David Smith have been continuously responsible for maintaining the drill samples under secure storage since drilling, but until late 2011 were only intermittently involved in analytical testing work. Since that time, the author, David Smith, and consulting geochemist Noel Palmer have begun conducting systematic analytical testing on the project at numerous labs, including some work at SRI as described below. El Capitan has commissioned additional analytical and extraction testing at Sundancer Resources; the author has not evaluated nor verified this additional SRI work.

11.5.1 Analytical Testing Stages 1-5

This work began in October 2011, with an attempt to validate one of SRI's custom fire assay methods, a large-sample (227 grams) assay with a pre-roast treatment and specialized flux. Named analytical testing Stages 1 through 5, this work was performed on two sets of samples: 1) 11 samples collected from the project by the author in October 2011, at the same sites and with the same sample numbers as those collected by David Smith in June 2009; and 2) 19 drill samples from the project, selected to be roughly representative of the different host rocks, skarn assemblages, magnetite and hematite content, and Auric assay results encountered in the drill holes. All samples were in storage at RDI in Denver, Colorado; RDI prepared splits and sent them to CSAL, SRI in care of CSAL, and Inspectorate Labs in Vancouver, B.C. This work is discussed in Palmer, et al (2012b).

Stage 1 consisted of the author and/or Noel Palmer personally observing all analytical steps taken by Orlando Villa of SRI while performing his 227-gram custom fire assay method on the surface samples. Villa produced beads that were then analyzed by CSAL. All samples were under chain of custody, and the author can verify that the results are free from tampering. Stages 2 and 4 consisted of Orlando Villa running the same 227-gram method with improvements recommended by Noel Palmer on the surface samples (Stage 2) and on the drill samples (Stage 4) described above. These stages were not observed by independent observers. Stage 3 was intended to be screen fire assays of different screen-size fractions but was postponed until further information can be gathered. Stage 5 consisted of standard fire assay, multi-element ICP, and whole-rock major-oxide analyses to fully characterize the bulk chemistry of the samples. These tests generated potentially ore-grade values in Au; however, the experiment uncovered serious quality-control issues with SRI's work, and the author was unable to verify the SRI method in its current form as a viable test for precious metals on the project. Full details are available in Palmer et al (2012).

During this phase of testing, SRI analyzed material remaining from six of the Stage 1-5 samples and submitted the beads under another name to CSAL for analysis. The resulting assays showed excellent values in Au and Ag, averaging 0.105 opt Au with a high of 0.147 opt Au, and averaging 56.5 opt Ag, with a high of 206.5 opt Ag. However, the author cannot verify the results of these assays, for the following seven reasons: 1) the samples contain no mineralogic evidence to support such extremely high Ag values (206.5 opt Ag is equivalent to 0.65% Ag, which would be immediately obvious in the sample as native Ag or Ag sulfide minerals); 2) although the samples were under intact chain of custody to CSAL, this chain of custody was broken once Orlando Villa worked on this material without the direct observation of the author or Noel Palmer; 3) except for one sample, the Au assays are consistently higher (by a factor of 2 to 23 times) than results for the same samples tested under direct observation and intact chain of custody during Stage 1, as well as during the unobserved and therefore broken chain of custody

during Stage 4; 4) the assays included 5.4 opt Ag in a certified pulp blank (CDN-BL-9 from CDN Resource Labs of Vancouver, B.C.) consisting of a blank granitic material, indicating continued quality-control problems with the method and/or SRI's work; 5) the method included a very large Ag inquart, which, if not measured extremely accurately, can lead to erroneous results for both Au and Ag; 6) the method used by CSAL for determination of Ag content in the beads is not optimum for a large Ag inquart and is subject to errors; and 7) the results of Stage 1, 2, and 4 testing revealed serious quality-control issues with SRI's work on the method reportedly used for these assays, rendering unreliable any SRI results from this method produced without independent observation.

11.5.2 Analytical Testing Stage 6—SEM and Microprobe Work

Stage 6 analytical testing consisted of gravity-separation tests followed by scanning electron microscope (SEM) work and electron microprobe (EPMA) analyses on the concentrates, and neutron activation analysis (NAA) on the concentrates, tails, and quality-control samples (Smith et al, 2012). Two 10-kg composite samples were each made from two sets of 20 drill samples: one set with high hematite content, the other with high Au assays according to Auric's drill-sample assay results. The two composites were ground and put through wet gravity-separation tests at RDI, using a Diester gravity-separation table and then upgraded on a Gemeni gravity table. Concentrates from both samples were sent to Noel Palmer, and the tails retained in secure storage at RDI. All samples were maintained under intact chain of custody.

SEM work was undertaken at two facilities: CAMCOR at the University of Oregon in Eugene, Oregon; and ICAL at Montana State University in Bozeman, Montana. This work located and verified the presence of Au on the project. At both CAMCOR and ICAL, <10-micron grains of Au were imaged, either as individual solitary grains or as inclusions within magnetite (Figures 8, 9) At both CAMCOR and ICAL, the presence of Au was confirmed by energy-dispersive spectrophotometry (EDS) analysis. Although this gives no indication of bulk precious-metals grades on the project, it is one of the few unequivocal and verifiable pieces of evidence that proves the presence of Au at the El Capitan project. In the author's opinion, this work sets the foundation for continued investigation of the geochemistry of precious-metals on the project.

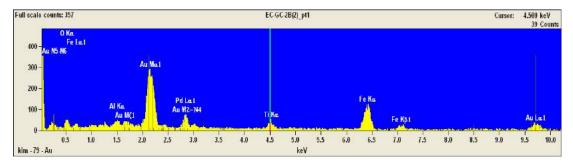


Figure 8. Au crystal in magnetite with accompanying EDS spectrum, sample EC-GC-2. From CAMCOR, University of Oregon.

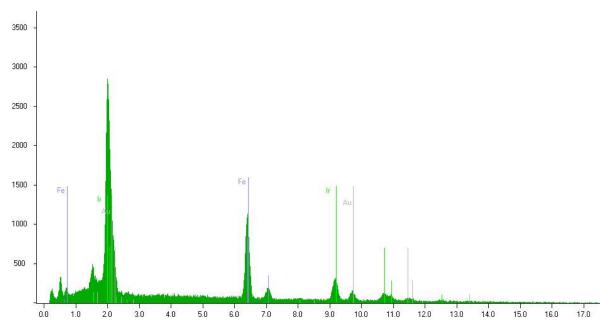


Figure 9. Au crystal on magnetite with accompanying EDS spectrum, EC-GC-1. From ICAL, Montana State University.

11.5.3 Analytical Testing Stage 7—SRI Custom Fire Assay

Stage 7 testing consisted of an attempt to verify the smaller (30-gram) version of SRI's custom fire assay method investigated in Stages 1-5 (Palmer, et al, 2012 a). For this work, 39 samples were tested: 21 drill samples and 18 quality-control samples, including two standards, one pulp blank, one field blank, and four replicates. All samples were prepared by RDI and sent under chain of custody to the lab of Chris Christofferson in Smelterville, Idaho, where Noel Palmer visited and supervised the beginning of verification testing. Christofferson's was the only independent lab found willing to run such a custom fire assay. Splits of the same 39 samples were also sent to Orlando Villa of SRI for analysis by the same method, with Christofferson's lab providing analysis of SRI's beads. Although not under chain of custody (SRI's work was not observed), it was thought advantageous to have SRI analyses to compare with Christofferson's using the same method.

Results of this testing were inconclusive and did not verify the SRI custom fire assay as a viable testing method. This was due to poor quality control results: both labs failed to return acceptable results on the QAQC standards, with results far out of control limits; and both labs were unable to acceptably replicate the two sets of triplicate samples.

11.5.4 Analytical Testing Stage 8—SRI 450-g Extraction

The initial intent of Stage 8 testing was to validate a custom 450-gram custom extraction method on samples from the project (Palmer and Smith, 2012). The method was developed by Orlando Villa of Sundancer Resources, a non-independent lab that does testing and research for El Capitan Precious Metals. Because of poor previous results by Villa, Stage 8 was not completed.

Sample material for Stage 8 was collected from the project by David Smith on May 11, 2012 and consisted of a bulk sample of approximately 4.5 tons of magnetite-dominant material and 1.5 tons of hematite-dominant material. The material was collected with a backhoe, placed in four large supersacks, and shipped to Hazen Research in Denver, Colorado under chain of custody. Bags 1, 3, and 4 were magnetite-rich, and bag 2 was hematite-rich; in subsequent communications, Hazen Research referred to the latter as the "Bag 2" sample. Hazen performed crushing, blending, and gravity separation testing.

On June 26-28, 2012, the author and Noel Palmer observed Orlando Villa perform his 450-gram custom extraction method on interim samples of Stage 8 material from the El Capitan project. This was an interim demonstration of

the method for investment banking firm Houlihan-Lokey's benefit. In attendance were El Capitan officers John Stapleton and Chuck Mottley, a technician videotaping the event, Villa's lab technician, and observers from Houlihan-Lokey.

Samples analyzed were gravity concentrates produced by Hazen Research from hematite-rich Bag 2 material from the El Capitan project. No QAQC samples were included in the sample suite, as this was intended to simply be a demonstration.

Using his extraction method, Villa produced two beads, which were sent to Inspectorate Labs in Sparks, Nevada for analysis. When calculated back to head grade of the starting sample, these results are not economic grades for Au: 0.0027 opt Au Sample 12 head grade; and 0.0013 opt Au Sample 34 head grade. As a result of these poor results, El Capitan decided to terminate Stage 8 testing.

11.5.5 Analytical Testing Stage 9—MSRDI Cyanide Bottle Rolls

Stage 9 testing consisted of cyanide bottle roll tests at Mountain States Research and Development during May and June 2013 (MSRDI, 2013). Testing was done on a suite of six samples that included three samples from the project collected by the author from El Capitan's drill-sample archive in Denver, Colorado, and three QAQC samples. The focus of the testing was to duplicate cyanide bottle-roll tests previously done at CSAL. Two samples are reported by MSRDI to contain Au and Ag, but both were QAQC standards. Results showed no extraction of precious metals from the El Capitan samples.

11.5.6 Analytical Testing Stage 10—CSAL Pressure Digestion

Stage 10 consisted of pressure-digestion-vessel testing done at CSAL in June 2013 (Smith, et al, 2012). This testing was done on a suite of 20 samples from El Capitan Precious Metals, including drill cuttings from the El Capitan project, surface material from the project, and quality-control samples. All samples were under chain of custody, assembled by the author from samples in storage at El Capitan's sample archive in Denver, Colorado, and from previously processed material in storage at Hazen Research in Denver. Blanks, standards, and duplicates were included in the sample suite as quality-control measures.

CSAL performed pressure digestion tests using Parr bomb pressure vessels under a proprietary method. The complete procedure is unknown to the author, but in general involves digesting a small sample under high pressure at elevated temperature.

The results initially appeared favorable. Although not high grade, results for Au indicated potentially ore-grade material in six of the 11 samples that originated from the El Capitan project. Although very high in some samples, Pt values were unreliable due to quality control problems. QAQC results for this testing were acceptable. However, subsequent testing during Stages 11 and 12 (see below) showed serious quality-control issues at CSAL, compromising the Stage 10 results. The author does not recommend further work with CSAL.

11.5.7 Analytical Testing Stage 11—CSAL Cyanide Bottle Rolls

Stage 11 testing consisted of cyanide bottle-roll testing done at Copper State Analytical Labs (Smith and Smith, 2013). During July and August 2013, CSAL tested 20 samples from El Capitan Precious Metals. These samples included drill cuttings from the El Capitan project, surface material from the project, and quality-control samples, all under chain of custody and assembled by the author from samples in storage at El Capitan's sample archive in Denver, Colorado, and from previously processed material in storage at Hazen Research in Denver. Blanks, standards, and duplicates were included in the sample suite as quality-control measures.

CSAL performed cyanide bottle-roll tests in two batches according to the protocol set out by Ken Pavlich in 2009 (Appendix 1), with the two variations: 1) sample size was 100 g instead of 1 kg due to consumption of sample by Mountain States Lab; and 2) tests were stopped at 14 days because previous testing indicated no increase in gold during days 15-21. The cyanide bottle-roll tests ran for 14 days, with readings of Au, Ag, Pt, and Pd at 3, 7, and 14 days. Carbon was added as an aid to gold recovery; at the end of the test, the carbon was filtered and fire assayed. The final value for precious metals is the sum of the direct ICP reading of the solutions and the fire assay of the carbon.

Results of the testing were mixed, but showed the presence of potentially ore-grade Au in Batch 1. This group of samples returned values of Au ranging up to 0.093 opt Au, in sample 169720 from drill hole EC-05-05, 15-41 feet. The other samples in this batch showed similar levels of Au. Although not high in grade, five of the six samples

were over 0.01 opt Au, a typical cutoff grade for large open-pit gold mines in the U.S. QAQC samples were acceptable for Batch 1.

However, QAQC sample results for Batch 2 were far out of control limits, invalidating these results, compromising Stage 11 Batch 1 results, and indicating serious quality-control issues at CSAL. Blank sample results showed no contamination, but standards for Au were far out of control limits and duplicate results were wildly different. As a result, the author recommended no further work at CSAL. Instead, it was recommended that cyanide bottle-roll tests be conducted at a separate, reputable metallurgical laboratory (see Stage 13 testing, below).

11.5.8 Analytical Testing Stage 12—Weaver Creek Gravity Concentration

Stage 12 testing consisted of processing two samples from the project at a gravity processing plant near Phoenix, Arizona, as requested by El Capitan Precious Metals (Smith and Smith, 2014a).

During July 30-31, 2013, David Smith observed the processing of two samples of material from the El Capitan project at a processing plant near Weaver Creek, Arizona, about 80 miles northwest of Phoenix. The plant is owned by Larry Lozensky, a shareholder of El Capitan Precious Metals, and is used to produce placer gold from alluvial gravels onsite. David Smith observed the plant operating and reported results from chain-of-custody samples from the project.

Two samples were analyzed. These were taken from the bulk samples collected by David Smith from the El Capitan project in May 2012 for Stage 8, and processed at Hazen Research in Denver, Colorado. Both samples were head grade and were not previously concentrated at Hazen Research. On July 30, 600 pounds of the hematite-rich material was processed through the Weaver Creek plant. The following day, 1,440 lbs of magnetite-rich material was processed. Processing generated six samples (two concentrate, two magnetic fraction, and two tails), to which three quality-control samples were added to make a total of nine samples sent to Copper State Analytical Labs (CSAL) and to Sundancer Research (SRI). Samples were maintained under chain of custody until delivered to the labs.

Results of the testing indicated that the processing plant was not effective at upgrading precious metals values of the head-grade material tested. Testing at CSAL consisted of cyanide bottle-rolls and pressure digestion tests. (Results from Stages 10 and 11 were pending during this time and the resulting QAQC problems at CSAL were not yet apparent.) Results for the cyanide bottle roll tests were all below detection limit for Au. Results for Pt were more positive, returning up to 0.029 opt Pt (calculated head grade), in the tails from the hematite sample. However, these results should be treated with caution since the QAQC result for Pt for the standard was substantially lower than the accepted value, because Pt is generally known for its low amenability to cyanide leach, and because of CSAL's history of poor quality control. Pressure-digestion results from CSAL were far out of control limits on blanks and standards and are not reliable.

Testing at SRI consisted of fire assay and a custom Ag-Pb collection assay. Results from SRI's fire assay showed contamination in the blank for Au, Ag, and Pt, and for the standard returned results far out of control limits for Au, Pt, and Pd. Results from SRI's Ag-Pb collection method were similar, showing high-grade Au and Ag in the blanks, and returning results far out of control limits for Au in the standard. The results for Au and Ag in the blanks, particularly in the Ag-Pb collection tests, indicate massive lab contamination for both elements. These values are up to 0.281 opt Au and 9.22 opt Ag in materials certified from a reputable supplier (CDN Resource Labs of Vancouver, B.C.) to be barren of gold and silver. Based on these and past results and on the fact that SRI is not an independent lab, it is the author's opinion that all SRI test results should be treated with great care: results should not be released to the public nor form the basis for corporate decisions without independent verification.

11.5.9 Analytical Testing Stage 13—McLelland Labs Cyanide Bottle Rolls

Stage 13 testing consisted of cyanide bottle-roll tests conducted at McLelland Labs of Reno, Nevada, during October 2013 (Smith and Smith, 2014b). The intent of this testing was to replicate the apparently positive cyanide bottle-roll results achieved by CSAL in Stage 11 but compromised by poor quality-control results at CSAL.

The Stage 13 samples included drill cuttings from the El Capitan project, surface material from the project, and quality-control samples. All samples were under chain of custody. Independent contractor Mr. Court Brewster assembled the sample suite from samples in storage at El Capitan's sample archive in Denver, Colorado, and from previously processed material in storage at Hazen Research in Denver. This sample suite was essentially the same as that used in Stage 11 (CSAL cyanide bottle rolls) with minor modifications as necessary to accommodate sample

shortages in some drill intervals. Blanks, standards, and duplicates were included in the sample suite as quality-control measures.

McLelland Labs performed cyanide bottle-roll tests according to the protocol set out by Ken Pavlich in 2009 (Appendix 1), with two variations: 1) tests were stopped at 14 days because previous testing at Copper State Analytical Labs (CSAL) indicated no increase in gold during days 15-21; and 2) test were run at ambient room temperature due to the absence of heating equipment. A sample size of 1 kg was used. The cyanide bottle-roll tests ran for 14 days, with readings of Au, Ag, Pt, and Pd at 6 hours and at days 1, 2, 3, 7, 10, and 14. Based on advice from McLelland, carbon was not added as an aid to gold recovery. All QAQC results were acceptable, indicating excellent quality control at McLelland Labs.

The results showed no presence of Au, Ag, Pt, or Pd in the samples analyzed. It appears that the initially positive results from CSAL were spurious. As a cautionary measure, the author has recommended that the company have the two labs compare methods to try to identify and potentially repeat at McLelland any variation that may have aided CSAL's results.

11.5.10 Analytical Testing at SRI

As discussed below, El Capitan Precious Metals has reported numerous results based on the work of Orlando Villa at Sundancer Resources (SRI). The author has observed and reported on some of SRI's work in Stages 1-4, 8, and 12 (Palmer et al, 2012b; Palmer and Smith, 2012; Smith and Smith, 2014a) but otherwise has not been involved in this work. Based on poor SRI results reported by the author, serious quality-control issues with the lab's results, and on the fact that SRI is not an independent lab, it is the author's opinion that all SRI test results should be treated with great care: results should not be released to the public nor form the basis for corporate decisions without independent verification.

12 Data Verification

12.1 Independent Evaluation and Verification of Auric Caustic Fusion Assay Results

Because Auric's caustic fusion method is not a standard method used in the mining industry, El Capitan Precious Metals retained the services of a qualified person (QP), Mr. Richard Daniele, Metallurgical Engineer, of Daniele Metal-Mineral Services, Lakewood, Colorado, to undertake an independent third-party verification of the Auric results. Daniele was provided with geologic drill logs for the 12 Stage 1 drill holes; from these holes he selected 15 core intervals that he considered representative of the deposit. Following his introduction to the caustic fusion method in the Auric laboratory, one-quarter of the sawed core from the 15 core intervals was sent by the onsite consulting geologist to Daniele under chain of custody directly from the secure storage location. Daniele selected an independent laboratory run by Mr. Michael J. Wendell, Wendell and Company, Centennial, Colorado, at which the independent verification assays were performed. The 15 core interval samples were crushed, ground to approximately 80% minus 200 mesh, and split into two 100-gram samples. Fifteen duplicate 100-gram samples in random-numbered bags (DD-1 through DD-15) with no reference to core intervals were provided to Auric and Wendell in order to achieve blind analyses from both laboratories.

In his review of this work, Noel Palmer raised several questions about this work, such as the difference in magnetic separation procedures between Auric and Wendell, analytical issues with lanthanum, and the lack of reported quality-control sample results. These issues should be addressed in any repetition of the Auric caustic fusion assay method.

Nevertheless, it appears that the Daniele and Wendell results, although somewhat lower than the Auric results, provide an independent verification of the Auric results. Daniele concluded in his September 1, 2005 report (Danielle, 2005; Appendix 11) that the caustic fusion assay results performed at Wendell and Company demonstrated that the Auric procedure is a valid analytical procedure for difficult-to-analyze materials. Although the Wendell results averaged lower than the Auric results (30% lower for Au, 35% lower for Pt), Daniele concluded that Wendell's lack of familiarity with the use of lanthanum in solutions for atomic absorption spectrophotometer analyses, as employed by Auric in their caustic fusion procedure, resulted in the lower values. It is Daniele's opinion that greater familiarity with the lanthanum procedure would show improved results and a closer fit with the Auric results.

It is the author's opinion, subject to the uncertainties raised by Noel Palmer (Palmer and Smith, 2009), that the Auric caustic fusion assays on drill samples may be considered adequate for the current state of the project.

12.2 Data Verification, 2007-2009

The author has not attempted to verify the data produced during Ken Pavlich's leadership of the company, from 2007 to 2009. It is his opinion that the data contained in Bright (2008) is sound and verifiable, but the author has not undertaken to verify that data.

12.3 Data Verification, 2009-2011

The author has not attempted to verify the data produced from 2009-2011, with the exception of results from American Assay and Hazen research done on the 12 surface samples collected by David Smith in June 2009, as described above. Other results deserve attention, verification (if possible), and replication, as noted above and in Recommendations, below.

12.4 Data Verification, 2011-Present

Except for some sets of analyses done under broken chain of custody as noted above (Analytical Testing, 2011-Present) all work done under the author's supervision has been verified by the author, David Smith, or Noel Palmer by virtue of intact sample chain of custody combined with either physical presence at the site of analysis or analysis by trusted commercial laboratories. It is the author's opinion that the data generated under his direction is adequate for this technical report.

13 Mineral Processing and Metallurgical Testing

13.1 Auric Metallurgical Labs Hydrometallurgical Extractions, 2005

Auric Metallurgical Labs submitted a report to El Capitan dated May 15, 2005 which summarized the results of five hydrometallurgical extraction protocols on six surface samples collected from outcrop in the shallow open pit of the main El Capitan deposit. Auric concluded that the samples were particularly amenable to sodium cyanide, sodium cyanide followed by chlorination, and sodium thiosulfate leaches. The Au recoveries ranged from 66.7-92.5% of the calculated caustic fusion head grades and averaged 79.6%. The Pt recoveries ranged from 58.7-78.0% and averaged 67.4%. Table 2 is a summary of the test results on these three protocols, and Appendix 8 is the Auric report.

Table 2. Auric Metallurgical Labs hydrometallurgical extraction results, ounces per ton									
	Au (opt)					Pt (opt)			
Sample	Calc. Head	Na Cyanide	Na Cyan + Cl	Na Thiosulfate	Avg. % Recov.	Calc. Head	Na Cyanide	Na Thiosulfate	Avg. % Recov.
EC-1	0.017	0.011	0.014	0.012	72.6	0.023	0.019	0.011	65.2
EC-10	0.086	0.079	0.08	0.081	98.3	0.05	0.046	0.032	78
EC-11	0.089	0.081	0.084	0.082	92.5	0.023	0.016	0.011	58.7
EC-16	0.015	0.009	0.011	0.01	66.7	0.044	0.03	0.03	68.2
EC-22	0.018	0.011	0.014	0.011	66.7	0.015	0.009	0.01	63.4
EC-24	0.029	0.023	0.025	0.022	80.5	0.019	0.016	0.011	71.1

13.2 SRI Smelting and Extraction Tests, 2011

El Capitan Precious Metals has reported on two occasions (press releases of April 6, 2011 and July 14, 2011) the successful direct smelting of concentrates from the El Capitan project. Documents provided by the company state that the April 2011 results were generated from 200 pounds of 10:1 concentrate (apparently a sample from several tons of gravity concentrates produced by the company at the project in years past) and the July 2011 results from 20 pounds of the same concentrates. The April 2011 press release reported recovery of 1.2 opt Au equivalent calculated back to head grade, and the July 2011 press release reported "significant values that are consistent with those reported earlier this year." The author was not involved in this work and cannot comment on its results. These results deserve scrutiny and replication; El Capitan Precious Metals initially requested that the author undertake an independent verification of SRI's smelting methods, to be conducted as Stage 8 testing, but subsequently terminated this work after initial poor results (Palmer and Smith, 2012).

Since then, the company has reported additional results based on SRI's work (press releases of November 7, 2013; December 20, 2013; January 5, 2014). These press releases include mention of a viable precious-metals extraction method but the author is unaware of independent third-party verification of the method. Apart from results reported for Stages 8 and 12 testing (above), the author has not been involved in this work and cannot comment on its results.

Based on results from SRI during Stages 1-4, 8, and 12 (Palmer et al, 2012b; Palmer and Smith, 2012; Smith and Smith, 2014a), on serious quality-control issues with the lab's results, and on the fact that SRI is not an independent lab, it is the author's opinion that all SRI test results should be treated with great care: results should not be released to the public nor form the basis for corporate decisions without independent verification.

13.3 Auric Metallurgical Labs Hydrometallurgical Extractions, 2019

The author collected two bulk samples (EC-10, EC-11) from bedrock on the El Capitan deposit and delivered them under chain of custody to Auric Metallurgical Labs in May 2019. Auric performed bench-scale (2,500-gram) sodium cyanide and sodium thiosulfate vat leach extractions on head ore and non-magnetic (hematite-dominant) concentrate samples for 72 and 96 hours. Test conditions used 4,000 ml DI water yielding 38.0-38.5% solids slurry; 16-20 g NaOH to establish pH 12.5-13.5; 5.0 g NaCN (0.125%) and 99.2 g Na2S2O3.5H2O (0.1M); and temperature 20°C. The tests produced Au prills using activated carbon adsorption and Au recoveries ranged from 73.3% to 91.6% (Table 3). These extractions confirmed results reported by Auric on six samples collected from outcrop in 2005. The 2005 and 2019 hydrometallurgical leach extraction results from Auric represent the most positive analytical or extraction results obtained on El Capitan potential ores and support arguments for potential economic commercial production of Au, and potentially other precious metals.

Table 3				
Bench-scale leach tests; 2,500 gram samples				
Sample	Assay (opt Au)	Leach	Time (hours)	Recovery
EC-10 Head	0.083	NaCN*	72	88.30%
EC-11 Head	0.076	"	72	84.40%
EC-10 Non-mag	0.189	"	72	91.60%
EC-11 Non-mag	0.266	"	72	89.90%
EC-10-Non-mag	0.189	Na2S2O3.5H2O**	96	82.90%
EC-11 Non-mag	0.266	"	96	73.30%
*Sodium cyanide				
**Sodium thiosulfate				

13.4 AuraSource Inc.

The author met with Mr. Philip Liu, Chairman and CEO of AuraSource Inc., at his office in Phoenix, Arizona on March 3, 2021. Mr. Liu described the AuraSource proprietary technology and equipment that is housed in China and that has reportedly been used to extract Au and Pt from an El Capitan sample, as well as samples from the Iron Duke magnetite skarn deposit in New Mexico. (The author examined Iron Duke on March 5, 2022 and found that the geology of the deposit is extremely similar to El Capitan.) The AuraSource method involves shockwave ultrafine grinding, magnetic and gravity concentration, a vacuum continuous roasting pyrometallurgical process, and a pressure digestion with supercritical fluid extraction hydrometallurgocal process. Table 4 shows an analytical result on an El Capitan concentrate using ICP-AES detection of 476.2 g/t Au (13.8 opt Au) and 283.1 g/t Pt (8.2 opt Pt). These results are reported purely to indicate that the AuraSource technology should be subjected to independent third party verification. Until the AuraSource technology and equipment have been brought to an accessible location in North America with chain of custody samples processed at this site, witnessed by the author, and confirmed by an independent laboratory, the author is unable to render an opinion on the viability of the AuraSource technology.

Table 4								
Institute of New Materials Metallurgy*								
Physical and Chemical Testing Center, Northwest Institute of Mining and Metallurgy								
No. 19 Renmin Road, Baiyin City, Gansu Province, 730900, China								
Contact number: 0943-8227662/8261765								
Fax: 0943-8261765								
Contact persons: Pang Zenye, Zhang Chenjie								
Report Number: NW20210208001, February 8, 2021								
Approved by: Zhang Zhuzao								
Customer: Zhijin NewMaterial, Baiyin City Gansu, China								
Sample	Material	Detection	g/t Au	g/t Pt				
ZK001	El Capitan Concentrate	ICP-AES	476.2	283.1				
	Iron Duke Concentrate	ICP-AES	232	2142				

14 Mineral Resource Estimate

A resource calculation based on El Capitan drill hole assays was completed by Gemcom Software International in their Vancouver, B.C., Canada, offices using their GEMS version 6.0.3 software. The author and two other consultants supervised the Gemcom resource calculations. The data used were caustic fusion assay results from Auric Metallurgical Labs on diamond drill core, open hole rotary, and reverse circulation samples from 37 vertical drill holes spaced approximately 400 feet apart and totaling 12,763.5 feet of drilling (Table 1, Appendix 6). It should be noted that this resource calculation is focused entirely on precious metals and does not include iron ore. The magnetite dominant portions of the El Capitan deposit show excellent potential for production of a commercial iron ore concentrate and future work should include a feasibility study that evaluates the economics of potential iron ore production.

The parameters used in the Gemcom computer model were as follows:

- The block model used blocks 100 feet square by 20 feet high
- Interpolation was by inverse distance squared

- Composites were based on 20-foot benches
- A 500-foot spherical search radius was used with no rock-type or directional limiting
- Interpolation used a minimum of two composites and a maximum of 12, with a maximum of four composites from any give drill hole
- The extent of the model in mine coordinates in feet (Table 1) was: E 47,000 E 52,200; N 47,700 N 50,600; vertical elevations 6,100-6,960 feet.

It is believed most reasonable to use a 0.01 ounces per ton (opt) Au cut-off grade. At this cut-off the calculation results are: 141,444,000 short tons grading 0.020 opt Au, 0.205 opt Ag, 0.011 opt Pt, with a contained 2,769,106 ounces Au; 28,997,185 ounces Ag; and 1,517,868 ounces Pt (Table 5).

Using a 0.02 opt Au cut-off, the calculation results are: 47,121,100 short tons grading 0.029 opt Au, 0.267 opt Ag, 0.013 opt Pt with a contained 1,344,452 ounces Au, 12,572,655 ounces Ag, 594,485 ounces Pt (Tables 5).

It should be noted that drill results show that the deposit is apparently closed on the north, east, and south sides but that significant values in drill hole EC-06-37 (Figure 7) indicate that the deposit is still open to the west. Additional drilling is recommended to close the deposit on the west side.

It is the author's opinion that the above calculation results allow the El Capitan deposit to be classified as a "measured resource" based on the Canadian National Instrument 43-101 definition: "...can be estimated with a level of confidence sufficient to allow the appropriate application of technical and economic parameters to support mine planning and evaluation of the economic viability of the deposit...drill holes are spaced closely enough for geological and grade continuity to be reasonably assumed."

It should be emphasized that this resource calculation relies entirely on Auric Metallurgical Labs analyses using a non-standard testing method, and on the report by Mr. Richard Danielle (Danielle, 2005) representing the independent verification of the Auric caustic-fusion assay method.

Table 5								
El Capitan tonnage, Au, Pt grades, contained ounces, ounces/ton, at Au cut-off grades								
Au cut-off (opt)	Tonnage	Au ounces	Pt ounces	Au (opt)	Pt (opt)			
0.03	13,326,000	548,032	184,271	0.041	0.014			
0.02	47,127,000	1,344,452	594,485	0.029	0.013			
0.01	141,445,000	2,769,106	1,517,868	0.02	0.011			

13 Adjacent Properties

The El Capitan project has no adjacent properties as defined by NI 43-101.

14 Other Relevant Data and Information

The company has generated significant data and information that has not been reviewed by the author. A thorough review of all past testing should be done to choose potentially promising assay and extraction methods for replication and verification, in addition to those listed in this report.

15 Interpretation and Conclusions

El Capitan Precious Metals Inc. has carried out a thorough exploration program, including 37 holes of exploration drilling totaling 12,763.5 feet, on the El Capitan project. Drill samples have been logged in detail and maintained under strict chain of custody, and caustic fusion assay results have been satisfactorily verified at an independent

third-party laboratory under the supervision of a Qualified Person. Other than the independently verified caustic fusion analytical results from Auric Metallurgical Labs, no other method has proved consistently reliable or verifiable. Standard fire assays have generally produced low values.

El Capitan is a Au-Pt-bearing magnetite skarn deposit and, as such, holds potential for production of both a magnetite iron ore concentrate and extracted Au, Pt, and possibly other precious metals. Magnetite is a strongly magnetic mineral that should produce a >62% total iron concentate by simple magnetic separation; with Si, Al, P, S impurities within the range of commercial iron ores, El Capitan shows potential for production of a commercial iron ore concentrate.

The presence of Au at El Capitan has been unequivocally proven by scanning electron microscope results, which have generated photographs and spectra identifying Au in chain of custody gravity concentrates from drill samples on the project.

Hydrometallurgical extractions by Auric Metallurgical in 2005 and 2019 using sodium cyanide and sodium thiosulfate leaches on Au head ore grades of 0.017-0.089 opt Au and non-magnetic concentrates of 0.189-0.266 opt Au have produced impressive recoveries in the range 72.6-98.3%. Extractions on Pt head grades of 0.015-0.44 opt Pt have also resulted in good recoveries in the range 63.4-78%. To date, hydrometallurgy appears to hold the best promise for potential commercial production of precious metals. In addition, although requiring verification, the AuraSouce Inc. pyrometallurgical and hydrometallurgical procedures may hold promise.

A resource calculation has been completed by a recognized mining software company. The El Capitan deposit qualifies as a "measured resource" under the NI 43-101 definition. At a 0.01 ounces per ton (opt) Au cut-off grade, the calculated results are: 141,444,000 short tons grading 0.020 opt Au, 0.011 opt Pt, with a contained 2,769,106 ounces Au and 1,517,868 ounces Pt (Table 5). At current prices of nearly US\$2,000 per ounce Au and nearly \$1,000 per ounce Pt, El Capitan Precious Metals should move aggressively to advance the project.

It should be emphasized that the above Au-Pt resource does not include iron ore. Future work on the project should include a feasibility study that evaluates potential for production of a commercial iron ore concentrate in addition to production of Au, Pt, and possibly other precious metals.

15.1 Exploration Potential

The El Capitan deposit represents a fortuitous exposure of mineralization that lies beneath a cap of barren limestone. Had the deposit not been exposed by erosion it may not have been discovered. Figure 10 is a general gologic map of the area surrounding the El Capitan deposit. The map shows a 12 mi.², north-south band of Permian limestone and quartz sandstone lying between a Miocene aplite intrusion to the east and rhyolitic volcanics to the west; the volcanics lie as cover rocks over the Permian limestone and quartz sandstone. The El Capitan deposit is a magnetite skarn that represents mineralization and replacement of Permian limestone host rocks by hydrothermal fluids probably derived from the aplite intrusion. This being the case, the entire 12 mi² area of Permian limestone and quartz sandstone must be considered prospective for additional El Capitan-type deposits.

An airborne hyperspectral survey over a 35-square mile area surrounding the El Capitan property by Earth Search Sciences, Inc. in February 2006 identified 24 anomalies of high iron content with hematite/goethite spectral signatures; hematite and goethite are oxidized equivalents of magnetite. A total of 38 samples were collected by the author from outcropping mineralization or alteration at the 24 anomaly locations and submitted for caustic fusion assay to Auric Metallurgical Labs. Of 38 samples collected, Auric reported potential ore-grade results on 16 samples that ranged 0.020-2.02 opt Au and 36 that ranged 0.033-0.074 opt Pt.

Two areas have been designated by the author as Priority #1 Exploration Areas:

• A 3.4 mi.² area stretching to the east and west from the El Capitan deposit (Fig. 10), that includes sample locations AN 6 and AN 8. At AN 6, one mile southeast of El Capitan, abundant magnetite/hematite float covers a wide area; three samples here assayed 0.022-2.071 opt Au. At AN 8, one mile to the southwest of El Capitan, in an area of abundant float, a 10-foot-wide hematite-calcite zone is exposed in a trench; one sample here assayed 0.165 opt Au. One hundred unpatented claims covering this area were staked and recorded by El Capitan Precious Metals Inc. on March 9-11, 2022.

• A 2.2 mi.² area surrounding the Weddige Prospect, 2.8 mi to the north of El Capitan (Fig. 10), that includes an outcrop of El Capitan-type magnetite skarn and abundant float with four samples that assayed 0.021-0.025 opt Au.

In adddition, 16 hyperspectral anomalies located over a north-south, 2-mile-lomg belt along the base of the overlying volcanics are commonly characterized by hematite-bearing fractures cutting the volcanics. This mineralization could reflect underlying magnetite skarn mineralization.

A pre-2005 ground magnetic survey over the El Capitan deposit area showed magnetic anomalies over the deposit as well as others to the east and west. This survey is considered preliminary but it demonstrated the effectiveness of magnetic surveying in the area. The author recommends that El Capitan Precious Metals conduct a detailed magnetic survey over the entire 12 mi.² area of Permian limestone and quartz sandstone.

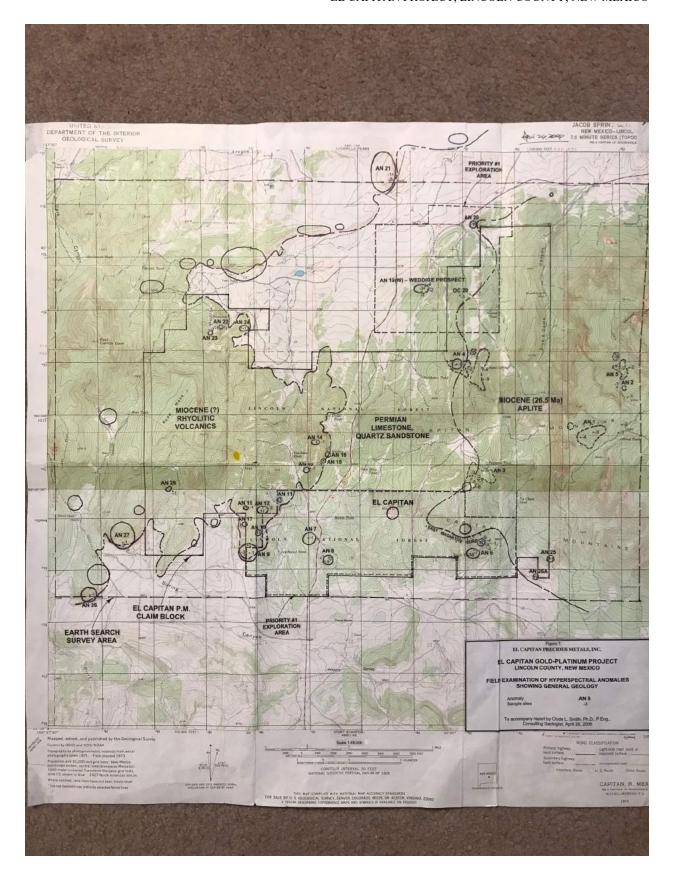


Figure 10. General geologic map of of 35-square-mile area surrounding the El Capitan deposit showing hyperspectral anomalies of high iron (hematite-goethite) content (black circles) and location of samples collected for Au and Pt caustic fusion assays (AN 1-29).

15.2 Project Risks and Uncertainties

The El Capitan project comes with the following three risks and uncertainties:

15.2.1 Assay Risk

To date, the only assay method on El Capitan mineralized samples that appears to be effective is the caustic fusion assay used by Auric Metallurgical Labs. As described above, independent verification of the method as a valid analytical procedure for difficult-to-analyze materials was achieved by Richard Daniele in the independent laboratory of Mike Wendell. The presence of Au in El Capitan samples has been confirmed by electron microscope. In addition, hydrometallurgical extractions have produced Au and Pt metal-in-hand. These results support the fact that Au occurs in El Capitan samples. However, in order to meet assay standards commonly required by the mining industry, the company should continue to seek a laboratory that can consistently produce verification assays on duplicate samples assayed by Auric.

15.2.2 Metallurgical Risk

Hydrometallurgical extractions by Auric Metallurgical in 2005 and 2019 using sodium cyanide and sodium thiosulfate leaches on Au head ore grades of 0.017-0.089 opt Au and non-magnetic concentrates of 0.189-0.266 opt Au have produced impressive recoveries in the range 72.6-98.3%. Extractions on Pt head grades of 0.015-0.44 opt Pt have also resulted in good recoveries in the range 63.4-78%. Although, to date, the Auric hydrometallurgical extractions appear to hold the best promise for potential commercial production of precious metals, independent verification of the Auric results has not yet been achieved and the company should continue to seek a laboratory that can consistently produce verification extractions on duplicate samples treated by Auric. It is possible that the AuraSouce Inc. pyrometalurgical and hydrometallurgical procedures may provide this verification.

15.2.3 Permitting Risk

All mining projects come with some level of permitting risk. At the El Capitan project, three factors amplify somewhat the usual permitting risk: the project's location on U.S. Forest Service land, the recent Lincoln County Mining Ordinance, and the local opposition group Friends of the Capitans.

The project is located on Forest Service land. Permits for exploration and mining are routinely issued on Forest Service land, but the agency is known to have a more stringent permit application and review process than the Bureau of Land Management. This is augmented by past relations with the Forest Service, which included certain operations without permits and an exploration permit denial in 2008. These factors will increase the time and expense for permitting both exploration and mining activities.

In 2009, Lincoln County passed a new Mining Ordinance, intended to provide a "regulatory framework" for permitting mining operations in the county. The expressed intent of the ordinance is to "protect the health, safety, and welfare of its citizens." It requires a proposed mining operation to comply with all State and Federal permitting requirements, and adds to these a Mining Operations Permit issued by the county. Although this does not appear to be a significant risk to permitting the project, it may increase the time and expense for permitting any mining operation on the project.

In recent years a local opposition group has been formed in the area, named Friends of the Capitans, concerned about mining in Lincoln County and specifically targeting El Capitan. In 2008, the company responded to what it felt were incorrect or misleading statements made by the group (El Capitan, 2008). The Friends of the Capitans activity combined with the Lincoln County Mining Ordinance indicates that the company should pay extra attention to community relations efforts.

Local opposition is likely the biggest permitting risk. This can most effectively be mitigated by contracting with highly credible and professional permitting consultants who can guide the company through the permitting and community relations processes.

16 Recommendations

The general geologic map of the area surrounding the El Capitan deposit (Fig. 10) shows a 12 mi.² band of Permian limestone and quartz sandstone. These rocks are the host rocks for the El Capitan deposit and should be considered prospective for additional El Capitan-type deposits. Magnetite is a highly magnetic mineral and responds to surveys conducted with magnetometers. It is recommended that the entire 12 mi.² band of potential host rocks be surveyed in detail by ground magnetometer conducted by a reputable geophysical survey company and interpreted by a geophysical consultant. The author has worked on previous projects with Magee Geophysics of Reno, Nevada and Thomas Weis, previously Chief Geophysicist of Newmont Mining, and recommends both for the El Capitan magnetic survey. The El Capitan property now consists of 116 claims that cover the deposit and the surrounding Priority #1 Exploration Area. If magnetic anomalies are located by the ground magnetic survey, these anomalies should be covered with additional staked claims. The anomalies should then be evaluated by geologic mapping and sampling with recommendations made for drilling.

During a meeting with Mr. Ahmet Altinay at Auric Metallurgical Labs in Salt Lake City in March 2022, the author requested that he provide recommendations and a budget for creating a magnetite concentrate (>62% total iron with acceptable Si, Al, P, S values) and performing hydrometallurgical extractions of Au and Pt on El Capitan bulk samples with the intent to scale up to a production facility. Although the Auric lab no longer exists, Mr. Altinay's recommendations should be undertaken at another lab with cabability similar to Auric's. It is notable that Mr. Altinay remains available as a consultant.

The following is a summary of Mr. Altinay's recommendations, with some of the author's additions, on how to proceed with test work on El Capitan bulk samples:

- First phase: <u>Analyses</u> on laboratory prepared magnetic and non-magnetic (hematite-dominant) concentrates. Analyses of Fe, Si, Al, P, and S, on magnetite-dominant magnetic concentrates and analyses of Au, Ag, Pt, Pd, other platinum group elements, on non-magnetic concentrates. Following potential commercial grade analytical results on a magnetite concentrate and/or a precious metals concentrate, proceed to second phase.
- Second phase: <u>Amenability tests</u> at 30- and 100-gram sample sizes using a variety of hydrometallurgical leaches. It is notable that in 2005 and 2019, Auric achieved high hydrometallurgical leach recoveries on Au and Pt in amenability tests on El Capitan samples.
- Third phase: <u>Bench-scale leach tests</u> at 1.0 kg and 2.5 kg sample sizes using most successful leach methods from amenability tests to optimize leach recoveries.
- <u>Pilot Plant</u> phase: A pilot plant should be constructed in a lab that is similar to what was available at Auric Metallurgical. This plant should be capable of leaching batches of 0.5-2.0-tons. At this stage, the economic parameters and costs of production could be determined.
- <u>Production site Plant</u> phase: With successful recoveries in the lab pilot plant, a complete production plant should be constructed on site at the El Capitan mine.

A budget totaling \$172,000 (Table 6) is recommended for a magnetic survey; geologic mapping, sampling, and assaying; first, second, and third phase metallurgical test work on bulk samples; and project management.

In addition, Mr. Philip Liu should be encouraged to bring the AuraSource extraction metallurgy technology and equipment now housed in China to the U.S. This is the only means by which independent third-party verification of the AuraSource procedures can be achieved. Should AuraSource produce a commercial grade magnetite concentrate and achieve extractions of Au and Pt then these results could be compared to those of Auric and a decision made as to which processes should be installed at the El Capitan mine.

In March 2022, the author examined the Iron Duke magnetite-precious metals skarn deposit located near Orogrande, New Mexico, 115 mi. by highway to the south of the El Capitan deposit. The geology of the Iron Duke deposit is almost identical to El Capitan. Following successful metallurgical extractions at an El Capitan pilot plant, consideration should be given to entering into negotiations on joint production at a production facility located midway between El Capitan and Iron Duke where ore delivered by truck or rail to the site would be treated in a common production facility.

16.1 Budget

	El Capitan Budget through third phase metallurgical		
Magnetic survey	Contractor: estimate 200 line km	US\$ 25,000.00	
	Consultant: estimate 4 days @ \$1,000/day	4,000.00	
Geology	Mapping, sampling: estimate 10 days @ 1,000.day	10,000.00	
	Assays: estimate 50 @ \$40/sample	2,000.00	
	Expenses, supplies	5,000.00	
Metallurgical	First phase	8,000.00	
	Second phase	8,000.00	
	Third phase	90,000.00	
Management	Minimum 5 days/mo. x 4 mo. @ \$5,000/mo.	20,000.00	
Total		US\$ 172,000.	

Budget estimates for the Pilot Plant, and production site Plana phases could be determined based on results through the third phase of metallurgical test work.

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Certificate of Qualified Person

I, Clyde L. Smith, Ph.D., do hereby certify that:

- I am a consulting exploration geologist located at 106-1680 56th Street, Delta, British Columbia, Canada, V4L 2L6.
- 2. This certificate applies to "NI 43-101 Technical Report on the El Capitan Project, Lincoln County, New Mexico," effective date July 24, 2023.
- 3. I am a Qualified Person as defined by and for the purposes of National Instrument 43-101 by virtue of my education, and experience. I have been certified as a Professional Engineer with the Association of Engineers and Geoscientists of British Columbia. I have a Ph.D. degree in geology, and I have over 50 years of experience in minerals exploration, with over 40 years focused on gold and precious metals exploration in the southwestern United States.
- 4. My most recent personal inspection of the El Capitan property was July 18, 2023.
- 5. I am responsible for the entire report "NI 43-101 Technical Report on the El Capitan Project, Lincoln County, New Mexico."
- 6. I am independent of El Capitan Precious Metals Inc., and do not hold any interest in the project or securities in any of the companies involved.
- 7. I have had no involvement with the El Capitan project prior to December 2004.
- 8. I have read National Instrument 43-101 and am responsible for the entire content of report "NI 43-101 Technical Report on the El Capitan Project, Lincoln County, New Mexico," which has been prepared in compliance with NI 43-101.
- 9. As of the effective date of the report, July 24, 2023, to the best of my knowledge, information, and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the technical report not misleading.

Dated July 24, 2023, Benzonia, Michigan, USA.

Clyde L. Smith, Ph.D., Consulting Geologist

Appendix 1

List of Unpatented Mineral Claims

El Capitan Precious Metals Inc. El Capitan Project Unpatented Lode Claims

Registered owner El Capitan Precious Metals Inc. 5871 Honeysuckle Rd. Prescott AZ 86305-3764

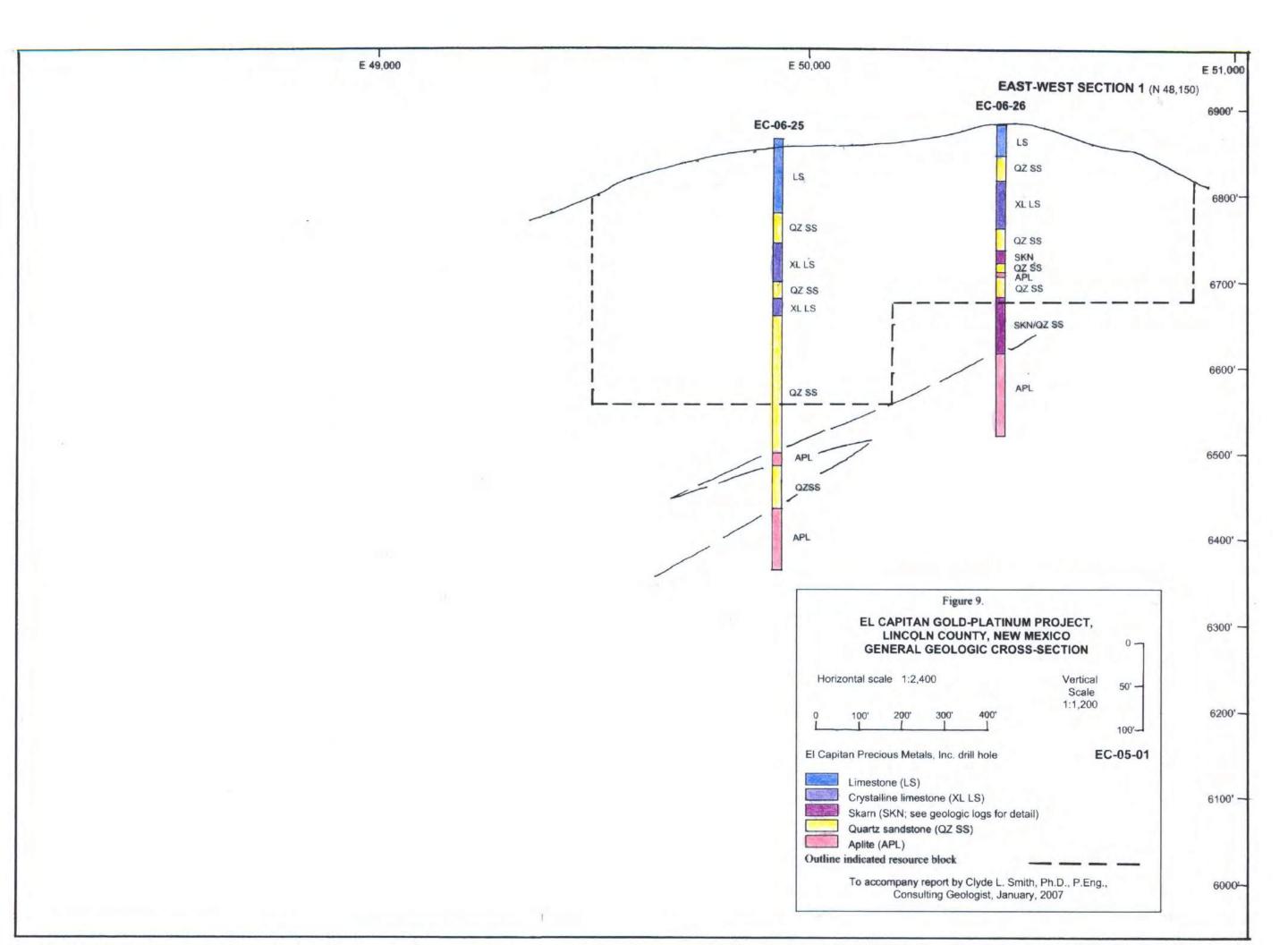
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SMOKEY #17	NMMC172149
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SMOKEY #22	NMMC172154
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SMOKEY #37	NMMC172277
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SMOKEY #40	NMMC172280
SMOKEY #41	NMMC172281
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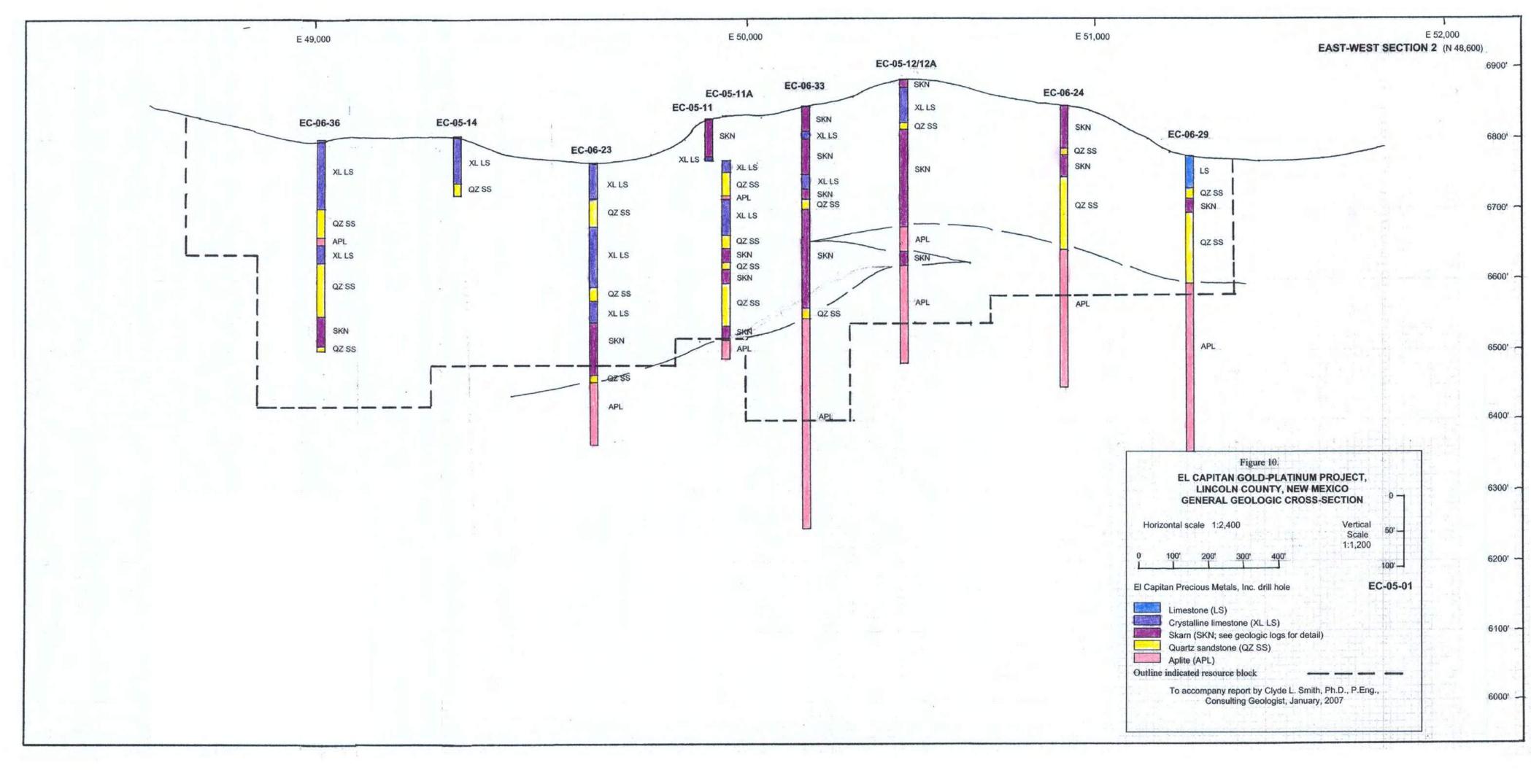
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SMOKEY #51	NMMC172419
SMOKEY #52	NMMC172419
SMOKEY #53	NMMC172421
SMOKEY #228	NM105749402
SMOKEY #229	NMMC172550
SMOKEY #230	NMMC172551
SMOKEY #231	NMMC172552
SMOKEY #232	NMMC172463
SMOKEY #233	NMMC172464
SMOKEY #234	NMMC172465
SMOKEY #235	NMMC172466
SMOKEY #236	NMMC172467
SMOKEY #237	NMMC172468
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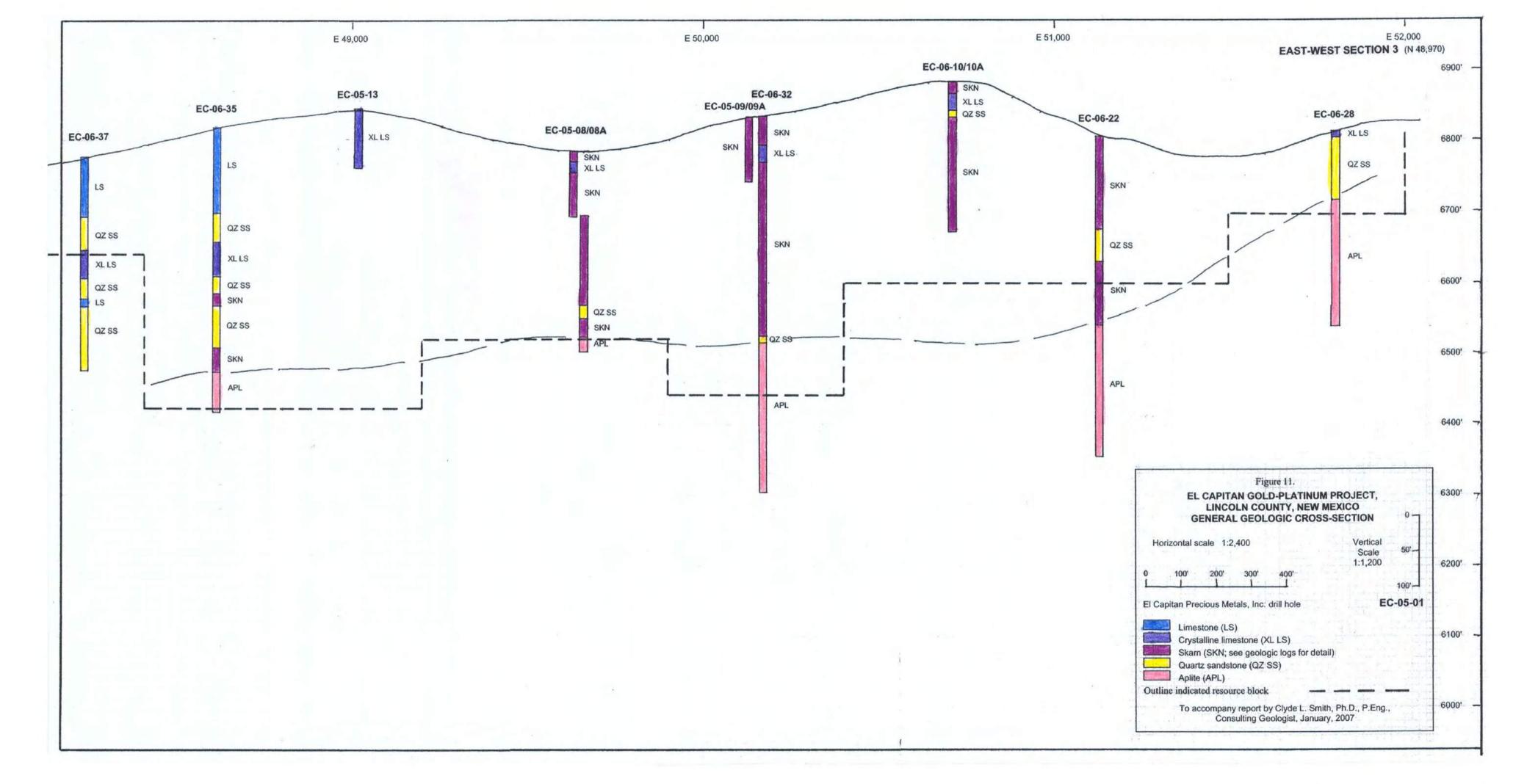
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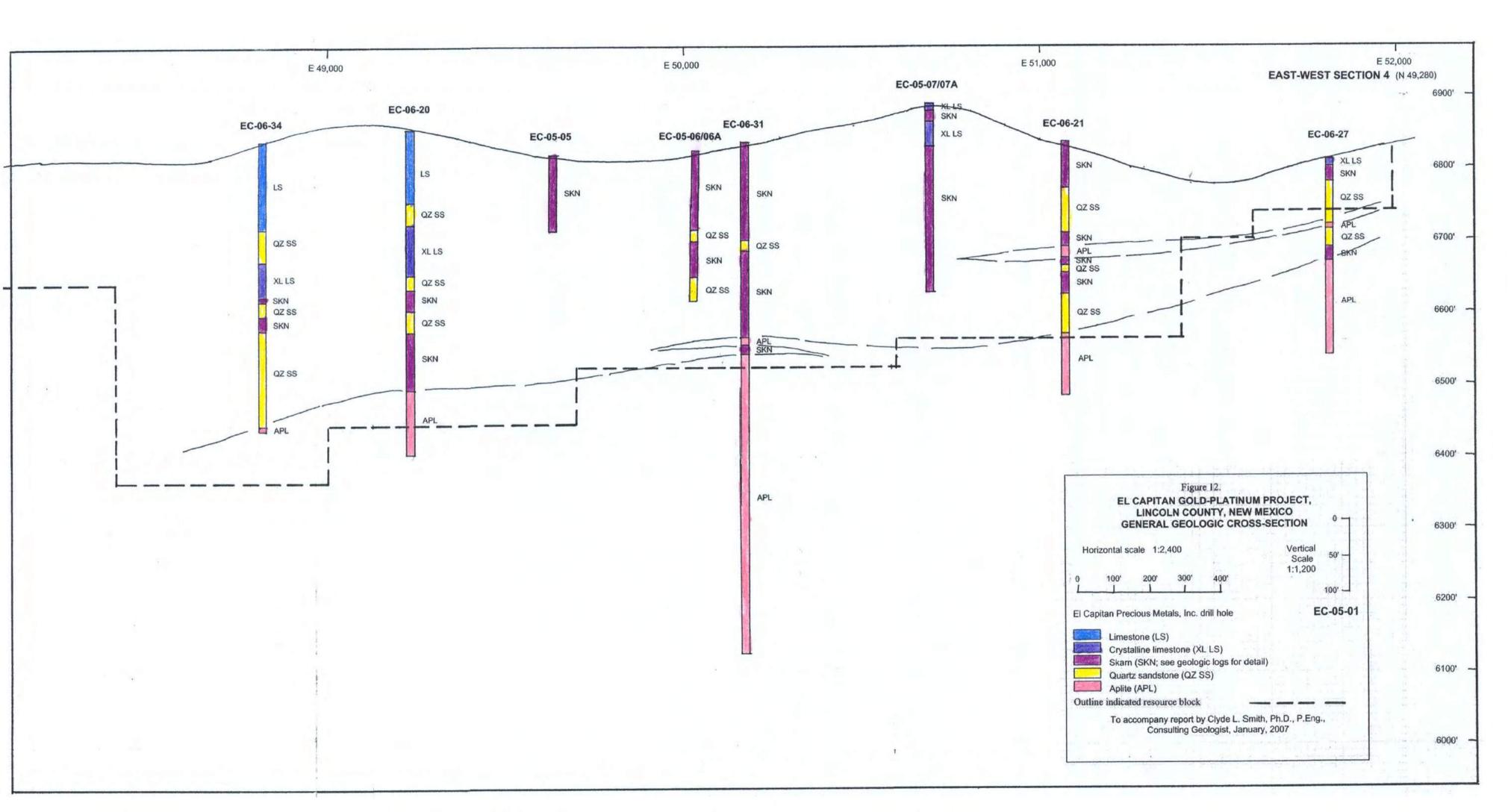
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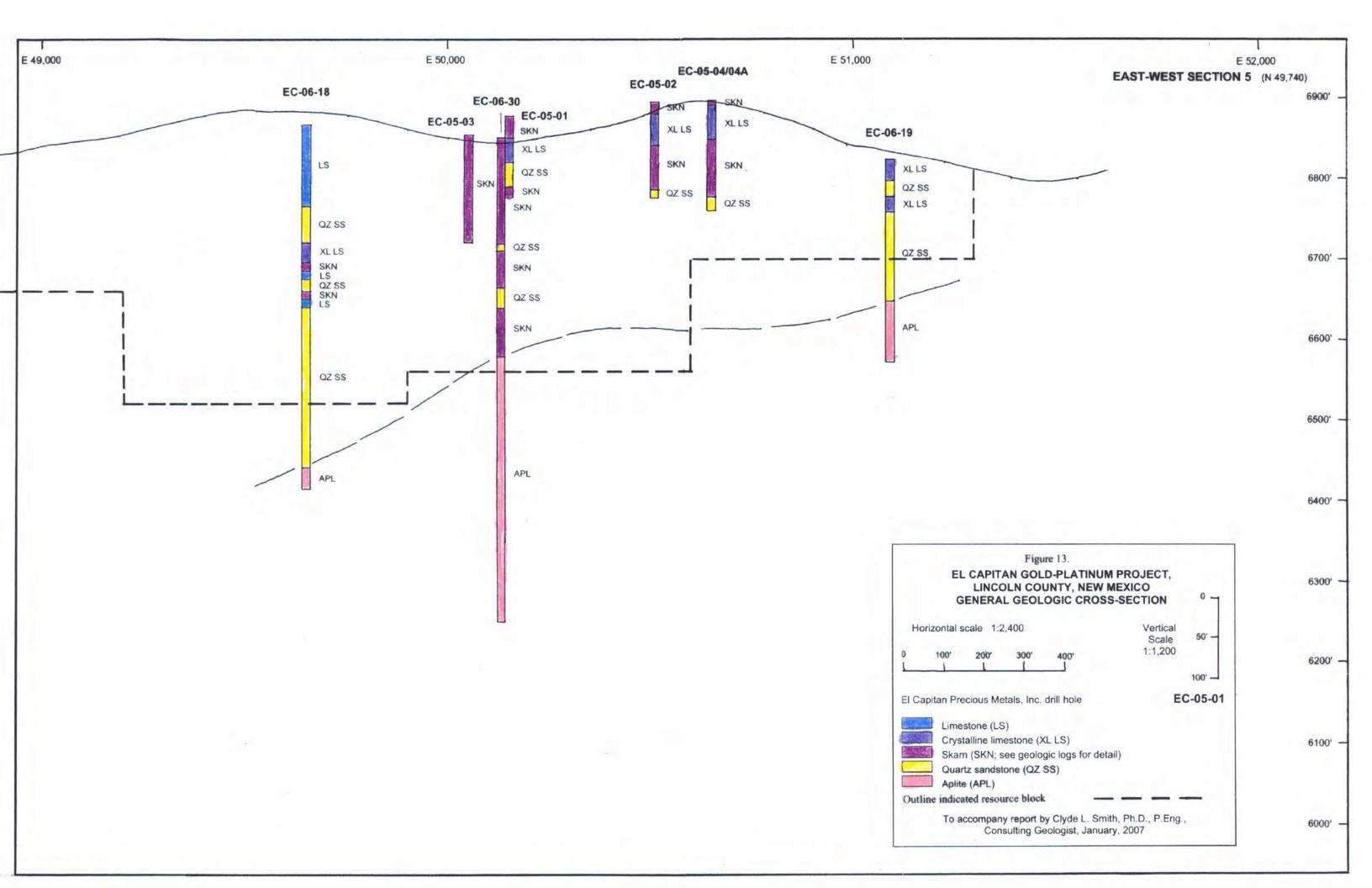
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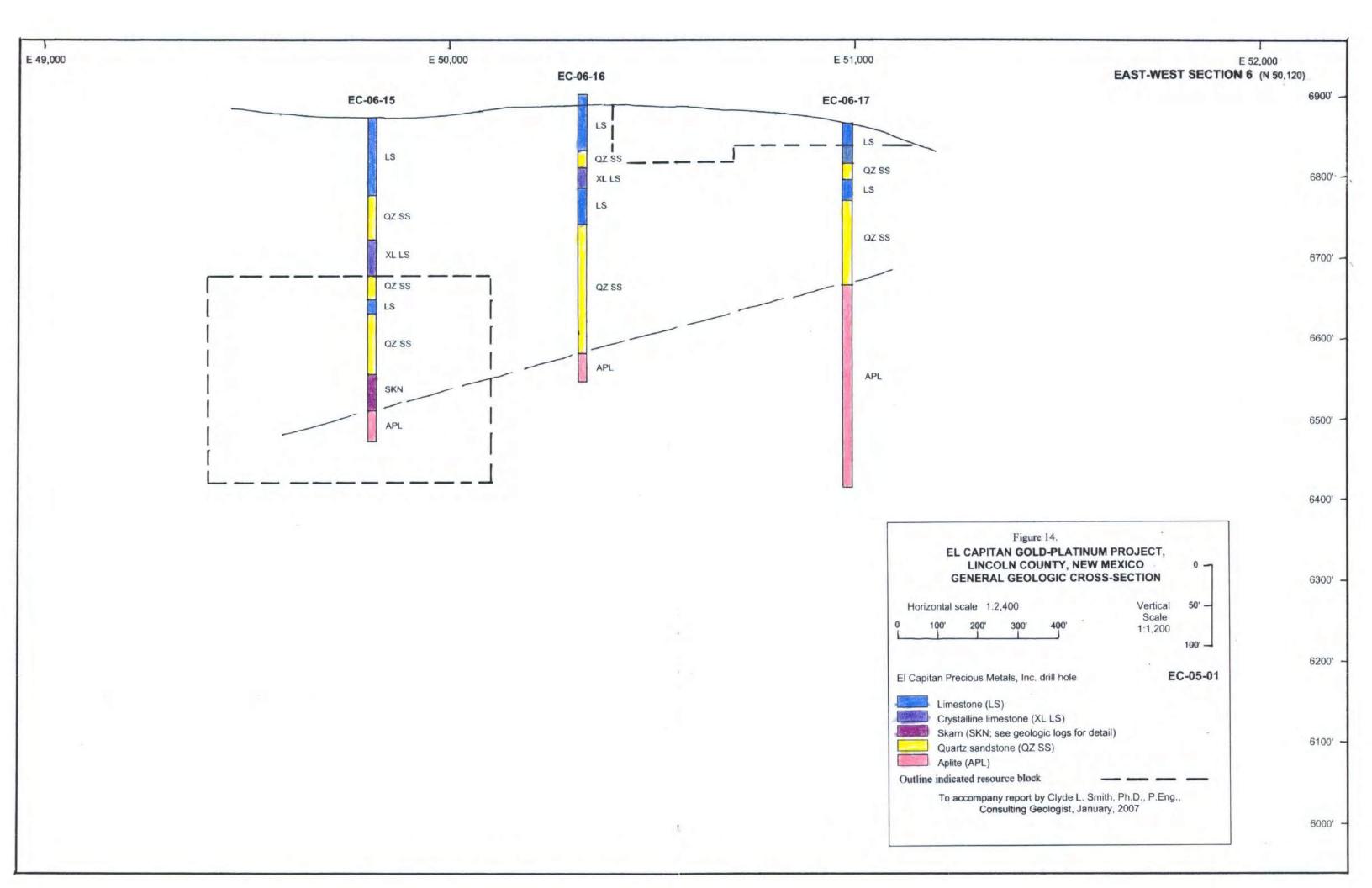


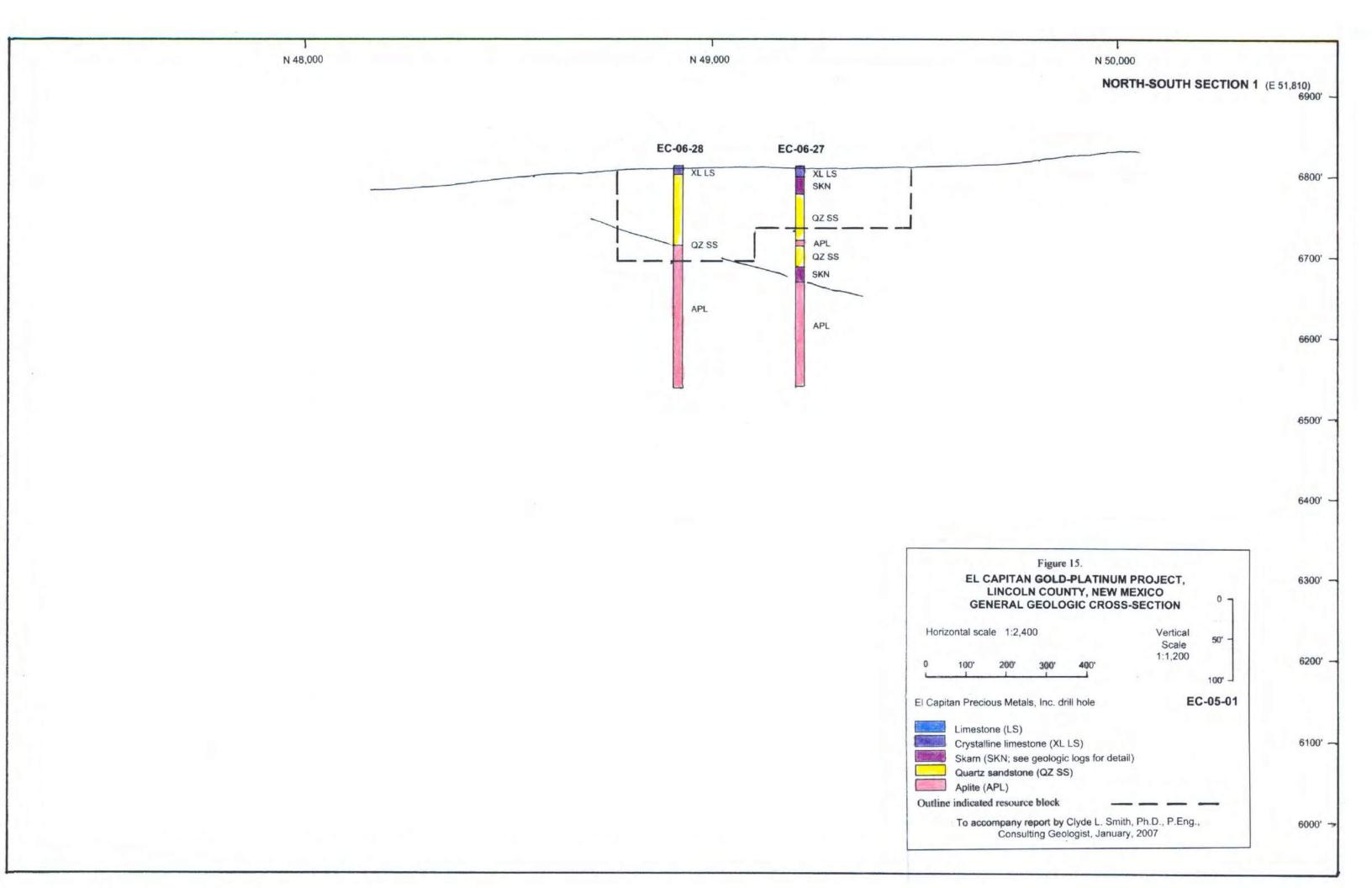


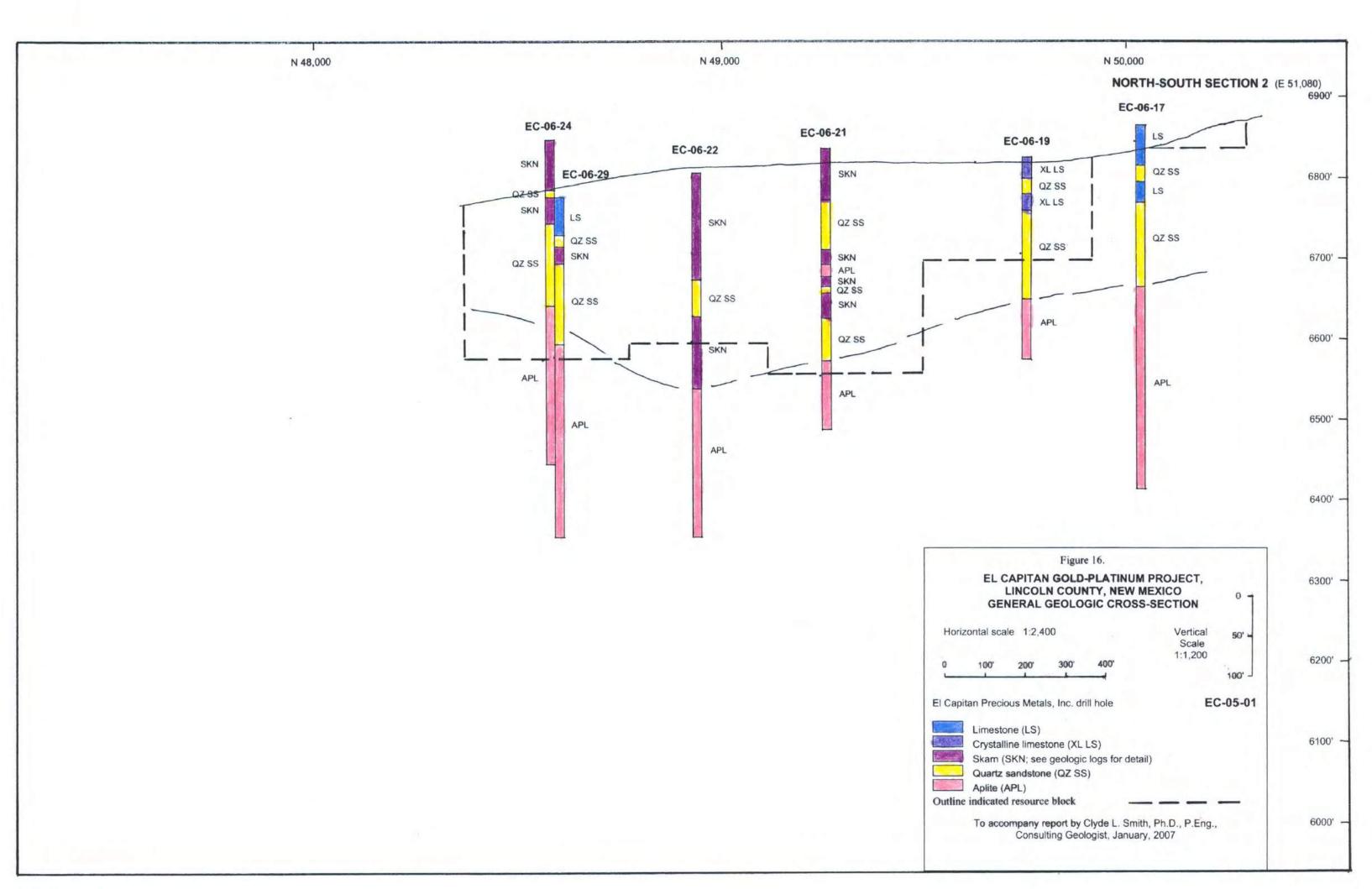


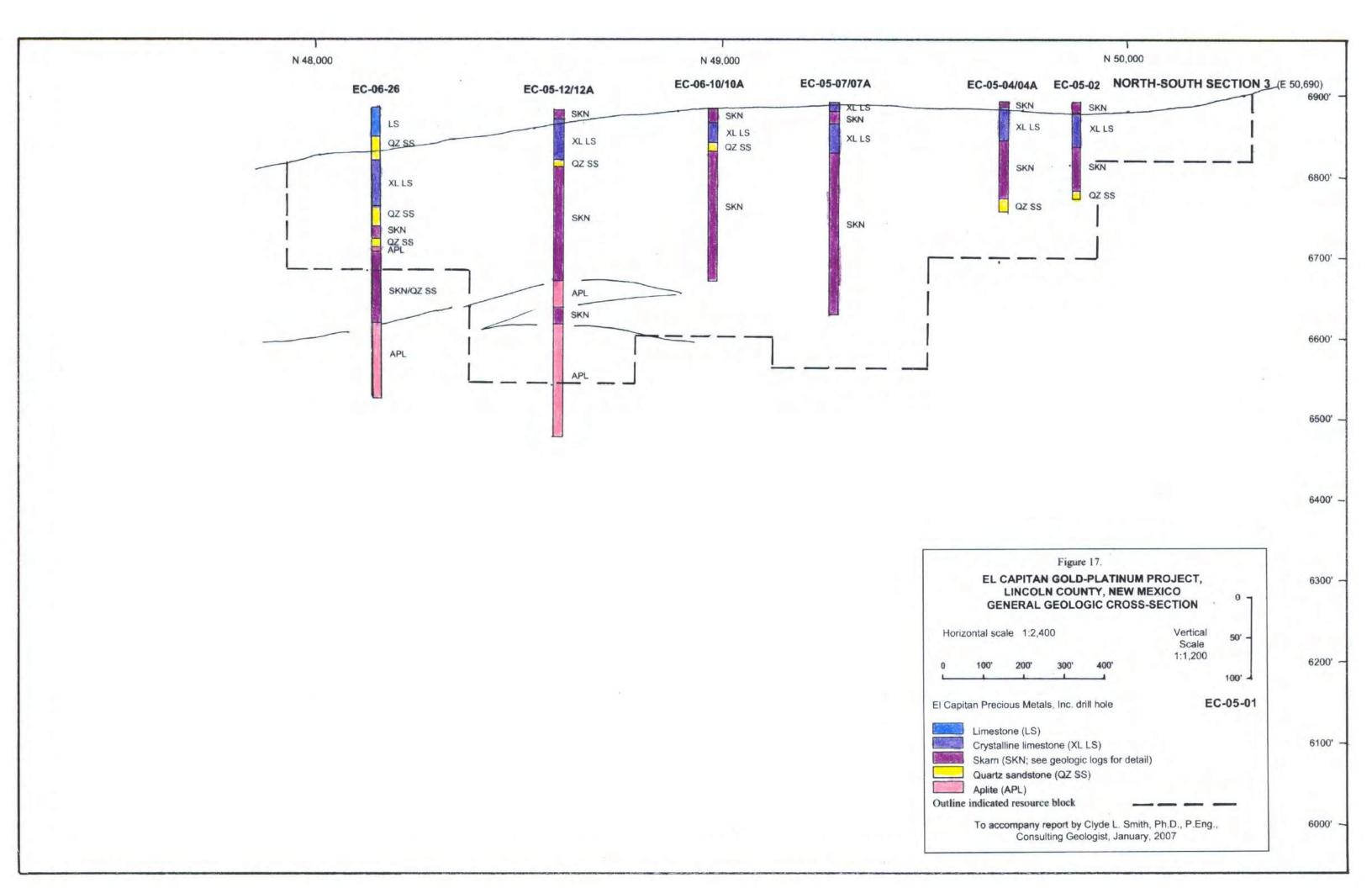


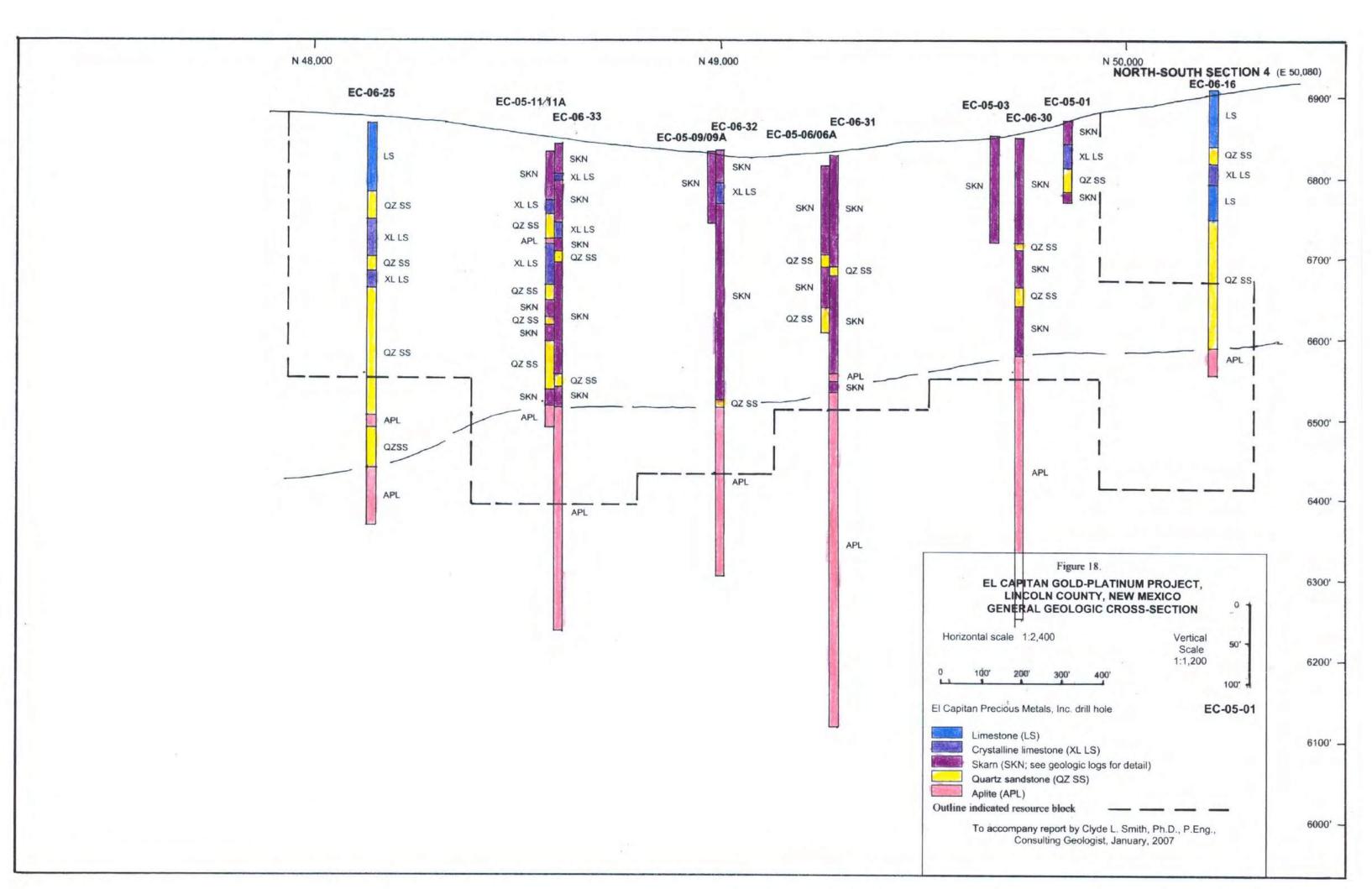


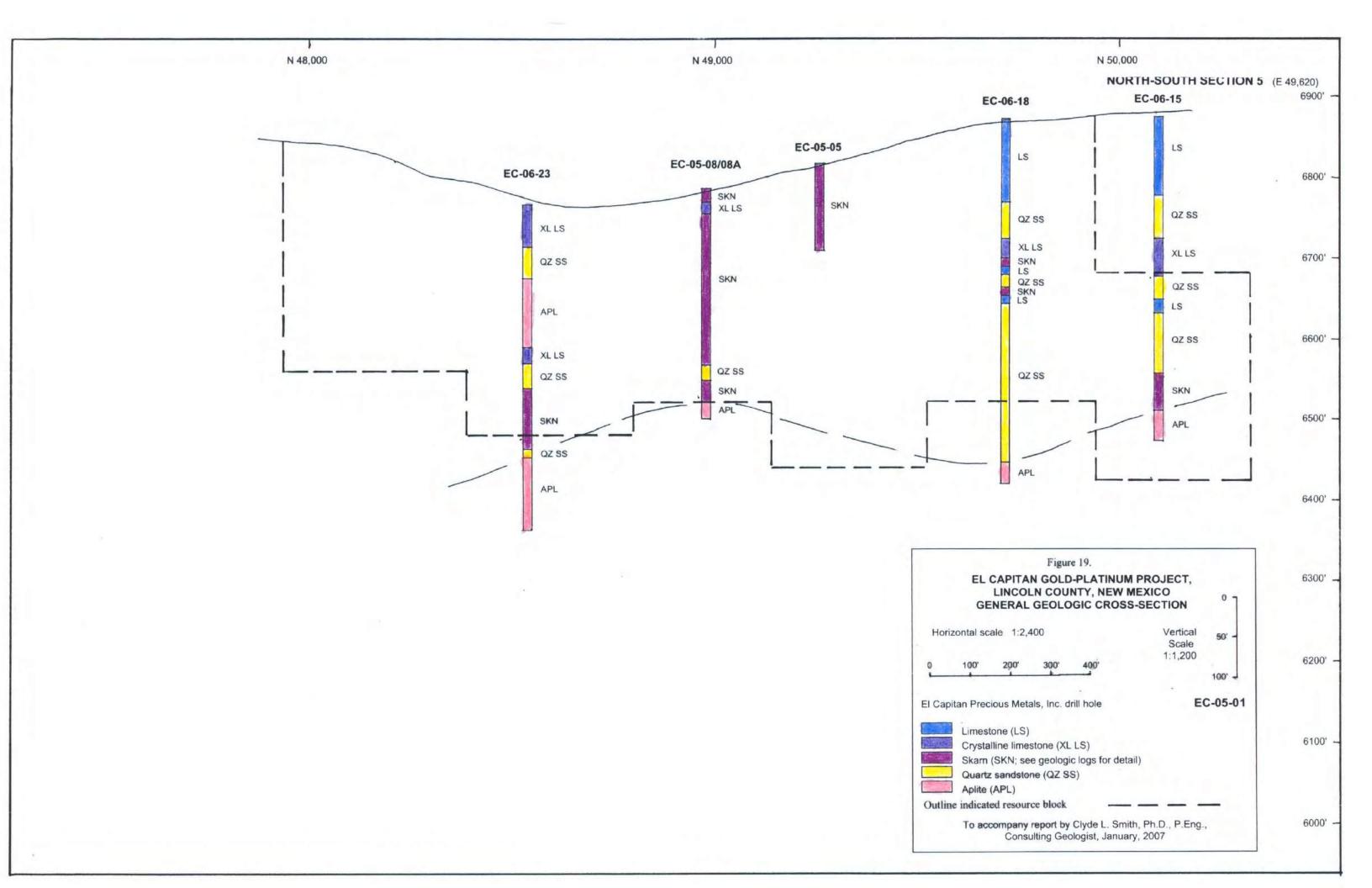


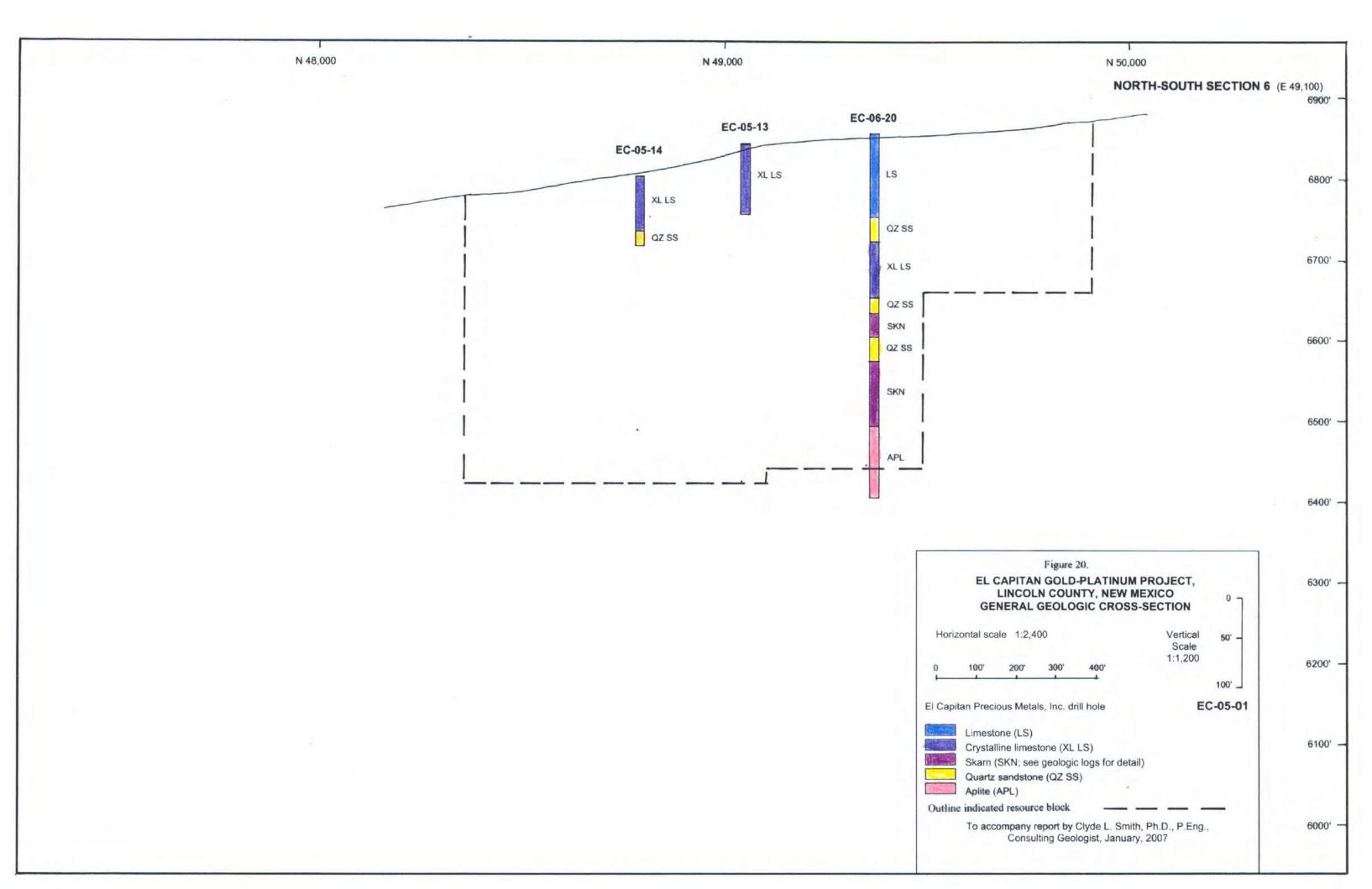


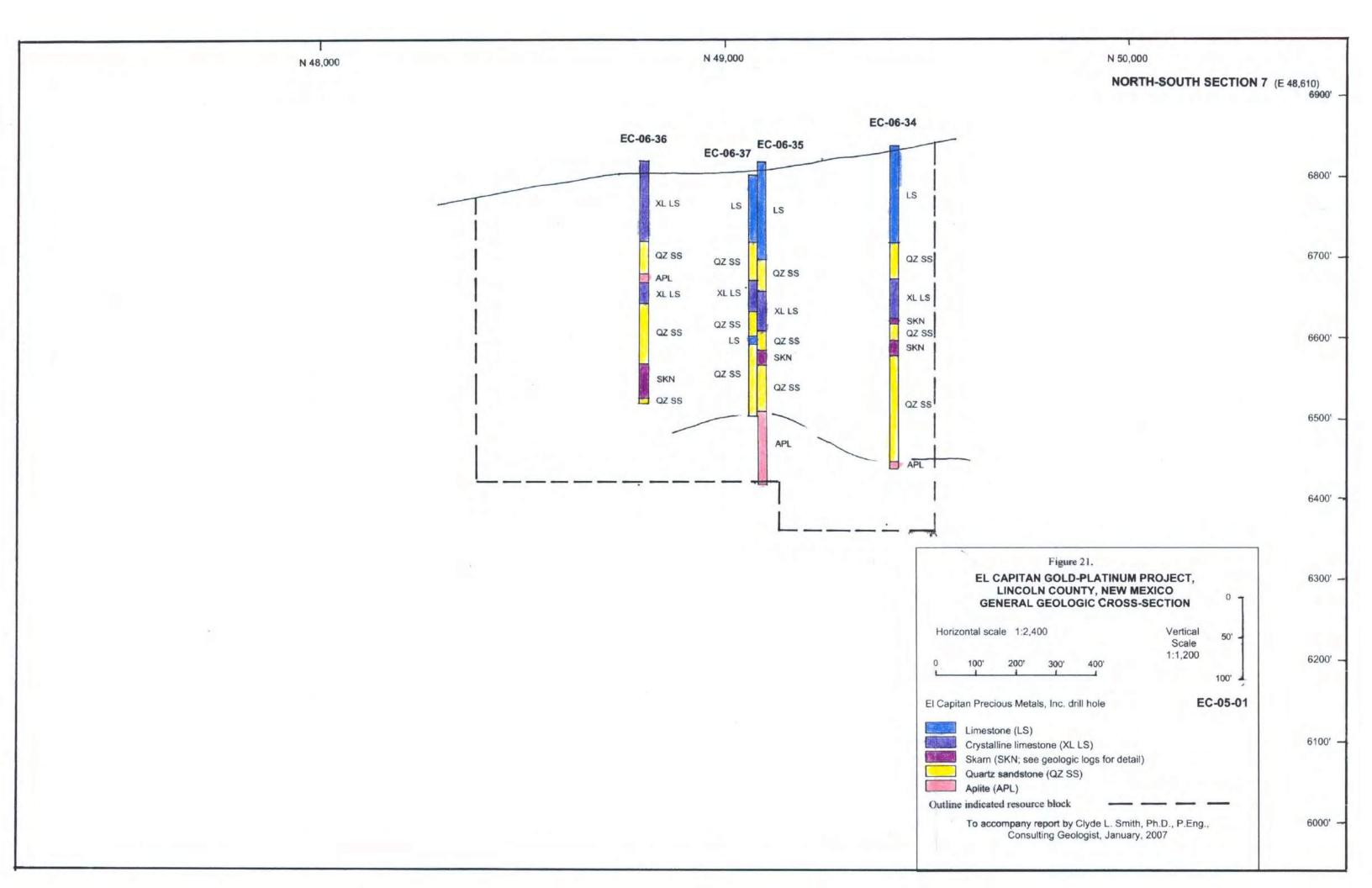












Appendix 3

Missouri Bureau of Mines Microscopy Report

MICROSCOPY REPORT

Volume 2 Issue 35

September 5, 1996

METALLURGY/CHEMISTRY LABS

El Capitan

Objective: SEM analysis of the "unidentified mineral" phase detected during reflected light microscopy.

Five particles were located and marked for SEM analysis. Three particles were on the magnetic fraction and labeled 1-3. The other two particles were located on the non-magnetic fraction, labeled 1-2.

SEM-EDX analysis of the five particles gave the same spectrum. The spectrum was contained an iron, manganese, and chromium peak. These elements indicate contamination from a non-geologic source. Most of the Fe-Mn-Cr minerals exhibit a low reflectance between 7-23%. The reflectance of phase is between 60-70%. Overlap of peaks was evaluated and these elements do not have major peak overlaps. The reflectance and the elemental composition might indicate a stainless steel contamination of sorts,

Another interesting phase identified during SEM analysis was the presence of arsenopyrite and galena with silver. These particles were examined due to the intense backscatter image. The brighter a backscatter image the higher the mean atomic number is for the phase. Several of the arsenopyrite particles were examined with only ontof the galena particles examined. The arsenopyrite particles under reflected light did not exhibit any anisotropism. This indicates that there is an impurity in the crystal structure of the mineral. This could be a platinoid element. These particles are approximately 35μ in size and are irregular in shape, and liberated from the gangue. The elemental spectrum of these particles was difficult to interpret due to the very high background counts. It is possible that these particles contain Pt and Pd. If these particles contain Pt and Pd the elemental concentration is extremely low. The galena particle did contain a small silver peak.

SEM-EDS was conducted on the other particles identified during reflected light microscopy and the identifications concurred with gold and electrum being present.

also magnetite particles with major hematite atteration. The next most abundant phase is limonite. It is liberated and as thin rims, $\sim 5\mu$, on totally attered hematite particles. Goethite and limonite are also attached in some particles. Most of the goethite is liberated and not attached to the other iron minerals.

There are there phases with extremely high reflectance. Two have been examined in the magnetic fraction. The third phase is native gold and it is mainly included in the quartz particles.

Size	Electrum	Au	Unid.
24		2	4
5μ	1	2	1
30µ		2	2

A total of 14 particles were examined. The tabit of the electrum and the unidentified we are similar to that described in the that fraction.

MICROSCOPY REPORT

Volume 2 Issue 30

Aug. 1, 1996

METALLURGY/CHEMISTRY LABS

El Capitan

Objective: Identify possible Au, Ag, and Pabearing phases.

Samples consisted of a head sample, nonmagnetic fraction and a magnetic fraction.

783 - Head Sample 1A

Phases present - Limonite, Quartz. Magnetite, Hematite, Goethite

Most of the particles are magnetite. Although most of the sample is magnetite, hematite is altering and replacing the magnetite in most ticles. The average particle size is $\sim 140 \mu$ me size range of $< 2.500 \mu$.

some of the particles have been totally altered to hematite. These particles have jagged edges from possible meteoric water dissolution. In some cases the hematite particles are rimmed with goethite and limonite.

Most of the particles are liberated with very few middling particles, aside from the magnetite/hematite particles.

No indication of precious metal phases are apparent.

784 - Magnetic Fraction 2A

Phases present - Magnetite, Hematite, Quartz, Electrum, unidentified phase.

The main mineral constituent in this sample is magnetite. The sample contains some magnetile particles that have no hematite

alteration. Most of the magnetite particles contain hematite alteration to some extent.

There are two extremely bright phases, reflectance >60. One of the phases is white and the other is a pinkish white. The particles are in the size range between 2-30 μ . The pinkish white phase has been identified as electrum, Au/Ag particle. A total of 10 electrum particles were identified.

Electrum 30μ 5μ 2μ

A total of 29 particles of the unidentified phases were examined.

Unidentified 30μ 5μ 2μ 2 17 10

Both of the phases are Isotropic with extremely high reflectance. The habit of the phases is that of a native element such as gold, copper, or silver. They have a skeletal habit as if the mineral precipitated between grains or small pubbles of the matrix.

These phases are totally liberated and in one instance some quartz was attached to a 2μ particle of the unidentified phase.

783 - Non-Magnetic 3A

Phases present - Magnetite, Hematite, Quartz, Limonite, Goethite, Electrum, Gold, Unidentified phase.

The matrix of this sample is slightly different that the head or magnetic fraction. The main phase present is hematite. There are particles

Appendix 4

Hydrothermal Gold-Platinum Group Metals

APPENDIX 4

HYDROTHERMAL GOLD-PLATINUM GROUP METALS

The history of mining of platinum group elements (PGE) is dominated exclusively by production of platinum and palladium with gold, chrome, nickel, copper and lesser PGE elements from magmatic segregation deposits in large ultramafic/mafic layered intrusions, mainly of Precambrian age. As a result, the majority of geologists are of the opinion that Pt, Pd are relatively chemically inert, extremely limited in geochemical mobility and restricted only to high temperature magmatic deposits of ultramafic/mafic composition. Beginning in the early 1970's, however, a few detailed studies provided surprising evidence that Pt, Pd could be mobilized in low temperature hydrothermal or aqueous fluids outside of ultramafic/mafic rocks (Stumpfl and Tarkian, 1976) and a gradual increase in multi-element analyses began to further demonstrate that significant Pt, Pd are present in a few deposits of classic hydrothermal character.

Today, significant Pt, Pd-bearing deposits, principally with Cu or U, have been identified in several geological environments completely removed from ultramafic/mafic rocks. Studies of these deposits have demonstrated unequivocally that these metals were transported and deposited from hydrothermal fluids of either magmatic or meteoric origin; in the largest deposits, Pt, Pd now constitute important economic metals. Of particular interest is the merging of results from geologic field studies and laboratory experiments that show that the hydrothermal fluids are of a special type: oxidized (high Eh) and acid (low pH) brines that transport Pt, Pd in a cogenetic association with Au in chloride chemical complexes.

The following are the major estimated reserves of platinum and palladium (after Macdonald, 1987):

	Age, Ma (millions	Grade	Total ounces
	of years ago	Pt+Pd+Au(oz/t)	Pt+Pd+Au
Bushveld Complex, South Africa	2,100	0.25	1,480,000,000
Great Dike, Zimbabwe	2,500	0.15	190,000,000
Noril'sk, USSR	250	0.12	150,000,000
Stillwater, Montana, U.S.A.	2,700	0.72	53,000,000
Sudbury, Canada	1,700	0.03	6,000,000

Lesser PGE deposits are known in serpentinites formed from altered ultramafics (Ural Mountains, USSR; Hitura, Finland), placers from ultramafic sources (Urals, USSR) and paleoplacers (Witwatersrand, South Africa); total PGE production as a by-product with gold from Witwatersrand is estimated at 290,000 ounces (Macdonald, 1987).

Studies of hydrothermal Pt, Pd deposits have been conducted by Mihalik and others (1974), Stumpfl and Tarkian (1976), McCallum and others (1976), Finch and others (1983), Werle and others (1984), Mutschler and others (1985), Borg and others (1987), Macdonald (1987), Lechler and others (1988), Eliopoulos (1991), Mernagh and others (1994) and Tarkian and Koopmann (1995). In 1976, Stumpfl and Tarkian concluded, "Evidence from the magmatic, metamorphic and sedimentary environments reveals one coherent and continuing theme: the mobility of platinum group elements at low (hydrothermal) temperatures in aqueous solutions". Laboratory research has now resulted in a comprehensive understanding of the thermochemistry of Pt, Pd solubility, transport and deposition under a range of hydrothermal fluid conditions through the work of Mountain and Wood (1987, 1988), Wood and others (1989, 1991, 1992) Sassani and others (1990), McKibben and others (1990), Jaireth (1992), Gammons and others (1993a, 1993b, 1995, 1996) and Evstigneeva and Tarkian (1996).

Classification of hydrothermal platinum, palladium deposits

The following if a preliminary classification of those hydrothermal platinum, palladium deposits and occurrences described to date in the geologic literature, including three deposits in Clark County, Nevada, all of which have been studied by the author.

HYDROTHERMAL PLATINUM, PALLADIUM DEPOSITS

A) FRACTURE/SHEAR ZONE HOSTED; PROBABLE FELSIC INTRUSION RELATED New Rambler, Wyoming; production: 171 oz Pt (0.13 oz/t Pt), 450 oz Pd (2.4 oz/t Pd) Bunkerville, Clark Co., Nev.; resource: 3,600 oz Pt (0.18 oz/t Pt), 2,900 oz Au (0.25 oz/t Au) Goodsprings, Clark Co., Nev.; production: 506 oz Pt, 762 oz Pd, 90,508 oz Au Crescent Peak, Clark Co., Nev.; from 3 cm vein: 26.9 oz/t Pt, 0.26 oz/t Pd, 5.4 oz/t Au Messina, South Africa; selected vein: 0.7 oz/t Pt, 3.7 oz/t Pd, 0.02 oz/t Au

B) PORPHYRY COPPER HOSTED

1. Alkaline pluton hosted

Allard stock, Colorado; Cu ore (13%): 0.05 oz/t Pt, 0.03 oz/t Pd, 0.02 oz/t Au Copper King Mine, Montana; Cu ore (16%): 0.25 oz/t Pt, 0.12 oz/t Pd, 0.009 oz/t Au Sappho, British Columbia; Cu ore (6%): 0.03 oz/t Pt. 0.02 oz/t Pd, 0.014 oz/t Au

2. Calc-alkaline pluton hosted

Skouries, Greece; mineralized-altered porphyry: 0.006 oz/t Pd, 0.09 oz/t Au Santo Tomas II, Philippines; reserves: 300,000 oz Pt (0.001 oz/t Pt); 1,700,000 oz Pd (.005 oz/t Pd); 19,000,000 oz Au (0.06 oz/t Au)

C) SEDIMENT HOSTED

1. Carbonaceous shale hosted

Kupferschiefer, Germany-Poland; 1 cm layer: 0.32 oz/t Pt (over 1.5 km strike length), up to 29.4 oz/t Pd, 88.2 oz/t Au

Zambian Copperbelt, Zambia-Zaire; production to 1958: 50,000 oz PGE Kalahari Copperbelt, Namibia; Cu ore: up to 0.004 oz/t Pt. 0.02 oz/t Au

2. Unconformity related

Coronation Hill, Australia; resource: 50,400 oz Pt. (0.008 oz/t Pt), 176,400 oz Pd (0.028 oz/t Pd), 1,260,000 oz Au (0.20 oz/t Au)

Fracture/shear zone hosted; probable felsic intrusion related Pt, Pd deposits

This class includes small Pt, Pd occurrences in Cu-Au sulfide ores hosted in open space fillings in fracture or shear zones. The New Rambler and Bunkerville deposits are hosted in Precambrian rocks and occur with abundant felsic dikes and pegmatites; the Goodsprings area includes felsic plutons cutting Devonian host carbonates – the nearest pluton outcropping 5 km from the principal deposit. The above associations indicate that hydrothermal mineralization in these deposits is related to felsic intrusions.

At the **New Rambler**, Wyoming deposit, ten Pt-bearing Te, Bi, Sb minerals and electrum occur with chalcopyrite, pyrrhotite, pyrite, sphalerite and pentlandite. Mineralization was deposited from 270°-400°C fluids that produced three alteration assemblages of increasing intensity: propylitic, quartz-sericite-pyrite, silicification (McCallum and others, 1976). Evidence for hydrothermal mineralization includes: 1) fracture filling, 2) close association between ore and alteration, 3) Pt:Pd ratios characteristic of hydrothermal and not magmatic environments (Pt:Pd = 1:18 and Pt:Pd:other PGE = 100:1800:1; magmatic ratios typically average Pt:Pd = 1:1.5 and Pt:Pd: other PGE = 1:2:1). McCallum and others (1976) concluded that (magmatic) hydrothermal fluids leached metals from gabbro source rocks.

At **Bunkerville**, Clark Co., Nevada, located 100 km northeast of the Eldorado project, unidentified Pt, Pd and Au minerals occur with chalcopyrite, pentlandite, pyrrhotite, pyrite, polydymite ($NiNi_2S_4$), sphalerite and molybdenite in an alteration assemblage of hornblende, carbonate, quartz, chlorite, epidote, kaolinite and sericite. Beal (1965) concluded that (magmatic) hydrothermal solutions remobilized metals from mafic rocks.

At the Boss Mine, the principal Pt, Pd deposit in the **Goodsprings**, Clark Co., Nevada district, located 55 km west of the Eldorado project, Pt, Pd and Au minerals occur in veinlets and disseminations in bitumen (see Appendix T) in a quartz-plumbojarosite (Pb(Fe(SO₄)₂(OH)₆)₂)-Fe oxide assemblage with colloidal sulfates, chlorides, oxides and silicates, and elevated Fe, Ca, Cu, Pb, Ni, Ti and V (Jedwab and others, 1999). It appears that magmatically derived hydrothermal fluids were responsible for mineralization.

At Crescent Peak, Clark Co., Nevada, located 20 km southwest of the Eldorado project, a 3 cm Pt-Pd-Au-bearing Cu-Pb-Zn-Ag quartz vein includes pyrite, chalcopyrite, galena, sphalerite, covellite and acanthite; Lechler and others (1988) have reported native gold, ferronickel platinum (Pt₂FeNi) and iridian osmium (Os, Ir). The metalliferous quartz vein cuts altered biotite granodiorite which is a marginal facies of a zoned Mesozoic (?) stock with a granite core. The granodiorite host exhibits four potassic, two quartz-sericite and one clay hydrothermal alteration phase. The apparent paragenetic relations are: 1) early-stage widespread K-feldspar-muscovite pegmatization, 2) widespread biotite, pyrite, 3) biotite, Mg-chlorite overlapped by quartz-sericite with pyrite, chalcopyrite, covellite veinlets, 4) the above assemblage with pyrite, galena, sphalerite veinlets and 5) latest-stage clay altered quartz-sericite immediately adjacent to the Pt-Pd-Au-bearing quartz vein. The Pt-Pd-Au-bearing quartz vein appears to represent late stage, lower temperature deposition from a hydrothermal fluid which differentiated within a fairly typical calc-alkaline pluton hosted porphyry copper system.

Porphyry copper hosted

Porphyry copper deposits occur within or in roof rocks above felsic plutons. The two major plutonic rock categories based on chemical composition are alkaline, and calc-alkaline (a sub-division of subalkaline). The alkaline-subalkaline divisions are based on relative amounts of $K_2O + Na_2$) and SiO_2 as shown in Figure 1, below, from Philpotts (1990). Alternatively, alkaline plutons have been defined as those which have $K_2O + Na_2O > 0.3718 SiO_2 - 14.5$ (Muschler and others, 1985). The felsic alkaline rocks are distinguished by having relatively lesser SiO_2 (60%) and CaO (1%) and relatively higher Al_2O_3 (20%), K_2O (6%), Na_2O (7%), and Fe_2O_3 (3%). In contrast, the felsic calc-alkaline subdivision has relatively higher SiO_2 (70%) and CaO (2%) and lesser Al_2O_3 (14%), K_2O (3%), Na_2O (4%) and Fe_2O_3 (1%) than felsic alkaline or other felsic subalkaline rocks.

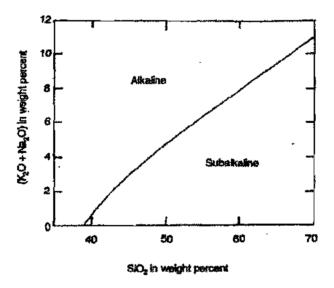


Figure 1. Alkaline and subalkaline plutonic rock

divisions based on K₂O +Na₂O and SiO₂

Alkaline pluton hosted porphyry coppers

Hydrothermal Pt, Pd occur as minor constituents in Cu-Ag-Au porphyry copper mineralization in alkaline plutons in a belt that stretches through the eastern Rocky Mountains from southern British Columbia to Colorado (Finch and others, 1983; Mutschler and others, 1985). Alkaline intrusive rocks have long been recognized as indicators of continental rifting and extensional tectonic regimes. A detailed study of the **Allard stock**, Colorado at the south end of the Colorado Mineral Belt (Werle and others, 1984) showed that mineralization is localized in breccia pipes and stockworks in a complex epizonal 65-70 Ma age syenite intrusive suite which is greatly enriched in K₂O and Al₂O₃. Ore includes chalcopyrite, enargite, sphalerite, bornite, chalcocite, pyrite, magnetite, hematite, arsenopyrite, marcasite and galena with gangue minerals K-feldspar, quartz, calcite and fluorite in argillic, potassic and carbonate altered host rocks. Werle and others (1984) concluded that fractionation of syenitic magma produced a volatile-rich supercritical fluid that hydrofractured roof rocks releasing altering and mineralizing fluids that precipitated Pt, Pd-bearing Cu-Ag-Au ore minerals in breccia and stockwork.

Calc-alkaline pluton hosted porphyry coppers

At **Skouries**, Greece, Cu-Ag-Au porphyry copper mineralization is localized in veins, stockworks and disseminations in an 18 Ma age calc-alkaline granitic stock. Pd occurs in an unidentified state in chalcopyrite, pyrite, bornite, magnetite and native gold ore with quartz gangue in intensely silicified, potassic and phyllic altered host rocks. Eliopoulos (1991) concluded that the Skouries porphyry host is an I-Type granitoid which exhibits extensive chemical interaction with upper crustal rocks.

The **Santo Tomas II**, Philippines porphyry copper deposit contains a total of 2,000,000 ounces of low-grade Pt+Pd in 328 million tons of Cu-Au ore. Merenskyite (Pd(Te,Bi)₂) and native gold have been identified in bornite, chalcopyrite, pyrite, magnetite ore in a potassic and propylitic altered 9.2 Ma age diorite stock. Tarkian and Koopmann (1995) concluded that the diorite is an island arc/subduction related pluton from which a high salinity (35-60%) NaCl) fluid deposited metals from chloride complexes at 358°-520°C.

Sediment hosted

The sediment hosted category includes deposits which appear to have formed from dominantly acidic and oxidized meteoric basinal brines that leached and transported Pt, Pd, Au and other metals in Cl-complexes. Deposition occurred mainly by chemical reduction of the brines upon interaction with host strata (carbonaceous, pyritic, feldspathic) that contained reducing agents. It is important to point out that Pt, Pd, Au concentrations in carbonaceous shales appear to result only by deposition from hydrothermal fluids which have chemically interacted with the reducing environments that characterize these rocks; Pt, Pd and Au do not appear to represent intrinsic or primary constituents of these sediments (Coveney and others, 1992).

Carbonaceous shale hosted

A 1 cm thick layer at the base of the **Kupferschiefer** ("copper shale"), Germany, Poland, contains local high values in Pt, Pd and Au (Macdonald, 1987; Coveney and others, 1992; Mountain and Wood, 1988). The Kupferschiefer is a Permian (250 Ma), 1 m thick carbonaceous-calcareous bed that underlies an area of 20,000 km² and includes large areas of economic Au-Ag-Pb-Zn ore. The Kupferschiefer bed lies at a contact between underlying volcanics and red beds and overlying carbonates, evaporites and red beds. Mineralogy is principally bornite, chalcocite, chalcopyrite, galena, sphalerite, tetrahedrite and pyrite; minor metals are Ni, Co, V and Mo. It has been proposed (Jowett, 1986) that metals were supplied to a shallow sea by late diagenetic convecting meteoric fluids that leached metals from volcanic detritus in underlying strata, that thermal energy for convection was supplied by continental rifting and that deposition took place by reduction in organic-rich shale.

The **Zambian Copperbelt**, Zambia, Zaire, has produced Pt, Pd as minor constituents in Cu-Co-U ores in an extensive, few meters thick, 900 Ma age carbonaceous sulfide-rich shale and arkosic sandstone bed which lies on Archean granitic and metamorphic basement. Principal ore minerals are chalcocite, bornite, chalcopyrite, pyrite, carrolite (Cu,Co₂S₄) and linnaeite (Co₃S4). Fleischer and others (1976) proposed that surface waters carried detrital metal and metal-rich fluid, probably leached from copper in basement rocks, into a near-shore, carbon- and sulfur-rich sedimentary environment within which reduction resulted in precipitation.

Sediment-hosted stratabound Cu-Ag deposits in the **Kalahari Copperbelt**, Namibia, contain significant potential by-product Pt and Au (Borg and others, 1987). The deposits are hosted in carbonaceous pyritic shales in the upper levels of a 1300-950 Ma age volcanic-sedimentary succession deposited in a failed continental rift system. The basal unit of the succession rests on 2000-1600 Ma granite-metasediment basement and consists of felsic volcanics characterized by considerably enriched values in Pt and Au. Overlying red beds were derived by erosion of the basement and felsic volcanics but are now depleted of Pt and Au, as well as Cu and Ag. Borg and others (1987) concluded that Pt and Au were contributed to basal felsic volcanics from a rift-related mantle plume and that low temperature circulating Cl-rich basinal brines of low pH and high Eh leached metals from the overlying red beds, precipitating Cu and Ag with minor Pt, Au and Ni by reduction upon encountering overlying carbonaceous, pyritic shales.

Unconformity related

At Coronation Hill, Australia, a Pt-Pd-Au-U deposit is hosted in a fault zone in a variety of fractured and altered rock types within an Early Proterozoic (2500-1600 Ma) assemblage lying on an Archean basement of metasediments and felsic meta-igneous rocks. The Early Proterozoic section consists of basal carbonaceous shale, siltstone and carbonate overlain by chloritized volcaniclastics and carbonaceous shale; these units are intruded by quartz feldspar porphyry and quartz diorite and all of the above rock types have experienced early stage quartz-sericite-chlorite-kaolinite-sphene hydrothermal alteration. The altered units are overlain by a sedimentary breccia which in turn is capped by an unconformity (Kombolgie) above which lies a hematitic quartz sandstone (Carville and others, 1990). Principal minerals include very fine electrum, stibiopalladinite (Pd₅Sb₂) sudburyite (PdSb), native Pd, a Pt-Pd selenide ((Pt, Pd)Se₂),

a Pt-Pd-Fe alloy, rare native Pd, uraninite, pitchblende and minor pyrite; minor metals are Ni, Co. Ore minerals appear to have no lithologic control, occurring in quartz-dolomite-calcite-hematite veinlets and breccias and as disseminations in all of the rock types which lie below the Kombolgie unconformity. Mineralization was accompanied by hematite alteration of variable intensity that affected all rock types, including the hematitic quartz sandstone above the unconformity. Highly oxidized fluids are indicated by complete oxidation of chlorite to hematite. Mernagh and others (1994) concluded that both reduction and neutralization of an oxidized, acidic meteoric ore fluid resulted in precipitation of ore minerals in fractured reducing rock types lying beneath the Kombolgie unconformity.

Solubility, transport, deposition of platinum, palladium

Thermodynamic calculations (Mountain and Wood, 1987, 1988; Wood and others, 1989, 1991), analysis of data for modern geothermal systems (McKibben and others, 1990) and laboratory experimental results (Gammons and others, 1993, 1995, 1996; Estigneeva and Tarkian, 1996) over the past 12 years have contributed to an understanding of the solubility, transport and deposition of Pt, Pd. Research on a variety of Pt, Pd complexes, including chloride, hydroxide, oxyanionic, ammonia, thiosulfate, sulfite and polysulfide (Mountain and Wood, 1987), has clearly demonstrated that significant Pt, Pd solubilities under most geologically reasonable conditions may only be achieved in chloride complexes. Figure 2 shows Eh(logfo₂)-pH diagrams which demonstrate that the fields of the predominant aqueous Pt, Pd chloride species are restricted to acidic pH (Kaolinite or muscovite stable) and moderate-extreme oxidized Eh conditions (hematite stable) at 25°C. Mountain and Wood (1987) have shown that these fields are valid even at low chloride concentrations and up to 300°C (where the PtCl₂⁰ field is greatly expanded). Wood and others (1992) further concluded that Pt, Pd chloride complexes may become increasingly important at magmatic temperatures of 400°C and higher.

The ubiquitous presence of significant Au with Pt, Pd in hydrothermal deposits underscores the importance of chloride complexes in the cogenetic solubility and transport of these three metals. Although a consensus has developed concerning the dominance of Au solubilities in bisulfide complexes, Figure 2 shows that the 1 ppm bisulfide (Au(HS)₂) field is located at acidic to alkaline pH's and is restricted to a lower Eh, more reducing range, removed from the Pt, Pd chloride complexes fields. Corresponding Pt bisulfide solubilities (in Pt(HS)₄²) in this field are only in the parts per trillion range, clearly indicating that no significant Pt solubility occurs in bisulfide complexes (Mountain and Wood, 19087). The cogenetic association of Au with Pt, Pd in hydrothermal mineral assemblages therefore requires that Au also be transported in chloride complexes when found in such assemblages. The coincidence of the 1 ppm solubility contours for Au with both Pt and Pd in chloride complexes shown in Figure 2 emphasizes that these metals were transported together in fluids from which Pt, Pd and Aubearing hydrothermal deposits were formed.

Geologic evidence from a number of deposits and occurrences indicates that Pt, Pd and chloride complexes were destabilized upon encountering environments that brought about chemical reduction and/or neutralization of the oxidized and acidic hydrothermal fluids, thereby resulting in deposition. The dominance of Pt, Pd sulfide minerals in hydrothermal

assemblages suggests that sulfur was contributed to these minerals from the reducing environments that contained sulfur and into which the ore transporting fluids were introduced.

Summary of ore deposition in Pt, Pd hydrothermal deposits

An abundant literature on fluid inclusions from **magmatic related** fracture/shear zone hosted precious and base metals deposits and porphyry copper hosted ore deposits as well as results from thermochemical studies has demonstrated that chlorine is a common and significant element in the ore fluids from which these deposits formed. It is therefore reasonable to conclude, in addition to the evidence presented above, that Pt, Pd, Au (and Cu, etc.; Mountain and Wood, 1988), when found in these classes of deposit, resulted from transportation in and deposition from chloride complexes. The common occurrence of hydrothermal alteration assemblages in fracture/shear zone and porphyry copper deposits indicates that wall rocks were attacked by acidic fluids, confirming the acidic nature of the chloride complex-bearing fluids. Although the oxidizing character of the fluids is rarely exhibited in the minerals in deposits of these types, it is believed that sulfur in the sulfide assemblages has been derived by interaction and reduction of the ore fluids with sulfur-bearing wall rocks. This phenomenon is particularly well exhibited at the Santo Tomas II porphyry copper deposit where most of the sulfide ore is localized along a diorite-metavolcanic wall rock contact (Tarkian, 1995).

The clearest understanding of hydrothermal Pt, Pd ore deposition in sediment hosted deposits is provided by studies of the Coronation Hill deposit (Wilde and others, 1989; Carville and others, 1990; Jaireth, 1992; Mernagh and others, 1994). Jaireth (1992) and Mernath and others (1994) concluded that a very Ca-rich, atmospheric oxygen-saturated (highly oxidized), acidic, moderately saline meteoric brine (groundwater or sea water, based on isotopic data) transported Pt, Pd, Au and U in chloride complexes. Fluid inclusion evidence indicates that this fluid transported metal chloride complexes at 160°-225°C; similar Pt, Pd, Au, U elemental molar ratios in inclusions and ore indicate that metals were transported and deposited together from the same fluid (Wilde and others, 1988). It has been inferred that as the fluid migrated through the quartz sandstone aquifer above the Kombolgie unconformity it maintained a high oxidation state by progressively oxidizing Fe²⁺ minerals in the sandstone (magnetite, silicates), pushing a redox interface deeper into the aquifer and successively leaching and redepositing Pt, Pd, Au and U as it descended. Upon reaching strong redox barriers in feldspar-, magnetite- and graphite-bearing sediments or fluids containing methane or hydrocarbons beneath the unconformity, the chloride complexes became unstable, experienced chemical reduction, and precipitated ore minerals at 150°-170°C (Jaireth, 1972) in open space fractures in host rocks. Mernagh and others (1994) stressed that the ore forming process at Coronation Hill is genetically different from epithermal deposits that have resulted from ascending, deeper level, more reduced hydrothermal fluids. Data from several of the epithermal sediment hosted Carlin-type deposits in Nevada show that Pt, Pd values are not anomalous (Page and others, 1992); these

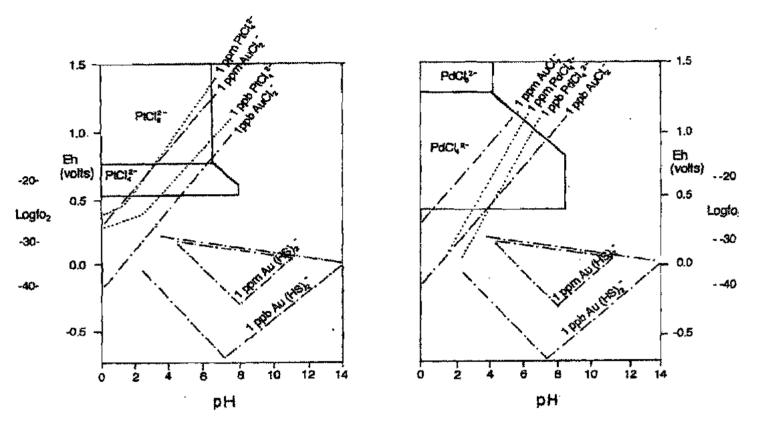


Figure 2. Eh (logfo₂)-pH diagrams for Pt and Pd at 25°C (\sum Pt, Pd=10 ppb, \sum Cl=1.0 m). Solid lines separate fields of predominance of aqueous species of Pt and Pd. Also shown are solubilities at 1 ppm and 1 ppb for Pt, Pd and Au in chloride and bisulfide (Au only) complexes at 300°C (\sum Cl=1.0 m, \sum S=0.1 m). Pt, Pd and Au solubilities as chloride complexes are similar; in the field of Au solubility in the bisulfide complex, however, Pt bisulfide complexes (not shown) are extremely low, in the range of 1 ppt (parts per trillion). Although fields shown are at 25°C, Mountain (1987) states that the Pt and Pd chloride fields shown provide an order of magnitude estimate of the total Pt, Pd solubilities as chloride complexes at 300°C. Figure 2 modified from Mountain (1987).

data tend to confirm that sediment hosted Pt, Pd-bearing deposits, such as Coronation Hill, are genetically distinct from the epithermal types.

As is the case for most classes of ore deposits, considerable speculation and debate has centered on the issue of the source of metals in the classes of deposits considered here. the hydrothermal Pt, Pd deposits appear to be divisible into those formed from magmatic fluids (fracture/shear zone hosted and porphyry copper hosted) and those formed from meteoric fluids (sediment hosted). In the case of porphyry coppers the magmatic hydrothermal fluids have clearly been generated by differentiation of plutons. Metals in these deposits were acquired from source rocks that were melted to produce magma. In the case of alkaline plutons, such as the Allard stock, rocks of these compositions are characteristic of continental rifts within which metals may have been derived from magma rising and differentiating from the ultramafic/mafic composition upper mantle or from the melting of basement rocks in the lower to upper crust. Calc-alkaline plutons, on the other hand, such as Santo Tomas II, generally represent magma generation by subduction of oceanic plates of dominantly mafic composition. Escape of magmatic fluids into fractured roof rocks, such as at Goodsprings or Crescent Peak, allows for deposition directly from these fluids or possible leaching of metals from country rocks traversed by the fluids, such as at New Rambler and possibly Bunkerville. In the case of the magmatic fluid types, metals have clearly been dominantly derived from the source rocks from which magmas were formed by melting; these source rocks may range from ultramafic to felsic and no specific composition appears to emerge, although the dominant association of major Pt, Pd deposits with ultramafic/mafic rocks would suggest that rocks of this composition probably supplied significant material to magmas.

Studies of sediment hosted Pt, Pd-bearing deposits provide a fairly clear picture of leaching and transport of metals in meteoric hydrothermal fluids. In the case of the Kupferschiefer and Kalahari deposits, underlying felsic volcanics and red beds in continental rift environments, have been identified as source rocks (Jowett, 1986; Borg and others, 1987). In the Kalahari situation, elevated levels of Pt, Pd in felsic volcanics have been attributed to a mantle plume that contributed these and other metals to felsic magma formed by melting of lower continental crust of mainly metasedimentary composition (Borg and others, 1987). In a similar manner, chloritealtered volcaniclastics and quartz-feldspar porphyries underlying the Coronation Hill deposit (Mernagh and others, 1994) are probable source rocks for metals in this deposit. In the Zambian Copperbelt the ore beds lie on a metamorphic/granitic basement which appears to contain significant amounts of Cu-bearing veins and disseminations (Fleischer, 1976); this basement mineralization is a probable source for Pt. Pd and other metals in the deposits. The Kalahari example, supported by the Kupferschiefer, appears to provide the best clue as to source rocks for sediment-hosted hydrothermal Pt, Pd-bearing deposits: volcanic rocks that received metals by mixing with ultramafic/mafic magma introduced from the mantle in continental rift environments.

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Appendix 5

El Capitan Drill Logs

DRILL HOLE: EC-05-01

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,596/3,720,145

Elevation: 6,867' Inclination: -90°

Date started: April 29, 2005 Date completed: May 1, 2005

Depth: 99'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 5, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-2	28' I	Magr	etite	e (61	l%) ·	- cal	cite	(28%	%) - hematite (8%) ska	arn; minor calcite-her	natite stockwork	
0-1'	30	15	55							Cal-mag-hem skarn		Auger cuttings only, 1-3';	0-5'
1-2'	30	20	50							"		chunks of xline Ims in	Non-mag wt %: 50.1
2-3'	40	10	50							"		interval; probable surface	Au: 0.013; Ag: 0.025;
3-4'	45	5	50							Cal-mag skarn		contamination, 0-4'	Pt. 0.032; Mag: 45.84
4-5'	55		45							Mag-cal skarn			Fe in mag: 67.63
5-6'	60	5	35							Mag-cal skarn			5-10'
6-7'	50	5	45							Mag-cal skn, cal-hem	Cal-hem veinlets	Excellent example of later	Non-mag wt %: 31.3
										stockwork (weak)	cut mag-cal skn	stage cal-hem veining	Au: 0.006, Ag: 0.035,
7-8'	60	10	30							"	"	"	Pt: 0.029, Mag 62.37,
8-9'	70	10	20							"	"	"	Fe in mag: 68.75
9-10'	65	10	20	5						"	" ; brecciated		10-15'
10-11'	65		25	10						Mag-cal skarn	Phlog with cal in vits		Non-mag wt %: 29.0
11-12'	30	25	40	5						Cal-mag skn, cal-hem	Cal-hem flooding in	Excellent example of later	Au: 0.009
										stkwk (moderate)	fractures, brecciated	stage cal-hem veining,	Ag: 0.019
												rotated fragments	Pt: 0.021
12-13'	80	10	10							Mag-hem-cal skn			Mag: 64.46
13-14'	80	5	15							Mag-cal skn	Cal veinlets		Fe in mag: 69.23
14-15'	7	10	20							Mag-cal-hem skn,	Cal-hem vlts, brecc.	Later stage cal-hem	
										cal-hem stkwk (mod)		veining, rotated fragments	
15-16'	70	5	25							Mag-cal skn,			15-20'
										cal-hem stkwk (mod)			Non-mag wt %: 21.2
16-17'	80	10	10							Mag-cal hem skn	Massive		Au: 0.014
17-18'	80	5	15							Mag-cal skn	Massive		Ag: 0.025
18-19'	75	10	15							Mag-cal-hem skn,	Cal-hem veinlets		Pt: 0.019
										cal-hem stkwk (mod)			Mag: 72.22
19-20'	80		20							Mag-cal skn	Cal-mag veinlets		Fe in mag: 69.23
20-21'	65	5	30							Mag-cal skn,	Banded (flat)		20-28'
										cal-hem stkwk (weak)			Non-mag wt %: 38.5
21-22'	60	5	35							"			Au: 0.010

FOOTAGE				MIN	ER/	ALS				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
22-23'	55	10	35							Mag-cal hem skn	Banded (flat)		Ag: 0.032
23-24'	20	5	20	55						Phlog-mag-cal skn,	"		Pt: 0.028
										cal-hem stkwk (weak))		Mag: 56.09
24-25'	60	5	30	5						Mag-cal skarn			Fe in mag: 68.43
25-26'	80	10	10							Mag-cal hem skn			
26-27'	80	10	10							"			
27-28'	80	10	10							"			
	28-	57'	Crys	stalli	ine I	ime	ston	e					
28-29'		5	95							Crystalline limestone,	Massive texture		28-38'
										minor hem dissem.			Au: 0.006
29-30'			100							Xline Is	"		Ag: 0.562
30-31'		2	98							"	"		Pt: 0.025
31-32'		5	95							"	"		
32-33'		5	95							"	"		
33-34'		5	95							"	"		
34-35'		5	95							"	"		
35-36'		2	98							"	"		
36-37'			100							"	"		
37-38'			100							"	"		
38-39'			100							"	"		38-48'
39-40'			100							"	"		Au: 0.007
40-41'			100							"	"		Ag: 0.019
41-42'			100							"	"		Pt: 0.028
42-43'		2	98							"	Rare cal-hem veinlets		
43-44'			100							"	"		
44-45'			100							"	"		
45-46'			100							"	"		
46-47'			100							"	"		
47-48'			100							"	"		
48-49'			100							"	"		48-57.5'
49-50'			100							"	"		Au: 0.008
50-51'			100							"	"		Ag: 0.538
51-52'			100							"	"		Pt: 0.032
52-53'		5	95							Xline Is, cal-hem vlts		Gray Is bleached, replaced	
												by cal, minor hem along	
												vein margins	
53-54'		2	98							Xline Is	Rare cal-hem veinlets	Minor pyrrhotite with hem-cal in veinlet	
54-55'			100							"		nom our in voilinet	
55-56'		2	98							"	Rare cal-hem veinlets		
56-57'		2	98							"	"		
	57-	-74'		artz	san	dsto	ne v	vith	calc	ite cement, minor di	sseminated hematite	(9%)	
57-58'		5	25			75				Quartz sandstone,	Minor hem dissem.	Clear quartz grains in	
										calcite cement		calcite cement	57.5-63'
58-59'		2	23			75				"	"	Hematite probably primary	
												in sandstone	Au: 0.011

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
59-60'		5	15			80				"	"	"	Ag: 0.022
60-61'		5	15			80				Quartz sandstone,	Minor hem dissem.	Hematite probably primary	Pt: 0.037
										calcite cement		in sandstone	
61-62'		10	15			65			10	"	"	Hematite & clay probably	
												primary - from decom-	
62-63'		10	15			70			5	"	,,	posed mafic detritals	
63-64'		10 5	10			70 85			Э	"	· ·	Bedding apparent from	63-68'
03-04		5	10			03						hematite layers, mod. dip	
64-65'		5	20			70			5	"	"	"	Au: 0.009
65-66'		10	15			70			5	н	n .		Ag: 0.085
66-67'		10	15			75				"	"		Pt: 0.035
67-68'		15	15			70				"	Rare cal-hem vlts;		
											steeply dipping		
68-69'		20	15			60			5	"	Rare cal-hem vlts;		68-73'
											blotchy texture		Au: 0.005
69-70'		20	15			60			5	"	"		Ag: 0.020
70-71'		10	15			75				"	Rare cal-hem vlts;	Dissem. hematite	Pt: 0.018
										_	disseminations	probably introduced	
71-72'		10	15			75				"	2.5" flat vein of	"	
70 70		_	4.5			7.			_	,	hem-cal-qtz	,,	
72-73'		5	15			75			5		Blotches of hem- cal-qtz		
73-74'		5	15			75			5	"	cai-qız "	u u	73-78'
	74	-84'		natir	te-ri		99%) ans		sandstone with calci	te cement		
	•					J (2	-5 70,	, qui					
74-75'		50	15			30				Hematite-rich quartz		"	Au: 0.007
									;	sandstone, cal cemen	flat vlts of hem-cal		Ag: 0.026
75-76'		50				30			5		"	"	Pt. 0.039
76-77'		20	20			60				Quartz ss, cal cement		"	
77-78'		15	30			55				Vline le hem diesem	2" flat band of cal-hem	"	78-83'
78-79' 79-80'		35 10	65 15			75				•	Flat cal-hem veinlets Rare cal-hem veinlets	"	78-83 Au: 0.006
80-81'		20	35			45				", hem dissem.	"	n .	Ag: 0.000
81-82'		20	30			50				Qtz ss, cal cement,	Irregular zones, vlts,	u u	Pt: 0.024
										hem dissem.	cal replacement		
82-83'		30	30			40				"	"	"	
83-84'		40	40			20				Hematite-rich quartz,	"; flat hem-cal veinlets	u u	83-89'
										ss, cal cement			Au: 0.005
													Ag: 0.019
	84	-86'	Her	nati	te (7	0%)	- ca	lcite	(15	%) skarn			
													Pt. 0.016
84-85'			10	10		10				Hem-cal-phlog skn		10% detrital qtz grains	
85-86'		70	20			10				Hem-cal skn		"	

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	LS		ī		TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	86-	90'	Ca	lcite	e (55	i%) -	· her	nati	te (3	0%) skarn			
86-87'		30	60			10				Cal-hem skn		10% detrital qtz grains	
87-88'		30	60			10				n .	Hem-cal blotches	n n	
88-89'		30	50		10	10				"		Large diopside xls	
89-90'		30	50		10	10				n .			89-94'
	90-	92'	Phl	ogo	pite	(93%	%) s∣	karn					
90-91'		5		90		5				Phlogopite skarn			Au: 0.007
91-92'		5		95						n			Ag: 0.145
	92-	99'	Cal	cite	(60%	⁄6) - I	hem	atite	(19	%) - diopside (10%) s	skarn		
92-93'		20	60		10	10				Cal-hem skn			Pt: 0.034
93-94'		20	60		10	10				"			
94-95'		20	60		10	10				n .			94-99'
95-96'		20	65		5	10				"			Au: 0.015
96-97'		20	55		15	10				Cal-hem-diop skn			Ag: 0.020
97-98'		20	55		15	10				"			Pt: 0.025
98-99'		15	65	10	5	5				Cal-hem skn			
END OF HO	LE												

DRILL HOLE: EC-05-02

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,702/3,720,149

Elevation: 6,891' Inclination: -90°

Date started: April 23, 2005 Date completed: April 25, 2005

Depth: 118'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 5, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter	00.	C 31	ppc	·u.						ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-5	5' N	lagn	etite	(79	%) -	calc	ite (12%) - hematite (9%) ska	rn		
0-1'	80	5	15							Mag-cal skarn		Auger cuttings only, 0-4';	0-4.5'
1-2'	80	10	10							"			Non-mag wt %: 21.5
2-3'	75	10	15							"			Au: 0.008; Ag. 0.025
3-4'	80	10	10							"			Pt: 0.029; Mag: 71.67
4-5'	80	10	10							"			Fe in mag: 69.31
	5-8	3' C	ryst	allin	e lin	nesto	one,	min	or h	ematite (7%)			
5-6'		2	98							Xline limestone	Rare cal-hem vits	Ls bleached along vits	4.5-7.5'
6-7'		5	95							"; minor cal-hem	Cal-hem vlts, diss.	"	Au: 0.025
										disseminated, in vlts			Ag: 0.061
7-8'		15	85							Xline ls, cal-hem vlts	Calhem vlts flat, steep)	Pt: 0.009
	8-1	12'	Hem	atite	(80	%) -	calc	ite (20%) stockwork			
8-9'		80	20							Hem-cal stockwork	Brecciated	Complete replacement,	7.5-12'
												brecciation, fracture-filling	Au: 0.033
9-10'		80	20							"	"	"	Ag: 0.071
10-11'		80	20							"	"	"	Pt: 0.008
11-12'		80	20							"	"	п	
	12	-42'	Cry	stall	line	lime	ston	e; m	ino	r disseminated hema	ntite (4%)		
12-13'		5	95							Xline Is, minor hem di	Rare cal-hem vits		12-20'
13-14'		5	95							"	"		Au: 0.021
14-15'		5	95							"	"		Ag: 0.047
		5	95							"	"		Pt: 0.008
15-16'		5	95							"	"		
16-17'		5	95							"	"		
17-18'		5	95							Xline Is, minor hem	"		
										dissem, cal-hem vlts			
18-19'		5	95							"	"		

FOOTAGE				NAIN.	IED	A1 C				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
FOOTAGE					IER/	ALS		1		ITPE	IEXTURE	REWARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
19-20'		5	95							"	"		
20-21'		5	95							Xline Is, minor hem	Rare cal-hem vlts		20-30'
										dissem, cal-hem vlts			Au: 0.010
21-22'		5	95							"	"		Ag: 0.214
22-23'		5	95							"	"		Pt: 0.034
23-24'		5	95							"	"		
24-25'		5	95							"	"		
25-26'		5	95							"	"	Bleaching along cal-hem vits	3
26-27'		5	95							"	"		
27-28'		5	95							"	"		
28-29'		5	95							"	"		
29-30'		5	95							"	"		
30-31'		5	95							"	"		30-40'
31-32'		10	90							Xline Is, cal-hem stk	Stockwork weak		Au: 0.007
32-33'		5	95							"	"		Ag: 0.133
33-34'		2	98							"	"		Pt: 0.009
34-35'			100							Xline Is	Contact of stkwk zone	1	
											dips ~75°		
35-36'		2	98							Xline Is, minor cal-			
20. 27!		0	00							hem vlts			
36-37' 37-38'		2	98 98							,,		20/ diagominated pyrita	
37-36 38-39'		2	100							Xline Is		2% disseminated pyrite	
39-40'		2	98							" ; minor hem dissem	l		
40-41'		2	98							"			40-50'
41-42'			100							Xline Is		2% disseminated pyrite	Au: 0.008
	42	-48'	No	core)								
42-43'							1		Γ	Fault gouge		Orange color, possibly hem	Ag: 0.010
43-44'										and grage			Pt: 0.020
44-45'													
45-46'													
46-47'													
47-48'													
	48	-51'	Qua	artz	sand	dsto	ne w	ith c	alci	te cement; minor dis	sseminated hematite	(13%)	
48-49'		10	15			75				Qtz ss, cal cement	Hem in clusters		
49-50'		15	15			70				"	"		
50-51'		15	15			70				"			50-55'
	51	-61'	Dio	psic	le (4	0%)	- cal	cite	(329	%) - hematite (24%) s	skarn		
51-52'		30	60	5		5				Cal-hem skarn	Hem diss throughout		Au: 0.016
52-53'		25	15		50	5				Diopside-hem-cal skr	-		Ag: 0.039
53-54'		20	20			5				"	Hem in clusters, vlts		Pt: 0.008
54-55'		20	20	5	50	5				"	"	2% pyrite with calcite	
55-56'		20	20		55	5				"	"		55-60'
56-57'		25	25		50					"	"		Au: 0.012
57-58'		25	20		55					"	"		Ag: 0.682
58-59'		25	25		50					"	"		Pt: 0.013
59-60'		25	50		25					Cal-diop-hem skn	"		

FOOTAGE				MIN	NER/	ΔI S				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
OOTAGE	4			Ī							TEXTORE	KEMAKKO	N.EGOETO
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
60-61'	_	25	65	Ë	10	_	Ė			"	"		60-65'
	61	-69'		psic	le (8	4%)	- cal	cite	(10%	6) skarn; minor hem	atite (5%)		
					·				· · ·				
61-62'		5	15		80					Diop-cal skn			Au: 0.008
62-63'		5	5	5	85					Diop skn			Ag: 0.029
63-64'		5	20		75					Diop-cal skn			Pt: 0.008
64-65'		5	5		90					Diop skn			CE 701
65-66'		5	5		90								65-70'
66-67'		5	5		90 90					"			Au: 0018
67-68' 68-69'		5 5	5 20		75					Dian aal akn			Ag: 0.049 Pt: 0.021
00-09						<i></i>		_		Diop-cal skn			Pt. 0.021
	69	-74'	Phi	ogo	pite	(73%	6) - C	alcı	te (1	4%) skarn; minor he	matite (9%)		
69-70'		10	15	70	5					Phlog-cal skn			
70-71'		10	15	70	5					"			70-75'
71-72'		10	15	70	5					n .			Non-mag wt %: 82.3
72-73'		10	15	70	5					n .			Au: 0.007
73-74'		5	10	85						Phlog skn			Ag: 0.012
	74	-78'	Dio	psic	le (3	8%)	- cal	cite	(34%	%) - phlogopite (16%)	- hematite (10%) ska	arn	
74-75'		10	50		40					Cal-diop skn			Pt: 0.032
75-76'		10	50		40					"			75-80'
76-77'		10	20	10	55	5				Diop-cal skn			Non-mag wt %: 71.9
77-78'		10	15	55	15	5				Phlog-diop-cal skn			Au: 0.007; Ag: 0.018
	78	-80'	Cal	cite	(25%	%) - c	diop	side	(20%	%) - magnetite (20%)	- hematite (18%) - ph	logopite (18%) skarn	
78-79'	20	15	15	25	25					Phlog-diop-mag-hem-	Layered (flat)		Pt: 0.025
										cal skn			Mag: 16.12
79-80'	20	20	35	10	15				(Cal-mag-hem-diop skr	1		Fe in mag: 67.06
	80	-109)' Ма	agne	etite	(62%	6) - c	alci	te (1	2%) - diopside (11%)	skarn; minor hemat	ite (6%)	
80-81'	75	5	5					15		Mag-tremolite skn			80-85'
81-82'	70	5	10	5				10		Magnetite skn			Non-mag wt %: 33.6
82-83'	70	5	10	5				10		"			Au: 0.009; Ag: 0.015
83-84'	70	5	10	5				10		"			Pt: 0.033; Mag: 49.89
84-85'	55	5	10	5	15			10		Mag-diop skn			Fe in mag: 65.56
85-86'	65	5	15	5	5			5		Mag-cal skn			85-90'
86-87'	85		10	5						Magnetite skn			Non-mag wt %: 20.5
87-88'	80	5	15							"			Au: 0.008; Ag: 0.080
88-89'	80	5	15							<u>"</u>			Pt: 0.040; Mag: 67.19
89-90'	45	5	15	15		5				الاهg-cal-phlog diop skر ا	า		Fe in mag: 66.68
90-91'	65	5	10	10	10					Mag skn			90-95'
91-92'	90	5	5		_					, <u>"</u> .			Non-mag wt %: 23.9
92-93'	75 70	5	5		15					Mag-diop skn	0-11 " (0.0		Au: 0.010; Ag: 0.090
93-94'	70	10			20					Man dia l - l	Cal-hem vlts (flat)		Pt: 0.035; Mag: 63.17
94-95'	50 75	10	20		20					Mag-diop-cal skn			Fe in mag: 55.35 95-100'
95-96' 96-97'	75 80	15 5	10 5		5			_		Mag-hem skn Mag skn			95-100 Non-mag wt %: 52.3
I 30-31	ου	ا ت	J	I	l o		1	l ³	I	ividy SKII			14011-111ay Wt 70. 52.3

FOOTAGE				MIN	NER	A1 C				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
FOOTAGE				Т	NEK.	ALS				IIFE	TEXTURE	KEWIAKKS	RESULIS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
97-98'	70	5	5	5	10			5		"	Cal-hem vits		Au: 0.008; Ag: 0.078
98-99'	75		5		20					Mag-diop skn	Cal-hem vlts		Pt: 0.042; Mag: 56.62
99-100'	15	15	50		20					Cal-diop-mag-hem skr	n		Fe in mag: 66.52
100-101'	70	5	10		15					Mag-diop skn			100-105'
101-102'	60		15		25					Mag-diop-cal skn			Non-mag wt %: 50.1
102-103'	10	5	20		65					Diop-cal skn			Au: 0.008; Ag: 0.025
103-104'	10	5	15	5	65					H .			Pt: 0.025; Mag: 41.20
104-105'	60	5	10	10				5		Mag skn	Layered (flat)		Fe in mag: 69.47
105-106'	5	5		90						Phlogo skn	n .		105-109'
106-107'	75	5	15	5						Mag skn	Cal-hem vlts (flat)		Non-mag wt %: 51.1
107-108'	80	5	15							Mag-cal skn	n .		Au: 0.007; Ag: 0.035
108-109'	75	5	20							"	"		Pt: 0.028; Mag: 40.22
													Fe in mag: 69.55
	10	9-11	2' (Crys	tallir	ne lin	nest	one					
109-110'			100							Cystalline limestone		2% dissem. Pyrite	109-118'
110-111'			100							"		II .	Au: 0.015
111-112'			100							"		II .	Ag: 0.029
	11:	2-11	8' (Quar	tz sa	ands	tone	; mi	nor	disseminated hemat	ite (7%)		
112-113'		10	60			30				Qtz ss, cal cement,	Hem dissem.		Pt: 0.009
										minor hematite			
113-114'		15				70			15	Qtz ss, clay matrix,	"		
										minor hematite			
114-115'		5				80			15	Qtz ss, clay matrix	"		
115-116'						100				Quartz sandstone	"		
116-117'		5				85			10	Qtz ss, clay matrix	"		
117-118'		5				90			5	"	"		
END OF HO	LE												

DRILL HOLE: EC-05-03

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,566/3,720,091

Elevation: 6,853' Inclination: -90°

Date started: April 21, 2005 Date completed: April 23, 2005

Depth: 133'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 7, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

·										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-1	15'	Mag	neti	ite (4	1 1%)) - h	ema	tite	(31%) - calcite (20%)	skarn; minor stockwork	•	
0-1'	35	40	20	5						Hem-mag-cal skarn		Auger cuttings only, 0-5'	0-5'
1-2'	35	40	20	5						"			Au: 0.011; Ag: 0.052
2-3'	35	40	20	5						"			Pt: 0.011
3-4'	35	40	20	5						"			Mag: 22.30
4-5'	35	40	20	5						"			Fe in mag: 66.84
5-6'	40	40	20							"			5-10'
6-7'	40	35	25							Mag-hem-cal skn/stk	Cal-hem vlts in wk stk		Non-mag wt %: 24.5
7-8'	40	35	25							"	"		Au: 0.005; Ag: 0.022
8-9'	40	30	25	5						"	Cal-hem vlts in mod stk		Pt: 0.010; Mag: 60.12
9-10'	45	25	25	5						Mag-hem-cal skn			Fe in mag: 67.95
10-11'	50	25	20	5						"			10-14'
11-12'	45	20	30	5						Mag-cal-hem skn	Numerous cal-hem-		Non-mag wt %: 43.0
											phlogo vlts		Au: 0008; Ag: 0.057
12-13'	60	30	10							Mag-hem skn	Massive texture		Pt: 0.044; Mag: 34.97
13-14'	60	15			5					Mag-cal-hem skn/stk	Cal-hem vlts in wk stk		Fe in mag: 68.43
14-15'	20	5	20	5	50					Diop-mag-cal skn			14-20'
	15	-23'	Ca	lcite	(54	%) -	dio	psid	e (2	6%) - hematite (14%)	skarn		
15-16'		15	75	5		5				Cal-hem skn	Hem dissem.		Au: 0.012
16-17'		20	70		10					"	"		Ag: 0.044
17-18'		20	20		55	5				Diop-hem-cal skn	"		Pt: 0.019
18-19'		20	15		65					"	" ; banded (flat)		
19-20'		10	20	5	65					Diop-cal skn			
20-21'		10	80							Cal skn			20-23'
21-22'		10	80	10						"			Au: 0.011; Ag: 0.040
22-23'		10	70	10	10					n .			Pt: 0.010

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
23-24'													
24-25'													
25-26'	23	-28'	No	cor	е								
26-27'													
27-28'													
	28	-33'	Ca	lcite	(82	%) -	hen	natit	e (1	5%) skarn			
28-29'		15	85							Cal-hem skn	Hem dissem.		28-35'
29-30'		15	85							"	"		Au: 0.013
30-31'		15	85							"	"		Ag: 0.067
31-32'		15	85							"	"		Pt: 0.018
32-33'		15	70	5		10				"	n .		
	33	-48'	Die	opsi	de (59%) - m	nagn	etite	e (13%) - hematite (12	2%) - phlogopite (10%) s	karn	
33-34'	10	10	10	5	65					Diop skn	Hem dissem.		
34-35'	25	20	15	10	30				ı	Diop-mag-hem-cal skr	ı		
35-36'	10	10	10	5	65					Diop skn	Cal-hem in vlts		35-40'
36-37'	10	10	15		70	5				Diop-cal skn	" ; mag in clots		Au: 0.011; Ag: 0.240
37-38'	15	10	15	5	55					Diop-mag-cal skn	"		Pt: 0.010
38-39'	15	10	10	5	50	10				Diop-mag skn	"		Mag: 14.53
39-40'	10	10	15	10	50	5				Diop-cal skn	"		Fe in mag: 69.37
40-41'	10	10		5	75					Diop skn	"		40-45'
41-42'	10	10		5	75					"	"		Au: 0.007
42-43'	15	15		10	60					Diop-mag-hem skn	"		Ag: 0.077
43-44'	20	15		10	55					"	"		Pt: 0.015
44-45'		10		5	80					Diop-skn; hem in vlts			
45-46'	15	15		15	50	5				Diop-mag-hem-	Mag in clots		45-50'
						_				phlog skn	"		Au: 0.013
46-47'		15			50					"	"		Ag: 0.037
47-48'	15	15		-	50					ļ			Pt: 0.013
	48	-125	' D	iops	side	(58%	%) - -	calc	ite (24%) - hematite (12%) skarn		
48-49'			45		45					Cal-diop skn	Hem dissem.		Mag: 17.24
49-50'			35		55					Diop-cal skn	"		Fe in mag: 69.07
50-51'			30		50					Diop-cal-hem skn	"		50-58'
51-52'			30		50					"	"		Au: 0.012
52-53'			30		50					"	"		Ag: 0.030
53-54'			30		50					"	"		Pt: 0.014
54-55'			30		50					" "	"		
55-56'			30		50					"	"		
56-57'		15	30		50					<u>"</u>	"		
57-58'			30	_	50					" D:			50.05
58-59'			10		75 70					Diop skn "	 ,,		58-65'
59-60'		10			70 55					Dian cal alsa	,,		Au: 0.009
69-61'		10		5	55 65					Diop-cal skn	" · hondad /fl-t\		Ag: 0.028
61-62'			20 20		65 60					Diop-cal-hem skn	"; banded (flat)		Pt: 0.015
62-63' 63-64'				_	55					Diop-cal-hem skn	Qtz-hem vlt (70°)		
03-04		15	25	Э	၁၁								

										ROCK	STRUCTURE		ASSAY
FOOTAGE	1			MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	ite	je.		pite	e			ite					Au, Ag, Pt: opt
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Magnetite: % Fe in magnetite: %
64-65'	_	15	25	ъ	1	9	۳	┢	0	"	Cal-hem vlts (flat)		
65-66'		15	65		20					Cal-diop-hem skn	Hem diss, in vlt (40°)		65-70'
66-67'		15	20		75					Diop-cal skn	Tieni dios, iii vit (40)		Au: 0.010
67-68'		15	25		60					Diop-cal-hem skn	Hem diss, in vlt (45°)		Ag: 0.029
68-69'		20	25		55					"	, , , , , , , , , , , , , , , , , , , ,		Pt: 0.017
69-70'		20	30		50					"	Hem diss in vlts (flat)		
70-71'		20	25	5	45	5				"	"		70-75'
71-72'		10	20	10	_					Diop-cal skn	Hem diss; cal-hem vlts		Au: 0.009
										.,	(flat)		Ag: 0.027
72-73'		10	25	5	55	5				"	"		Pt: 0.019
73-74'		15	25		65					Diop-cal-hem skn	Cal-hem vlts cut diop (flat)		
74-75'		10	20		65	5				Diop-cal skn			
75-76'		15	25		55	5				Diop-cal-hem skn			75-80'
76-77'		10	25		65					Diop-cal skn			Au: 0.009
77-78'		10	25		65					. "			Ag: 0.025
78-79'		5	20	5	70					"			Pt: 0.023
79-80'		5	25	5	65					"			
80-81'		10	75		15					Cal-diop skn			80-85'
81-82'		5	25		70					Diop-cal skn			Au: 0.008
82-83'		10	25	10	50	5				. "			Ag: 0.022
83-84'		5	25	10	60	5				"			Pt: 0.008
84-85'		15	25	5	50	5				Diop-cal-hem skn	Massive texture		
85-86'		15	25	5	50	5				"	"		85-90'
86-87'		10	20		60	10				Diop-cal skn	Coarsely crystalline		Au: 0.006
87-88'		10	20		60	10				"	"		Ag: 0.025
88-89'		15	20		55	10				Diop-cal-hem skn	"		Pt: 0.009
89-90'		15	20		55	10				"	"		
90-91'		15	20		55	10				"	"		90-95'
91-92'	5	15	15		60	5				"	"		Au: 0.010
92-93'		15	15		65	5				"	"		Ag: <0.001
93-94'	5	15	25	5	45	5				"	"		Pt: 0.009
94-95'		15	25		55	5				"	"		
95-96'	10	10	20	5	40	15				Diop-cal-qtz skn	"		95-100'
96-97'	10		20		55	5				Diop-cal skn	"		Au: 0.009
97-98'	10		20		55	5				"	"		Ag: 0.028
98-99'		10	10		80					Diop skn			Pt: 0.021
99-100'	,	10	20	10	60					Diop-cal skn	Coarsely crystalline		
100-101'	5	10	15		65	5				"	"		100-105'
101-102'		5	5		85	5				Diop skn			Au: 0.013
102-103'	, J	10	15		70	5				Diop-cal skn	Cal vlts (45°)		Ag: 0.081
103-104'		20	20		60					Diop-cal-hem skn	Cal vlts (30°)		Pt: 0.040
104-105'	, J	10	15		75					Diop-cal skn	Cal vits		
105-106'		10	10		75	5				Diop skn	"		105-110'
107-107'	, J	10	10		80					"	"		Au: 0.019
107-108'		15	20		65					Diop-cal-hem skn	Cal vlts (45°)		Ag: 0.033
108-109'	, J	5	15		75					Diop-cal skn			Pt: 0.041
109-110'		10	30	5	50	5				"			

FOOTAGE				MIN	IER/	ALS				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
110-111'		10	30	5	45	10				"	Phlog, qtz, cal vlts (flat)		110-115'
111-112'		20	30		45	5				Diop-cal-hem skn			Au: 0.016
112-113'		10	20	20	45	5				Diop-cal-phlog skn			Ag: 0.025
113-114'		10	25		60	5				Diop-cal skn			Pt: 0.046
114-115'		15	25		35	15		10		Diop-cal-hem-qtz skn	Trem. In layer (flat)		
115-116'		25	30		40	5				Diop-cal-hem skn	Layered (flat)		115-120'
116-117'		10	30		50	10				Diop-cal skn	Hem dissem.		Au: 0.019
117-118'		15	40		40	5				Diop-cal-hem skn			Ag: 0.030
118-119'		5	25		70					Diop-cal skn	Layered (flat)		Pt: 0.044
119-120'		10	30		60					"	"		
120-121'		10	20		60	10				"			120-125'
121-122'		15	30		55					Diop-cal-hem skn	Hem dissem.		Au: 0.015
122-123'		5	20		75					Quartz sandstone	" ; cal-hem		Ag: 0.020
											replacement network		Pt: 0.047
123-124'		5	20		75					"	"		
124-125'		15	20		65					"	n .		
	12	5-13	3' (Qua	rtz (46%) - c	alcit	e (3	8%) - hematite (13%)	skarn		
125-126'		15	55		10	20				Cal-hem skn	Blotchy skn replacement,		125-130'
											remnant quartz ss		Au: 0,025
126-127'		15	20			65				Qtz ss	Hem dissem.; cal-hem		Ag: 0.019
											repl. network		Pt. 0.044
127-128'		5	15			80				Qtz-cal skn	Banded (flat)		
128-129'		10	40			50				"	"		
129-130'		15	85							Cal-hem skn	"; hem dissem.		
130-131'		15	35			40				Qtz-cal-hem skn	"		130-133'
131-132'		15	35			40				"	"		Au: 0.008; Ag: 0.018
132-133'		10	20			70				Qtz ss			Pt: 0.030
END OF HO	LE												

DRILL HOLE: EC-05-04

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,749/3,720,092

Elevation: 6,894' Inclination: -90°

Date started: April 6, 2005 **Date completed:** April 7, 2005

Depth: 38'

Core stored at: Capitan Storage, 406 2nd St, Capitan, NM, Unit 24-A. Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, M.S., Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Ph.D., P.Eng., Consulting geologist, Vancouver, B.C., Ca

One-quarter core shipped: by UPS Ground on April 22, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT, 84104

One-quarter	301	J 01								ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-4	5' M	agne	tite	(56%	%) -	calc	ite (21%) - hematite (20%) sk	arn		
0-1'	55	20	20	5						Magnetite-hematite-		Auger cuttings only, 0-4'	0-4'
										calcite skarn			Non-mag wt %: 30.9
1-2'	55	20	20	5						"			Au: 0.125
2-3'	55	20	23	2						"			Ag: 0.011; Pt: 0.000
3-4'	55	20	23	2						"			Mag: 60.53
4-5'	60	20	18	2						II .			Fe in mag: 68.27
5-6'		- , .,											
6-7'	4-	/· N	о со	re									
	7-:	38' (Cryst	allin	e lir	nes	tone	; mi	nor	disseminated hemat	ite (5%)		
7-8'	5	5	90							Crysttalline limestone	Calcite veinlets, minor		7-15'
										minor hem. dissem.	mag. hem; banded		Au: 0.041
8-9'		5	95							"	gray, white		Ag: 0.268
9-10'		5	95							"			Pt: 0.009
10-11'		2	98							п			
11-12'		2	98							"		2% finely dissem. pyrite	
12-13'		2	98							п	Banded gray, white	" pynte	
13-14'		20	75	5						Calcite -hematite	Cal-hem stockwork		
13-14		20	75	5						stockwork in xline Is			
44.451		_	0.5								(moderate)		
14-15'		5	95							Xline Is, minor cal-	Cal-hem stkwk (weak)		
										hem stockwork			
15-16'		5	95							Xline ls, minor cal-hen			15-20'
										in veinlets	vuggy; banded		Au: 0.019
16-17'		5	95							"			Ag: 0.000
17-18'		5	95							"			Pt: 0.006
18-19'		5	95							"			

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
19-20'		5	95							u u			
20-21'		5	95						,	Xline Is, minor cal-hen	า		20-30'
										in veinlets			Au: 0.030
21-22'		5	95							II			Ag: 0.964
22-23'		5	95							u u			Pt: 0.008
23-24'		5	95							"			
24-25'		5	95							"	Minor cal-hem		
											veinlets; vuggy		
25-26'		5	95							"	"		
26-27'		10	90							"	"		
27-28'		5	95							"	Cal-hem in narrow		
											bands (flat) and dissem	<u>.</u>	
28-29'		5	95							"	"		
29-30'		5	95							"	"		
30-31'		5	95						2	Xline Is, minor cal-hen	Massive, white		30-38'
										in veinlets, dissem.			Au: 0.017
31-32'		5	95							"			Ag: 0.324
32-33'		2	98							Xline Is, minor	Massive, gray		Pt: 0.007
										dissem. hem.			
33-34'		2	98							II .	Minor cal veinlets		
34-35'			100							Xline Is		2% pyrite dissem.	
35-36'		2	98							Xline ls, minor cal-hen	Cal-hem in veinlets,	Hem dissem. marginal to	
										in veinlets, dissem.	dissem.	cal-hem veinlets; not	
												primary but introduced	
36-37'		2	98							"	"		
37-38'		5	95							"	"		
END OF HO	LE												

DRILL HOLE: EC-05-04A (Core)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,750/3,720,092

Elevation: 6,895' Inclination: -90°

Date started: June 26,2005 Date completed: June 29, 2005

Depth: 136' (assayed and logged: 38-136')

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter core shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One quai										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				•
	38	-46'	Cry	stal	line	lime	esto	ne; ı	mino	or disseminated hematite	e (5%)		
38-39'		5	95							Xline Is, minor cal-	Cal-hem in vlts, dissem	Hem. most abundant in	38-46'
										hem in vlts, dissem.		fract. fillings: introduced	Au: 0.006
39-40'		5	95							"	"	1% pyrrhotite, dissem.	Ag: 0.000
40-41'		5	95							"	" ; 60° veinlet	"	Pt: 0.004
41-42'		2	98							II .		1% sphalerite, dissem.	
42-43'		5	95							"	Cal-hem in vlts, dissem.		
43-44'		5	95							"	Banded, flat		
44-45'		10	90							"	Cal-hem vlts, 30°	1% pyrr., dissem.	
45-46'		2	98							"	Banded, 40°	5% pyrr., dissem.	
	46	-87'	Dio	psic	de (3	5%)	- ca	alcite	e (31	%) - hematite (24%) skar	'n		
46-47'		25	55		15	5				Cal-hem-diop skn	Hem evenly dissem.		46-50'
47-48'		45	50		5					Cal-hem-diop skn	" ; vuggy		Au: 0.014
48-49'		45	30		20	5				Hem-cal skn	" ; vuggy		Ag: 0.054
49-50'		50	40		5	5				Hem-cal skn	Hem evenly dissem.		Pt: 0.004
50-51'		30	35		30	5				Cal-hem-diop skn	Vuggy; banded 40°		50-55'
51-52'		35	25		35	5				Hem-diop-cal skn	Vuggy		Au: 0.015
52-53'		35	20	5	35	5				"	Banded, flat		Ag: 0.040
53-54'		30	15		35	20				Diop-hem-qtz skn	Hem evenly dissem.		Pt. 0.003
54-55'		30	5		60	5				Diop-hem skn	"		
55-56'		30	5		60	5				"	n		55-60'
56-57'		25	60		15					Cal-hem-diop skn	"		Au: 0.020
57-58'		30	35		35					Cal-diop-hem skn	" ; banded, flat		Ag: 0.062
58-59'		30	35		35					u u	"		Pt: 0.005
59-60'		20	60			20				Cal-hem-qtz skn	"		
60-61'		25	60	10		5				Cal-hem skn	" ; banded, flat		60-65'
61-62'		20				5				"	"		Au: 0.017
62-63'		15		5						11	"		Ag: 0.048
63-64'			55			15				Cal-hem-phlog-qtz skn	"		Pt. 0.004

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	etit	atite	Ę.	jopi	side	Z	ite	ojite					
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				
04.051	Δ		-	5	40		_	_	0	Diam and have also	,,		-
64-65' 65-66'		15 35	35 30	ວ 10	20	5 5				Diop-cal-hem skn Hem-cal-diop skn	"		65-70'
66-67'		30	20	40	10	5				Phlog-hem-cal skn	"		Au: 0.022
67-68'		30	35	40 5	30					Cal-hem-diop skn	"		Ag: 0.035
68-69'		20	20	J	60					Diop-hem-cal skn	"		Pt. 0.007
69-70'		20	5		65	10				Diop-hem skn	Hem evenly dissem.		1 1. 0.007
70-71'		30	10	5	50	5				Diop-hem-cal skn	"		70-75'
71-72'		30	15	Ü	50	5				"	"		Au: 0.018
72-73'		15	15		60					"	" ; banded, flat		Ag: 0.034
73-74'		20	60	5	15					Cal-hem-diop skn	Hem-cal vlts, flat		Pt. 0.006
74-75'		20	75	Ü	5					Cal-hem skn	"		1 1. 0.000
75-76'		20	20		55	5				Diop-hem-cal skn			75-80'
76-77'		20	20		55	5				"			Au: 0.013
77-78'		20	60		20					Cal-hem-diop skn	Diop-cal-hem vlts, 45°		Ag: 0.098
78-79'		20	20	5	50	5				· ·	Coarsely xline, massive		Pt: 0.009
79-80'		20			75	5				Diop-hem skn	"		
80-81'		20	20	5	50	5				Diop-hem-cal skn	"		80-85'
81-82'		10	15	5	65	5				Diop-cal skn	n n		Non-mag wt %: 78.4
82-83'	15		15	10	55					Diop-mag-cal skn			Au: 0.029
83-84'		20	10	5	65					"			Ag: 0.112
84-85'		15	15	5	65					Diop-hem-cal skn			Pt. 0.018
85-86'		10	20	5	55	10				*	Coarsely xline, massive		85-89'
86-87'	20	15	5	10	45	5				Diop-mag-hem skn	Cal-hem vits, flat		Non-mag wt %: 19.3
	87	-89'	Mad	net	tite (65%	5) - h	ema	atite	(18%) - calcite (10%) ska			
				_			<u>, </u>						,
87-88'		20								Mag-hem skn	Massive		Au: 0.033
88-89'	60	15	10	15						Mag-hem-phlog skn			Ag: 0.202
	89	-118	' Di	ops	ide (55%	6) - h	nema	atite	(20%) - calcite (14%) ska	ı		
89-90'	20	20	10	10	40				Г	Diop-mag-hem-cal-phlog sk	Cal vits		Pt: 0.020
90-91'		15	10		75					Diop-hem-cal skn	"		90-95'
91-92'		15	15	20	50					"			Au: 0.019
92-93'		20	15		65					II .			Ag: 0.075
93-94'	5	20	20	5	50					u u			Pt: 0.017
94-95'		25	5	5	65					Diop-hem skn			
95-96'	10		10	10	50					i Diop-mag-hem-cal-phlog sk	Banded, flat		96-100'
96-97'		20	15	5	60					Diop-hem-cal skn	·		Non-mag wt %: 81.8
97-98'	5	20	5	10	60					Diop-hem-phlog skn	Massive		Au: 0.022
98-99'		20	5		75					Diop-hem skn	"		Ag: 0.063
99-100'		15	5		80					"	"		Pt: 0.025
100-101'	10	20	20	10	40					' Diop-hem-cal-mag-phlog sk	Banded, flat;		100-105'
											cal vits, flat		Au: 0.012
101-102'		60		40						Hem-diop skn	Diop-hem vlt, flat		Ag: 0.060
102-103'		20	30	5	45					Diop-cal-hem skn	Hem evenly dissem.		Pt: 0.022
103-104'		30	10		60					Diop-hem-cal skn	"	2% gypsum (?)	
104-105'		25	25	5	45					"	"		
105-106'		25	25		50					II			105-111'
106-107'	5	20	15	5	55					:	Banded, flat;		Non-mag wt %: 55.4

										ROCK	STRUCTURE		ASSAY
FOOTAGE				МІМ	NER/	ΔIS				TYPE	TEXTURE	REMARKS	RESULTS
OOTAGE						L					TEXTORE	KEMAKKO	KEGGETG
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	^				•
	Maç	Hen	Cal	Phl	Dio	gus	Flu	Tre	Clay				
											cal vlts, flat		
107-108'		20	20		60					u u	Coarsely xline, massive		Au: 0.037
108-109'		20	25	5	50					u u	Banded, flat		Ag: 0.335
109-110'	30	5	5	15	45					Diop-mag-phlog skn	"		Pt: 0.023
110-111'	20	15	5		60					Diop-mag-hem skn		2% gypsum (?)	
111-112'		20	25		45	10				Diop-cal-hem-qtz skn	Vuggy		111-115'
112-113;		20	30	5	45					Diop-cal-hem skn	Banded, flat		Au: 0.011
113-114'		15	5	5	75					Diop-hem skn	Vuggy		Ag: 0.029
114-115'	5	10	10	20	55					Diop-phlog-hem-cal skn	Banded, flat		Pt. 0.024
115-116'		10	10		80					Diop-hem-cal skn	Medium-grained		115-120'
116-117'		10	20		70					Diop-cal-hem skn	"		Au: 0.011
117-118'		20	25		40	15				Diop-cal-hem-qtz skn	Banded, flat	Hem stained cal, cream-tan	Ag: 0.035
	11	8- 1:	36' (Qua	rtz s	and	stor	ne w	ith c	alcite cement, dissemina	ated hematite (11%): m	ninor diopside (17%) skarn	-
118-119'		2	13			85				Qtz ss	Hem dissem.	Cal cement	Pt. 0.027
119-120'		15	25			60				II .	"	" ; hem dissem.	
120-121'		15	25		30	30				Diop-qtz-cal-hem skn	"	Skarnitized qtz ss	120-125'
121-122'		10	15			75				Qtz ss	"	Cal cement	Au: 0.009
122-123'		10	25		20	45				Qtz-cal-diop-hem skn	Hem dissem.	Hem-stained cal, cream-tan	Ag: 0.020
												skarnitized qtz ss;	Pt: 0.028
												banded, flat	
123-124'		15	15			60				Qtz ss	"		
124-125'		15				85				Qtz ss; weak stockwork	Hem fract filling, replace	<u>-</u>	
											ment; weak stockwork		
125-126'		15	25		30	30				Diop-qtz-cal-hem skn	Mottled repl. texture	Skarnitized qtz ss	125-130'
126-127'		10	20		35	35				II .	" ; banded, flat	"	Au: 0.010
127-128'		10	30		5	55				Qtz ss	"	"	Ag: 0.015
128-129'		10	30			60				"	Mottled texture		Pt: 0.028
129-130'		10	5			85				"	"		
130-131'		5	5			90				"			130-136'
131-132'		5	5		20	70				Diopside altered qtz ss	Banded, flat;	Skarnitized qtz ss	Au: 0.008
											cal vlts, flat		Ag: 0.087
132-133'		20	5		20	55				II .		"	Pt. 0.027
133-134'		2	18		80					Diop-qtz skn	Banded, flat	"	
134-135'		5	10		40	45				Diopside altered qtz ss	"	"	
135-136'		15	15		30	40				II	Cal-hem vlts, 50°		
END OF H	HOLI	E											

DRILL HOLE: EC-05-05

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,433/3,719,961

Elevation: 6,817' Inclination: -90°

Date started: April 26, 2005 **Date completed:** April 28, 2005

Depth: 103.5' (lost)

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 2, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

			•							ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in
	0-1	0'	Mag	jneti	ite (6	65%)) - h	ema	tite	(18%) - calcite (17%) sk	arn		
0-1'	75	10	15							Magnetite-calcite skn		Auger cuttings and small	0-5'
												chunks only, 0-9'	Non-mag wt%: 35.9
1-2'	80	10	10							n .		Ferruginous silica	Au: 0.013
												(jasper) in some chunks	Ag: 0.023
2-3'	80	10	10							"		"	Pt: 0.019
3-4'	80	10	10							"			Mag: 46.02
4-5'	60	20	20							Mag-hem-cal skn			Fe in mag: 63.97
5-6'	50	30	20							"			5-10'
6-7'	50	30	20							"			Au: 0.006; Ag: 0.026
7-8'	50	30	20							"			Pt: 0.016
8-9'	60	20	20							"			Mag: 20.54
9-10'	65	10	25							Mag-cal skarn			Fe in mag: 67.87
	10	-15'	Ca	lcite	(52	%) -	hen	natit	e (4	4%) skarn			
10-11'		50	50							Hem-cal skn			10-15'
11-12'		50	45			5				n .	Hem dissem.		Au: 0.006
12-13'		40	55			5				Cal-hem skn	"; cal vlts (flat)		Ag: 0.030
13-14'		40	55			5				n .			Pt: 0.015
14-15'		40	55			5				п			
	15	-41'	Ма	gne	tite	(42%	%) - I	nem	atite	(29%) - calcite (24%) s	skarn		
15-16'	40	50	10							Hem-mag skn			15-20'
16-17'	30	50	20							Hem-mag-cal skn			Au: 0.004; Ag: 0.011
17-18'	40	30	30							Mag-hem-cal skn			Pt: 0.002
18-19'	40	30	30							"			Mag: 28.72
19-20'	40	30	20	5		5				"	Cal-hem vlts		Fe in mag: 59.66
20-21'	20	30	35	15						. Cal-hem-mag-phlog skr	u u		20-25'
21-22'	30	65	5							Hem-mag skn	Massive specular		Non-mag wt%: 54.5
											hematite		Au: 0.006; Ag: 0.019

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	tite	9	Phlogopite	ide	2	te	Tremolite					Au, Ag, Pt: opt
	agn	Hematite	Calcite	log	Diopside	Quartz	Fluorite	e II	Clay				Magnetite: % Fe in
	Ĕ	¥	င်း	Ы	ΙQ	ŏ	Ē	Ĭ	ច				-
22-23'	30	65	5							Hem-mag skn	Massive spec hem		Pt: 0.016
23-24'	30	65								"	"		Mag: 24.51
24-25'	35	50	15							Hem-mag-cal skn	" ; banded (flat)		Fe in mag: 64.84
25-26'	60	20	20							Mag-hem-cal skn	Massive spec hem		25-30'
26-27'	45	20	30			5				Mag-cal-hem skn	Layered (flat)		Non-mag wt%: 32.0
27-28'	55	20								"	"		Au: 0.017; Ag: 0.031
28-29'	50	20								"	Layered (contorted)		Pt: 0.016; Mag: 43.80
29-30'	45	20									"		Fe in mag: 62.53
30-31'	25	35				5				Cal-hem-mag skn	"		30-35'
31-32'	30	30	30	5		5				Mag-hem-cal skn	1" cal vein (40°)		Non-mag wt%: 53.2
32-33'	45	30								"			Au: 0.009; Ag: 0.035
33-34'	65	10								Mag-cal skn	Banded (flat)		Pt: 0.015; Mag: 45.27
34-35'	60	15		5						Mag-hem-cal skn	Cal vlts (45°)		Fe in mag: 62.53
35-36'	75	5	15	5						Mag-cal skn			35-41'
36-37'	65	5	20	10						"			Non-mag wt%: 49.2
37-38'	30	20	50							Cal-mag-hem skn	Banded (flat)		Au: 0.020; Ag: 0.032
38-39'	40	15	45							"	"		Pt: 0.014
39-40'	30	20	35	15						Cal-mag-hem-phlog ski	ı		Mag: 39.93
40-41'	35	15	30	15		5				Mag-cal-hem-phlog skr	1		Fe in mag: 67.32
	41	-45'	Ca	alcit	e (49	9%)	- ph	logo	pite	(30%) - hematite (15%	s) skarn		
44.40		4.5		-00			I		I				44.451
41-42'			55							Cal-phlog-hem skn	Hem dissem		41-45'
42-43'			55			40					!!		Au: 0.006
43-44'			45			10				Cal phlag ham at alm	" ; qtz vlt (flat)		Ag: 0.252
44-45' 45-46'	45	15 -47 '		30 cor		15				Cal-phlog-hem-qtz skn			Pt: 0.000
46-47'	43	-41	140	COI	•								
	47	-56'	Die	opsi	de (38%) - c	alcit	e (2	5%) - phlogopite (17%) - hematite (11%) - quartz	(10%) skarn	
				•	•		,		•	3-p - ()	, , , , , , , , , , , , , , , , , , , ,	(11, 11	
47-48'		15	40	45						Phlog-cal-hem skn			47-50'
48-49'		10	25	10	45	10				Diop-cal skn			Au: 0.010; Ag: 0.019
49-50'		5	20	5	60	10				"			Pt: 0.008
50-51'		10	20	15	50	5				Diop-cal-phlog skn			50-55'
51-52'		10	20	5	45	20				Diop-cal-qtz skn	Qtz in irregular vlts		Au: 0.001
52-53'		10	25	25	35	5				Diop-cal-phlog skn	Qtz vlt (flat)		Ag: 0.126
53-54'		10	30	30	20	10				Cal-phlog-diop skn			Pt. 0.000
54-55'		10	25	5	50	10				Diop-cal skn			
55-56'		10	20	10	40	20	L	L		Diop-cal-qtz skn	Banded (flat)		55-60'
	56	-92'	Die	opsi	de (51%) - c	alcit	e (2	4%) - quartz (16%) - he	matite (12%) skarn		
56-57'		5	25		55	15		I		Diop-cal-qtz skn	Banded (flat)		Au: 0.010
57-58'		5	20		55	20				"	Cal-hem vlt (45°)		Ag: 0.041
58-59'		5	20		60	15				"			Pt. 0.014
59-60'		5	20		60	15				"			
60-61'		10			50	20				"			60-65'
61-62'		10	25		35	30				Diop-qtz-cal skn	irreg cal-hem vits; wk stkwł	Relic qtz ss texture -	Au: 0.014
1											L	possibly replaced ss	Ag: 0.018
62-63'		10	30		35	30	l			Diop-qtz-cal skn	Blotchy patches of cal-hem	Relic qtz ss texture -	Pt. 0.017

FOOTAGE				MIN	IER	AI C				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
FOOTAGE					IEK/	ALS				TIPE	TEXTURE	KEWIAKKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in
												possibly replaced ss	
63-64'			25		50	25				"		, , ,	
64-65'		5	20		60					Diop-cal-qtz skn			
65-66'		5	15	10	60	10				Diop-cal skn			65-70'
66-67'		10	20		55	15				Diop-cal-qtz skn			Au: 0.014
67-68'		15	20		45	20				Diop-cal-qtz-hem skn			Ag: 0.766
68-69'		15	20		50	15				"	Layered (flat)		Pt: 0.022
69-70'		15	20		50	15				"			
70-71'		10	25		50	15				Diop-cal-qtz skn			70-75'
71-72'		20	35		35	10				Diop-cal-hem skn	Hem dissem.		Au: 0.013
72-73'		15	25		50	10				"	Qtz vlts (35°)		Ag: 0.226
73-74'		20	25		50	5				"			Pt: 0.006
74-75'		10	25		50	15				Diop-cal-qtz skn			
75-76'		15	20		45	20				Diop-cal-qtz-hem skn	Qtz vlts (flat)		75-80'
76-77'		15	20		45	20				"			Au: 0.010
77-78'		10	20		55	15				Diop-cal-qtz skn			Ag: 0.380
78-79'		10	20		55	15							Pt: 0.000
79-80'		10	20	5	55	10				Diop-cal skn			
80-81'		10	20		60	10				"			80-85'
81-82'		5	20	5	55	15				Diop-cal-qtz skn			Au: 0.015
82-83'		10	25	5	45	15				"	Vuggy texture		Ag: 0.207
83-84' 84-85'		10 10	20 20		55 55	15 15				Diop-cal-qtz skn "	"		Pt: 0.000
85-86'		15	20		50	15				Diop-cal-qtz-hem skn	"		85-90'
86-87'		20	20		45	15				Diop-cal-hem-qtz skn	II .		Au: 0.010
87-88'		25	20		40	15				*	Cal-hem vlts (35°); hem in		Ag: 0.164
											clots, clusters		Pt: 0.000
88-89'		25	35		35	10				Diop-cal-hem skn	Vuggy texture	Cal-hem reaction front	
												against diop-cal-qtz skn	
89-90'		15				10				"	Cal-hem vlts (30°)		
90-91'			30		45								90-95'
91-92'	02	15	30	loite	40	_	bon	20414	o (1	Diop-cal-hem-qtz skn	Vuggy texture		Au: 0.010
	32	-97'	Сă	icite	(10	/o j -	nen	ıatil	e (1	3%) skarn			
92-93'		20	75			5				Cal-hem skn			Ag: 0.030
93-94'		15	80			5				"			Pt: 0.007
94-95'		5	80			15				Cal-qtz skn			
96-96'		10	80			10				Cal skn			95-100'
96-97'		15	75	5		5				Cal-hem skn			
	97	-103	.5' I	Diop	side	e (39	9%)-	cald	ite (37%) - hematite (12%)	skarn		
97-98'		15	40		35	10				Cal-diop-hem skn			Au: 0.010
98-99'			40		35					"			Ag: 0.060
99-100'		15	40		35					"			Pt: 0.007
100-101'		10	40		45					Diop-cal skn			100-103.5'
101-102'		5	45		45					"			Au: 0.007
102-103'		15	35	5	35					Diop-cal-hem skn	Vuggy texture		Ag: 0.031
103-103.5'	10		20	10			L		L	Diop-cal skn			Pt: 0.003
END OF H													

DRILL HOLE: EC-05-06

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,558/3,719,961

Elevation: 6,815' Inclination: -90°

Date started: April 28, 2005 Date completed: April 29, 2005

Depth: 81'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 2, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

		_			_		_	_		ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-5	5' N	lagn	etite	(40	%) -	cald	cite	(35%	s) - hematite (20%) sl	karn		
0-1'	40	20	35	5						Mag-cal-hem skarn		Auger cuttings only, 0-14'	0-5'
1-2'	40	20	35	5						"			Non-mag wt %: 74.2
2-3'	40	20	35	5						"			Au: 0.552; Ag: 0.181
3-4'	40	20	35	5						"			Pt: 0.003; Mag: 16.74
4-5'	40	20	35	5						"			Fe in mag: 69.23
	5-1	10'	Calc	ite (70%) - m	nagn	etite	e (20	%) skarn; minor hen	natite (5%)		
5-6'	20	5	70	5						Cal-mag skarn			5-10'
6-7'	20	5	70	5						"			Non-mag wt %: 56.8
7-8'	20	5	70	5						"			Au: 0.060; Ag: 0.041
8-9'	20	5	70	5						"			Pt: 0.010; Mag: 34.68
9-10'	20	5	70	5						"			Fe in mag: 67.32
	10)-17'	Ма	gne	tite	(51%	6) - (calci	te (3	0%) skarn; minor he	ematite (8%)		
10-11'	70	5	20	5						Mag-cal skarn			10-15'
11-12'	70	5	20	5						"			Non-mag wt %: 44.0
12-13'	70	5	20	5						"			Au: 0.031
13-14'	70	5	20	5						"			Ag: 0.026
14-15'		15	40			45				Cal-hem skn, qtz ss	Cal-hem vlts (flat);	This interval is a mixture of	Pt: 0.000
											hem dissem.	cal-hem skn and	Mag: 43.13
												quartz sandstone	Fe in mag: 68.51
15-16'	40	10	45	5						Mag-cal skn, cal-hem	1" cal-mag breccia (flat)	Mixture of mag-cal skn,	15-21'
										skarn		cal-hem skn	Au: 0.007
16-17'	40	10	45	5						"	II	II	Ag: 0.025

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	Σ	I							-				
	17	-27'	Cal	cite	(889	%) -	hem	atite	e (12	%) skarn			
17-18'		10	90							Cal skn	Cal-filled vugs; 1" cal-		Pt: 0.000
											mag breccia (flat)		
18-19'		20	80							Cal-hem skn	1/2" cal-hem breccia		
											(flat); cal filled vugs		
19-20'		15	85							"	Cal-hem vlt (45°)		
20-21'		25	75							Cal-hem skn/stkwk			
											vits up to 1/2 " (most flat)	 	
21-22'		5	95							Cal skn	Hem dissem.		21-27'
22-23'		5	95							"			Au: 0.009
23-24'		10	90							"	" ; cal vlts (flat)		Ag: 0.022
24-25'		10	90							"			Pt: 0.007
25-26'		10	90							"	Hem diss in patches;		
00.07		10	00							,,	cal vits.		
26-27'	-	10	90								" ; cal vlts (flat)		1
	27	7-40'	Ма	gne	tite	(57%	6) - (calci	ite (3	80%) - hematite (11%) skarn		
27-28'	70	10	20							Mag-cal skn	Layered (flat)		27-31'
28-29'	65	15	20							Mag-cal-hem skn	Layered (contorted)		Non-mag wt %: 28.7
29-30'	60	20	20							"	п		Au: 0.043; Ag: 0.019
30-31'	65	5	30							Mag-cal skn	Layered (flat)		Pt: 0.000
31-32'			100							Crystalline limestone	Cal vits (70-90°)		31-33'
32-33'	40	5	40							Mag-cal skn	Layered, brecciated (flat)		Au: 0.006; Ag: 0.134
													Pt: 0.043; Mag: 52.80
													Fe in mag: 61.62
33-34'	75		20							"	Cal-hem vlts (contorted)		33-39'
34-35'		20	25							Mag-cal-hem skn	Cal-hem vlts (flat)		Non-mag wt %: 38.2
35-36'		20								"	"		Au: 0.025; Ag: 0.041
36-37'		20	25							"	"		Pt: 0.005
37-38'		10	20							Mag-cal skn	"		Mg: 44.35
38-39'		10	30							"	.ayered (flat); cal vits (flat	r) 	Fe in mag: 61.78
39-40'	75	10	15							"	"		39-45'
	40	-42'	Dio	psic	le (3	3%)	- pł	nlog	opite	e (30%) - calcite (20%	6) skarn; minor hematite	e (8%)	
40-41'	10	15	30		40	5				Diop-cal-hem skn	Cal vits		Au: 0.002
41-42'			10	60	25					Phlog-diop skn	Cal-hem vlts		Ag: 0.024
	42	-46'	Qua	artz	san	dsto	ne v	with	calc	ite cement; minor h	nematite (5%)		
42-43'		5	15			80				Quartz sandstone	"		Pt: 0.040
43-44'		5	20			75				"	Hem diss.		1. 0.0-10
44-45'		5	20			75				"	" ; cal-hem vlts (45°)		
45-46'		5	20			75				Quartz sandstone	, (10)		45-50'
	46	-49'		cite	(639			side	e (20	%) - hematite (17%)	skarn		,
46 47	\vdash	4.5	er.	l I	20	l	I	I	l	Cal dian harmalis	Magaina tartura		Au: 0.003
46-47' 47-48'		15 15	65 65		20 20					Cal-diop-hem skn	Massive texture		Au: 0.003 Ag: 6.538
47-46		20			20					Cal-diop-hem skn	"		Ag. 6.536 Pt: 0.037
+0-49	L	20	UU	l	20	<u> </u>	1	1		Cal-ulup-Helli Skii			Ft. 0.03/

										ROCK	STRUCTURE	DEMARKS	ASSAY
FOOTAGE	 			Г	ER/	\LS 	I			TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	49	-53'	Qua	artz	san	dsto	ne v	vith	calc	ite cement; minor he	ematite (5%)		
49-50'		5	20			75				Qtz ss	Hem diss		
50-51'		5	20			75				"	"		50-55'
51-52'		5	20			75				"	II .		Au: 0.010
52-53'		5	20		5	70				"	"		Ag: 0.335
	53	-78'	Dio	psic	le (6	7%)	- ca	lcite	(19	%) skarn; minor hen	natite (6%)		
													Pt: 0.019
53-54'		10	15		60	15				Diop-cal-qtz skn	Calcite filled vugs		
54-55'		5	20		65	10				Diop-cal skn	"; massive texture		
55-56'		5	20		65	10				"	Banded (flat)		55-60'
56-57'		5	15		75	5				"	Coarsely crystalline		Au: 0.002
57-58'		15	65	5	15					Cal-hem-diop skn	Banded (flat)		Ag: 0.028
58-59'		15	15	5	65					Diop-hem-cal skn	II .		Pt: 0.015
59-60'		5	10		85					Diop skn	Coarsely crystalline		
60-61'		15	15		70					Diop-hem-cal skn	Hem diss		60-65'
61-62'		10	15		75					Diop-cal skn	II .		Au: 0.009
62-63'		15	20		65					Diop-cal-hem skn	"		Ag: 0.090
63-64'		10		5	85					Diop skn	"		Pt: 0.019
64-65'		10	85		5					Cal skn	"; banded (flat)		
65-66'		10	35		55					Diop-cal skn	II .		65-70'
66-67'		10	25		75					"			Au: 0.002
67-68'		5	30	5	60					"			Ag: 0.031
68-69'				5	85	10				Diop skn	Massive texture		Pt: 0.016
69-70'				5	85	10				n .	"		
70-71'			5		90	5				"	II .		70-75'
71-72'			5		90	5				n .	"		Au: 0.010
72-73'				40	45	5		10		Diop-phlog skn	Banded (flat)		Ag: 0.130
73-74'	5		5	15	75					"	II .		Pt: 0.014
74-75'		5	25		70					Diop-cal skn	Hem diss		
75-76'		5	25		70					"	"		75-78'
76-77'		5	25		70					"	"		Au: 0.097; Ag: 0.041
77-78'				20	80					Diop-phlog skn			Pt: 0.019
	78-	81'	Mag	netit	e (5	5%)	- dic	psi	de (18%) - calcite (10%) s	skarn		
78-79'	55	5	30	10						Mag-cal skn	Layered (20°)		78-81'
79-80'	80			5				15		Mag-trem skn	Massive texture		Non-mag wt %: 30.0
80-81'	30	5		5	55	5				Diop-mag skn	n .		Au: 0.312; Ag: 0.098
1													Pt: 0.018 Mag: 45.67
													Fe in mag: 68.01
END OF I	HOLI	E											

DRILL HOLE: EC-05-06A (Core)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,561/3,719,960

Elevation: 6,816' Inclination: -90°

Date started: July 5, 2005

Date completed: July 8, 2005

Depth: 206' (assayed and logged: 81-206')

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter core shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quar			O	ррос	<u></u>					ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	NER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
	81	-87'	Ma	gnet	tite (53%	6) - c	alcit	te (1	9%) - hematite (9%) ska	rn		
81-82'	40	5	25	15				15		Mag-cal-phlog-trem skn			81-87'
82-83'	40	5	35	15				5		Mag-cal-phlog skn			Non-mag wt %: 62.5
83-84'	35	20	25	15				5		Mag-cal-hem-phlog skn			Au: 0.210
84-85'	60	15	15	10						Mag-hem-cal-phlog skn			Ag: 0.108
85-86'	65	5	10	20						Mag-phlog-cal skn			Pt. 0.021
86-87'	80	5	5	10						Mag-phlog skn			
	87	-110	' Di	ops	ide ((61%	%) - c	alci	te (2	20%) - hematite (11%) sk	arn		
87-88'	10	5	15		70					Diop-cal-mag skn			87-95'
88-89'			5		95					Diop skn	Banded, flat	Mottled green and brown dio	p
89-90'	5	10	10	15	60					Diop-phlog-hem-cal skn	"	"	Non-mag wt %: 75.9
90-91'	5		10		85					Diop-cal skn		"	Au: 0.105
91-92'	5		10		85					"			Ag: 0.124
92-93'	15	15			40					Diop-cal-mag-hem skn	Banded, 50°		Pt. 0.017
93-94'		10	-		70					Diop-cal-hem skn	Cal-hem vlts, flat		
94-95'	_	10	5	5				5		Mag-hem skn			
95-96'	10		15		75					Diop-cal-mag skn			95-100'
96-97'		10	_		70			_		Diop-cal-hem skn			Au: 0.042
97-98'		20	25		50	_		5					Ag: 0.099
98-99'		10	20	_	65	5				"			Pt: 0.011
99-100'		10	15 25	5 5	70 55				5	"	Cal vita flat		100-105'
100-101' 101-102'		10 20		5	55 55				l ^o	"	Cal vlts, flat		Au: 0.010
101-102		20			50	5				"	"		Ag: 0.078
102-103		30			40	5				"			Pt. 0.005
103-104		15			50	5				"			1 1. 0.003
105-106		15	25		55	5				"			105-110'
106-107'		10			70					"	Vuggy		Au: 0.018
107-108'		5	20		75					Diop-cal skn	33)		Ag: 0.080
108-109'		5	30		65					"			Pt: 0.005

										ROCK	STRUCTURE		ASSAY
FOOTAGE	 									TYPE	TEXTURE	REMARKS	RESULTS
	0												'
	Magnetite	Hematite	e	Phlogopite	Diopside	N	ite	Tremolite					Au, Ag, Pt: opt
	agn	ema	Calcite	hlog	sdoi	Quartz	Fluorite	e.	Clay				
	Σ		-	Ы	_	Ø	Ы	F	ਹ				
109-110'	20 30 50									Diop-cal-hem skn	Banded, flat		
	110-125' Quartz sandstone with calcite cement, disseminated hematite (13%), minor diopside (12%) skarn												
110-111'		10	15			75				Qtz ss	-	Cal-hem in fract fillings; intro	110-115'
111-112'		20	25		5	50				Skarnitized qtz ss	Banded, flat	Skarnified qtz ss	Au: 0.020
112-113'		15	15			60				"		Cal-hem in pods: introduced	Ag: 0.107
113-114'		15	25		50	10				Diop-cal-hem-qtz skn	Banded, flat		Pt. 0.007
114-115'		10	15		60	15				"			445 4001
115-116'		10	15		40	35				Diop-qtz-cal-hem skn	"	0-1	115-120'
116-117'		5	15			80				Qtz ss	0-1 1 141- 000	Cal cement	Au: 0.026
117-118'		15	25			60					Cal-hem vltls, 90°	he cal-hem vits are probable feeder fractures; cal cement	Ag: 0.209 Pt: 0.009
118-119'		15	25			60				Qtz ss	Cal-hem vlts, 45°	"	Pt. 0.009
119-120'		15	30			55				QIZ 55	Cal-fielli vits, 45		
120-121'		15	30			55				"	Banded, flat		120-125'
121-122'		15	25		5	55				Skarnitized qtz ss	Convoluted layering		Au: 0.018
122-123'		5	10		20	65				"			Ag: 0.222
123-124'		10	25		5	60				"	Cal-hem vlts, 80°	Cal in repl pods; cal-hem in	Pt. 0.006
												vlts - probable feeders	
124-125'		5	15			80				"	"	Fine-grained qtz replacement	
	12	5-17	3' [ojop	side	(53	%) -	cald	cite ((29%) - hematite (13%) s	karn		
125-126'		5	5		70	20				Diop-qtz skn	Banded, flat;	Fine-grained diop	125-130'
											cal-hem vlts, 80°		Au: 0.018
126-127'		5	15		70	10				Diop-cal-qtz skn	"	"	Ag: 0.188
127-128'		15	20		60	5				"			Pt: 0.007
128-129'		5	5		75	15				Diop-qtz skn	Banded, flat; cal-hem vlts, 80°		
129-130'		10	5		70	15				"	Banded, flat		
130-131'		15	20		65					Diop-cal-hem skn	Uniform, massive		130-135'
131-132'			20		65					"	"		Au: 0.016
132-133'			30		60					"	"		Ag: 0.117
133-134'		10			60					"	"		Pt: 0.004
134-135'		10			60					"	"		
135-136'		10			60					"	"		135-140'
136-137'		15			55					"	" 		Au: 0.015
137-138'		10			60	5				"			Ag: 0.097
138-139'			30		55	5				"	"		Pt: 0.012
139-140'		20	20		65	5				" "	Cal have be site.		440 4451
140-141'		10	20		70					<u>"</u>	Cal-hem in vlts, pods; cal vugs		140-145' Au: 0.014
141-142'		10	20		65	5				"	cai vugs		Ag: 0.065
142-143'		5	10	15	55	5				Diop-phlog-cal skn	Banded, flat		Pt: 0.017
143-144'		5	20	20	55					"	"		5.011
144-145'		10			70					Diop-cal-hem skn	" ; vuggy		
145-146'			30		60					"	, 33,		145-150'
146-147'		5	30		60	5				Diop-cal skn			Au: 0.010
147-148'		10	30		60					"			Ag: 0.039

										ROCK	STRUCTURE		ASSAY
FOOTAGE	· 								TYPE	TEXTURE	REMARKS	RESULTS	
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
148-149'		10	30	60						"			Pt: 0.015
149-150'		5	5	5	85					Diop skn			
150-151'		15	30		55					Diop-cal-hem skn	Cal-hem vlts, 90°		150-155'
151-152'		10	30		60					"			Au: 0.013
152-153'		5	30		60	5				Diop-cal skn	Cal-hem vlts, irregular		Ag: 0.034
153-154'		10	25		60	5				Diop-cal-hem skn	Vuggy		Pt: 0.018
154-155'		10	10		80					"	Cal-hem vlts, flat	-	
155-156'		20	30		50					"	Banded, flat		155-160'
156-157'		15	30		50	5				"			Au: 0.015
157-158'		15	30		50	5				"			Ag: 0.070
158-159'		15	30		55					"			Pt. 0.010
159-160'		20	20		60					"	Banded, flat	_	
160-161'		15	75		10					Cal-hem-diop skn	Hem dissem.		160-165'
161-162'		15	65		20					Cal-diop-hem skn	" ; cal-hem-diop vlts,50°		Au: 0.013
162-163'		20	70		10					Cal-hem-diop skn	Open, vuggy cal-hem vits	3	Ag: 0.051
163-164'		20	70		10					"	Cal-hem pods, flat	Irregular poddy	Pt: 0.009
												replacement texture	
164-165'		5	25		70					Diop-cal skn			
165-166'		20	60		20					Cal-hem-diop skn		Irregular poddy	165-169'
												replacement texture	Au: 0.018
166-167'		10	50		40					Cal-diop-hem skn			Ag: 0.028
167-168'		25	30		45					Diop-cal-hem skn	Banded, vuggy, flat		Pt: 0.008
168-169'		20	40		40					"			
169-170'		40	30		30					Hem-cal-diop skn	Banded; cal-hem repl.		169-173'
											zones, flat		Au: 0.028
170-171'		15	20		65					Diop-cal-hem skn			Ag: 0.022
171-172'		20	30		50					"	Banded, vlts, flat		Pt: 0.016
172-173'		30	30		40					"			
	17	3-20	6' C	Quar	tzite	, ca	lcite	cer	nen	t, disseminated hematit	e (13%);minor diopside	e (7%) skarn	
173-174'		15	15		5	65				Quartzite, calcite	Banded, flat	Hematitic quartzite: dissem.	173-178'
										cement			Au: 0.026
174-175'		20	30		5	45				"			Ag: 0.019
175-176'		15	20		5	60				Quartzite, cal cement	l Banded, flat cal-hem-dio	Hematitic quartzite: dissem.	Pt: 0.005
											Cal-hem-diop vlts, 70°	,	
176-177'		15	25		5	55				"	, ,	"	
177-178'		20	25		5	50				Qtzite, cal cem;	al-hem-diop stkwk, weal	"	
										weak stockwork	vlts 80-90°		
178-179'		20	20		5	55				Qtzite, cal cem	Cal-hem vlts, flat; qtzite	"	178-183'
										,	bleached along vits		Au: 0.012
179-180'		20	25		5	50				"	"	п	Ag: 0.027
180-181'		20	25		5	50				"	Cal-hem vlts, 80-90°	п	Pt: 0.003
181-182'		15	30		5	50				"	"	"	5.500
182-183'		15	30		5	50				"		"	
183-184'		15	20		30	35				Diopside altered qtzite		Skarnitized qtz ss	183-188'
184-185'			20		5	55				Qtzite, cal cem	Mottled: cal-hem node	Hematitic quartzite: dissem.	Au: 0.013
104-100		20	20			55				QIZILE, CAI CEITI	· ·	nomatitic quartzite. dissetti.	
							l	l	l	I	bleach qtzite	ı l	Ag: 0.016

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FOOTAGE	 									TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
185-186'		20	25		10	45				п	n .	"	Pt: 0.021
186-187'		20	25		10	45				"	"	"	
187-188'		15	25		20	40				Diop alt qtzite; cal cem	Diop-cal-hem 1cm vlt, 80	"	
188-189'		15	15		15	55				"		"	188-193'
189-190'		15	20		20	45				"		"	Au: 0.019
190-191'		15	15		5	65				Qtzite, cal cem	Mottled; cal-hem pods	"	Ag: 0.025
											bleach qtzite		Pt: 0.019
191-192'		15	15		20	50				Diop alt qtzite, cal cem;	al-hem-diop stkwk, wea	"	
										weak stockwork			
192-193'		15	15		20	50				"	"	"	
193-194'		20	20		20	60				Diop alt; cal cem		"	193-197'
194-195'		15	15		25	55				п		п	Au: 0.018
195-196'		15	15		15	55				"		Hematitic quartzite: dissem.	Ag: 0.038
196-197'		15	15		40	30				"		п	Pt: 0.021
197-198'		15	20		30	30				"	Diop-cal-hem patches	eg. diop-cal-hem replaceme	197-200'
198-199'		15	20		15	50			"	; weak diop-cal-hem stkw	Weak fracture network;		Au: 0.012
										·	diop-cal-hem		Ag: 0.021
199-200'		15	15		5	65				Qtzite, cal cem	Cal-hem pods, flat		Pt: 0.022
200-201'		15	20			65				"	"		200-206'
201-202'		20	25			55				"; weak cal-hem stkwk	Weak fracture network;		Au: 0.010
											cal-hem		Ag: 0.044
202-203'		30	30			40				п	" ; vuggy		Pt: 0.023
203-204'		30	30			40				Qtzite cal cem;	Mod. fracture network;	Well fractured,	
										mod. cal-hem stkwk	cal-hem	incipient brecciation	
204-205'		30	30			40				"	"	"	
205-206'			30			40				"	"	"	
END OF H	101		00										

DRILL HOLE: EC-05-07

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): Easting 448,757; Northing 3,719,966

Elevation: 6,889' Inclination: -90°

Date started: April 7, 2005

Date completed: April 10, 2005

Depth: 118'

Core stored at: Capitan Storage, 406 2nd St, Capitan, NM, Unit 24-A. Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, M.S., Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Ph.D., P.Eng., Consulting geologist, Vancouver, B.C., Ca

One-quarter core shipped: by UPS Ground on April 22, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT, 84104

										ROCK	STRUCTURE,		ASSAY	
FOOTAGE	MINERALS									TYPE	TEXTURE	REMARKS	RESULTS	
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %	
	0-10' Crystalline limestone; minor disseminated hematite (5%), magnetite (4%)													
0-1'	10	5	85							Crystalline limestone		Auger cuttings only, 0-3'	0-5'	
1-2'	10	5	85							"			Au: 0.013	
2-3'	10	5	85							"			Ag: 0.683	
3-4'	10	5	85							"	Banded (flat)		Pt: 0.012	
4-5'		25	75							Calcite-hematite dis-	Cal-hem dissem., in	eplacement, fracture fillin	Mag: 3.34	
										seminated in xline Is	fractures, vuggy		Fe in mag: 68.43	
5-6'			100							Crystalline limestone		White, finely xline	5-10'	
6-7'			100							n .		п	Au: 0.010	
7-8'		5	95							Xline ls, minor cal-hem	Cal-hem dissem.	Replacement cal-hem	Ag: 0.216	
										dissem.			Pt: 0.008	
8-9'			100							Crystalline limestone	Banded	White, gray bands		
9-10'			100							п		n		
	10-1	18'	Magı	netit	e (6	4%)	- ca	lcite	(20	%) - hematite (14%) s	karn			
10-11'	85		15							Magnetite-calcite skarr	Banded magnetite-	Massive magnetite, rare	10-15'	
											calcite layers	calcite - minor hematite	Non-mag wt %: 24.8	
												fractures	Au: 0.060	
11-12'	45	40	15							Magnetite-hematite-	"	Hematite primary or	Ag: 0.068	
										calcite skarn		replacement?	Pt. 0.000	
12-13'	55	20	25							"	"	"	Mag: 66.95	
13-14'	70	10	20							Mag-cal skarn	"	"	Fe in mag: 68.73	
14-15'	60	20	20							Mag-hem-cal-skarn	"	"		
15-16'	75	5	20							Mag-cal skarn	Calcite fractures	"	15-20'	
16-17'	55	15	25			5				Mag-cal-hem skarn	Calcite-quartz	Calcite early, quartz later	Non-mag wt %: 16.2	
											fractures, vuggy		Au: 0.077	

	1									ROCK	STRUCTURE,		ASSAY
FOOTAGE				MIN	IER/	VI S				TYPE	TEXTURE	REMARKS	RESULTS
FOOTAGE		ite	_				σ.	lite		1172	TEXTORE	REWARRS	Au, Ag, Pt: opt
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Magnetite: % Fe in magnetite: %
17-18'	70	5	20			5				Mag-cal skarn	"	п	Ag: 0.361
	18-2	25' I	Vlagr	netit	e (6	1%)	- ca	lcite	(24	%) - hematite (11%)	skarn/stockwork		-
18-19'	65	10	20			5				Mag-cal skn, cal-hem	Calcite-hematite	Hem-cal replacement	Pt: 0.000
										stockwork	stockwork (weak)	patches	Mag: 70.64
19-20'	80	5	15							"	"	"	Fe in mag: 70.56
20-21'	65	10	20			5				"	"	"	20-25'
21-22'	55	10	30			5				"	"	"	Non-mag wt %: 23.8
22-23'	45	20	30			5				"	"	"	Au: 0.043; Ag: 0.029
23-24'	70	10	20							"	"	n n	Pt: 0.000; Mag: 64.41
24-25'	50	10				5				"	"	n n	Fe in mag: 70.01
2.20				tallir	na li		ton	o. qi	5501	ninated hematite (16°	26)		
	25.		_	laiiii	ie iii	11103	ı	T .	I		, 	Г Т	
25-26'		5	95							Cal-hem dissem. In	Cal-hem dissem.		25-30'
										xline Is	throughout, uniform		Au: 0.126
											texture		Ag: 0.000
26-27'		10	90							"	"		Pt: 0.000
27-28'		25	75							"	"		
28-29'		20	80							"	"		
29-30'		20	80							"	"		
30-31'		10	90							"	"	Minor phlogopite	30-37'
31-32		10	90							"	Minor cal-hem-qtz		Au: 0.148
											veinlets		Ag: 0.000
32-33'		20	80							"	"		Pt: 0.000
33-34'		20	80							"	"		
34-35'		20	80							"	"		
35-36'		20	80							"	"		
36-37'		10								"	"		
	37-		Crys	tallir	ne li	mes	ton	<u></u>					
37-38'			100				<u> </u>	1	<u> </u>	Crystalline limestone	Banded (white grav	Either crystalline or re-	37-48'
3, 30			.50							or you mile milestone	Lancoa (Winte, gray	crystallized ls; rare hem.	Au: 0.028
38-39'			100							"	"	"	Ag: 0.023
39-40'			100							"	"	п	Pt: 0.000
40-41'			100							"	Massive (gray)	No mineralization, replace	
41-42'			100							"	Rare cal-hem veinlet (flat)		
42-43'			100							"	(liat)		
43-44'			100							"	"		
44-45'			100							"	"		
45-46'			100							"	"		
46-47'			100							"	"		
47-48'			100							"	"		
48-49'			99							"	Cal-minor pyrite, hem veinlet	Pyrite 1%	48-54' Au: 0.028
49-50'		2	96							"	Dissem pyrite, hem	Pyrite 2%	Au: 0.028 Ag: 0.103
49-50 50-51'		1	96							"	" pynie, nem	Pyrite 3%	Ag. 0.103 Pt: 0.000
		1					I			"	"	Fyrite 3%	1 1. 0.000
51-52'	l	1	96				l	1	l]	l "	i	

										ROCK	STRUCTURE,		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
						<u> </u>							
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
52-53'		2	94							"	"	Pyrite 4%	
53-54'			95							"	Dissem. pyrite	Pyrrhotite 3% in needles,	blades
54-55'													
55-56'													
56-57'	54-6	50' N	lo cc	re									
57-58'													
58-59' 59-60'													
59-60													
	60-8	35' I	Diop	side	(46	%) -	cald	ite (28%	6) - hematite (19%) sk	arn		
60-61'		80	20							Hematite-calcite skarr	Massive texture	Completely replaced with	60-65'
												hem, cal	Au: 0.028
61-62'		70	30							"	"	"	Ag: 0.092
62-63'		40	20		40					Hem-cal-diop skarn		Diopside very fine-grained	Pt: 0.000
63-64'		50	49	1						Hematite-calcite skarr	Banded (flat)		
64-65'		40	50	2	8					"	"		
65-66'		20	75		5					Cal-hem skarn	"	Ī	65-70'
66-67'		25	50	5	20					Cal-hem-diop skn			Au: 0.006
67-68'		20	50		30					"			Ag: 0.000
68-69'		40	35		25					"			Pt: 0.000
69-70'		10	25		65					Diop-cal skn	Banded (flat)		
70-71'		10	20	65	5					"			70-80'
71-72'			10	20	65			5		Diop-phlogopite-cal skr	ำ	Coarse-grained skarn	Au: 0.019
72-73'			10	25	65					"		"	Ag: 0.018
73-74'		10	25		65					Diop-cal skn	Banded (flat)		Pt: 0.019
74-75'		5	20		75					"			
75-76'		5	30		65					"		Irregular skn replacement	
76-77'		5	25		70					"			
77-78'			20	10	70					Diop-cal skn		Minor fluorite in pods	
78-79'		35	20	35	10					Hem-phlog-cal-diop sk	Massive texture	Strong hem replacement	
79-80'		10	15	30	45					Diop-phlog-cal skn			
80-81'		10	40		50					Diop-cal skn			80-85'
81-82'			20		80					"	Massive texture		Au: 0.084
82-83'			20		80					"	Blotchy texture		Ag: 0.068
83-84'			18		80		2			"		Fluorite in pod	Pt: 0.014
84-85'			15	15	70					Diop-cal-phlog skn			
	85-′	108'	Dio	psid	e (3	7%)	- ma	agne	etite	(27%) - calcite (13%)	- hematite (12%) s	karn	
85-86'	40	10			30					Mag-diop-cal-hem skn			85-90'
86-87'	40				20					"			Non-mag wt %: 37.6
87-88'	25	15		5	35		2			Diop-mag-cal-hem skn		Fluorite in pod	Au: 0.025; Ag: 0.071
88-89'	20	30	20	10	20					Hem-mag-cal-diop skn			Pt: 0.000; Mag: 48.11
89-90'	30	25	10	25	10					Mag-hem-phlog skn			Fe in mag: 66.41
90-91' 91-92'	15 10	30 30	20 25	5	30 30	5				Hem-diop-cal-mag skn Hem-diop-cal skn		l te	90-95' Non-mag wt %: 30.1
91-92	30	15			35					Diop-mag-cal-hem skn	_		Au: 0.011; Ag: 0.029
92-93	70	5	15		10					Mag-cal skn			Pt: 0.000; Mag: 51.27
			15		40	5				Diop-mag-cal skn		White clay in pods	Fe in mag: 67.08

										ROCK	STRUCTURE,		ASSAY
FOOTAGE				MIN	IER <i>A</i>	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
95-96'	25	10	10		45		5		5	Diop-mag skn		"	95-100'
96-97'	30	10	10	5	40				5	"		"	Non-mag wt %: 33.8
97-98'	30	20	20		30					Diop-mag-hem-cal skn			Au: 0.019; Ag: 0.029
98-99'	15	5	10	5	60	5				Diop-mag skn			Pt: 0.013 Mag: 46.65
99-100'	20	5	10	10	55					"			Fe in mag: 68.17
100-101'	20	5	10		60				5	"		White clay in pods	100-105'
101-102'	15	5	10		65				5	"		"	Non-mag wt %: 60.3
102-103'		10	10		70				10	Diopside skarn		White clay in pods, rare p	Au: 0.090; Ag: 0.049
103-104'	25	5	5		60				5	Diop-mag skarn			Pt: 0.019; Mag: 22.86
104-105'		5	5		90					Diopside skarn		Ham-cal in fractures only	Fe in mag: 68.01
105-106'	15	15	5		60				5	Diop-mag-hem skn			105-110'
106-107'	60			2	23				15	Mag-diop skn			Non-mag wt %: 34.8
107-108'	50		15		30				5	Mag-diop-cal skn			Au: 0.020; Ag: 1.418
	108	-118	' Di	opsi	de (68%) - c	alcit	e (19	9%) skarn			
108-109'		5	15		70	5			5	Diop-cal skarn			Pt: 0.014; Mag: 37.80
109-110'		5	15		75	5				"			Fe in mag: 68.33
110-111'		5	15		75	5				n .	Banded (flat)	Rare pyrite, gypsum	110-118'
111-112'		5	15		75	5				n n			Au: 0.046
112-113'		5	15		75	5				"		Rare pyrite	Ag: 0.033
113-114'		5	20	5	65	5				"	Banded (flat)		Pt: 0.018
114-115'		5	20	10	60	5				"	"		
115-116'		5	20	5	65	5				"	"		
116-117'		5	15	5	75	-				n .	"		
117-118'		5	40	10	45					"		Fine-grained	
END OF H	OLE	-			•							5	

DRILL HOLE: EC-05-07A (Rotary)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Yellow Jacket Drilling, Phoenix, AZ

Location (UTM): 448,760/3,719,966

Elevation: 6,889' Inclination: -90°

Date started: August 1, 2005 Date completed: August 3, 2005

Depth: 260' (assayed and logged: 118-260')

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-E. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 9

Cuttings collected, bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter cuttings shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

FOOTAGE		 5		MIN	NER	ΔIS				ROCK TYPE	REMARKS		ASSAY R	ESULTS	
I GOTAGE	Magnetite	Hematite	ite	Phlogopite	Diopside			Tremolite		2	KEMAKKO		Au, Ag,	Pt: opt	
	Magı	Hem	Calcite	Phlo	Diop	Quartz	Fluorite	Trem	Clay			Non-mag %	Au	Ag	Pt
	11	8-13	5' C	Calci	ite (6	61%) - h	ema	tite	(20%) - diopside (18%) skarn;	minor magnet	ite (4%)			
118-120'	10	5	50		35					Cal-diop-mag skn		76.8	0.070	0.038	0.012
120-125'	2	28	60		10					Cal-hem skn		79.4	0.055	0.037	0.017
125-130'	2	23	70		5					"		77.2	0.037	0.041	0.019
130-135'	2	23	55		20					Cal-hem-diop skn		86.1	0.027	0.050	0.032
	13	5-15	5' C	oiop	side	(61	%) -	cald	cite ((20%) - hematite (12%) skarn;	minor magnet	i			
135-140'		15	20		65					Diop-cal-hem skn		89.5	0.046	0.089	0.021
140-145'	2	13	20		65					"		00.0	0.020	0.101	0.021
145-150'	10	5	20	5	50					Diop-cal-mag skn		77.7	0.041	0.127	0.014
150-155'	2	13	20		65					Diop-cal-hem skn		86.8	0.044	0.153	0.015
				alci		64%) - h	ema	tite	(21%) - diopside (14%) skarn					
				, u.o.	,,	J-70	,			(2170) GIOPOIGE (1470) ORGITI					
155-160'	2	28	60		10					Cal-hem-diop skn			0.018	0.064	0.009
160-165'		20	60		20					"			0.012	0.061	0.003
165-170'	5	15	65		15					"			0.013	0.027	0.000
170-175'		20	65		15					"			0.013	0.025	0.000
175-180'		20	75		5					Cal-hem skn			0.022	0.025	0.004
180-185'		20	70		10					Cal-hem-diop skn			0.024	0.053	0.007
185-190'		20	65		15					"			0.014	0.048	0.000
190-195'		25	65		10					"			0.017	0.031	0.000
195-200'		15	70		15					"			0.009	0.022	0.000
200-205'		25	50		25					"			0.010	0.025	0.000
205-210'		25	60		15					"			0.007	0.019	0.000
210-215'		20	70		10					"			0.005	0.016	0.000
215-220'		25	60		15	<u> </u>	<u> </u>	<u> </u>	<u> </u>	"			0.003	0.016	0.000
	22	0-24	0' C	Calci	ite (4	44%) - di	ops	ide	(40%) - hematite (16%) skarn					
220-225'		15	55		30					Cal-diop-hem skn			0.003	0.075	0.001
225-230'		15	45		40					II .			0.004	0.048	0.002

										ROCK			ASSAY R	ESULTS		
FOOTAGE				MIN	IER/	ALS				TYPE	REMARKS					
	Magnetite	atite	te	gopite	side	tz	rite	olite					Au, Ag, I	⊃t: opt		
	Magr	Au, Ag, Pt: opt Au, Ag, Pt														
230-235'		20 30 50 Diop-cal-hem skn 0.004 0.018 0.005														
235-240'		20 30 50 Diop-cal-hem skn 0.004 0.018 0.006														
	24	0-26	0' C	Calci	ite (6	67%)	- he	ema	tite (21%) - diopside (10%) skarn						
240-245'		10	80		10					Cal-diop-hem skn			0.011	0.011	0.009	
245-250'		25	65		10					"			0.008	0.088	0.009	
250-255'		25	65		10					11			0.002	0.024	0.007	
255-260'		25	65		10					II			0.002	0.017	0.007	
END OF HO	LE												•	•		

DRILL HOLE: EC-05-08

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,437/3,719,873

Elevation: 6,780' Inclination: -90°

Date started: April 5, 2005

Date completed: April 6, 2005

Depth: 89'

Core stored at: Capitan Storage, 406 2nd St, Capitan, NM, Unit 24-A. Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, M.S., Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Ph.D., P.Eng., Consulting geologist, Vancouver, B.C., C

One-quarter core shipped: by UPS Ground on April 22, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT, 84104

One-quar	ter c	ore	shij	opeo	1:					,			
										ROCK	STRUCTURE		ASSAY
FOOTAGE	L.,			MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopsaide	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-1	10'	Mag	neti	te (6	4%)	- ca	lcite	(26	%) skarn			
0-1'	60	2	30	6						Magnetite-calcite skarn		Auger cuttings only, 0-30	0-5'
1-2'	48	2	40	10						"			Non-mag wt %: 44.7
2-3'	58	2	30	10						"			Au: 0.035; Ag: 0.030
3-4'	60		35	5						"			Pt: 0.013; Mag: 47.25
4-5'	80		15	5						"			Fe in mag: 68.01
5-6'	58	2	30	10						"			5-10'
6-7'	68	2	22	8						"			Non-mag wt %: 39.8
7-8'	70		20	10						"			Au: 0.017; Ag: 0.011
8-9'	70		20	10						"			Pt: 0.014; Mag: 51.47
9-10'	70		20	10									Fe in mag: 69.13
	10	-16'	Cal	cite	(579	%) -	mag	gneti	te (3	31%) skarn			
10-11'	25		65	10						Calcite-magnetite skarn			10-15'
11-12'	50		40	10						"			Non-mag wt %: 68.4
12-13'	25		65	10						"			Au: 0.035; Ag: 0.089
13-14'	40		50	10						"			Pt: 0.012; Mag: 13.71
14-15'	25	5	55	15						"			Fe in mag: 67.53
15-16'	20	5	65	10						II .			15-20'
	16	-30'	Cry	stal	line	line	stor	ne; n	nino	r skarn; minor hematite	e (9%), magnetite (5%)		
16-17'	5	5	85	5						Calcite skarn			Au: 0.034
17-18'	15	5	70	10						Cal-mag skarn			Ag: 0.0.025
18-19'	5	5	85	5						Calcite skarn			Pt: 0.012
19-20'	5	5	85	5						"			
20-21'	5	10	83	2						"			20-25'
21-22'	5	10	83	2						"			Au: 0.023
22-23'	2	10	86	2						"			Ag: 0.144
23-24'	2	10	86	2						"			Pt. 0.013

Part											ROCK	STRUCTURE		ASSAY
24.28	FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	
24-26 5 10 70 15		Magnetite	Hematite	Calcite	Phlogopite	Diopsaide	Quartz	Fluorite	Tremolite	Clay				Magnetite: % Fe in magnetite:
25-26 2 20 63 5 10	24-25'	5	10	70	15						Cal-phlog skarn			
27-26						10							Diopside occurs in both	25-30'
28-29 29-39 5 10 73 10 2	26-27'	2	10	78	5	5					Cal skarn		, ,	Au: 0.046
29-90' 2 5 83 5 5	27-28'	8	10	75	5	2					u u			Ag: 0.010
30-45' Calcite-hematite (16%) stockwork in crystalline limestone, minor diopside (9%) skarn	28-29'	5	10	73	10	2					п			Pt: 0.018
30-31'	29-30'	2	5	83	5	5					ш			
31-32 30 70 30 30 30 30 30 30		30	-45'	Cal	cite	-hen	natit	e (1	6%)	stoc	kwork in crystalline lin	nestone, minor diopside	e (9%) skarn	
31-32	30-31'		25	75							Cal-hem stkwk in	Hem-cal stkwk	Limestone stained brown	30-35'
31-32' 30 70											xline Is	(mod); hem in	adjacent to veinlets	Au: 0.017
32-33'												veinlets, dissem.		Ag: 0.146
33-34'	31-32'		30	70							"	"	"	Pt: 0.011
34-35'	32-33'		10	90							"	"	"	
35-36'	33-34'		10	85		5					"	"	Incipient diopside	
36-36'	34-35'		28	65		5				2	"		1" clay gouge (flat)	
36-37'	35-36'		15	80		5					"	"	Incipient diopside	35-40'
37-38'														Au: 0.055
37-38'	36-37'		15	83		2					"	"		Ag: 1.514
38-39'	37-38'		15	55		30					Hem-cal stkwk in xline	Banded		-
38-39'											ls; incipient skarn			
Xiline Is Xili	38-39'		15	70		15					· ·	II .		
40-41'	39-40'		15	75		10						· · ·	2% black organic?	
41-42'	40-41'		15	83		2					"	"		40-45'
Ag: 0.027 Ag: 0.027 Ag: 0.027 Ag: 0.027 Ag: 0.027 Ag: 0.014 Ag: 0.027 Ag: 0.014 Ag: 0.027 Ag: 0.032 Ag: 0.027 Ag: 0.032 Ag:											Hem-cal stkwk in	"		
42-43'	11.12					00								
43-44' 44-45'	42-43'		5	68		25					"	"	Talc in fracture (2%)	-
44-45'											Crystalline limestone	Hem. only in dissem.	. 4.0 4044.0 (270)	
45-54' Phlogopite (37%) - calcite (29%) - diopside (25%) skarn; minor hematite (4%) 45-46'											"	"		
46-47'		45			ogo	pite	(379	%) -	calc	ite (29%) - diopside (25%) s	karn; minor hematite (4	1%)	
46-47'	45-46'		10	50	15	25			\vdash		Cal-diop-phlog skarn	Hem only in dissem		45-50'
47-48'											"	"		
48-49'											"	Insia hem below		
49-50'							10				n n			-
50-51'											u u			
51-52'											Diop-cal skarn		Fluorite in cavity	50-54'
52-53'											*		-	
53-54' 10 20 65 5 Phlog-cal skarn 53-59': 1' core only, cavity Pt: 0.018 55-56' 56-57' 57-58' 58-59' 59-60' 55-64' No core											"		The granted processing	
55-56' 56-57' 57-58' 58-59' 59-60' 55-64' No core		10				5		L	L	L	Phlog-cal skarn		53-59': 1' core only, cavity	
57-58' 58-59' 59-60' 55-64' No core	55-56'													
58-59' 59-60' 55-64' No core	56-57'													
59-60' 55-64' No core	57-58'													
I 60 64: I		55	-64'	No	core	9								
	60-61'													
61-62'	61-62'													

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopsaide	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
62-63'													
63-64'													
	64	-69'	Phl	ogo	pite	(659	%) -	calc	ite ((20%) skarn			
64-65'	5		20	65	5		5			Phlog-cal skarn		64-69': 4' core only	64-70'
65-66'	5		20	65	5		5			"			Non-mag wt %: 61.0
66-67'	5		20	65	5		5			"			Au: 0.007
67-68;	5		20	65	5		5			"			Ag: 0.022
68-69'	5		20	65	5		5			"			Pt. 0.030; Mag: 17.05
	69	-76'	Dio	psic	de (7	'1%)	- Pl	nlog	opit	e (19%) skarn			
69-70'				50	50					Diop-phlog skarn	1		Fe in mag: 53.16
70-71'				35	60	5				"			70-75'
71-72'				35	60	5				"			Au: 0.030
72-73'				5	90	5				Diopside skarn			Ag: 0.041
73-74'				5	90	5				"			Pt: 0.015
74-75'			20	5	70	5				Diop - cal skarn	Calcite in fractures		
75-76'			20		80					"			75-80'
	76	-79'	Cal	cite	-hen	natit	e (1	5%)	sto	ckwork in crystalline lir	mestone, minor diopside	e (13%) skarn	
76-77'		15	80		5		Π			Cal-hem stkwk in xline Is	Stkwk (weak), hem.		Au: 0.019
											dominantly as dissem.		Ag: 0.025
77-78'		10	40	25	25					Cal-hem stwk in xline Is	· ,		Pt: 0.016
										diopside skarn			
78-79'			20	70		10				"			
	79	-83'	Dio	psic	de (7	3%)	- ca	lcite	21)	%) skarn			
79-80'			30		70					Diop-cal skarn			
80-81'		2	20		73		5			"			80-89'
81-82'		5	15		75		5			"		2% black ilvaite (?)	Au: 0.043
82-83'		2	20		73		5			"	Distinct banded structure	2% gypsum in fractures;	Ag: 0.073
											(flat); fractures (flat)	hematite in fractures	Pt: 0.016
	83	-85'	Dio	psic	de (4	8%)	- ca	lcite	e (35	5%) skarn; calcite-hema	atite (10%) stockwork		
83-84'		15	40		40	5				Hem. dissem. In xline Is,	Distinct banded structure	;	
										diop skarn	(flat); fractures (flat)		
84-85'		5	30		55	5	5			• Hem-cal stkwk in xline ls	•		
										diop skarn			
	85	-89'	Dio	psic	de (8	0%)	- ca	lcite	e (20	0%) skarn			
85-86'			20		80		Г			Diop-cal skarn	Uniform texture		
86-87'			20		80					, "	Blotchy, vuggy		
87-88'		1	19		80					"	Banded, vuggy	1% specular hematite	
88-89'			20		80					"	Uniform		
END OF H	IOLI												

DRILL HOLE: EC-05-08A (Rotary)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Yellow Jacket Drilling, Phoenix, AZ

Location (UTM): 448,445/3,719,876

Elevation: 6,780' Inclination: -90°

Date started: August 20, 2005 Date completed: August 22, 2005

Depth: 280' (assayed and logged: 89-280')

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-E. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-C

Cuttings collected, bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter cuttings shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

										ROCK			ASSAY RI	ESULTS	
FOOTAGE				MIN	IER/	ALS				TYPE	REMARKS				
	te	ө		oite	е			ē							
	neti	atit	ite	gop	sid	rtz	rite	nolir					Au, Ag,	Pt: opt	
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			Non-mag %	Au	Ag	Pt
	89	-100)' Di	ops	ide ((60%	6) - c	alci	te (3	3%) - hematite (13%) skarn					
89-95'		5	35		60					Diop-cal skn			0.015	0.080	0.011
95-100'		10	30		60					Diop-cal-hem skn			0.011	0.030	0.010
	10	0-21	5' C	Calci	ite (5	53%)) - h	ema	tite ((21%) - diopside (19%) skarn					
100-105'		15	60		25					Cal-diop-hem skn			0.033	0.105	0.028
105-110'		25	70		5					Cal-hem skn			0.038	0.097	0.022
110-115'	5	15	65		15					Cal-hem-diop skn		79.7	0.041	0.205	0.029
115-120'	2	13	50	5	30					Cal-diop-hem skn			0.007	0.045	0.008
120-125'		15	60		25					"			0.007	0.045	0.008
125-130'		15	60	5	10					Cal-hem-diop skn			0.008	0.039	0.006
130-135'		20	70		10					"			0.008	0.039	0.006
135-140'		20	70		10					"			0.007	0.041	0.006
140-145'		15	65	5	15					II			0.020	0.088	0.012
145-150'		10	60	5	25					Cal-diop-hem skn			0.020	0.088	0.012
150-155'	10	25	50	5	10					Cal-hem-mag-diop skn			0.019	0.076	0.010
155-160'	2	23	60	5	10					Cal-hem-diop skn			0.019	0.076	0.010
160-165'	5	25	60	5	5					Cal-hem skn			0.027	0.093	0.015
165-170'	5	25	35	5	30					Cal-diop-hem skn			0.027	0.093	0.015
170-175'		25	35	10	30					Cal-diop-hem-phlog skn			0.025	0.068	0.012
175-180'		30	40	5	25					Cal-diop-hem skn			0.025	0.068	0.012
180-185'		25	45	10	20					II .			0.010	0.026	0.003
185-190'		30	45	5	20					n .			0.009	0.023	0.004
190-195'		30	40	5	25					"			0.004	0.020	0.002
195-200'		20	30	20	30					Cal-diop-hem-phlog skn			0.004	0.020	0.002
200-205'		25	25	20	30					Diop-hem-cal-phlog skn			0.005	0.018	0.003
205-210'		30	45	15	10					Cal-hem-phlog-diop skn			0.020	0.075	0.017

										ROCK			ASSAY R	ESULTS	
FOOTAGE		1		MIN	IER/	ALS				TYPE	REMARKS				
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag,	Pt: opt	
	Σ						ᇤ	Ė	ਹ			Non-mag %	Au	Ag	Pt
210-215'		10	70	5	15					Cal-diop-hem skn			0.006	0.010	0.003
	21	5-23	5' C	Quar	tz s	ands	ston	e, ca	alcit	e cement, minor disseminate	d hematite (4%); minor diops	ide (8%) -	phlogopite	e (8%) skarr I
215-220'	220-225' 5 10 10 5 75 " 0.004 0.012 0.004 225-230' 5 10 10 5 70 " 0.004 0.009 0.001 230-235' 10 20 5 15 50 Qtz-ss, cal cement; 0.007 0.013 0.001														
220-225'		5	10	10	5	75				II .			0.004	0.012	0.004
225-230'		5	10	10	5	70				II .			0.004	0.009	0.001
230-235'		10	20	5	15	50				Qtz-ss, cal cement;			0.007	0.013	0.001
	23	5-26	0' C	alci	ite (4	45%)) - h	ema	tite ((27%) - diopside (21%) skarn					
235-240'	215-220'														
240-245'		25	30	5	20			20		Cal-hem-diop-trem skn			0.006	0.019	0.004
245-250'		30	40		30					Cal-hem-diop skn			0.019	0.043	0.012
250-255'		40	45		15					II			0.015	0.047	0.009
255-260'		20	60		20					Cal-hem-diop skn			0.002	0.020	0.004
	26	0-28	0' N	lus	covi	te ap	olite	, miı	nor I	nematite (5%) - calcite (5%) fr	acture-filling; n	ninor diopside	(5%) ska	rn	
260-265'		5	5		5					Aplite (muscovite)*			0.008	0.058	0.030
265-270'		5	5		5					"			0.005	0.010	0.009
270-275'		5	5		5					u u			0.003	0.097	0.023
275-280'		5	5		5					II			0.001	0.008	0.006
END OF HO	LE														
i															

^{*}Aplite contains disseminated and minor fracture-filling cal-hem. This is <u>not</u> a primary plutonic iron oxide but represents cal-hem mineralization of same type as seen in the skarns, etc. The presence of diopside is evidence that the aplite has also been skarnitized.

DRILL HOLE: EC-05-09

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,589/3,719,878

Elevation: 6,834' Inclination: -90°

Date started: May 2, 2005 Date completed: May 2, 2005

Depth: 66' (lost)

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 7, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter										ROCK	STRUCTURE		ASSAY
FOOTAGE	L.,			MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-2	21'	Calc	cite ((65%	6) - r	mag	netit	e (2	5%) - hematite (9%) ska	rn		
0-1'	40	10	50							Calcite-magnetite skn		Auger cuttings, small	0-5'
												chunks only, 0-19'; chunks	Non-mag wt %: 73.5
												of Imsapparent contam.	Au: 0.005
1-2'	40	10	50							"			Ag: 0.020
2-3'	40	10	50							"			Pt: 0.016
3-4'	40	10	50							"			Mag: 22.26
4-5'	40	10	50							"			Fe in mag: 67.85
5-6'	25	10	65							"			5-10'
6-7'	25	5	75							"			Non-mag wt %: 92.1
7-8'	25	5	75							W .			Au: 0.006
8-9'	25	5	75							"			Ag: 0.038
9-10'	20	5	75							W .			Pt: 0.029
10-11'	20	10	70							H .			10-15'
11-12'	20	10	70							W .			Non-mag wt %: 94.2
12-13'	20	10	70							H .			Au: 0.007
13-14'	20	10	70							п			Ag: 0.155
14-15'	20	10	70							W .			Pt: 0.034
15-16'	20	10	70							H .		Mixture of mag-rich and	15-20'
												mag-poor skn; percent-	Non-mag wt %: 77.8
												ages are averages est.	Au: 0.007
												from fine cuttings	Ag: 0.039
16-17'	20	10	70										Pt: 0.040
17-18'	20	10	70										Mag: 18.42
18-19'	20	10	70										Fe in mag: 63.06
19-20'	40	15	45							Cal-mag-hem skn	Layered (flat)	Mixture of mag-rich brecc.	
												in qtz ss and mag-cal skn;	
												percentage est. average	
20-21'	10	5	85							Cal-mag skn, xline Is	Layered (contorted)	Mixture of cal-mag skn	20-25'
												and xline Is	Non-mag wt %: 49.3

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	NER.	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	21	-24'	Ca	lcite	(45	%) -	ma	gnet	ite (30%) - quartz (15%) - he	ematite (10%) skarn		
21-22'	30	10	40	5		15				Cal-mag-qtz (?) skn	Layered (flat, con-	Qtz may be relic ss grains	Au: 0.007
											torted), brecciated	or part of skarn	Ag: 1.148
22-23'		10				15				"	"	"	Pt: 0.035
23-24'	30	10	45			15				"	Layered (flat: cal	"	Mag: 44.05
											vlts (flat)		Fe in mag: 67.21
	24-4	13'	Мас	gnet	ite (53%)) - C	alcite	e (35	5%) - hematite (12%) sk	arn		
24-25'	50	10	40							Mag-cal-skn	Cal-qtz-mag vlts		
											(90°); brecciated		
25-26'	30	10	60							Cal-mag skn	"		25-30'
26-27'	20	5	75							"	Layered (flat)		Non-mag wt %: 44.0
27-28'	20	5	75							"			Au: 0.007; Ag: 0.102
28-29'	35	10	55							"	Banded (flat)		Pt: 0.042; Mag: 44.90
29-30'	60	15	25							Mag-cal-hem skn	Brecciated		Fe in mag: 69.85
30-31'	50	15	35							"	Banded (flat); brecc		30-35'
31-32'	50	15	35							"			Non-mag wt %: 38.2
32-33'	50	15	35							<u> </u>	Banded (flat), brecc		Au: 0.007
33-34'	25	5	70							Mag-cal-hem skn, xline ls	S 	Mixture of mag-cal-hem	Ag: 0.019
04.051	70	4-	4-							Man allega and also		skn, xline ls	Pt: 0.026
34-35'		15								Mag-cal-hem skn	Drossisted		35-40'
35-36'	60 70	10	30 15							Mag-cal skn	Brecciated		
36-37' 37-38'	70	15 15	15							Mag-cal-hem skn	" ; calcite vugs		Non-mag wt %: 32.0 Au: 0.183; Ag: 0.041
37-36 38-39'	60	15								"	Brecciated		Pt: 0.026: Mag: 61.00
39-40'	70									"	Layered (flat), vuggy		Fe in mag: 68.49
40-41'	60	10								Mag-cal-skn	"; brecciated		40-42.5'
41-42'		10								Mag skn	Vuggy		Non-mag wt %: 28.6
42-43'			10							"	, aggy		Au: 0.011; Ag: 0.033
		. •	. •										Pt: 0.025; Mag: 63.07
													Fe in mag: 68.81
43-44'										-	-	-	-
44-45'													
45-46'	43-	49'	No	cor	е								
46-47'													
47-48'													
48-49'													
	49	-55'	Ca	lcite	(51	%) -	ma	gnet	ite (17%) - quartz (13%) - he	ematite (11%) skarn		
49-50'	5	10	60	5		20				Cal-qtz skn	Brecciated	Qtz may be relic ss grains	
												or part of skarn	Non-mag wt %: 80.1
50-51'	5		65			20				"	Massive, vuggy		Au: 0.008
51-52'			65			20				. "	. "		Ag: 0.051
52-53'	80		10							Mag skn	Layered (flat)		Pt: 0.022
53-54'			80			10				Cal skn 	Vuggy		Mag: 17.18
54-55'		10	80			10				"			Fe in mag: 65.62

FOOTAGE				MIN	IER/	ALS				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	55	-66'	Ca	lcite	(50	%) -	ma	gnet	ite (30%) - hematite (17%) s	karn		
55-56'	30	20	50							Cal-mag-hem skn	Banded (flat)		55-60'
56-57'	20	10	55		10	5				Cal-mag skn			Non-mag wt %: 69.9
57-58'	50	10	40							Mag-cal skn	Contact (20°)		Au: 0.020; Ag: 0.028
58-59'	20	20	60							Cal-mag-hem skn	Banded (flat)		Pt: 0.036; Mag: 26.33
59-60'	5	20	75							Cal-hem skn/stockwork	/uggy (cal); stk (mod))	Fe in mag: 64.50
60-61'		25	75							Cal-hem skn/stkwk	Stockwork (strong)		60-66'
61-62'	20	30	50							Cal-hem-mag skn/stkwk	"		Non-mag wt %: 59.4
62-63'	70	10	15						5	Mag-cal skn	Banded (contorted)		Au: 0.010
63-64'	50	10	35			5				"	Layered (flat)		Ag: 0.079
64-65'	30	15	45	5		5				Cal-mag-hem skn	"		Pt: 0.045; Mag: 35.10
65-66'	30	15	45	5		5				"	n		Fe in mag: 69.77
END OF HO	LE									·	·	·	

DRILL HOLE: EC-05-09A

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,589/3,719,877

Elevation: 6,834' Inclination: -90°

Date started: July 9, 2005

Date completed: July 12, 2005

Depth: 90.5' (assayed and logged: 66-90.5')

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter core shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
	66	-78'	Cal	cite	(50%	%) -	mag	neti	te (3	34%) - hematite (17%) sl	k		
66-67'	50	15	30			5				Mag-cal-hem skarn		Cuttings only: 66-68.5'	66-71'
67-68'	50	15	20			5				"			Non-mag wt %: 73.2
68-69'	25	5	70							Xline Is; 1/2 interval is			Au: 0.008
										mag-cal-hem skarn			Ag: 0.030
69-70'	25	5	70							"	Banded, flat		Pt: 0.030
70-71'	40	15	45							Cal-mag-hem skn	"		
71-72'	40	15	45							"	"		71-75'
72-73'	40	15	45							"	Banded, 40°; vuggy		Non-mag wt %: 55.1
73-74'	25	30	45							Cal-hem-mag skn		Irregular replacement	Au: 0.008; Ag: 0.020
74-75'	45	30	25							Mag-hem-cal skn	Numerous cal vits, flat		Pt: 0.028
75-76'	5	25	70							Cal-hem skn	"; few cal vlts, 90°		75-79'
76-77'	30	15	55							Cal-mag-hem skn	Banded, flat		Non-mag wt %: 66.2
77-78'	30	15	55							ıı			Au: 0.004; Ag: 0.044
	78	-82'	Cal	cite	(689	%) -	hem	atite	(29	9%) skarn; minor magne	etite (4%)		
78-79'		30	70							Cal-hem skn			Pt: 0.033
79-80'	15	25	60							Qtz ss, cal cement	Hem. dissem.	Hematitic qtz ss	79-85'
80-81'		30	70							Cal-hem skn; weak stkwl	Weak cal-hem stkwk		Au: 0.009
81-82'		30	70							"	"		Ag: 0.019
	82	-84'	Qua	artz	san	dsto	ne,	calc	ite c	cement; calcite-hematite	e (15%) fracture-filling	}	
82-83'		10	25			65				Qtz ss. cal cement	Cal vlts, flat		Pt: 0.067
83-84'		20	20			60				"	Cal-hem vlt, 90°, 1 cm		
	84	-86'	Her	natit	e (5	60%)	- ca	lcite	(50	9%) skarn	-		
84-85'		50	50							Hem-cal skn	Cal vits, flat, 90°		

FOOTAGE				MIN	IER/	ALS				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
85-86'		50	50							"	"		85-90.5'
	86-	88'	Qua	artz	san	dsto	ne,	calc	ite c	ement			
86-87'			30			70				Qtz ss, cal cement			Au: 0.007
87-88'			30			70				"			Ag: 0.017
	88-	90'	Cal	cite	(40%	%) -	phlo	gop	ite (40%) - hematite (20%) s	karn		
88-89' 89-90'			40 40							Cal-phlog-hem skn			Pt: 0.025
			-		z sa	nds	tone	e, ca	lcite	e cement; calcite-hemat	ite (15%) fracture-filli	! !	!
90-90.5		15`	10			75				Qtz ss, cal cement			
END OF HO	LE												

DRILL HOLE: EC-05-10

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,764/3,719,876

Elevation: 6,881' Inclination: -90°

Date started: April 11, 2005 Date completed: April 12, 2005

Depth: 62' (lost)

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-(

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on April 22, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ERA	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-1	4.	Caic	ite (61%) - m	nagn	etite	(27	%) - hematite (11%) sk	arn		
0-1'	20	10	70							Calcite-magnetite skn		Auger cuttings only, 0-4'	0-5'
1-2'	25	10	65							"			Au: 0.033
2-3'	30	10	60							"			Ag: 0.030
3-4'	30	10	60							"			Pt: 0.016
4-5'	30	10	60							"	Layered (flat)		
5-6'	30	10	60							Cal-mag skn/stkwk	Cal vlt stkwk (weak)		5-10'
6-7'	50	10	40							Mag-cal skn/stkwk	" (mod)		Non-mag wt %: 76.3
7-8'	50	10	40							"	" (weak)		Au: 0.011; Ag: 0.043
8-9'	30	10	60							Cal-mag skn/stkwk	" (mod)		Pt: 0.018; Mag: 37.49
9-10'	20	10	70							"	" (weak)		Fe in mag: 57.07
10-11'	15	15	55			15				Cal-mag-hem qtz skn	Layered (flat)		10-15'
11-12'	25	10	60			5				Cal-mag skn	Coarsely crystalline		Non-mag wt %: 89.2
12-13'	10	10	80							Cal skn			Au: 0.007
13-14'	15	15	70							Cal-mag-hem skn	Vuggy cal vlts;		Ag: 0.020
											layered (flat)		Pt: 0.016; Mag: 37.49
	14	-39'	Cry	stall	line	lime	sto	ne, r	nino	r hematite (3%)			
14-15'		5	95							Crystalline limestone	Layered (flat)		Fe in mag: 59.07
15-16'		10	90							"; minor dissem hem	Minor hem dissem		15-20'
16-17'		10	90							"	"		Au: 0.021
17-18'		10	90							"	"		Ag: 0.566
18-19'		10	90							"	"		Pt: 0.017
19-20'			100							Xline Is	Cal vlt (45°)		
20-21'		5	95							"	"		20-25'
21-22'			100							"	"		Au: 0.024
22-23'			100							"	Banded (flat);		Ag: 0.033
											cal vlt (45°)		Pt: 0.022
23-24'			100							"			
24-25'			100							"	Cal-hem vlt (45°)		

										ROCK	STRUCTURE		ASSAY
FOOTAGE					IER/	LS			1	TYPE	TEXTURE	REMARKS	RESULTS
	etite	tite	9	opite	ide	,	te	olite					Au, Ag, Pt: opt
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Magnetite: % Fe in magnetite: %
25-26'	_	5	95		_	Ť	_		Ť	Xline Is	Minor hem dissem		25-30'
26-27'		5	95							"	"		Au: 0.016
27-28'		5	95							"	"		Ag: 0.039
28-29'			100							"			Pt: 0.020
29-30'			100							"			
30-31'			100							"			30-35'
31-32'			100							"			Au: 0.010
32-33'			100							"	Rare mag-pyrrhotite	Minor diss pyrrhotite	g: 0.167
											vlts (flat)		Pt: 0.023
33-34'		5	95							"	Minor hem dissem		
34-35'		5	95							"	"	Minor diss pyrite	
35-36'		5	95							"	"		35-39'
36-37'		5	95							"	"; cal-hem vlt (flat)		Au: 0.011
37-38'	5		95							"	Minor mag dissem;		Ag: 0.026
											vuggy		Pt: 0.018
38-39'	5		95							"	Minor mag, hem	Minor dissem pyrite	
											dissem		
	39	-49'	Qua	artz	san	dsto	ne,	calc	ite c	ement; minor hematite	(13%)		
39-40'		5	5			90				Qtz ss; cal cement	Hem dissem		39-49'
40-41'		10	15			75				"	Hem (specular) diss		Au: 0.014
41-42'		10	10			80				"	"		Ag: 0.040
42-43'		10	10			80				"	"		Pt: 0.016
43-44'		15	20			65				qtz ss, cal cement;	"		
										dissem hem			
44-45'		15	20			65				"	"		
45-46'		15	20			65				"	"		
46-47'		15	20			65				"	"		
47-48'		15	20			65				"	"		
48-49'		15	20			65				"	"		
	49	-62'	Cal	cite	(42%	%) -	hem	atite	(18	%) - phlogopite (11%) s	karn; minor magne	etite (4%)	
49-50'		20	20	5	35	20				Diop-hem-cal-qtz skn	Cal-hem vlts (flat)		49-55'
50-51'	10	20	65			5				Cal-hem skn			Au: 0.029
51-52'	5	20	70			5				"	Cal-hem vlts (flat)		Ag: 0.029
52-53'	5	20	60	15						Cal-hem-phlog skn/stkwl	Cal stkwk (strong)		Pt: 0.021
53-54'	10	10	60	20						Cal-phlog skn/stkwk	" (moderate)		
54-55'		10	60	20						"	"		
55-56'		20	5						75	Clay zone	Massive, soft pale		55-62'
											greenish clay		Au: 0.029
56-57'		10	5						85	"	"		Ag: 0.034
57-58'		10	20						70	"	"		Pt: 0.011
58-59'	5	20	45	30						Cal-phlog-hem skn			
59-60'		25	45	30						"	Cal-phlog vlts		
60-61'		25	40	20					15	Cal-hem-phlog skn			
61-62'	5	20	50						25	Cal-hem skn			
END OF HO	LE										·		

DRILL HOLE: EC-05-10A (Rotary)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico **Drilling Company:** Yellow Jacket Drilling, Phoenix, AZ

Location (UTM): 448,765/3,719,876

Elevation: 6,881' Inclination: -90°

Date started: August 3, 2005 **Date completed:** August 5, 2005

Depth: 210' (assayed and logged: 62-210')

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-E. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Cuttings collected, bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter cuttings shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter		g								ROCK		A	SSAY RES	SULTS	
FOOTAGE				MIN	IER/	ALS				TYPE	REMARKS				
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite					Au, Ag, P	:: opt	
	Maç	Hen	Calo	Phle	Dio	Que	Flu	Tre	Clay			Non-mag wt %	Au	Ag	Pt
	62	-85'	Cal	cite	(32%	%) -	phlo	gop	ite (24%) - magnetite (23%) - hem	natite (20%) ska	ırn			
62-65'	10	30	45	15						Cal-hem-phlog-mag skn		74.1	0.017	0.128	0.022
65-70'	10	35	35	20						II .		68.3	0.028	0.110	0.028
70-75'	15	10	45	30						Cal-phlog-mag-hem skn		72.6	0.034	0.094	0.031
75-80'	30	15	20	30	5					Mag-phlog-cal-hem skn		48.8	0.051	0.252	0.036
80-85'	50	10	15	25						II		33.7	0.031	0.090	0.031
	85	-110	' Di	ops	ide (56%	6) - c	alci	te (2	7%) skarn; minor magnetite	(5%), hematite	(5%)			
85-90'	10	5	35	10	40					Diop-cal-mag-phlog skn		68.8	0.021	0.107	0.041
90-95'	10	5	25	10	50					"			0.020	0.043	0.018
95-100'	2	8	30		60					Diop-cal skn			0.020	0.043	0.018
100-105'	2	3	25	5	65	5				"			0.022	0.029	0.021
105-110'		5	20	10	65					Diop-cal-phlog skn			0.022	0.029	0.021
	11	0-14	0' C	alci	te (4	18%)) - di	iops	ide ((29%) - hematite (21%) skarn					
110-115'		15	50	5	30					Cal-diop-hem skn			0.017	0.040	0.010
115-120'	5	25	45		25					"			0.012	0.036	0.009
120-125'	5	25	50		20					Cal-hem-diop skn		81.0	0.019	0.077	0.028
125-130'		25	55		20					"		84.1	0.016	0.084	0.025
130-135'		20	50		30					Cal-diop-hem skn			0.009	0.028	0.018
135-140'	2	13	35		50					Diop-cal-hem skn			0.006	0.030	0.012
	14	0-20	0' C	alci	te (6	55 %)) - di	iops	ide	(21%) - hematite (11%) skarn					
140-145'	2	13	45		40					Cal-diop-hem skn			0.007	0.024	0.007
145-150'		20	55		25					"			0.016	0.038	0.026
150-155'		20	60		20					"			0.018	0.038	0.026
155-160'	2	13	70		15					"			0.008	0.012	0.005
160-165'	5	10	60	5	20					u u			0.014	0.018	0.018
165-170'		10	70	5	15					n .			0.006	0.017	0.007
170-175'		10	75		15					u u			0.004	0.010	0.007
175-180'		10	75		15					II .			0.006	0.014	0.016
180-185'		10	75		15					"			0.001	0.008	0.004
185-190'	5	15	65		15					u			0.001	0.096	0.006

										ROCK		Α	SSAY RE	SULTS	
FOOTAGE				MIN	NER/	ALS				TYPE	REMARKS			_	
	Magnetite	atite	te	Phlogopite	side	tz	rite	Tremolite					Au, Ag, P	t: opt	
	Magr	Hematite	Au, Ag, Pt Calcite Cal												Pt
190-195'	2	13	70		25					"			0.001	0.010	0.011
195-200'	2	13	55		30					u			0.001	0.010	0.011
	20	0-21	0' N	lus	covi	te a _l	olite	, miı	nor i	magnetite (5%) - hematite (5%	%) - calcite (30%	6) fracture filling	յ; minor d	iopside (1	5%) skarn I
200-205'	5	5	30		15					Aplite* (muscovite) mixed with cal-diop-hem skn			0.001	0.077	0.010
205-210'	5	5	30		15					"			0.001	0.210	0.006
END OF HO	LE									•	•				
										·					

^{*}Aplite contains disseminated and minor fracture-filling cal-hem. This is <u>not</u> a primary plutonic iron oxide but represents cal-hem mineralization of same type as seen in the skarns, etc. The presence of diopside is evidence that the aplite has also been skarnitized.

DRILL HOLE: EC-05-11

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,516/3,719,758

Elevation: 6,831' Inclination: -90°

Date started: April 18, 2005 **Date completed:** April 20, 2005

Depth: 59' (lost)

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on April 11, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarte		-								ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite:
	0-3	35'	Mag	gneti	te (5	58%) - ca	alcit	e (24	4%) - hematite (17%) skar	n		
0-1'	70	10	20							Magnetite-calcite skn		Auger cuttings only, 0-4'	0-5'
1-2'	70	10	20							"			Non-mag wt %: 49.0
2-3'	60	20	20							Mag-hem-cal skn			Au: 0.011; Ag: 0.028
3-4'	60	20	20							"			Pt: 0.026; Mag: 37.17
4-5'	60	30	10							Mag-hem skn	Layered (flat)		Fe in mag: 60.99
5-6'	50	30	20							Mag-hem-cal skn	Layered (flat);		5-10'
											cal-hem stkwk (weak))	Au: 0182
6-7'	40	30	30							"			Ag: 0.129
7-8'	30	30	40							Cal-mag-hem skn	Layered (flat)		Pt: 0.022
8-9'	30	30	40							" ; cal-hem stkwk	Cal-hem stkwk (mod)		
9-10'	60	20	20							Mag-hem-cal skn;			
										cal-hem stkwk			
10-11'	60	15	25							Mag-cal-hem skn			10-20'
11-12'	60	15	25							"			Non-mag wt %: 15.3
12-13'	75	15	10							Mag-hem skn			Au: 0.009
13-14'	75	15	10							"			Ag: 0.021
14-15'	75	15	10							" ; cal-hem stkwk	Cal-hem stkwk (mod)		Pt: 0.015
15-16'	50	20	30							Mag-cal-hem skn;	"		Mag: 65.61
										cal-hem stkwk			Fe in mag: 66.57
16-17'	50	20	30							"	"		
17-18'	50	20	30							"	"		
18-19'	50	20	30							"	"		
19-20'	50	20	30							"	"		
20-21'	50	20	30							"	"		20-25'
21-22'	50	20	30							"	"		Non-mag wt %: 15.6
22-23'	50	20	30							"	"; layered (flat)		Au: 0.009; Ag: 0.026
23-24'	90	5	5							Mag skn	Cal-hem vlts; vuggy		Pt: 0.020; Mag; 70.18
24-25'	80	10	10							" ; cal-hem stkwk	Cal-hem stkwk (mod)		Fe in mag: 61.46
25-26'	70	10	20							Mag-cal skn; cal-hem stkw	ı "		25-30'

										ROCK	STRUCTURE		ASSAY
FOOTAGE		1		MIN	IER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite:
26-27'	80	10	10							Mag skn; cal-hem stkwk	Cal-hem stkwk (mod)		Non-mag wt %: 12.7
27-28'	80	10	10							"	"		Au: 0.007; Ag: 0.024
28-29'	80	10	10							"	"		Pt: 0.007; Mag: 79.43
29-30'	80	10	10							"	"		Fe in mag: 68.89
30-31'	50	10	40							Mag-cal skn	Banded (40°)		30-34'
31-32'	20	20	60							Cal-mag-hem skn	"		Non-mag wt %: 40.0
32-33'	40	10	50							Cal-mag skn	Banded (flat)		Au: 0.007; Ag: 0.024
33-34'	60	10	20	10						Mag-cal skn			Pt: 0.007; Mag: 46.76
		10	40	10						"			Fe in mag: 66.57
34-35'	40												34-39'
	35	-39'	Ca	lcite	(84	%) -	hen	natit	e (1	5%) skarn			
35-36'		15	85							Cal-hem skn	Hem dissem		Au: 0.007
36-37'		15	85							"	"		Ag: 0.038
37-38'		15	85							"	"		Pt: 0.023; Mag: 19.90
38-39'	5	15	80							II .	" ; banded (flat)		Fe in mag: 68.09
	39	-53'	Ca	lcite	(63	%) -	ma	gnet	ite (21%) - hematite (15%) ska	arn		
39-40'	40	10	50							Cal-mag skn	Banded (flat); cal-hem		39-45'
										-	vlts (50°)		Au: 0.007
40-41'	35	35	30							Mag-hem-cal skn	Banded (flat)		Ag: 0.131
41-42'	20	25	55							Ca-hem-mag skn	Banded (40°)		Pt: 0.016
42-43'	20	25	55							"	Banded (20°)		Mag: 29.00
43-44'		10	90							Cal skn	Massive texture		Fe in mag: 60.27
44-45'	30	10	55	5						Cal-mag skn	Banded (flat)		
45-46'	45	10	45							"	"		45-49'
46-47'	35	20	45							Cal-mag-hem skn	"		Au: 0.007; Ag: 0.028
47-48'	20	10	70							Cal-mag skn			Pt: 0.025; Mag: 16.42
48-49'	15	30	55							Cal-hem-mag skn	Layered (contorted)		Fe in mag: 57.95
49-50'		5	95							Cal skn	Cal-hem vlts		49-59'
50-51'		5	95							u u	"		Au: 0.007
51-52'	20	10	70							Cal-mag skn	Layered (flat)		Ag: 0.025
52-53'	20	10	70							"	"		Pt: 0.022
	53	-59'	Cr	ysta	lline	lim	esto	ne					
53-54'		5	95							Crystalline limestone	Cal-hem vits		
54-55'			95							"	"		
55-56'			95							"	"		
56-57'		5	95							"	"		
57-58'		5	95							"	"		
58-59'		5	95							"	"		
END OF HO	LE						-				•		

DRILL HOLE: EC-05-11A (Rotary)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Yellow Jacket Drilling, Phoenix, AZ

Location (UTM): 448,531/3,719,749

Elevation: 6,839' Inclination: -90°

Date started: August 8, 2005 Date completed: August 10, 2005

Depth: 340' (assayed and logged: 59-340')

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-E. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-(

Cuttings collected, bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter cuttings shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

										ROCK		ASSAY RES	JLTS	
FOOTAGE				MIN	ER/	\LS				TYPE	REMARKS	•	Ē	
	Magnetite	Hematite	ite	Phlogopite	Diopside	ţ	rite	Tremolite				Au, Ag, Pt:	opt	
	+ =		Calcite		Diop	Quartz	Fluorite	Trem	Clay			Non-mag wt % Au	Ag	Pt
59-75'	NO	SAN	/IPLE											
	75	-110	' Qu	ıartz	san	dsto	one,	cald	cite	cement, disseminated and	fracture-filling calcite-her	matite (12%)		
75-80'	10	5	15			70				Qtz ss., cal cement	lineralized w/ dissem, mino fracture-filling cal-hem	or 0.009	0.030	0.008
80-85'	5`	15	20			60				"; mixed with minor	"	0.015	0.044	0.027
										diop-cal-hem skn				
85-90'	2	18	20			60				Qtz ss, cal cement; minor	"	0.018	0.072	0.020
										aplite				
90-95'	5	15	20			60				"	"	0.018	0.067	0.024
95-100'	5	10	20			65				"	"	0.011	0.055	0.026
100-105'	2	13	20			65				"	"	0.027	0.083	0.031
105-110'		10	20			70				"		0.022	0.080	0.028
	11	0-11	5' M	lusc	ovite	е ар	lite,	min	or h	ematite (5%) - calcite (5%)				
110-115'		10	10							Aplite (muscovite),	Aplite contains dissem. and	d 0.017	0.073	0.030
										minor qtz ss	ninor fracture-filling cal-her	n		
											that represents mineraliz.			
	11	5-16	5' C	ryst	allin	e lin	nest	one	, dis	seminated and fracture-fill	ling hematite (11%) - calci	te		
115-120'		5	85			10				Xline Is, minor qtz ss		0.003	0.025	0.009
120-125'			100							Xline Is		0.007	0.023	0.003
125-130'			100							"		0.004	0.018	0.003
130-135'		5	95							"		0.007	0.015	0.004
135-140'		15	85							"		0.007	0.015	0.004
140-145'		25	75							"	Xline Is with high dissem,	0.022	0.037	0.021
											fracture-filling hem content			
145-150'		20	80							"	"	0.038	0.225	0.018
150-155'	I	15	85	I						"	"	0.014	0.038	0.004

										ROCK		ASSA	Y RESI	JLTS	
FOOTAGE				MIN	ER/	ALS I				TYPE	REMARKS			-	
	Magnetite	Hematite	ite	Phlogopite	Diopside	rtz	rite	Tremolite				Au,	Ag, Pt:	opt	
	Мад		Calcite	Phlc	Diop	Quartz	Fluorite	Tren	Clay	,	"	Non-mag wt %		Ag	Pt
155-160'		15	85		_					"	" "	1	0.011	0.045	0.007
160-165'		10	90								"		0.037	0.102	0.037
	16	5-18	5' Q	uart	z sa	nds	tone	e, ca	lcite	cement, disseminated and	d fracture-filling calcite - l	hematite (15%)			
165-170'		15	20			65				Qtz ss, cal cement	Qtz ss w/ high dissem,		0.035	0.118	0.031
											fracture-filling hem content	t			
170-175'		15	20			65				"	"		0.004	0.201	0.002
175-180'		15	35	10	10	30				Mixed qtz ss, cal cement			0.004	0.201	0.002
										and cal-hem-diop skn					
180-185'		15	20	5	5	55				II .			0.006	0.029	0.011
	18	5-19	5' C	alcit	e (4	3%)	- he	mati	ite (2	23%) - phlogopite (15%) sk	arn				
					_	ı		_			Ī	1			
185-190'		25	50	15	5			5		Cal-hem-phlog skn			0.006	0.050	
190-195'		20	35	15	5	20		5		Mixed cal-hem-phlog skn,	Qtz ss w/ high dissem,	38.9	0.058	0.193	0.065
											fracture-filling hem content	[
	19	5-20	5' C	alcit	e (4	3%)	- ma	agne	tite	(25%) - phlogopite (15%) -	hematite (13%) skarn				
195-200'	30	15	35	15	5					Cal-mag-phlog-hem skn		1	0.058	0.193	0.065
200-205'	20	10	50	15	5					"		61.4	0.044	0.099	0.068
	20	5-21	5' Q	uart	z sa	nds	tone	. ca	lcite	cement, minor phlogopite	- magnetite (8%) - hemat	tite (8%) skarn			
								,							
205-210'	10	5	25	5		55			N	/lixed cal-mag-hem skn, qtz s	SS		0.044	0.099	0.068
210-215'	5	10	25	15	5	40				"			0.014	0.041	0.002
	21	5-23	5' C	alcit	e (7	8%)	- ph	logo	pite	e (10%) - hematite (9%) ska	rn				
215-220'	2	8	70	15	5	I				Cal-phlog skn		I	0.014	0.041	0.002
215-220	2	8	75	15	٦				Mi	xed xline ls, minor cal-phlog	 ekn		0.014	0.041	0.002
225-230'	2	8	85	5					IVII	"			0.015	0.100	0.007
230-235'	2	13		5						"				0.079	0.040
200 200												ļ	0.000	0.070	0.040
	23	5-29	יס ע	uart	z sa	nas	tone	, ca	icite	cement, disseminated her	natite (9%)				
235-240'		15	25			60				Qtz ss, cal cement			0.033	0.079	0.040
240-245'		15	25			60				"			0.041	0.165	0.029
245-250'		15	25			60				"			0.040	0.044	0.027
250-255'	5	20	70		5					Cal-hem skn			0.029	0.030	0.034
255-260'	5	15	25		5	60				Mixed qtz ss, cal cement,			0.030	0.031	0.032
										cal-hem skn					
260-265'	5	15	25		5	60				"				0.031	
265-270'		5	20			75				Qtz ss, cal cement				0.088	
270-275'	2	3	20			75				"				0.088	
275-280'		2	23			75				"				0.027	
280-285'	2	3	20			75				"			0.010		
285-290'			20			80				<u>"</u>			0.009	0.022	
290-295'		2	20		3	75				"	<u> </u>		0.009	0.022	0.006
	29	5-31	5' C	alcit	e (5	0%)	- he	mati	ite (15%) skarn, minor quartz s	andstone, calcite cement				
295-300'		15	50		15	20			١	/lixed cal-hem-diop skn, qtz s	SS		0.009	0.022	0.006
300-305'			50		ı	20				"					0.041
		. '	•		•	•	•	•	•	•	•	•			

										ROCK		ASSAY RI	SULTS	
FOOTAGE				MIN	ER/	LS				TYPE	REMARKS	_	=	_
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	ırtz	Fluorite	Tremolite	_			Au, Ag,	Pt: opt	
	Maç	Hen	Cal	Чd	Dio	Quartz	Flu	Tre	Clay			Non-mag wt % A	ı Ag	Pt
305-310'		15	50		15	20				"		0.0	21 0.033	0.026
310-315'	10	15	50		10	15				II		0.0	0.014	0.008
	31	5-34	0' M	usc	ovite	е ар	lite,	min	or h	ematite (7%) - calcite fracti	ure-filling			
315-320'		10			10					Aplite		0.0	0.013	0.006
320-'325'		5			10					"		0.0	0.017	0.030
325-330'		5	5		5					"		0.0	0.015	0.028
330-335'	2	8	5							"		0.0	05 0.288	0.034
335-340'	2	8	5							"		0.0	0.021	0.008
END OF HO	LE									•		•		

^{*}Aplite contains disseminated and minor fracture-filling cal-hem. This is <u>not</u> a primary plutonic iron oxide but represents cal-hem mineralization of same type as seen in the skarns, etc. The presence of diopside is evidence that the aplite has also been skarnitized.

DRILL HOLE: EC-05-12

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,686/3,719,761

Elevation: 6,883' Inclination: -90°

Date started: April 14, 2005

Date completed: April 15, 2005

Depth: 60.5'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A Contact: Mary Lee Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C., Canada One-quarter core shipped: by UPS Ground on May 2, 2005 to: Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter	551	J J1								ROCK	STRUCTURE		ASSAY
FOOTAGE				MINE	RA	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	e e	e e	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
	0-1	1'	Mag	netite	€ (6	9%)) - Ca	alcit	e (19	9%) - hematite (12%)	skarn		
0-1'	75	5	20							Mag-cal skarn		Auger cuttings only, 0-2'	0-2'
													Non-mag wt %: 3.1
													Au: 0.015; Ag: 0.037
1-2'	75	5	20							"			Pt: 0.016; Mag: 0.44
													Fe in mag: 66.89
2-3'	75	10	15							"	Layered (flat);		2-6'
											cal-hem vlts		Non-mag wt %: 50.5
3-4'	60	15	25							Mag-cal-hem skn	"		Au: 0.011
4-5'	60	15	25							" ; cal-hem stkwk	Cal-hem stkwk (weak)		Ag: 0.143
5-6'	65	15	20							"	Layered (flat);		Pt: 0.030
6-7'	65	15	20							"	Cal-hem stkwk(mod)		6-11'
7-8'	65	15	20							"	Layered (flat);		Non-mag wt %: 19.4
											cal-hem stkwk (weak)		Au: 0.007
8-9'	70	15	15							"	"		Ag: 0.040
9-10'	80	10	10							Mag skn	Massive texture		Pt: 0.030; Mag: 58.59
10-11'	70	15	15							Mag-hem-cal skn	Cal-hem vlts (flat)		Fe in mag: 68.17
	11-	60.	5' C	rysta	llin	e lii	mes	tone	e, mi	inor hematite (5%)			
11-12'		5	95							Crystalline limestone			11-20'
12-13'		5	95							"	Cal-hem vlts (flat)		Au: 0.094
13-14'		5	95							II .	u .		Ag: 0.048
14-15'		5	95							II .	u u		Pt: 0.019
15-16'		5	95							n n	"		
16-17'		5	95							"	"		
17-18'		5	95							"	"		
18-19'		5	95							"	"		
19-20'		5	95							"	"		
20-21'		10	90							" ; cal-hem stkwk	Cal-hem stkwk (mod)		20-25'
21-22'		5	95							"	"		Au: 0.065

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	IER.	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt Magnetite: % Fe in magnetite: %
22-23'		5	95							"	"		Ag: 0.050
23-24'		5	95							"	"		Pt: 0.014
24-25'		5	95							Crystalline limestone	Hem dissem		
25-26'		5	95							Crystalline limestone	Hem dissem;		25-30'
											layered (flat); vuggy		Au: 0.067
26-27'		5	95							"	"		Ag: 0.038
27-28'		5	95							"	Hem dissem; banded		Pt: 0.014
											(flat); vuggy		
28-29'		5	95							"	Gouge and clay(?)-rich	1	
											interval		
29-30'		5	95							"	Hem dissem		
30-31'		5	95							"	"; uniform texture		30-35'
31-32'		5	95							"	"		Au: 0.010
32-33'		5	95							"	"		Ag: 0.178
33-34'		5	95							"	"		Pt: 0.014
34-35'		5	95							"	"		
35-36'		5	95							"	"		35-42'
36-37'		5	95							"	"		Au: 0.043
37-38'		5	95							"	"; cal-hem vlts (80°)		Ag: 0.052
38-39'		5	95							"			Pt: 0.013
39-40'		5	95							"	Hem dissem;		
											uniform texture		
40-41'		5	95							"	Cal-hem vlts (20°)		
41-42'		5	95							"	"		
42-43'		5	95							"	Hem dissem		42-50'
43-44'		5	95							"	Cal-hem vlts (flat)		Au: 0.019
44-45'		5	95							"	"		Ag: 0.045
45-46		5	95							"	"		Pt: 0.013
46-47'		5	95							"	"		
47-48'		5	95							"	"		
48-49'		5	95							"			
49-50'		5	95							"			
50-51'		5	95							"			50-60.5'
51-52'		5	95							"			Au: 0.038
52-53'		5	95							"	Cal-hem vlts		Ag: 0.097
53-54'		5	95							"			Pt: 0.012
54-55'		5	95							"			
55-56'		5	95							"		Minor dissem pyrite	
56-57'		5	95							"			
57-58'		5	95							"	Cal hem vits (flat)		
58-59'		5	95							"			
59-60'		5	95									Minor dissem pyrrhotite	
60-60.5'		5	95							"			
END OF HO	LE												

DRILL HOLE: EC-05-12A (Rotary)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico
Drilling Company: Yellow Jacket Drilling, Phoenix, AZ

Location (UTM): 448,682/3,719,762

Elevation: 6,882' Inclination: -90°

Date started: August 19, 2005 Date completed: August 21, 2005

Depth: 405' (assayed and logged: 60.5-405')

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-E. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-

Cuttings collected, bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA

Geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter cuttings shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

One-quarter	Cut	ung	SSI	nppe	ea:							ı			
										ROCK			ASSA'	Y	
FOOTAGE				MIN	IER/	ALS				TYPE	REMARKS		RESUL'	TS	
	Magnetite	Hematite	ite	Phlogopite	Diopside	rtz	rite	Tremolite				A	u, Ag, Pt	: opt	
	Mag	Hem	Calcite	Phlo	Diop	Quartz	Fluorite	Tren	Clay			Non-mag wt %	Au	Ag	Pt
	60	.5-70	0' Q	uart	z sa	nds	tone	e, ca	lcite	e cement, disseminated hema	tite (13%)				
60.5-65'		10	20			70				Qtz ss, cal cement			0.010	0.035	0.011
65-70'		15	20			65				"			0.009	0.040	0.010
	70	-95'	Cal	cite	(449	%) -	hem	atit	e (27	%) - diopside (21%) skarn					
70-75'		25	50			25				Cal-hem-diop skn			0.031	0.108	0.019
75-80'	2	33	35		30					"			0.029	0.124	0.013
80-85'		25	30	5	40					Diop-cal-hem skn			0.008	0.034	0.006
85-90'		15	50	10	25					Cal-diop-hem-phlog skn			0.006	0.072	0.006
90-95'	5	5	55	25	10					Cal-phlog-diop skn			0.007	0.066	0.005
	95	-110)' Ma	agne	etite	(38	%) -	calc	ite (22%) - phlogopite (22%) - hen	natite (12%) skarn				
95-100'	40	15	15	20	10					Mag-phlog-hem-cal-diop skn		15.7	0.041	0.205	0.019
100-105'	60	5	15	15	5					Mag-cal-phlog skn		11.3	0.039	0.212	0.021
105-110'	15	15	35	30	5					Cal-phlog-mag-hem skn		11.3	0.039	0.212	0.021
	11	0-13	80' C	Calci	te (4	16%)) - h	ema	tite	(24%) - diopside (20%) skarn					
110-115'	5	20	40	15	20					Cal-hem-diop-phlog skn		67.8	0.040	0.218	0.035
115-120'	2	23	60	5	10					Cal-hem-diop skn			0.025	0.200	0.028
120-125'	2	33	40	5	20					"			0.022	0.088	0.018
125-130'		20	45	5	30					Cal-diop-hem skn			0.017	0.057	0.019
	13	0-21	0' [Diop	side	(55	%) -	cal	cite ((22%) - hematite (11%) skarn					
130-135'	2	13	25		60					Diop-cal-hem skn			0.006	0.037	0.006
135-140'	2	8	20		70					Diop-cal skn			0.006	0.037	0.006
140-145'		5	15	5	75					"			0.007	0.033	0.006
145-150'		15	15		30					· Mixture diop-hem-cal skn, aplite	•		0.004	0.032	0.005
150-155'		20	10	5	5					Mixture aplite, hem-cal skn			0.004	0.040	0.004
155-160'		15			70					Diop-hem-cal skn			0.003	0.029	0.005
100-100		ا ۲۰۰	١٠٠١	ı ~	, 0	l	ı	l	l	Diop hom-oar skir		I	3.000	0.020	0.000

										ROCK			ASSA	Υ	
FOOTAGE	ī			MIN	IER/	ALS	1			TYPE	REMARKS		RESUL	TS	
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	ау			A	u, Ag, P	t: opt	
	Ma	He	ပီ	Ph	Die	۵r	Ę	Ţ	Clay			Non-mag wt %	Au	Ag	Pt
160-165'		15	55		30					Cal-diop-hem skn			0.007	0.055	0.004
165-170'		10	30		60					Diop-cal-hem skn			0.010	0.052	0.003
170-175'		10	20		50			20		Diop-cal-trem-hem skn			0.010	0.058	0.001
175-180'		5	15		80					Diop-cal skn			0.010	0.058	0.001
180-185'		10	30		60					Diop-cal-hem skn			0.060	0.309	0.033
185-190'		10	30		60					"			0.060	0.309	0.033
190-195'		10	30		60					"			0.011	0.041	0.007
195-200'		10	20		70					"			0.011	0.041	0.007
200-205'		10	20		70					"			0.013	0.044	0.007
205-210'		15	10		25				ı	Mixture aplite, diop-hem-cal sk	n		0.022	0.039	0.009
	21	0-23	5' N	lusc	ovi	te a _l	olite	, miı	or (calcite (12%) - hematite (5%)	fracture filling				
210-215'		5	15							Aplite* (muscovite)			0.025	0.047	0.014
215-220'		5	15							"			0.025	0.047	0.014
220-225'		5	10		5					"	Diop may be after		0.012	0.042	0.002
											aplite: endoskarn (?)	•			
225-230'		5	10		10					"	"		0.012	0.042	0.002
230-235'		5	10							"			0.028	0.056	0.003
	23	5-24	5' N	lusc	covi	te a _l	olite	, abı	ında	ant calcite (18%) - hematite (1	18%) fracture-filling				
235-240'		15	15		5					"	Abundant fracture-		0.028	0.056	0.003
240-245'		20	20							"	filling cal-hem. Aplite	•	0.030	0.116	0.005
											is strongly mineral-				
											ized with fracture-				
	24	- 00				/50	<u></u>		••••		filling, dissem cal-her	n			
	24:					(53	%) -	caic		(20%) - hematite (15%) skarn		1			
245-250'			20		70				[Diop-cal-hem skn, mixture aplit I	e I		0.025	0.105	0.007
250-255'	5	15			60								0.027	0.095	0.015
255-260'	2	18			55					Diop-cal-hem skn			0.007	0.044	0.001
260-265'			15		25		<u> </u>	_		Diop-cal-hem skn, aplite			0.010	0.038	0.001
	26			lusc	covi	te a _l	olite	, miı	or (calcite (12%) - hematite (9%)	fracture-filling	ı			
265-270'		15	15							Aplite	Aplite is strongly		0.010	0.026	0.001
											mineralized with				
											fracture-filling, dissen	n I			
										_	cal-hem 				
270-275'		15								" "	"		0.028	0.100	0.003
275-280'		15	10							" "			0.006	0.098	0.001
280-285' 285-290'		10 5	15 10							"			0.033 0.035	0.047 0.044	0.008
290-295'		5 5	10							"			0.035	0.044	0.009
290-295 295-300'		5	10							"			0.007	0.030	0.001
300-305'		5	10							"			0.011	0.030	0.001
333 000	30			lusc	covi	te a	olite	, dio	psic	ı de (36%) - calcite (14%) - hem	natite (9%) skarn	<u> </u>	0.010	0.002	0.002
305-310'		10	15		10					Aplite, diop-cal-hem skn			0.013	0.051	0.002

										ROCK			ASSA		
FOOTAGE					IER/	ALS	_	Г	ı	TYPE	REMARKS	l	RESUL	TS	
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	>			A	u, Ag, P	t: opt	
	Maç	неп	Cal	ΙЧ	Dio	gus	Flu	Tre	Clay			Non-mag wt %	Au	Ag	Pt
310-315'		15	15	5	15					Aplite, diop-hem-cal skn			0.014	0.049	0.005
315-320'		15	15	5	65					Diop-hem-cal skn, minor aplite	9		0.040	0.225	0.011
320-325'	2	8	15	5	40					Diop-cal-hem skn, aplite			0.033	0.183	0.009
325-330'	5	5	20		45					"	Diop occurs locally		0.027	0.066	0.007
											as replacement in	1			
											aplite. Probably from) •			
											205' to bottom of				
											hole the skarn is				
											endoskarn. Also, it				
											is possible that				
											limestone inclusions				
											have been				
											skarnitized.				
330-335'		5	10		40					"	"		0.030	0.075	0.007
335-340'		5	10		40					"	"	ļ	0.005	0.009	0.001
340-345'	NC) SA	MPL	E											
	34	5-36	0' N	/lus	covi	te a	plite	, mi	nor	diopside (15%) skarn					
345-350'		5	10		10					Aplite	Clearly diopside alt.		0.004	0.012	0.001
											aplite: endoskarn				
350-355'	2	3	5	5	5					"	"		0.002	0.009	0.001
355-360'		5	5	5	20					Aplite, diop skn	"		0.002	0.019	0.001
360-365'	NC) SA	MPL	Ε											
	36	5-38	0' N	/lus	covi	te a	plite	, dic	psi	de (33%) skarn					
365-370'		5	5	5	40					Diop skn, aplite	"		0.001	0.011	0.001
370-375'		5	5	5	40					"	"		0.004	0.017	0.001
375-380'		5	5	5	20					Aplite, diop skn	"		0.004	0.010	0.001
	38	0-40	5' N	/lus	covi	te a	plite	, mi	nor	calcite (5%) - hematite (5%)					
380-385'		5	5		10					Aplite*	Clearly diopside alt.		0.001	0.009	0.001
											aplite: endoskarn				
385-390'					5					"			0.004	0.017	0.008
390-395'		10	10							"			0.004	0.014	0.006
395-400'		5	5							"			0.004	0.070	0.003
400-405'		5	5		5					"			0.007	0.233	0.002
END OF HO	LF	J	<u> </u>		<u> </u>				!	1	!		3.001	0.200	0.002

*Aplite contains disseminated and minor fracture-filing cal-hem. This is <u>not</u> a primary plutonic iron oxide but represents cal-hem mineralization of same type as seen in the skarns, etc. The presence of diopside is evidence that the aplite has also been skarnitized.

DRILL HOLE: EC-05-13 (Core)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,247/3,719,903

Elevation: 6,842' Inclination: -90°

Date started: June 22, 2005

Date completed: June 25, 2005

Depth: 82'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter core shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

Ono quai										ROCK	STRUCTURE		ASSAY
FOOTAGE					ER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
	0-1	10' (Cryst	allir	ne lir	mes	tone	, cal	cite	-hematite (11%) fractur	e-filling		
0-1'		15	85							Crystalline limestone		Auger cuttings only: 0-1.5'	0-10'
1-2'		5	95							"	Thin bands black constitu	Cal-hem vlts indicate this	Au: 0.044
											ent - probably carbon; 20	location is in El Capitan mineralized system	Ag: 0.216 Pt: 0.038
2-3'		20	80							" ; weak stockwork	Cal-hem vlts, 90°, 20°;		
											cal-hem weak stockwork		
3-4'		10	90							"	"		
4-5'		10	90							Xline Is	Numerous cal-hem vlts; flat	Xline Is is white	
5-6'		5	95							"	Cal-hem vlts, flat; vuggy; cal-hem repl patches	Cal-hem repl patches	
6-7'		2	98							· ·			
7-8'		30	70							· ·	Num. cal-hem vlts, flat		
8-9'		2	98							m .			
9-10'		10	90							"			
	10	-82'	Crys	stalli	ine I	ime	ston	e, m	ino	calcite-hematite (3%)	fracture-filling		
10-11'		5	95							Xline Is			10-20'
11-12'		5	95							"			Au: 0.048
12-13'		5	95							"			Ag: 0.335
13-14'		2	98							"			Pt: 0.037
14-15'		2	98							"			
15-16'		2	98							"			
16-17'		2	98							"			
17-18'		2	98							Fault gouge		Limonite color (after hem?) in crushed xline Is	
18-19'		2	98							"		"	

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	ALS	ı		ı	TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
19-20'	_	2	98	_	Ë	۳	Ë	┢	۲	"		11	
20-21'		2	98							"		Limonite color (after hem?)	20-30'
		_										in crushed xline Is	Au: 0.006
21-22'		2	98							Xline Is	Rare cal-hem vits	Yellowish color could indi-	Ag: 0.201
												cate high hematite	Pt: 0.025
22-23'		2	98							"	Cal-hem vlts		
23-24'		5	95							"	Irreg cal-hem vlts, wisps		
24-25'		5	95							"	Irreg pattern of cal-hem	This rock is altered, replaced	I
											replacement		
25-26'		5	95							"	Irreg patt of cal-hem vits,	"	
											wisps, repl		
26-27'		5	95							"	"	"	
27-28'		5	95							"	"	"	
28-29'		5	95							"	"	"	
29-30'		2	98							"	"	"	
30-31'		2	98							"	"	"	
31-32'		2	98							"	"	"	30-40'
											Vuggy	Vugs appear to be cal-hem	Au: 0.007
32-33'		2	98							"		replacement pods	Ag: 0.029
33-34'		2	98							"	"	"	Pt: 0.025
34-35'		2	98								"; rare cal-hem vits, flat		
35-36'		2	98								"	"	
36-37'		2	98										
37-38'		2	98								<u>"</u>		
38-39'		2	98								Dans sal barra vilta flat	·	
39-40' 40-41'		2	98							Limanatama	Rare cal-hem vlts, flat	Ones de acilifares se matudina	40.50
			100							Limestone		Gray fossiliferous, not xline	40-50'
41-42'		2	100							Xline Is	Para and ham vitte 00°		Au: 0.009 Ag: 0.017
42-43' 43-44'		2	98 98							Limestone	Rare cal-hem vitis, 90°		Ag. 0.017 Pt: 0.023
43-44 44-45'		2	98							Xline Is	Rare cal-hem vitis		Ft. 0.023
44-45 45-46'		2	98							Allile is	Mare cal-field vitis		
46-47'		2	98							"	"		
47-48'		2	98							"	"		
48-49'		2	98							"	"		
49-50'		2	98							"	Vuggy	Vugs appear to be cal-hem	
40 00		-	00								vaggy	replacement pods	
50-51'		2	98							"	" ; rare cal-hem vits, flat	* * * * * * * * * * * * * * * * * * * *	50-60'
51-52'		2	98							"	"	п	Au: 0.011
52-53'		2	98							"	"	п	Ag: 0.019
53-54'		2	98							"	"	п	Pt: 0.024
54-55'		2	98							"	Rare cal-hem vits, flat		
55-56'		2	98							"	"		
56-57'		5	95								Cal-hem vlt, 80°, 1 cm		
57-58'		5	95							"	Cal-hem vlts, 45°,		
			-								wisps, pods		
58-59'		5	95							"	"		

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
59-60'		5	95							"	"		
60-61'		5	95							"	"		60-70'
61-62'		2	98							"	"		Au: 0.007
62-63'		5	95							Xline Is	Cal-hem vlts, wisps, pods		Ag: 0.030
63-64'		5	95							"	н		Pt: 0.023
64-65'		5	95							"	"		
65-66'		2	98							"	Irreg fracture network;		
											cal-hem vits		
66-67'		5	95							Xline ls; weak stockwork	Network cal-hem vits;		
											some pods		
67-68'		5	95							"	II .		
68-69'		2	98							Xline Is	Rare cal-hem vits		
69-70'		2	98							"	II .		
70-71'		2	98							"	II .		70-82'
71-72['		2	98							II .	н		Au: 0.008
72-73'		2	98							II .	н		Ag: 0.032
73-74'		2	98							II .	II .		Pt: 0.023
74-75'		2	98							II .	II .		
75-76'		2	98							"	"		
76-77'		10	90							"	Irregular cal-hem vlts		
77-78'		2	98							"			
78-79'		2	98							"			
79-80'		2	98							"			
80-81'		2	98							"			
81-82'		2	98							II .			
END OF H	IOLE												

DRILL HOLE: EC-05-14 (Core)

Company: El Capitan Precious Metals, Inc. Scottsdale, Arizona

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Enviro-Drill, Inc., Albuquerque, New Mexico

Location (UTM): 448,302/3,719,818

Elevation: 6,803' Inclination: -90°

Date started: June 25, 2005 Date completed: June 27, 2005

Depth: 82'

Core stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A. Contact M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Core collected, sawed (quartered), bagged, and shipped to assayer by: David S. Smith, Consulting geologist, Seattle, WA Core geologic log and confirmation of chain of custody sample by: Clyde L. Smith, Consulting geologist, Vancouver, B.C.

One-quarter core shipped: to Auric Metallurgical Labs, 3260 Directors Row, Salt Lake City, UT 84104

Ono quai										ROCK	STRUCTURE		ASSAY
FOOTAGE	<u> </u>			MIN	ER/	LS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
	0-	11' (Cryst	allir	ne lir	nes	tone	, ca	lcite	-hematite (23%) stockw	ork		
0-1'		25	75							Crystalline limestone	Irreg fracture netowrk		0-5'
1-2'		20	80							"	" ; cal-hem vlts, flat, 90°		Au: 0.012
2-3'		10	90							"	" ; dissem hem		Ag: 0.077
3-4'		25	75							Xline ls; weak cal-hem stl	Multiple fracture directions		Pt: 0.007
4-5'		10	90							"	in stockwork "		
5-6'		40	60						,	ı Strong cal-hem stockworl	n n		5-10'
6-7'		20	80							Xline ls; mod cal-hem stk			Au: 0.028
7-8'		30	70							Mod. cal-hem stk	"		Ag: 0.105
8-9'		20	80							п	"		Pt: 0.015
9-10'		25	75							Strong cal-hem stk	n .		
10-11'		25	75							"	W .		10-20'
	11	-19'	Crys	stalli	ine I	ime	ston	e					
11-12'		2	98							Xline Is			Au: 0.030
12-13'			100							· ·			Ag: 0.095
13-14'			100							п			Pt: 0.018
14-15'			100							n .			
15-16'			100							"			
16-17'			100							"			
17-18'		6	95							n .	Cal-hem vlts		
18-19'		2	98							"	Rare cal-hem pods, vlts		
	19	-22'	Crys	stalli	ine I	ime	ston	e, c	alcit	e-hematite (18%) stocky	vork		
19-20'		15	85							Xline ls; mod cal-hem stk	<u>. </u>		
20-21'			80							"			20-25'

FOOTAGE				MIN	IER/	ALS				ROCK TYPE	STRUCTURE TEXTURE	REMARKS	ASSAY RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
	Ä			Pł	۵	đ	Ē	F	ច	"			
21-22'		20	80							"			Au: 0.009
	22	-66'	Crys	stall	ine I	ime	sto	ne					
22-23'		2	98							Xline Is	Rare cal-hem vits		Ag: 0.078
23-24'		2	98							"	"		Pt: 0.003
24-25'		5	95							"	Cal-hem vlts, multiple		
											directions		
25-26'		10	90							"	"		25-30'
26-27'		2	98							"	Rare cal-hem vits, flat		Au: 0.005
27-28'		2	98							"	Zones of fract-fill; repl: fla	ntroduced fracture-filling and	Ag: 0.048
											r	eplacement calcite is cream	Pt: 0.003
												tan color, finer grained, with	
												hematite	
28-29'		2	98							"	"		
29-30'			100							"			
30-31'		5	95							"	Zones of fract-fill, repl: fla	t	30-40'
31-32'		5	95							Xline Is, weak cal-hem st			Au: 0.009
32-33'		5	95							Xline Is, mod cal-hem st	(I		Ag: 1.080
33-34'		2	98							"			Pt: 0.025
34-35'		2	98							"			
35-36'		2	98							"			
36-37'		2	98							Xline Is	Vuggy; hem dissem		
37-38'		2	98								"		
38-39'		2	98								"		
39-40'		2	98								" " " " " " " " " " " " " " " " " " " "		10.50
40-41'		2	98								"; rare cal-hem vlts, 90°		40-50'
41-42'		2	98										Au: 0.004
42-43'		2	98							"	,,		Ag: 0.029
43-44' 44-45'		2	98 98							"	"		Pt: 0.031
44-45 45-46'		2	98							"	"		
45-46 46-47'		2	98							"			
40-47 47-48'		2	98							"			
48-49'		2	98							"	Extremely vuggy		
49-50'		2	98							"	Cal-hem vlt, 90°		
50-51'		2	98							"	"		50-60'
51-52'		2	98							"	"		Au: 0.003
52-53'		2	98							"	"		Ag: 0.052
53-54'		2	98							"	"		Pt: 0.020
54-55'			100							"			
55-56'		2	98							"	Cal-hem vits, flat		
56-57'		2	98							"			
57-58'		2	98							"			
58-59'		2	98							"			
59-60'		2	98							"	Cal-hem vlts, flat		
60-61'		2	98							"	"		60-70'
61-62'		2	98							"	" ; hem dissem		Au: 0.008

										ROCK	STRUCTURE		ASSAY
FOOTAGE				MIN	ER/	ALS				TYPE	TEXTURE	REMARKS	RESULTS
	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				Au, Ag, Pt: opt
62-63'		2	98							"	Hem dissem		Ag: 0.038
63-64'		2	98							"	Extremely vuggy		Pt: 0.048
64-65'		2	98							Xline Is	Cal-hem vlts, flat		
65-66'		2	98							II .	Hem dissem		
	66	-82.5	5 Qu	artz	san	dst	one,	cald	cite	cement			
66-67'		2	18			80				Qtz ss	Cal-hem vlts, flat		
67-68'		2	8			90				"			
68-69'		2	8			90				"			
69-70'		2	8			90				"			
70-71'		2	18			80				"	Minor hem dissem		70-82.5'
71-72'		5	20			75				" ; weak cal-hem stk	Hem dissem		Au: 0.006
72-73'		5	20			75				"	"		Ag: 0.022
73-74'		2	18			80				Qtz ss			Pt: 0.030
74-75'		2	18			80				"			
75-76'		2	18			80				"			
76-77'		2	18			80				"			
77-78'		2	18			80				"	Crushed, faulted qtz ss		
78-79'		2	18			80				"			
79-80'		2	18			80				"			
80-81'		2	18			80				"			
81-82'		2	18			80				"			
END OF H	IOLE												

REVERSE CIRCULATION DRILL CUTTINGS LOG

DRILL HOLE: EC-06-15 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,491/3,720,211

Elevation: 6875' Inclination: 90°

Date started: February 27, 2006 **Date completed:** February 28, 2006

Depth: 400'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C. L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C. L. Smith

Confirmation of chain-of-custody sample to assayer by: C.L. Smith

	TAGE									ROCK		ASSAY
	et)			М	INER.	ALS				TYPE	REMARKS	RESULTS
From	То			Calcite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-95	5' Li	mesto	one; o	ryst	allin	e lin	nest	one		
0	5		1 9	99						Limestone	Gray Is; 10% white xline Is	
5	10		2 9	98						"	Gray Is; 30% wht xline Is	
10	15		1 9	99						"	" ; 5% "	
15	20		1 9	99						"	" ; 5% "	
20	25		3 9	97						"	" ; 15% "	
25	30		2 9	98						Crystalline limestone	Wht xline ls; 10% gray ls	
30	35		2 9	98						II.	" ; 20% gray ls	
35	40		1 9	99						Limestone; xline Is	Gray Is; 40% wht xline Is	
40	45		1 9	99						" . "	"."	
45	50		2 9	98						Xline Is	Wht xline ls; 30% gray ls;	
											diss hem; hem-cal vlts	
50	55		1 9	99						Xline ls; ls	Wht xline ls; 50% gray ls	
55	60		1 9	99						Xline Is; Is	Wht xline ls; 50% gray ls	
60	65		5 9	95						"."	"; 40% "; diss hem;	
											hem-cal vlts	
65	70		2 9	98						Xline Is	" ; 5% "	
70	75		2 9	98						"	" ; 5% "	
75	80		1	00						Limestone	Gray ls; 5% wht xline ls	
80	85		1	00						u u	" ; 5% "	
85	90		1	00						II .	" ; 5% "	
90	95		1 9	99			L			II	" ; 5% "	
		95-1	150'	Quar	tz saı	ndste	one,	calc	ite	cement; minor hematite (7°	%)	
95	100	1	10 4	40		50				Qtz ss, cal cement	Diss hem; hem-cal vlts	
100	105		2 3	38		60				"		
105	110		2 3	38		60				"		
110	115		5	35		60				"	Diss hem; hem-cal vlts	
115	120		5 3	35		60				"	п	

FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
		Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	ау			
From	То	Ma	Не	ပိ	Ph	Die	ğ	F	Ĭ	Clay			
120	125		10	30			60				"	Diss hem	
125	130		15	25			60				"	" ; hem-cal vlts	
130	135		10	30			60				"	" ; " ; 15% gray ls	
135	140		5	35			60				"	40% gray Is	
140	145		5	40			55				"		
145	150		5	40		<u></u>	55	Щ		<u></u>			
		15	0-19	5· C	rysta	allin	e III	nest	one	; IIM	estone		
150	155		2	98							Xline Is	Wht xline ls; 15% gray ls	
155	160		1	99							Limestone	Gray ls; 5% wht xline ls	
160	165		1	99							"	"."	
165	170		1	99							Xline Is	Wht xline ls; 5% gray ls	
170	175		1	99							Limestone; xline Is	Gray Is: 50% wht xline Is	
175	180			100							Xline Is	Wht xline Is	
180	185		5	95							"	"; 15% gray ls; diss hem;	
												hem-cal vits	
185	190		5	95							Limestone; xline Is	Gray ls; 40% wht xline ls	
190	195		10	90							":"	"; 50% wht xline ls; diss hem	
		195	-225	' Qu	artz	san	dsto	ne,	calc	ite	cement; minor hematite (7%	%)	
195	200		5	35			60				Quartz sandstone	Diss hem	
200	205		8	32			60				u u	"	
205	210		5	35			60				"	"	
210	215		8	32			60				"	"	
215	220		8	32			60				"	"	
220	225		8	32			60					"	
		22				ston		ysta	lline	e lim	estone		
225	230		5	65			30				Limestone; xline ls; qtz ss	25% gray ls; 25% wht xline ls;	1
												50% qtz ss	
230	235		1	99							Limestone	Gray Is; 5% wht xline Is	
235	240		2	98							Xline Is	Wht xline ls; 10% gray ls	
		24		5' Q	uart	z sa	ndst	tone	, ca	lcite	cement; minor diopside-q	uartz skarn; minor hematite	(5%)
240	245		2	38			60				Quartz ss; cal cement		
245	250		1	39			60				II		
250	255		1	39			60				II		
255	260		1	39			60				n		
260	265		5	35			60				n	Diss hem	
265	270		2	38			60				"		
270	275		5	35			60				"	Diss hem; hem-cal vlts	
275	280		8	32		10	50					10% fine-grained dark green	
												diopside with minor diss tan	
												mineral is characteristic; tan	
												mineral is soft, elongate	
	-					١	ا . ا					prismatic xls maybe rhombic	
280	285		5	15			40				Qtz ss; diopside skarn	40% f/g diop w/ tan mineral	
285	290		5	25		20	50				" . "	20% f/g diop w/ tan mineral	

F001	AGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
290	295		5	25		20	50				" . "	20% f/g diop w/ tan mineral	
295	300		5	25		20	50				" . "	"	
300	305		10	30		5	55				Qtz ss, cal cement	5% f/g diop w/ tan mineral	
305	310		10	30			60				"		
310	315		8	32		5	55				"	5% f/g diop w/ tan mineral	
		31	5-36	0' Q	uart	z (5	5%)	- dic	psio	de (3	85%) skarn; quartz sandsto	one, calcite cement	
315	320		2	3		50	45				Fine-grained diop-qtz skarn	Diop skn probably after qtz ss;	
												minor diss tan mineral	
												characteristic	
320	325		2	23		25	50				"; qtz ss w/ cal cement	40% qtz ss	
325	330		2	3		55	40				F/g diop-qtz skn	10% qtz ss	
330	335		10	10		20	60			C	tz ss, cal cmt; f/g diop-qtz sl	20% diop-qtz skn	
335	340		2	3		40	55				F/g diop-qtz skn; qtz ss w/	20% qtz ss	
											calcite cement		
340	345		2	8		35	55				" . "	30% qtz ss	
325	350		2	8		25	65				" . "	40% qtz ss	
350	355		5	5		30	60				" . "	30% qtz ss	
355	360		2	8		30	60				H . H	"	
		36	0-40	0' M	usc	ovite	e ap	lite					
360	365		2								Aplite (muscovite)	Minor disseminated hematite	
365	370		1								п	II .	
370	375		1								II .	"	
375	380		1								n .	n .	
380	385		1								п	n .	
385	390		1								n .	n n	
390	395		1								n .	II .	
395	400		1								II .	II .	
END (OF HO	DLE										· · · · · · · · · · · · · · · · · · ·	

DRILL HOLE: EC-06-16 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,652/3,720,254

Elevation: 6906' Inclination: 90°

Date started: March 1, 2006 Date completed: March 3, 2006

Depth: 355' lost

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То		!-	Calcite	Phlogopite	Diopside	Quartz	allin Fluorite	Tremolite	Clay	one		
_	_			1		_	· -	ı —				I a	
0	5		2	88		5	5				Limestone; crystalline Is	Gray Is; 15% why xline Is; minor diop-qtz skn w/ minor diss tan mineral; 1% copper- colored metallic diss in Is,	
												xline Is	
5	10		2	88		5	5				II	"	
10	15		2	68		15	15				" ; diop-qtz skarn	" ; " ; 30% diop-qtz skn; " ; " ; "	
15	20										Ls; crystalline ls;	Gray ls; 20% wht xline ls; minor diop-qtz skn; (no copper metallic)	
20	25		-	100							Xline Is	Wht xline ls; 10% gray ls	
25	30		1	99							Xline Is; Is	" ; 40% gray ls	
30	35		1	99							Ls; xline ls	Gray Is; 20% wht xline Is	
35	40		2	98							u u	" ; 40% "	
40	45		1	99							Xline Is	Wht xline ls; 5% gray ls	
45	50		1	99							Ls; xline ls	Gray Is; 40% wht xline Is	
50	55		1	99							Ls	Gray Is	
55	60		1	99							"	"	
60	65		1	99							Ls; xline Is	" ; 40% wht xline Is	
65	70		3	97							"	" ; 40% "	
		70-9	90' (Qua	rtz s	sanc	Isto	ne, c	alci	te c	ement; minor hematite (6%		
70	75		5	35			60				Qtz ss; cal cement		
75	80			35			60				"		
80	85			38			60				···		
85	90			30			60				u u	Diss hem	

F001	ΓAGE										ROCK		ASSAY
(fe					MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		90	-115	' Cr	ysta	lline	lim	esto	ne;	qua	rtz sandstone, calcite cen	nent; minor hematite (10%)	
90	95		20	50			30				Xline Is; qtz ss	Wht xline Is; 30% qtz ss;	
0.5	100		45	7-			40				" . "	diss hem	
95	100		15				10				";" ";"	"; 10% qtz ss; diss hem	
100 105	105		5	85			10				";" ","	"; 30% qtz ss, diss hem	
	110 115		10 2	60 88			30 10				,	" ; 50% qtz ss; diss hem " ; 5% qtz ss	
110	115										Xline Is	, 5% qtz \$\$	
		11	5-16	0, F	imes	ston	e; cı	ysta	alline	e lim	nestone		
115	120			100							Limestone	Gray limestone	
120	125			100									
125	130 135			100							"	"	
130	140			100							"	" ; 10% wht xline Is	
135 140	145			100 100							Xline ls; ls	Wht xline ls; 20% gray ls	
145	150		5	95							MIII 6 15, 15	50% gray Is diss hem;	
150	155		5	100							,	Gray Is	
155	160			90			10				Xline ls; ls; qtz ss, cal	50% wht xline ls; 30% gray	
155	100			30			10				cement	ls; 20% qtz ss	
		46		<u> </u>				•		-:4-		13, 20 /0 qt2 33	
		16	0-29	5. U	uarı	z sa	ınas	tone	e, ca	icite	cement		
160	165		15	30			55				Qtz ss, cal cement	Diss hem; hem-cal vlts	
165	170		10	30			60				" ; Is	20% gray Is diss hem;	
												hem-cal vlts	
170	175		5	35			60				Qtz ss, cal cement	5% gray ls; diss hem;	
											_	hem-cal vlts	
175	180		5	35			60					";";"	
180			10				60				"	, ,	
185	190		15				60					"."."	
190 195	195 200		5	95			60				Ls Otz og oglegoment	Gray Is	
195	∠∪∪		10	30			60				Qtz ss, cal cement	10% gray ls; diss hem; hem-cal vlts	
200	205		5	35			60				"	nem-cal vits	
205	210		2	38			60				"		
210	215		1	39			60				"		
215	220		1	39			60				"		
220	225		1	39			60				"		
225	230		2	38			60				"		
230	235		2	38			60				"		
235	240		2	38			60				"		
240	245		2	38			60				"		
245	250		5	35			60				"		
250	255		2	38			60				"		
255	260		5	35			60				"		
260	265		2	38			60				"		
265	270		10	30			60				"		
270	275		5	35			60				"		

FOO	TAGE										ROCK		ASSAY		
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS		
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay					
275	280		1	39			60				Qtz ss, cal cement				
280	285		5	35			60				Qtz ss, cal cement				
285	290		5	35			60				"				
290															
	295-320' Quartz sandstone, calcite cement; minor hematite (10%)														
295															
300	305		10	30			60				n .	II .			
305	310		16	25			60				"	II .			
310	315		10	30			60				n .	II .			
315	320		10	30			60				"	II .			
	320-355' Muscovite aplite; minor hematite (5%)														
320	325		5								Aplite (muscovite)	Diss hem; hem-cal vlts			
325	330		10								"	II .			
330	335		10								"	II .			
335	340		5								"	II .			
340	345		5								"	Diss hem			
345	350		2								"	"			
350	355		2												
END	OF HO	DLE													

DRILL HOLE: EC-06-17 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,849/3,720,197

Elevation: 6864' Inclination: 90°

Date started: March 12, 2006

Date completed: March 13, 2006

Depth: 450'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	TAGE										ROCK		ASSAY
(fe	et)				MIN	ERA	LS				TYPE	REMARKS	RESULTS
rom	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-4	50' L	.imes	ston	e; c	rysta	allin	e lin	nest	one		
0	5		1	99							Limestone	Gray Is; 30% wht xline Is	
5	10			100							"	";5%"	
10	15		2	93		5					" ; minor diop-cal skn	Gray Is	
15	20		3	92		5					" . " ;	"; 10% wht xline Is	
20	25		2	93		5					" . " ;	" ; 20% "	
25	30		1	99							Limestone; xline Is	"; 40% wht xline Is	
30	35		1	99							Xline Is	Wht xline ls; 20% gray ls	
35	40		3	97							"	" ; 30% "	
40	45		5	95							"	" ; 5% "	
45	50		1	99							Limestone	Gray Is; 10% wht xline Is	
		50	-70'	Qua	rtz s	and	stor	ne, c	alci	te ce	ement; minor hematite (7%	6)	
50	55		3	27			70				Quartz ss; calcite cement		
55	60		8	22			70				n .	Diss hem	
60	65		8	22			70				n .	II .	
65	70		10	20			70				11	"I	
		70-95' Limestone; crystalline limestone; minor hematite (5%)											
70	75		2	98							Limestone	Gray Is; 40% wht xline Is	
75	80		2	98							"	u u	
80	85		10	90							Xline Is	Wht xline ls; 20% gray ls;	
												diss hem	
85	90		5	95							Limestone	Gray Is; 30% wht xline Is;	
												diss hem	

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN		LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
90	95		5	95							Xline Is	Wht xline ls; minor qtz ss	
		95	-200'		artz	san	dsto	ne,	calc	ite d	ement; minor diopside-qu		
05	100		2	28		Γ	70		Γ		Otz as aslamt	Minor dian atz aka	
95 100	105		3	27			70				Qtz ss, cal cmt	Minor diop-qtz skn	
105	110		5	25			70				"	Diss hem	
110	115		3	27			70				"	Biod Hom	
115	120		5	25			70				"	Diss hem	
120	125		2	28			65				"		
125	130		2	28			65				n .		
130	135		2	28			65				"		
135	140		2	28			65				"		
140	145		2	28			65						
145	150		2	28			65				Qtz ss, cal cmt		
150	155		2	18		30	50				Qtz ss; diop-qtz skn	Minor diop-qtz skn	
155	160		2	18		5	75				Qtz ss	"	
160	165		2	20		15	60				"	" ; diss hem	
165	170		5	20		15	65				"	"	
170	175		5	18		20	60				" ; diop-qtz skn "	Minor diop-qz skn	
175	180		2	18		15					"		
180	185		2	18		10							
185 190	190 195		2 5	70 70		15 15	10 10				"		
195	200		5	20		15	75				Qtz ss		
100	200	20			usc	ovite		ite:	min	or h	ematite (8%)		
								,			· ·		
200	205		5								Aplite	Diss hem	
205	210		5								"	"	
210	215		5								"	"	
215	220		5									"	
220	225		5								,,	"	
225 230	230		5 5								"	"	
235	235 240		5 5								"	"	
240	245		5								"	"	
245	250		5								"	"	
250	255		5								"	n .	
255	260		10								n .	n .	
260	265		5								"	"	
265	270		5								"	"	
270	275		5								"	"	
275	280		10								"	n .	
280	285		10								"	"	
285	290		10								"	"	
290	295		10								"	"	
295	300		10								"	"	
300	305		10								"	"	
305	310		10		ı	l			l		"	"	

Company Comp	TS .													
310 315 10 """"""""""""""""""""""""""""""""""""														
315 320 10 320 325 10 325 330 10 330 335 5 335 340 5 340 345 5														
320 325 10 " " " " 325 330 10 335 5 " " " " " 335 340 5 340 345 5 " " " " " " " " " " " " " " " " " "														
325 330 10 " " " " 330 335 5 340 5 " " " " " " " " " " " " " " " " " "														
330 335 5 " " " " " 340 345 5 5 " " " " " " " " " " " " " " " " "														
335 340 5 " " " " " " " " " " " " " " " " " "														
340 345 5 " " "														
345 350 5 " " "														
345 350 5														
350 355 10 " " "														
355 360 10 " " "														
360 365 10 " " "														
365 370 10 " " "														
370 375 10 " " "														
375 380 10 " " "														
380 385 10 " " "														
385 390 10 " " "														
390 395 10 " " "														
395 400 10 " " "														
400 405 10 10 " "														
405 410 10 " "														
410 415 10 " "														
415 420 10 " "														
420 425 10 " "														
425 430 10 " "														
430 435 10 " "														
435 440 10 " "														
440 445 10 " "														
445 450 10 " "														
END OF HOLE														

DRILL HOLE: EC-06-18 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,440/3,720,098

Elevation: 6866' Inclination: 90°

Date started: March 25, 2006 **Date completed:** March 27, 2006

Depth: 450'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

F001							.,	-			ROCK		ASSAY
(fe					MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	00'	Lim	esto	ne,	crys	talli	ne li	mes	stone		
0	5		1	99							Limestone	Gray Is; 5% wht xline Is	
5	10			100							"		
10	15		2	98							Limestone; xline Is	Gray Is; 50% wht xline Is;	
												5% hem-cal vlts	
15	20		1	99							Limestone	gray ls; 20% wht xline ls	
20	25			100							"	Gray Is	
25	30			100							"	"	
30	35		2	98							Limestone, xline Is	Gray Is; 20% wht Is; diss	
												hem	
35	40		5	95							Xline Is	Wht xline ls; diss hem;	
												hem-cal vits	
40	45		2	98							Xline Is; limestone	80% wht xline ls; diss hem;	
												hem-cal vlts	
45	50			100							Limestone	Gray Is	
50	55		1	99							Limestone, xline Is	20% wht xline Is	
55	60		1	99							II .	II .	
60	65		1	99							"	u u	
65	70		2	98							"	30% wht xline Is	
70	75		2	98							Xline Is	80% wht xline Is	
75	80		2	98							"	Diss hem	
80	85		2	98							u u	70% wht xline Is	
85	90			100							Limestone	5% wht xline Is	
90	95			100							"	"	
95	100		2	98							Xline limestone	80% wht xline ls; diss hem	
		10	0-14	5' Q	uart	z sa	nds	tone	; ca	lcite	e cement; minor dissemina	ated hematite (5%)	
100	105		5	35			60				Quartz ss; calcite cement	Diss hem	
105	110		5	35			60				"	"	

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
110	115		2	38			60				Quartz ss; calcite cement	Diss hem	
115	120		2	38			60				"	n .	
120	125		8	32			60				"	II	
125	130		10	30			60				"	"	
130	135		10	30			60				"	"	
135	140		5	30			65				"	"	
140	145		2	38			60				"	<u>"</u>	
		14	5-17	0' C	rysta	allin	e lin	nest	one	; lim	estone		
145	150		2	98							Xline Is	Wht xline ls; diss hem	
150	155		1	99							Limestone; xline Is	30% wht xline Is	
155	160		1	99							"	5% wht xline Is	
160	165		1	99							Xline Is	95% wht xline Is	
165	170		2	98							Xline Is; limestone	50% wht xline Is	
		17	0-18	0' C	alcit	e (8	0%)	- he	mati	ite (12%) - magnetite (7%) ska	rn	
170	175	10	15	75							Calcite-hematite-magnetite	60% skarn; 1 grain pyrite	
											skarn; xline ls		
175	180	5	10	85							n .	25% skarn	
		18	0-19	0' Li	imes	ston	e; cr	ysta	alline	e lim	nestone		
180	185	1	99								Xline Is; limestone	50% wht xline Is	
185	190	1	99								Limestone	5% wht xline Is	
		19	0-20	5' Q	uart	z sa	nds	tone	, ca	lcite	cement; minor dissemina	ated hematite (5%)	
190	195		5	35			60				Qtz ss; calcite cement	Diss hem; hem-cal vlts	
195	200		5	35			60				"	II	
200	205		5	35			60				"	II	
		20	5-21	5' C	alcit	e (5	1%)	- dic	psi	de (15%) - hematite (10%) - ma	ignetite (6%) skarn; quartz	sandstone, calcite cement
205	210	2	10	45		15	30				Cal-hem-mag skn; qtz ss,	60% skn; diss hem; hem-ca	1
											calcite cement		
210	215	10	10	60	5	15					Cal-diop-mag-hem skn		
		21	5-22	5' Li	imes	ston	е						
215	220		5	95							Limestone	Gray Is; hem-cal vits	
220	225		5	95							"	"	
		22	5-23	0' C	alcit	e (6	0%)	- dic	psi	de (15%) - magnetite (10%) - h	ematite (10%) - tremolite (5%) skarn
225	230	10	10	60		15			5		Cal-diop-mag-hem-trem skr	Cal-hem vits	
		23	0-42	5' Q	uart	z sa	nds	tone	, ca	lcite	cement; disseminated he	matite (10%)	
230	235		5	35			60				Qtz ss, cal cem	Diss hem; cal-hem vlts	
235	240		5	35			60				"	n .	
240	245		10	30			60				"	"	
245	250		10	30			60				"	"	
250	255		10	30			60				"	"	
255	260	l	10	30	l		60				"	"	Ţ

FOO	TAGE										ROCK	I	ASSAY
	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
260	265	-	15	25	┢	Ë	60	┢		Ŭ	II .	"	
265	270		10	30			60				Qtz ss, cal cem	Diss hem; cal-hem vlts	
270	275		15	25			60				"	"	
275	280		10	30			60				II .	"	
280	285		5	35			60				"	"	
285	290		5	35			60				"	"	
290	295		15	25			60				u u	"	
295	300		20	25			55				II .	"	
300	305		20	25			55				II .	"	
305	310		5	35			60				"	"	
310	315		10	30			60				"	"	
315	320		10	30			60				"	"	
320	325		5	35			60				"	"	
325	330		5	35			60				"	"	
330	335		5	35			60				II .	"	
335	340		5	35			60				II .	"	
340	345		2	38			60				"	"	
345	350		1	39			60				"	"	
350	355		2	38			60				"		
355	360		2	38			60				"		
360	365		5	35			60				"	Diss hem	
365	370		8	32			60				"	Diss hem; hem-cal vlts	
370	375		8	32			60				"	"	
375	380		10	30			60				"	"	
380	385		10	30			60				"	"	
385	390		15	25			60				"	"	
390	395		12	28			60				"	"	
395	400		12	28			60				"	"; "; minor trem, diop	
400	405		15 15	25			60				"		
405	410		15	25			60						
410	415 420		18	22			60					"	
415 420	420 425		20 25	20 15			60 60				"	"	
720	740	42		0' M	lusc	ovite		lite	<u> </u>			<u> </u>	
405	400					I		1	I	I	A a like of an and a like of	NASS STREET	
425	430		1								Aplite (muscovite)	Minor diss hem	
430	435		1										
1													
1												"	
435 440 445 END	440 445 450 OF HO	OLE	1 1 1								" "	" "	

DRILL HOLE: EC-06-19 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,883/3,720,112

Elevation: 6825' Inclination: 90°

Date started: March 13, 2006

Date completed: March 14, 2006

Depth: 250'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	NER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-2	25'	Crys	talli	ne l	imes	ton	е				
0	5		5	95							Xline Is	Diss hem	
5	10		5	95							"	"	
10	15		5	95							"	"	
15	20		10	90							"	"	
20	25		5	95							II .	"	
		25	-45'	Qu	artz	san	dsto	ne,	calc	ite c	ement; minor hematite (5	%)	
25	30		5	45			50				Qtz ss, cal cement		
30	35		5	45			50				II .		
35	40		5	45			50				"		
40	45		5	65			30				II		
		45	-65'	Cry	stal	line	lime	esto	ne; I	ime	stone		
45	50		5	85			10				Xline Is		
50	55		5	85			10				"		
55	60		2	98							Xline Is; Is		
60	65		2	98							II .		
		65	-175	5' Q	uart	z sa	ndst	one	, cal	cite	cement		
65	70		2	38			60				Qtz ss, cal cement		
70	75		2	38			60				n .		
75	80		1	39			60				u u		
80	85		1	39			60				"		
85	90		2	38			60				"		
90	95		2	58			40				"		
95	100		2	48			50				"		
100	105		2	38			60				"		
105	110		2	38			60				II .		

FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	NER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
110	115		2	38			60				"		
115	120		2	38			60				n .		
120	125		2	38			60				n .		
125	130		2	28			70				n .		
130	135		1	29			70				"		
135	140		1	24			75				"		
140	145		1	24			75				n .		
145	150			25			75				"		
150	155			25			75				n .		
155	160		2	23			75				n .		
160	165			20			80				n .		
165	170			20			80				"		
170	175			30			70				W .		
		17	5-25	10' N	/lus	covi	te ap	lite					
175	180		1	15			35				Muscovite aplite; qtz ss		
180	185		1	15			35				"		
185	190		2								Musc aplite		
190	195		1								"		
195	200		1								n .		
200	205		2								n .		
205	210		2								n .		
210	215		2								n .		
215	220		2								n .		
220	225		2								"		
225	230		2								"		
230	235		2								"		
235	240		2								n .		
240	245		2								n .		
245	250		2								п		
END	OF HO	DLE											

DRILL HOLE: EC-06-20 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,315/3,719,999

Elevation: 6855' Inclination: 90°

Date started: March 4, 2006

Date completed: March 5, 2006

Depth: 450'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

Conti	rmati	on o	t cn	aın-c	t-cu	sto	ly s	amp	ie to	ass	sayer by: C.L. Smith		
FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
rom	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside			Tremolite	Clay			
		0-	100'	Lim	esto	ne;	crys	stalli	ine I	imes	stone		
0	5		1	99							Limestone	Gray Is; 5% xline Is; cal-hem vlts	
5	10		2	98							m .	" . " . " , , ,	
10	15		2	98							n .	"; 20% "; "	
15	20		2	98							n .	" ; 10% " ; "	
20	25		2	98							n .	";5%";"	
25	30		2	98							n .	"; 20% "; "	
30	35		3	97							Limestone; xline Is	";30%";"	
35	40		3	97							Xline Is	Wht xline Is	
40	45		1	99							Xline Is; Is	" ; 50% ls	
45	50		1	99							Limestone	Gray ls; 20% wht xline ls	
50	55		1	99							"	" ; 20% "	
55	60		1	99							Xline Is	Wht xline Is; 5% Is	
60	65		2	98							"	" ; 30% ls	
65	70		2	98							" ; Is	" ; 50% ls	
70	75		1	99							" . "	" ; 20% ls	
75	80		1	99							" . " ,	" ; 5% Is	
80	85		1	99							" . "	" ; 50% ls	
85	90		1	99							Limestone	Gray Is; 10% wht xline Is	
90	95			100							"		
95	100		1	99							"	"; 40% wht xline Is	
		10	0-13	0' Q	uart	z sa	nds	tone	e, ca	lcite	cement		
100	105	2		18			80				Qtz ss. calcite cement	5% Is	
105	110	1		19			80				"		
110	115	2		18			80				u u		
115	120	3		17			80				u u		
120	125	4		21			75				"	Dissem hem	
125	130	4		26			70				n .	" ; 5% ls	

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
		tite	ite	•	Phlogopite	ide		te	lite				
	_	Magnetite	Hematite	Calcite	hlog	Diopside	Quartz	Fluorite	Tremolite	Clay			
From	То			0, C					•				
					you							T	
130	135	2		78			20				Xline Is	Wht xline ls; 30% qtz ss, cal cen	1
135	140	2		98							"	with diss pyrite	
140	145	2		68			30				" ; qtz ss	Vht xline ls; 40% qtz ss; cal cem	1
	170	_		00							, 412 00	with diss pyrite	•
145	150	1		99							Xline Is	Wht xline Is	
150	155		2	78			20				"	"; 30% qtz ss, cal cement	
155	160		1	99							"		
		16	0-20	0' C	rysta	allin	e lin	nest	one	; lim	estone		
					_							<u> </u>	
160	165			100							Limestone	Gray Is	
165	170			100							"	" ; 10% wht xline ls	
170	175			100							Xline Is	Wht xline ls; 10% gray ls	
175	180			100							Ls; xline Is	Gray Is; 40% xline Is with	
												dissem pyrite	
180	185		_	100			_				Xline Is		
185	190		5	90			5				"	Wht xline ls; 5% qtz ss;	
400	405		•	00								diss hem	
190	195		2	98							Limestone	Gray Is; 20% wht xline Is;	
105	200		_	00			_				Viina la	diss hem	
195	200		5	90			5				Xline Is	Wht xline Is; diss hem;	
							Щ.			,		minor pyrite	
		20	0-22	0. Q	uart	z sa	ınds	tone	e, ca	lcite	e cement; minor hematite	(5%)	
200	205	5		35			60				Qtz ss, calcite cement	dissem hem	
205	210	5		35			60				"	"	
210	215	5		35			60				"	II .	
215	220	5		35			60				"	"	
		22	0-25	0' D	iops	ide	(43%	6) -	calc	ite (38%) skarn; minor hemati	te (8%)	
220	225	10		75		15					Cal-diop-hem skarn		
225	230	10		65			10				. "	15% qtz ss	
230	235	15		20		55	10				Diop-cal-hem skarn		
235	240	5		20		55	10		5		Diop-cal skn		
240	245	5		20		60	5		5		"		
245	250	5		25		60	10				n		
		25	0-28	0' Q	uart	z sa	nds	tone	e, ca	lcite	e cement; minor calcite-di	opside-hematite skarn; minor	hematite (13%)
250	255		10	25		10	55				Qtz ss, cal cmt	Minor diop, diss hem	
255	260		10				55				"	"	
260	265		15	25		15	45				" ; minor diop-cal-hem skn	п	
265	270		15	25		10	50				"	"	

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
270	275		15	25		5	55				Qtz ss, cal cmt	Diss hem	
275	280		15	25		15	45				"; minor diop-cal-hem skn	II .	
		28	0-36	0' D	iops	side	(449	%) -	quai	rtz (2	25%) - calcite (16%) - hema	atite (15%) skarn	
280	285		15	15		55	15				Diop-cal-qtz-hem skn	Diss hem	
285	290		15	15		25	45				Qtz-diop-cal-hem skn	II .	
290	295		20	15		50	15				Diop-hem-cal-qtz skn	"	
295	300		10	15		30	45				Qtz-diop-cal-hem skn	"	
300	305		5	15		50	30				Diop-qtz-cal skn	"	
305	310		5	15		30	45		5		Qtz-diop-cal skn	II	
310	315		5	15		35			5		"	"	
315	320		5	15		60					Diop-qtz-cal skn	"	
320	325		10	20		45					"	"	
325	330		15	15		60					Diop-cal-hem skn	"	
330	335		15	15		60					"	"	
335	340		15	15		60					"	"	
340	345		20	15		55					"	"	
345	350		20	15		55							
350	355		45	15		25	15				Hem-diop-cal-qtz skn	Massive hem	
355	360		20	20		10					Qtz-hem-cal-diop skn	Diss hem; hem-cal vlts	
		36	0-45	0' M	usc	ovit	e ap	lite,	min	or h	ematite (5%)		
360	365		5								Aplite	Diss hem; cal-hem vlts	
365	370		5								"	"	
370	375		2								"	"	
375	380		2								"	"	
380	385		8								"	"	
385	390		8								"	"	
390	395		5								"	"	
395	400		5								"	"	
400	405		5								"	"	
405	410		5										
410	415		5								"		
415	420		5								"		
420	425		5								"	"	
425	430		5 5								"	"	
430	435 440										"	"	
435 440	440 445		5 5								"	II .	
445	445		5 5								п	u .	
Ь.	0F HC	JI E	J			<u> </u>							

DRILL HOLE: EC-06-21 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,873/3,719,964

Elevation: 6839' Inclination: 90°

Date started: March 15, 2006

Date completed: March 16, 2006

Depth: 350'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, Utah

Geologic log by: C.L. Smith

	ΓAGE	011 0	1 611	aiii-	01-0	usio	uys	aiiij	JIE L	o as	ROCK		ASSAY
					RAIN	IED	A I C				TYPE	DEMARKS	
(те	et)				_	IER.	ALS	Ι			TTPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-2	25' (Calc	ite (77%) - d	iops	ide	(12%	%) - hematite (11%) skarn		
0	5		10	70		20					Cal-diop-hem skn		
5	10		10	80		10					II .		
10	15		10	75		15					II .		
15	20		10	85		5					cal-hem skn		
20	25		15	75		10					Cal-hem-diop skn		
		25	-65'	Dio	psic	de (6	51%)	- ca	lcite	e (30	%) skarn; minor hematite	(9%)	
25	30		5	20		75					Diop-cal skn		
30	35		20	60		20					Cal-diop-hem skn		
35	40		5	10		85					Diop-cal skn		
40	45		5	10		85					u u		
45	50		5	30		65					II .		
50	55		10	50		40					Cal-diop-hem skn		
55	60		10	40		50					Diop-cal-hem skn		
60	65		10	20		70					Diop-cal-hem skn		
		65	-125	' Q	uart	z sa	ndst	tone	, cal	cite	cement		
65	70		5	35		10	50			Qtz	ss, cal cem; minor diop-cal	skn	
70	75		2	48			50				Qtz ss, cal cement		
75	80		10	30			60				"		
80	85		2	38			60				"		
85	90		2	38			60				"		
90	95		5	35			60				"		
95	100		5	35			60				"		
100	105		5	35			60				"		
105	110		5	35		_ ا	60				, "		
110	115		5	45 45		5	45 45				,,		
115	120		5	45		5	45				,,		
120	125		15	35		5	45						

F001	AGE										ROCK		ASSAY
(fe	et)				MIN	NER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		12	5-14	.5' [Diop	side	(59	%) -	calc	ite (19%) - hematite (14%) skarı	n	
125	130		15	15		60	10				Diop-cal-hem skn		
130	135		15	25		50	10				"		
135	140		15	20		65	40				"		
140	145		10	20	_	60					"		
		14		90' N	luso	covi	te ap	olite					
145	150		2								Aplite 		
150	155		2								"		
155	160	40				<u> </u>	′ 10	~ ()			000() (1, (400()		
		16	0-17	0, F	Diop	side	(42	%) -	calc	ite (22%) - hematite (12%) skarı	n	
160	165		10			30				D	iop-cal-hem skn; minor qtz ss	3	
165	170		15	20		55	10				Diop-cal-hem skn		
		17	0-18	0' C	Quar	tz s	ands	ston	e, ca	alcite	e cement		
170 175	175 180			25 30		5	60 55				Qtz ss, cal cement		
		18			Diop	side		%) -	calc	ite (28%) - hematite (11%) skarı	n	•
180	185		15	20		65					Diop-cal-hem skn		
185	190		15	20		65					"		
190	195		15	25		60					u u		
195	200		15	25		60					"		
200 205	205 210		2 5	48 30		50 65					Diop-cal skn		
200	210	21			Quar		ands	ston	e, ca	alcit	e cement		
210	215		5	35		l	60				Otz es cal coment		
215	220		5	35			60				Qtz ss, cal cement		
220	225		5	30		65					Diop-cal skn		
225	230		2	33		5	60				Qtz ss; cal cement		
230	235		2	33		5	60				u u		
235	240		2	33		5	60				"		
240	245		2	38			60				"		
245	250		2	38		20	60						
250 255	255 260		10 5	30 35		30 10					Qtz ss; diop-cal-hem skn Qtz ss, cal cement		
260	265		5 5	40		30					Qtz ss; diop-cal skn		
	_,,,	26	-		/lus	•	te ap	olite			A. 15, 1.5p 00. 0		'
265	270		3								Aplite		
270	275		3								"		
275	280		3								· ·		
280	285		3								"		
285	290		3								"		
290	295		3								"		
295	300		3								"		

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	IER	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
300	305		2		1 1		1	1	1 1	1 1	Aplite		ı
305	310		2								"		
310	315		2								"		
											"		
315	320		2										
320	325		1								"		
325	330		1								"		
330	335		1								II .		
335	340		1								II .		
340	345		1								II .		
345	350		1								II .		
END	OF HO	DLE											

DRILL HOLE: EC-06-22 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,897/3,719,867

Elevation: 6806' Inclination: 90°

Date started: March 16, 2006

Date completed: March 17, 2006

Depth: 450'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	TAGE						•	•			ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	130'	Dio	psic	de (5	4%)	- ca	lcite	e (35	%) skarn; minor hematite	(6%)	
0	5		5	25		70					Diop-cal skn		
5	10		5	25		70					n .		
10	15		5	25		70					II		
15	20		5	25		70					"		
20	25		5	25	5	65					"		
25	30		5	25		65					"		
30	35		10	30		60					II		
35	40		5	35		50	10				"		
40	45		5	35		50	10				"		
45	50		2	43		45	10				"		
50	55		5	35		60					II		
55	60		5	30		55	10				II		
60	65		2	38		50	10				II		
65	70		5	35		50	10				II		
70	75		5	35		55	5				II		
75	80		5	35		55	5				"		
80	85		10	30		55	5				"		
85	90		10	30		55	5				"		
90	95	10	5	55		20	10				Cal-diop-mag-qtz skn		
95	100	5	5	80		10					Cal-diop skn		
100	105		10	60		30					Cal-diop-hem skn		
105	110		10	60		30					"		
110	115		10	20		70					Diop-cal-hem skn		
115	120		10	20		70					"		
120	125		10	20		55	15				Diop-cal-qtz-hem skn		

FOOT	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	NER/	ALS				TYPE	REMARKS	RESULTS
From	To	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
125	130	– 5	10	20	F	65			•	Ť	"		
120	100				Juar		ands	ston	e c	alcit	e cement; minor diopside	-calcite skarn	
					, uu.	1			o, o.				
130	135		5	30		5	60			Qtz	ss, cal cmt; minor diop-cal	skn I	
135 140	140 145		5 5	30 30		10 10	55 55				II .		
145	150		5	25		20	50				"		
150	155		2	23		15	60				"		
155	160		5	30		5	60				II .		
160	165		5	30		5	60				"		
165	170		10	30		5	55				"		
170	175		10		L	20	40				п		
		17	5-26	5' C	Diop	side	(45	%) -	cald	cite ((23%) skarn; minor quartz	sandstone, calcite cemen	t; minor hematite (5%)
175	180		5	25		50	20				Diop-cal skn; minor qtz ss		
180	185		5	25		50	20				II .		
185	190		5	25		50	20				"		
190	195		10	25		45	20				"		
195	200		5	25		65	5				"		
200	205		10	30		40	20				"		
205	210		5	30		45	20				"		
210	215		10	20		50	20				"		
215	220		10			65	5				"		
220	225		5	10		30					Diop-cal skn; 50% splite		
225	230		5	10		30					"		
230	235		5	25		40	30				Diop-cal skn; minor qtz ss		
235 240	240 245		5 2	25 23		40 45	30 30				"		
245			2	28			40				"		
250	255		2	28		20					Qtz ss; minor diop-cal skn		
255	260		2	28		60					Diop-cal skn; minor qtz ss		
260	265		2	23		65					"		
		26			lus	covi		olite					
265	270		1								Aplite		
270			2								"		
275			2								"		
280			2								"		
285			2								u u		
290			2								"		
295	300		2								"		
300	305		2								"		
305			2								"		
310			2								"		
315			2								"		
320			2								"		
325			2								"		
330	335		2		l						"		

FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
335	340		2								"		
340	345		2								"		
345	350		2								"		
350	355		2								"		
355	360		2								"		
360	365		2								"		
365	370		2								"		
370	375		2								"		
375	380		2								"		
380	385		2								"		
385	390		2								"		
390	395		2								"		
395	400		3								"		
400	405		3								"		
405	410		3								"		
410	415		3								II		
415	420		3								"		
420	425		3								"		
425	430		3								"		
430	435		4								"		
435	440		4								"		
440	445		4								"		
445	450		4								II .		
END	OF HO	DLE											

DRILL HOLE: EC-06-23 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,413/3,719,743

Elevation: 6768' Inclination: 90°

Date started: March 26, 2006 Date completed: March 28, 2006

Depth: 400'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

		on o	t cn	aın-c	t-cu	sto	dy s	amp	ie to	ass	sayer by: C.L. Smith		T
	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite		Quartz	_	Tremolite	Clay			
		0-:	00.	Cryst	allir	ıe iii	nes	tone	e; IIN	nest	one		
0	5	5	5	90							Crystalline limestone	Diss mag, hem	
5	10	5	5	90							"	"	
10	15	5	5	90							"	"	
15	20		10	90							n .	Diss hem	
20	25		10	90							II .	"	
25	30		5	95							Xline Is; Is	"	
30	35			100							Limestone		
35	40		2	98							n .		
40	45		5	95							Xline Is; Is		
45	50		2	80			18				Xline Is; Is; qtz ss		
		50	-90'	Qua	rtz s	sand	Isto	ne, c	alci	te ce	ement		
50	55		2	38			60		Ι		Qtz ss; cal cement		
55	60		5	40			60				"	Diss hem	
60	65		5	55			40				Qtz ss; xline ls		
65	70		5	35			60				Qtz ss	Diss hem	
70	75		5	35			60				"	"	
75	80		2	38			60				"		
80	85		2	68			30				" ; xline ls		
85	90		2	78			20				Xline ls; qtz ss		
		90	-175	' Cry	/sta	lline	lim	esto	ne				
90	95		2	98							Xline Is		
95	100			100							Limestone		
100	105			100							Ls; xline ls		
105	110		1	99							Xline Is		
110	115		3	97							"		
115	120		3	97							n .		

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	LS				TYPE	REMARKS	RESULTS
		ite	9		oite	е			te				
		Magnetite	Hematite	Calcite	Phlogopite	Diopside	ırtz	Fluorite	Tremolite	>			
From	То	Маç	Hen	Calo	Ph	Dio	Quartz	Flu	Tre	Clay			
120	125		5	95							Xline Is	Diss hem	
125	130		5	95							"	"	
130	135		5	90					5		"	II	
135	140		5	70			20		5		Xline ls; qtz ss	"	
140	145		5	70			20		5		" . "	"	
145	150		5	75			20				" . "	"	
150	155		2	78			20				","	"	
155	160		5	85			10				Xline Is	"	
160	165		5	85			10						
165	170		5	95							Limestone; xline Is	"	
170	175		5	95			_			_	,		
		175	-195	' Qu	artz	san	dsto	ne,	calc	cite o	cement		
175	180		2	48			50				Qtz ss, cal cement		
180	185			50			50				u u		
185	190			40			60				II .		
190	195			40			60				n .		
		19	5-22	5' C	rysta	allin	e lin	nest	one				
195	200		2	98							Xline Is		
200	205		5	95							"	Diss hem	
205	210		2	98							"		
210	215		5	95							u u	Diss hem	
215	220		5	95							n .	"	
220	225		5	95							II	"	
		22	5-30	0' C	alcit	e (6	7%)	- qu	artz	(149	%) - hematite (14%) skarn		
225	230		10	60			30				Cal-qtz skn	Diss hem	
230	235		5	60			35				"	"	
235	240		10	70			20				II	"	
240	245		10	70			20				n .	"	
245			5	70			25				"	"	
250			15	75			10				Cal-hem-qtz skn	"	
255			20	70			10				"	"	
260	265		25	65			10				"	"	
265			20	70			10				n	"	
270	275		15	75			5				Cal-hem skn	"	
275			20	65			10				Cal-hem-qtz skn "	"	
280			15	60	5		10				"	"	
285			15	75 55		20	10		10			"	
290 295			10 10	55 60		20 15			10 10		Cal-diop-trem-hem skn	"	
290	300	30			ı uart			tone			cement		
						_ 54							I
300	305		2	28			65		5		Qtz ss, cal cement		

FOO	TAGE										ROCK		ASSAY
(fe	et)			1	MIN	ER/	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		30	5-31	0' (Calc	ite (75%) - c	liop	side	(15%) skarn		
305	310		5	75		15	5				Cal-diop skarn		
		310	0-40	0' M	usc	ovite	e ap	lite					
310	315		3	17							Muscovite aplite		
315	320		2	3							"		
320	325		2	3							"		
325	330		1								"		
330	335		2								"		
335	340		2								"		
340	345		2								"		
345	350		1								"		
350	355		1								"		
355	360		1								"		
360	365		1								"		
365	370		1								"		
370	375		1								"		
375	380		1								"		
380	385		1								"		
385	390		1								"		
390	395		2								n .		
395	400		2								n		
END	OF H	OLE		-									

DRILL HOLE: EC-06-24 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,826/3,719,762

Elevation: 6849' Inclination: 90°

Date started: March 18, 2006

Date completed: March 19, 2006

Depth: 400'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

F001	LVGE										ROCK		ASSAY
(fe	-				МІМ	JFR.	ALS				TYPE	REMARKS	RESULTS
From	,	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay		KEMAKKO	REGOLIO
		0-2	20'	Diop	side	e (54	l%) -	· cal	cite	(38%	%) - hematite (11%) skarn		
0	5		10	70		20					Cl-diop-hem skn		
5	10		10	30		60					Diop-cl-hem skn		
10	15		10	30		60					II .		
15	20		15	20		75					II .		
		20	-30'	Dio	psic	de (4	15%)	- m	agn	etite	(35%) - calcite (10%) - her	natite (10%) skarn	
20	25	30	10	10		50					Diop-mg-cl-hem skn		
25	30	40	10	10		40					Mg-diop-cl-hem skn		
		30	-60'	Dio	psic	de (5	53%)	- Ca	alcite	e (35	%) skarn; minor hematite	(6%), pyrite (5%)	
30	35	5	10	65		20					Cal-diop-hem skn		
35	40		5	30		65					Diop-cal skn	2% pyrite	
40	45		5	25		65					"	5% pyrite	
45	50		5	30		60						5% pyrite; arsenopyrite?	
50	55		5	30		55					Diop-cal-pyrite skn	10% pyrite	
55	60		5	30		55						II .	
		60	-70'	Qua	artz	san	dsto	ne,	calc	ite d	cement		
60	65		2	38			60				Qtz ss, cal cmt	2% pyrite	
65	70			40			60				"	2% pyrite	
		70	-100	' Di	ops	ide ((67%	6) - c	alci	te (2	23%) skarn; mixed with qu		ment, minor hematite (10%
70	75		2	28		50	20				Diop-cal skn; minor qtz ss	2% pyrite	
75	80		5	15		80					Diop-cal skn	, ,	
80	85		5	25		70					"		
85	90		10	30		10	30				Cal-diop-hem skn; qtz ss		
90	95		10	30		10	30				";"		
95	100		10			5	30				,		

F001	ΓAGE										ROCK		ASSAY
(fe	et)				_	NER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		10	0-20)5' C	Quar	tz s	ands	ston	e, ca	alcit	e cement; minor hematite	(8%)	
100	105		10	30			60				Qtz ss, cal cement		
105	110		10	30			60				"		
110	115		10	30			60				"		
115	120		15	30			55				"		
120	125		10			10					"		
125	130		5	30		10					"		
130	135		15	30		5	50				"		
135	140		5	30			65				"		
140	145		5	30			65						
145	150		10	30			60				"		
150	155		10	30		_ ا	60				"		
155	160		5	25		15							
160	165		5	35		5					"		
165	170		5	35		1,0	60						
170	175		5	20		40					Diop-cal skn; qtz ss		
175	180		10	30		20					";"		
180	185		2	38		5	55				Qtz ss		
185	190		5	35		10					"		
190	195 200		10	35		5	50						
195 200	205		10 5	30 30		25 25					Diop-cal skn; qtz ss		
200	200	20		00' N	/lus		•	olite			,		
205	210		2								Aplite		
210	215		2								Aprile "		
215			2								"		
220			2								n .		
225	230		2								n .		
230	235		2								"		
235	240		2								"		
240	245		2								"		
245	250		2								n .		
250	255		4								"		
255	260		2								"		
260	265		2								"		
265	270		2								"		
270	275		2								"		
275	280		2								"		
280	285		2								"		
285	290		2								"		
290	295		2								"		
295	300		2								"		
300	305		2								"		
305	310		2								"		
310	315		2								"		
315	320		2								"		

FOO'	TAGE										ROCK		ASSAY
(fe	et)				MIN	NER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
320	325		2								"		
325	330		2								"		
330	335		2								"		
335	340		2								"		
340	345		2								"		
345	350		2								"		
350	355		2								"		
355	360		2								"		
360	365		2								"		
365	370		2								"		
370	375		5								"		
375	380		5								"		
380	385		5								"		
385	390		2								n n		
390	395		2								n n		
395	400		2								п		
END	OF HO	DLE											

DRILL HOLE: EC-06-25 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,528/3,719,624

Elevation: 6869' Inclination: 90°

Date started: March 20, 2006 Date completed: March 21, 2006

Depth: 500'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	TAGE										ROCK		ASSAY
	eet)				MIN	ERA	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-8	35' I	Limes	tone	e, cry	/stal	line	lim	esto	ne		
0	5			100							Limestone	Gray Is; 5% wht xline Is; 1%	
												copper colored metallic diss	
5	10		2	98							"	" ; 20% "	
10	15			100							"	" ; 5% "	
15	20		2	98							Crystalline Is; Is	60% wht xline ls; 40% gray ls	
20	25		2	98							Ls; xline Is	Gray Is; 10% wht xline Is	
25	30			100							Limestone		
30	35		2	98							"	Gray Is; 10% wht xline Is	
35	40		2	98							"	" ; 20% "	
40	45		1	99							"	" ; 20% "	
45	50		1	99							"	" ; 20% "	
50	55		5	95							Xline Is	Wht xline ls; diss hem	
55	60		1	99							"	"	
60	65		1	99							Limestone	Gray Is; 10% wht xline Is	
65	70			100							"		
70	75		5	95							"		
75	80		1	99							Crystalline Is		
80	85		2	68			30				Xline ls; qtz ss, cal cement	50% wht xline Is; 50% qtz ss,	
												cal cement	
		85	-120	' Qua	rtz s	sand	stor	ne, c	alci	te ce	ement		
85	90		2	28			70				Quartz ss, cal cement		
90	95		2	28			70				"		
95	100		2	48			50				II .	20% gray Is	
100	105		2	28			70				Qtz ss		
105	110		2	28			70				"		
110	115		5	25			70				"		
115	120		5	35			60				11	20% wht xline Is	

FUUI	AGE										ROCK		ASSAY
(fee					MINI	ERA	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		120	0-16	5' Cry	/stal	line	lime	esto	ne				
120 125	125 130		2	98 99							Crystalline limestone Limestone	10% wht xline Is	
130 135 140	135 140 145		1 2 1	99 98 99							Crystalline ls; ls Xline ls	20% wht xline Is 20% gray Is	
145 150 155	150 155 160		1 1 2	99 99 98							" " " " " " " " " " " " " " " " " " "	40 % gray ls; 1% diss pyrite	
	165		1	99						.,	"	"	
		16		5. Qu	artz	san	dsto	one,	caic	ite c	ement		
165 170 175	170 175 180		2 5 2	28 25 28			70 70 70				Qtz ss, cal cmt " Qtz ss, cal cmt	Diss hem; hem-cal vlts	
180	185	18	2 5-20	28 5' C ry	/stal	line	70 lime	esto	ne		"		
185	190		5	95							Crystalline Is	Diss hem; hem-cal vlts	
	195 200 205		2	98 100 93		_					"		
200	205	20			artz	5 san	dsto	ne,	calc	ite o	ement		
205	210		1	29			70				Qtz ss, cal cmt		
210	215		1	29			70				"		
	220		1	29			70				"		
	225		1	29			70				"		
	230		2	28			70				"		
	235		5	25			70				"	Diss hem; hem-cal vlts	
	240245		2	28 29			70 70				"		
	250		1	29 29			70				"		
	255		'	30			70				"		
	260		1	29			70				II .		
	265		2	28			70				"		
	270		2	28			70				"		
	275		1	39			60				"		
	280			40			60				"		
	285			40			60				"		
	290		1	39			60						
	295		2	38			60				"		
	300		2	38			60				"		
	305 310		2	33 34			65 65						
	315		1	34			65				"		
	320		1	34			65				"		

F001	ΓAGE										ROCK		ASSAY
(fe					MINI	ERA	LS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
320	325		1	34			65				Qtz ss, cal cmt		
325	330		1	34			65				"		
330	335			35			65				"		
335	340			35			65				"		
340	345			35			65				"		
345	350			35			65				"		
350	355		1	34			65				"		
355	360		1	34			65				"		
360	365		1	34			65				"		
		36		0' Mu	ISCO	vite	apli	te					
365	370		2								Aplite		
370	375		2								"		
375	380		2								"		
		38	0-43	0' Qu	artz	san	dsto	ne,	calc	ite d	ement		
380	385		1	34			65				Qtz ss, cal cmt		
385	390			35			65				"		
390	395			35			65				"		
395	400			35			65				"		
400	405			35			65				"		
405	410			35			65				"		
410	415			35			65						
415	420		1	34			65						
420 425	425 430		1 2	34 33			65 65				"		
423	430												
		43		0' Mu	ISCO	vite	apli	te					
430			1								Muscovite aplite		
435	440		1								"		
440	445		1								"		
445	450		1								"		
450	455		1								"		
455	460		1								"		
460	465		1								"		
465	470		1								"		
470	475		1								<u>"</u>		
475	480		1								"		
480 485	485 490		1								"		
490	490		1 1								"		
490	500		1								"		
END () F	-		<u> </u>	<u> </u>					<u> </u>		
י שוים	J. 110	/ _											

DRILL HOLE: EC-06-26 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, Az

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,688/3,719,625

Elevation: 6883' Inclination: 90°

Date started: March 23, 2006 Date completed: March 24, 2006

Depth: 360'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	ΓAGE	0	. 5.1	a 0			., .	p			ROCK	<u> </u>	ASSAY
	et)				MIN	FR/	N S				TYPE	REMARKS	RESULTS
From	,	Magnetite	Hematite	Calcite	Phlogopite	Diopside		Fluorite	Tremolite	Clay	=		
		0-3	35'	Lime	ston	e, c	ryst	allin	e lin	nest	one		
0	5		1	99							Limestone	20% wht xline Is	
5	10		1	99							Crystalline Is		
10	15		2	98							"	20% gray Is	
15	20		2	98							"	"	
20	25			100							Limestone	10% wht xline Is	
25	30			100							II .	"	
30	35			100							Crystalline Is	10% gray Is	
		35	-65'	Qua	rtz s	sand	Istoi	ne, c	alci	te c	ement		
35	40		2	28			70				Quartz ss, cal cement		
40	45		1	29			70				"		
45	50		1	29			70				"		
50	55		2	28			70				"		
55	60		2	28			70				II .		
60	65		2	28			70				II .		
		65	-80'	Crys	stalli	ine I	ime	ston	e; q	uart	z sandstone, calcite ceme	ent	
65	70		2	63			35				Xline ls; qtz ss, cal cmt	50% xline ls; 50% qtz ss calcite cement	
70	75		2	63			35				"	"."	
75	80		2	63			35				II	"."	
	_	80	-120	' Cry	ystal	lline	lim	esto	ne;	lime	stone		
80	85			100							Limestone		
85	90			100							II .		
90	95		1	99							Crystalline Is		
95	100		1	99							"	10% gray Is	
100	105			100							"		

FOO	ΓAGE										ROCK		ASSAY
(fe					MIN	ER/	LS				TYPE	REMARKS	RESULTS
		iite	te		pite	je Je		4	ite				
		Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
From 105	To 110	Σ	2	98	Ь	D	Ø	F	É	၁	Crystalling la		
110	115		2	100							Crystalline Is	30% gray ls	
115	120			100							Limestone	20% wht xline Is	
	•	120	-145		artz	san	dsto	one,	calc	ite	cement		•
120	125		2	28			70				Quartz ss, calcite cement		
125	130		2	28			70				"		
130	135			30			70				"		
135	140			30			70				"		
140	145		2	28			70				"		
		14	5-16	0' C	alcit	e (4	3%)	- Ma	gne	tite	(22%) - diopside (18%) ska	ırn	
145	150	40	10	35		5	10				Mag-cal-hem-qtz skarn		
150	155	20	10	30		30	5		5		Diopo-cal-mag-hem skarn		
155	160	5	2	63		20	5		5		Cal-diop skn	30% qtz ss, cal cmt	
		16	0-17	0' Q	uart	z sa	nds	tone	, ca	lcite	cement		
160	165		1	29			70				Qtz ss, cal cmt		
165	170		2	28			70				п		
		17	0-17	5' M	usc	ovite	е ар	lite					
170	175		1								Aplite		
		17	5-20	0' Q	uart	z sa	nds	tone	, ca	lcite	cement		
175	180		1	29			70				Qtz ss, cal cement		
180	185		1	29			70				"		
185	190		2	28			70				"		
190	195		2	28			70				"		
195	200		2	28			70				"		
		20	0-26	5' S	karn			diop	side	, 25	%) quartz sandstone		
200	205		1	4			70				Skarnetized qtz ss	F/g diopside, quartz	
205	210		1	4							"	u u	
210	215			5		_	70				"	"	
215	220			5							"	"	
220 225	225 230			5 5		25 25	70 70				"	"	
230	230			5 5		25 25					"	u u	
235	240			5							"	п	
240	245			5			70				"	n .	
245	250			5			70				"	u .	
250	255		1	4			70				"	u	
255	260		1	4		25	70				"	u u	
260	265		1	4		25	70				п	п	
		26	5-36	0' M	usc	ovite	е ар	lite					
265	270		2								Muscovite aplite		
270	275		2								"		

FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
275	280		1								n .		
280	285		1								Muscovite aplite		
285	290		1								"		
290	295		1								"		
295	300		1								"		
300	305		1								"		
305	310		1								"		
310	315		1								"		
315	320		1								"		
320	325		1								"		
325	330		1								"		
330	335		1								"		
335	340		1								"		
340	345		1								"		
345	350		1								"		
350	355		1								"		
355	360		1								II		
END	OF HO	DLE			-						-		

DRILL HOLE: EC-06-27 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 449,103/3,719,956

Elevation: 6812' Inclination: 90°

Date started: March 22, 2006

Date completed: March 23, 2006

Depth: 270'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

FOOTAG	Е										ROCK		ASSAY
(feet)					MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From To	; ;	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	0' (Crys	talli	ne li	imes	ston	е				
0 5 5 10			2	98 98							Crystalline limestone	20% gray ls	
		10-	30'	Cal	cite	(549	%) -	mag	neti	te (2	5%) - quartz (16%) skarn		
10 15 15 20 20 25 25 30) · 5 :	15 15 20 50	5 5 5	60 60 55 40			20 20 20 5				Calcite-quartz-mag skarn " " "		
		30-	90'	Qua	artz	san	dsto	ne,	calc	ite c	ement		
30 35 35 40 40 45 45 50 50 55 55 60 60 65 65 70 70 75 75 80 80 85 85 90)	2 1 2 90-	5 2 3 2 1 2 1 2 3	30 35 33 35 30 32 33 33 34 33 34	sco	vite :	65 65 65 65 65 65 65 65 65 65 65 65 65 6	ee			Quartz ss, cal cement " " " " " " " " " " "	Spots of mag replacement; diss hem; hem-cal vlts "	
90 95	4	30- 	1	Wita	300	VILE	арш	. c			Muscovite aplite	<u> </u>	
30 00	7	05		<u>ب</u>	ıar*	7 62	ndet	onc	Cal	cito	cement; minor aplite, dio	unsido skarn	

F00	TAGE										BOCK		ACCAV
	et)				МІК	NER	۸1 C				ROCK TYPE	REMARKS	ASSAY RESULTS
(те	e()						ALO	I			IIPE	KEIWIAKNO	RESULIS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
95	100			35			65				Qtz ss, cal cement		
100	105	1	1	33			65				Qtz ss, cal cement		
105	110	5	2	13			30				Qtz ss, cal cement; aplite	50% qtz ss; 50% aplite	
110	115		2	13		20	65				- Qtz ss, cal cmt; diop-qtz skr	1	
115	120		1	14		30	45		10		"		
		12	0-14	Ю' Г	Diop	side	(54	%) -	qua	rtz (20%) skarn		
120	125		1	4		25	20				Diopside-qtz skarn; aplite	50% di-qtz skn; 50% aplite	
125	130		1	4		75					Diopside-qtz skarn	, ,	
130	135		5	5		60			10		" "		
135	140		2	3		55	20		20		Di-trem-qtz skarn		
		14	0-27	'O' N	/lus	covi	te ap	olite					
140	145		2								Muscovite aplite		
145	150		1								"		
150	155		1								"		
155	160		1								II .		
160	165		1								n .		
165	170		1								"		
170	175		1								"		
175	180		1								II .		
180	185		1								II .		
185	190		1								"		
190	195		1								"		
195	200		1								"		
200	205		1								"		
205	210		1								II .		
210	215		1								"		
215	220		1								"		
220	225		1								"		
225			1								"		
230			1								"		
235			1								"		
240			1								"		
245			1								,, "		
250			1								,,		
255			1								,,		
260			1								"		
265 END			1					<u> </u>			a a		
⊏NΩ '	OF HO	JLE											

DRILL HOLE: EC-06-28 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 449,098/3,719,859

Elevation: 6813' Inclination: 90°

Date started: April 20, 2006

Date completed: April 21, 2006

Depth: 300'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	_	on o	ı cn	aın-	OI-C	usto	uy s	am	oie t	o as	sayer by: C.L. Smith		
FOO	TAGE										ROCK		ASSAY
(fe	et)				_	IER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	0' (Crys	talli	ne li	imes	ston	е				
0	5		1	99							Crystalline limestone		
5	10		2	98							"		
		10	-95'	Qu	artz	san	dsto	ne,	calc	ite c	ement		
10	15		1	34			65				Qtz ss, calcite cement		
15	20		1	34			65				"		
20	25		1	34			65				"		
25	30		1	34			65				"		
30	35		1	34			65				"		
35	40		1	34			65				n n		
40	45		1	34			65				"		
45	50		1	34			65				n n		
50	55		1	34			65				n n		
55	60		1	34			65				n .		
60	65		1	34			65				"		
65	70		1	34			65				n n		
70	75		1	34			65				n n		
75	80		1	34			65				"		
80	85		1	34		10	55				"		
85	90		1	34		10	55				"		
90	95		1	34		10	55				н		
		95-300' Muscovite aplite											
95	100		5								Muscovite aplite	Hem-cal veinlets	
100	105		2								"	п	
105	110		2								"	п	
110	115		1								"		
115	120		1								n n		

F001	ΓAGE										ROCK		ASSAY
(fe					MIN	NER/	ALS				TYPE	REMARKS	RESULTS
	,	4											
		Magnetite	Hematite	e	Phlogopite	Diopside	N	<u>i</u>	Tremolite				
		agn	ema	Calcite	olh	go	Quartz	Fluorite	e.	Clay			
From	То	Σ		Ö	Ы	۵	Ø	ᇤ	F	ວ			
120	125		1								Muscovite aplite		
125	130		1								"		
130	135		1										
135	140		1								"		
140	145		1								"		
145	150		1										
150	155		1								"		
155	160		1										
160	165		1								"		
165	170		1								"		
170	175		1								"		
175	180		1								"		
180	185		1								"		
185	190		1								"		
190	195		1								"		
195	200		1								"		
200	205		1								"		
205	210		1								"		
210	215		1								"		
215	220		1										
220	225		1								"		
225	230		1								"		
230	235		1										
235	240		1								"		
240	245		1								"		
245	250		1								"		
250	255		1								"		
255	260		1								"		
260	265		1								"		
265	270		1								"		
270	275		1								"		
275	280		1								"		
280	285		1								"		
285	290		1								"		
290	295		1								"		
295	300		1								"		
END (OF HO	DLE											

DRILL HOLE: EC-06-29 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,934/3,719,759

Elevation: 6777' Inclination: 90°

Date started: April 24, 2006 Date completed: April 25, 2006

Depth: 420'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

		O11 O	ı cıı	aiii-C	n-cu	3100	ay So	amp	ie io	ass	ayer by: C.L. Smith		
	TAGE										ROCK		ASSAY
(te	et)				MIN	ERA	ALS I	I			TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-4	15' I	Lime	ston	e							
0	5			100							Limestone		
5	10			100							"		
10	15			100							"		
15	20			100							п		
20	25			100							n .		
25	30			100							Crystalline limestone		
30	35		5	95							Xline ls; ls	50% wht xline ls; 50% gray ls	
35	40			100							Limestone		
40	45		2	98							Xline ls; ls	50% wht xline ls; 50% gray ls	•
		45	-60'	Qua	rtz s	sand	Istor	ne, c	alci	te ce	ement		
45	50		1	34			65				Quartz ss, calcite cmt		
50	55		2	33			65				"		
55	60		2	33			65						
		60	-80'	Qua	rtz (54%) - n	nagr	netit	e (15	5%) - diopside (14%) - calc	ite (12%) skarn; minor hema	atite (6%)
60	65	5	2	8		20	65				Qtz-diop skarn		
65	70	15	5	10		20	50				Qtz-diop-cal skarn		
70	75	25	10	15		10	40				Qtz-mag-cal-hem-di skn		
75	80	15	5	15		5	60				Qtz-mag-cal skarn		
		80	-180	' Qu	artz	san	dsto	one,	calc	ite d	cement		
80	85	2	33				65				Qtz ss, cal cmt		
85	90	2	33				65				п		
90	95	2	33				65				п		
95	100	2	33				65				"		
100	105	2	33				65				"		
105	110	2	33				65				"		

FOO	TAGE										ROCK		ASSAY
	eet)		_		MIN	ER/	ALS	_		_	TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
110	115	2	33				65				Qtz ss, cal cmt		
115		2	33				65				"		
120		2	33				65				"		
125		2	33				65				"		
130		2	33				65				"		
135		2	33				65				"		
140		1	34				65				"		
145 150		5 5	30 30				65 65				,,		
155		5	30				65				п		
160	165	5	30				65				п		
165		2	33				65				"		
170	175	2	33				65				· ·		
175		2	33				65				II .		
				0' M	usc	ovit	•	lite					
180	185		2								Muscovite aplite		
185			2								"		
190			2								II .		
195			5								"		
200			2								"		
205			1								"		
210	215		1								II .		
215	220		1								"		
220	225		1								"		
225			1								"		
230			1								"		
235			1								"		
240	245		1								"		
245	250		1								"		
250			1								"		
255 260			1								"		
265			1								п		
270			1								"		
275			1								"		
280			1								u u		
285			1								n n		
290			1								"		
295			1								"		
300			1								"		
305	310		1								"		
310	315		1								"		
315	320		1								"		
320	325		1								"		
325			1								"		
330	335		1								"		

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	ER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
335	340		1								"		
340	345		1								Muscovite aplite		
345	350		1								"		
350	355										"		
355	360										"		
360	365										"		
365	370										"		
370	375										"		
375	380										"		
380	385										"		
385	390										"		
390	395										"		
395	400										n .		
400	405										n .		
405	410										n .		
410	415										n .		
415	420										n .		
END	OF HO	DLE											

DRILL HOLE: EC-06-30 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,593/3,720,106

Elevation: 6849' Inclination: 90°

Date started: April 7, 2006

Date completed: April 9, 2006

Depth: 600'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

FOOT	TAGE						-				ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-2	20'	Mag	neti	te (3	4%)	- di	opsi	de (30%) - calcite (14%) - hema	atite (11%) skarn	
0	5	35	10	15	5	30	10				Mag-diop-cal-hem skarn		
5	10	35	10	15	5	30	10				"		
10	15	30	10	15	5	35					"		
15	20	35	15	10	5	25	10				"		
		20	-30'	Dio	psic	de (2	25%)	- ca	lcite	(20	%) - tremolite (20%) - mag	netite (12%) - hematite (12	2%) skarn
20	25	10	10	20	5	20	5		30		Trem-cal-diop-mag skn		
25	30	15	15	25	5	30	5		10		Diop-cal-mag-trem-hem skn	I	
		30	-65'	Cal	cite	(73%	%) -	hem	atite	(10	%) skarn		
30	35	5	10	50	5	20	5		5		Cal-diop skarn		
35	40	2	10	63	5	10	5		5		n .		
40	45		10	70	5	5	5		5		Cal skn		
45	50		10	75	5	5	5				"		
50	55		10	85	5						"		
55	60		10	85	5						n		
60	65		10	85	5						"		
		65	-120)' Di	ops	ide (76%	s) - h	ema	atite	(10%) skarn		
65	70	10	10	20		60				[Diopside-cal-mag-hem skarr	n	
70	75	5	10	5		75	5				Diopside-hem skarn		
75	80	5	10	5		75	5				"		
80	85					90	10				Diopside-quartz skarn		
85	90		10		5	80	5				Diopside-hematite skarn		
90	95		10		5	80	5				"		
95	100		10		5	80	5				"		
100	105		10	15		70	5				Diopside-calcite-hem skarn	ı	
105	110		10	10		65	5		10		"		

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
110	115	_	10	5	_	80	5				Diopside-hematite skarn		
115	120		10	10		80					Diop-cal-hem skarn		
		12	0-13	0' (Calci	te (6	65%)) - di	ops	ide (19%) - quartz (13%) skarn		
120	125		2	80		18					Calcite-diopside skarn		
125	130		2	40		18	40				Cal-qtz-diop skarn		
		13	0-15	0' [Diop	side	(64	%) -	calc	cite (16%) - quartz (10%) skarn		
130	135		5	20		55	20				Diopside-cal-qtz skarn		
135	140		5	20		50	10				"		
140	145		5	5		80	5				Diopside skarn		
145	150		5	20		70	5				Diopside-calcite skarn		
		15	0-16	0' (Quar	tz sa	ands	ston	e, ca	alcit	e cement		
150	155		5	25			70				Quartz ss, calcite cmt		
155	160		5	25			70						
		16	0-18	5' E)iop	side	(69	%) -	qua	rtz (19%) - calcite (15%) skarn		
160	165		5	20		20	55				Diopside-cal-qtz skarn		
165	170		5	10		75	10				Diopside skarn		
170	175		5	10		75	10				"		
175	180		2	13		75 cr	10				" Diamaida calaita alcama		
180	185	18	2 5-21	23 በ' (Juar	65 tz s:		ston	e c	alcit	Diopside-calcite skarn e cement		
					, uui	-	u		c, o		- Coment		
185	190		2	23		10	65				Quartz ss, calcite cement		
190	195		5	25		20	50				"		
195	200		5	25		20	50				" "		
200 205	205 210		5 5	25 25		5 5	65 65				"		
203	210								_				
		21			юр				cald		10%) - hematite (10%) skai		
210	215		10	20		40	30				Diop-cal skn; qtz ss, cal cm		
245	220		10	20		40	20				"	qtz ss, cal cement	
215 220	220 225		10 10	20 20		40 40					"	"	
225	230		10			40					"	n	
230	235			20			30				"	п	
		23			Diop				calc	ite (19%) skarn; minor hematit	te (7%)	
235	240		5	15		75	5				Diopside-calcite skarn		
240	245		5	15		75 75	5				Diopolae-calcite skalll		
245	250		5	15		75	5						
250	255		5	15		75	5						
255	260		10	25		55					Diop-cal-qtz-hem skarn		
260	265		10	25		50							
265	270		10	25		45					"		

FOO	TAGE										ROCK			ASSAY
(fe	et)				MIN	IER.	ALS				TYPE	REMAI	RKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				

							•		
Muscovite aplite			270-600'	Muscov	ite anli	te			
275 280					c apm				
285 2	270	275	2		\prod			Muscovite aplite	
285	275	280	2					"	
290	280	285	2					n	
295 300	285	290	2					"	
300 305	290	295	2					n	
305 310	295	300	2					"	
315	300	305	2					"	
316 320								"	
325 325 2		315						"	
325 330								"	
330 335								"	
335 340 2 345 2 346 345 2 345 350 32 2 355 355 360 2 365 370 2 365 370 2 370 375 375 380 2 388 390 2 388 390 2 388 390 2 389 400 405 1 400 405 1 415 1 415 420 1 415 420 1 445 420 1 420 425 430 1 435 440 1 445 445 450 4 1 445 450 455 1 450 455 460 465 1 450 465 470 475 480 485 1 4 480 485 1 1 4 480 485 1								"	
340 345								"	
345 350								"	
350 355								"	
355 360								"	
360 365								"	
365 370 2 370 375 2 375 380 2 380 385 2 385 390 2 395 400 2 400 405 1 405 410 1 410 415 1 410 445 1 420 425 1 430 435 1 430 435 1 440 445 1 450 455 1 460 465 1 460 465 1 470 475 1 470 475 480 1 480 485 1								"	
370 375 2 375 380 2 380 385 2 385 390 2 395 400 2 400 405 1 405 410 1 410 415 1 410 415 1 420 42 1 420 425 1 430 435 1 435 440 1 440 445 1 450 455 1 450 465 1 460 465 1 460 465 1 470 475 1 470 475 1 480 485 1								"	
375 380 2 380 385 2 385 390 2 390 395 2 395 400 2 400 405 1 410 1 415 1 420 1 420 1 420 1 425 430 430 435 440 445 450 45 450 45 460 465 470 475 480 485 1 " " " " " " " " " 480 485 1								"	
380 385 2 385 390 2 390 395 2 395 400 2 400 405 1 410 415 1 415 420 1 420 425 1 425 430 1 430 435 1 440 445 1 440 445 1 450 455 1 460 465 1 460 465 1 470 475 1 480 485 1								"	
385 390 2 390 395 2 395 400 2 400 405 1 405 410 1 410 415 1 415 420 1 420 425 1 430 435 1 430 435 1 440 445 1 440 445 1 450 455 1 450 455 1 460 465 1 460 465 1 470 475 1 480 1 " 480 485 1								"	
390								"	
395 400 2 400 405 1 405 410 1 410 415 1 415 420 1 420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 460 465 1 460 465 1 470 475 1 480 1 480 485 1								"	
400 405 1 405 410 1 410 415 1 410 415 1 415 420 1 420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 460 465 1 460 465 1 470 475 1 480 1 480 1 480 485 1									
405 410 1 410 415 1 415 420 1 420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 460 465 1 465 470 1 470 475 1 480 485 1									
410 415 1 415 420 1 420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 455 460 1 460 465 1 470 475 1 475 480 1 480 485 1									
415 420 1 420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 455 460 1 465 470 1 470 475 1 480 485 1								"	
420 425 1 425 430 1 430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 455 460 1 465 470 1 470 475 1 480 485 1 480 485 1								"	
425 430 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
430 435 1 435 440 1 440 445 1 445 450 1 450 455 1 455 460 1 460 465 1 470 475 1 475 480 1 480 485 1									
435 440 1 440 445 1 445 450 1 450 455 1 455 460 1 460 465 1 465 470 1 470 475 1 480 1 480 1 480 1 480 1 480 1 480 1									
440 445 1 445 450 1 450 455 1 455 460 1 460 465 1 465 470 1 470 475 1 480 1 480 485 1									
445 450 1 450 455 1 455 460 1 460 465 1 465 470 1 470 475 1 480 1 480 485 1									
450 455									
455 460 1 460 465 1 465 470 1 470 475 1 475 480 1 480 485 1									
460 465 1 465 470 1 470 475 1 475 480 1 480 485 1									
465 470 1 470 475 1 475 480 1 480 485 1									
470 475 1 475 480 1 480 485 1 "" ""									
475 480								"	
480 485 1 1 "									
								"	
140514001 141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
485 490 1 1 "									
490 495 1	490	495	1	1	1	1	1	"	

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	IER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
495	500		1								"		
500	505		1								Muscovite aplite		
505	510		1								II .		
510	515		1								"		
515	520		1								"		
520	525		1								"		
525	530		1								n .		
530	535		1								"		
535	540		1								n .		
540	545		1								n .		
545	550		1								n .		
550	555		1								"		
555	560		1								n .		
560	565		1								n .		
565	570		1								"		
570	575		1								n .		
575	580		1								"		
580	585		1								"		
585	590		1								"		
590	595		1								"		
595	600		1								II .		
END	OF HO	DLE											

DRILL HOLE: EC-06-31 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,602/3,719,967

Elevation: 6839' Inclination: 90°

Date started: April 10, 2006 Date completed: April 12, 2006

Depth: 710'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	mati	011 0		alli	OI-CI	usto	uy	aiii	JIE L	o as	sayer by: C.L. Smith		
F001	TAGE										ROCK		ASSAY
(fe	et)				MIN	IER	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-5	50' (Calc	ite (53%) - n	nagr	etite	e (35	5%) - hematite (12%) skarn		
0	5	20	10	70							Cal-mag-hem skarn		
5	10	20	10	70							"		
10	15	20	10	70							"		
15	20	35	10	55							"		
20	25	35	10	55							"		
25	30	40	15	45							"		
30	35	60	10	30							"		
35	40	40	15	45							"		
40	45	40	15	45							"		
45	50	40	15	45							"		
		50	-80'	Phl	ogo	pite	(47	%) -	calc	ite (35%) - magnetite (10%) ska	arn; minor hematite (8%)	
50	55	15	5	55	30						Call-phlog-mag skarn		
55	60	15	10	50	30						n n		
60	65	15	10	50	30						"		
65	70	5	5	25	65						Phlog-cal skarn		
70	75	5	5	10	80						"		
75	80	5	10	20	45	20					Phlog-cal-diop skarn		
		80	-95'	Cal	cite	(479	%) -	hem	atite	e (18	3%) - phlogopite (12%) - did	opside (10%) skarn	
80	85		20	55	15	10					Cal-phlog-hem-diop skarn		
85	90		25		10	10					Cal-hem skarn		
90	95		10	30	10	10	40				" ; qtz ss, cal cmt		
		95	-120		alcite			- ma	gne	tite	(33%) - hematite (11%) ska		
95	100	30	10	20	10	30					Mag-di-cal-hem-phlog skn		
100	105	35	10	45	5	5					Mag-cal-hem skarn		
105	110	35	10	40	10	5					"		

FOO	TAGE										ROCK		ASSAY
	et)				MIN	IER	ALS				TYPE	REMARKS	RESULTS
		te	Ø)		ite	Ø)			ė				
		Magnetite	Hematite	ite	Phlogopite	Diopside	rtz	Fluorite	Tremolite				
From	То	Mag	Her	Calcite	Phk	Diop	Quartz	Fluc	Trer	Clay			
110	115	35	10		10	5					Mag-cal-hem skarn		
115	120	30	15	45	5	5					"		
		12	0-13	5' C	Diop	side	(65	%) -	calc	ite ((22%) skarn ; minor hema	t	
120	125	5	15	20	5	55					Diop-cal-hem skarn		
125	130		5	15		80					Diop-cal skarn		
130	135		5	15		60	20					minor qtz ss, cal cmt	
		13	5-15	i0' (Quar	tz s	ands	ston	e, ca	alcit	e cement; minor hematite	(10%)	
135	140		10	20		10	60				Qtz ss, cal cement		
140	145			20			70				"		
145	150			20			70						
		15	0-27	о' г	Diop	side	(67	%) -	calc	ite (16%) skarn; minor hemat	ite (9%)	
150	155		10	20		70					Diop-cal-hem skarn		
155	160		15			65					"		
160	165		15		5	65					"		
165	170		10	10	5	75					"		
170	175		10	15		55	20				"	Minor qtz ss, cal cement	
175	180		10	15	5	50	20				"		
180	185		15	15	5	60	5				"		
185	190		15		5	60	5				"		
190	195		15			60	10				"		
195	200		10			75					"		
200	205		10	20		70	_				"		
205	210		10	20		65 80	5						
210 215	215 220		5 2	15 8		90					Diop-cal skarn Diopside skarn		
220			2	8		90					biopside skairi		
225	230			20			20				Diop-cal-hem skarn	Minor qtz ss, cal cement	
230			10				20				"	, 22, 23, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	
235	240		2	13		75					Diop-cal skarn		
240	245		2	13		75	10				"		
245	250		2	13		85					"		
250	255		2	18		80					"		
255			10	20		70					"		
260				20			20				.	Minor qtz ss, cal cement	
265	270			20	<u> </u>		20	<u> </u>	10		Diop-cal-trem-hem skn	"	
		27	υ-28	O N	iusc	ovit	е ар	lite					
270			5								Muscovite aplite		
275	280		5						<u> </u>				
		28	0-29)5' [Diop	side	(40	%) -	calc	ite ((11%) - hematite (10%) ska	arn; aplite	
280	285		5	10		20	10				Diop-cal skn; aplite	50% diop-cal skn; 50% aplite	
285	290		10	10		20					Diop-cal-hem skn; aplite	" ; "	
290	295		15	15		20	5				H , H	H , H	

FOO	TAGE										ROCK		ASSAY
1	et)				MIN	NER	ALS				TYPE	REMARKS	RESULTS
From		Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		29	5-70			covi			•			•	
295	300		5								Muscovite aplite		
300	305		2								II .		
305	310		2								"		
310	315		1								"		
315	320		1								II .		
320	325		1								II .		
325			1								"		
330			1								"		
335			1								"		
340			1										
345			1								"		
350 355			1								"		
360	365		1								"		
365			1								II .		
370	375		1								n .		
375			1								n .		
380			1								II .		
385			1								"		
390	395		1								"		
395	400		1								II .		
400	405		1								"		
405	410		1								"		
410	415		1								II .		
415			1								"		
420	425		1								"		
425			1								"		
430			1								" "		
435			1								"		
440 445			1										
445			1 5								"		
455			5								"		
460			5								"		
465			5								II .		
470			5								"		
475			1								"		
480			1								"		
485	490		1								"		
490			1								u u		
495			1								"		
500			1								"		
505			1								"		
510			1								" 		
515			1								" 		
520	525		1								"		

FOOT AGE	OOTAGE
From To	
525 530 1 530 535 5 535 540 5 540 545 5 545 550 5 550 555 10 555 560 10 560 565 10 565 570 10 570 575 10 580 585 10 580 585 10 580 590 10 590 595 10 595 600 1 600 605 1 601 1 " 602 620 1 620 625 1 625 630 1	rom. To
530 535 5 535 540 5 540 545 5 545 550 5 550 555 10 555 560 10 560 565 10 565 570 10 570 575 10 580 585 10 580 585 10 590 595 10 595 600 1 600 605 1 610 615 1 610 620 1 620 625 1 625 630 1	
535 540 5 540 545 5 545 550 5 550 555 10 555 560 10 560 565 10 565 570 10 570 575 10 580 585 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 610 615 1 615 620 1 620 625 1 625 630 1	
545 550 5 550 555 10 555 560 10 560 565 10 560 570 10 570 575 10 575 580 10 580 585 10 580 595 10 590 595 10 595 600 1 600 605 1 601 1 " 610 615 1 615 620 1 620 625 1 625 630 1	
550 555 10 555 560 10 560 565 10 565 570 10 570 575 10 575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 610 615 1 615 620 1 620 625 1 625 630 1	
555 560 10 560 565 10 565 570 10 570 575 10 575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 620 625 1 620 625 1 625 630 1	45 550
560 565 10 565 570 10 570 575 10 575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 620 625 1 625 630 1	50 555
565 570 10 570 575 10 575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	55 560
570 575 10 575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 610 615 1 615 620 1 620 625 1 625 630 1	60 565
575 580 10 580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	65 570
580 585 10 585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	
585 590 10 590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	
590 595 10 595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	
595 600 1 600 605 1 605 610 1 610 615 1 615 620 1 620 625 1 625 630 1	
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620 625 1 1 " " " " " " " " " " " " " " " " "	
625 630 1 1 "	
1***1***1 1	
635 640 1 1 1 1 1 1 1 1 1 1	
640 645 1 1 "	
645 650 1 1 "	
650 655 1 1 1 1 1 1 1 1 1 1	50 655
655 660 1 1 "	55 660
660 665 1 1 1 1 1 1 1 1 1 1	60 665
665 670 1 1 "	65 670
670 675 1 1 "	
675 680 1 1 1 1 1 1 1 1 1 1	
680 685 1 1 1 1 1 1 1 1 1 1	
685 690 1 1 1 1 1 1 1 1 1 1	
690 695 1 1 " "	
695 700 1 1 " " "	
700 705 1 " " "	
705 710 1 1	

DRILL HOLE: EC-06-32 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,601/3,719,877

Elevation: 6836' Inclination: 90°

Date started: April 14, 2006

Date completed: April 17, 2006

Depth: 530'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	irmatio	_					dy s	sam	ole t	o as	sayer by: C.L. Smith		
	TAGE										ROCK		ASSAY
(fe	et)				MIN	IER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-4	10' (Calc	ite (55%) - n	nagr	etite	e (36	6%) skarn; minor hematite	(9%)	
0	5	20	10	70							Cal-mag-hem skn		
5	10	20	10	70							п		
10	15	20	10	70							n		
15	20	40	10	50							"		
20	25	25	5	70							n		
25	30	40	10	50							"		
30	35	80	10	10							Mag-cal-hem skn		
35	40	40	10	50							п		
		40-	65'	Crys	stall	ine I	lime	stor	ne				
40	45		2	98							Crystalline Is		
45	50		2	98							n		
50	55		2	98							"		
55	60		2	98							"		
60	65		2	98							n		
		65	-80'	Cal	cite	(65°	%) -	maç	jneti	te (1	9%) - hematite (10%) skar		
65	70	20		65							Cal-mag-hem skn		
70	75	20		60							"		
75	80	15	10		5 alcit	\	20/1	_ nh	logs	nito	" (28%) - diopside (11%) - h	nomatita (10%) akara	
		00	-103	. Ca	aicit	e (4.	270)	- pn	iogo	pite	(20 %) - ulopside (11%) - n	emante (1076) Skarn	
80	85		10	50					10		Cal-phlog-trem-hem skn		
85	90		10	40		10			10		"		
90	95		15			10			10		"		
95	100		10	25		25			10		Phlog-diop-trem-hem skn		
100	105		5	65	20	10					Cal-phlog-diop skn		

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	IER	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		10	5-14	.5' C	Calci	ite (4	44%)	- m	agn	etite	(39%) skarn; minor hema	tite (9%)	
105	110	40	5	45	10						Cal-mag-phlog skn		
110	115	30		50	10						Cal-mag-phlog-hem skn		
115	120	30		50	10						"		
120	125	30		50	10						Managari sahari basa alsa		
125	130	50		30	10						Mag-cal-phlog-hem skn		
130 135	135 140	60 50		20 30	10 10						"		
140	145	20	10 5	30 75	10						Cal-mag skn		
140	143				Quar	tz s	ands	ston	e, ca	alcite	e cement		
	4-0					ı					0		
145 150	150 155	5 5	2	28 28			65 65				Qtz ss, cal cmt "		
,		15	5-19	0' Е	Diop	side	(58	%) -	calc	ite (25%) skarn; minor hemati	te (8%)	
155	160	5	10	70	5	10					Cal-phlog-hem skn		
160	165	5	5	10		70					Diop-cal-phlog skn		
165	170		5	15		80					Diopside-calcite skarn		
170	175		10	15	10	65					Diop-cal-phlog-hem skn		
175	180	10	5	15	10	60					Diop-cal-phlog-mag skn		
180	185		10	15	5	70					Diop-cal-hem skn		
185	190		10	35	5	50					II		
		19	0-23	0' C	Calci	ite (8	33%)	- he	ema	tite (12%) skarn		
190	195		10	80		10					Cal-diop-hem skn		
195	200		10	75	5	10					"		
200	205		10	85		5					Cal-hem skn		
205	210		10	85		5					"		
210	215		10	90							"		
215	220		15	85							"		
220	225		15	85		_					"		
225	230	23	15 0-31	80 0' C	Diop	5 side	(61	\ %) -	calc	ite (17%) skarn; minor hemati		
222	225							_		, I	·		
230	235 240			15 15		15 75					Phlog-cal-diop skn Diop-cal-phlog skn		
235 240	240			20	10						שוטף-cai-pniog skn "		
245	250			20		55					"		
250	255		5	20		65					"		
255	260		5	20		55					"		
260	265		5	20		55					п		
265	270		10	15	5	70					Diop-cal-hem skn		
270	275		10	15	5	70					"		
275	280		10	15	5	70					"		
280	285		10	15	5	70					"		
285	290		10	15	5	70					"		
290	295		10	20	10	60					Diop-phlog-hem skn		

FOO	TAGE										ROCK		ASSAY
	et)				MIN	IER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
295	300		10	15	5	55			15		Diop-cal-trem-hem skn		
300	305		15	15	5	65					Diop-cal-hem skn		
305	310		10			70					II .		
		31	0-32	:0' C	Quar	tz s	ands	ston	e, ca	alcit	e cement		
310	315		2	28		70					Qtz ss, cal cement		
315	320		2	28		70					н		
		32	0-53	0' N	lus	covi	te ap	olite					
320	325		1					Π			Muscovite aplite		
325	330		1								"		
330	335		1								п		
335	340		1								"		
340	345		1								"		
345	350		1								"		
350	355		1								n .		
355	360		1								п		
360	365		1								"		
365	370		1								"		
370	375		1								"		
375	380		1								"		
380	385		1								"		
385	390		1								"		
390	395		1								"		
395	400		1								"		
400	405		1								" "		
405	410		1								"		
410 415	415 420		1								"		
420	425		2								"		
425	430		2								II .		
430	435		2								n n		
435	440		1								11		
440	445		1								11		
445	450		1								"		
450	455		1								n		
455	460		1								n		
460	465		1								"		
465	470		1								11		
470	475		1								11		
475	480		1								"		
480	485		1								"		
485	490		1								н		
490	495		1								11		
495	500		1								"		
500	505		1								"		
505	510		1								"		
510	515		1								"		
515	520		1								"		
520	525		1								" "		
525	530		1						l		"		l

FOOT	AGE										ROCK		ASSAY
(fee	et)				MIN	IER.	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
END C)E H() E											

DRILL HOLE: EC-06-33 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,603/3,719,762

Elevation: 6849' Inclination: 90°

Date started: April 18, 2006 Date completed: April 20, 2006

Depth: 600'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

FOO	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-3	35' (Calci	te (5	53%)) - m	agn	etite	(28	%) - hematite (11%) skarn		
0 5 10 15 20 25 30	5 10 15 20 25 30 35	20 20 60 40 15	10 10 15 15 10 - 45 '	70 70 25 45 75 Cry s	stall	ine l	lime	ston	ne .		Cal-mag-hem skn " " Mag-cal-hem skn " Cal-mag-hem skn		
35 40	40 45	5 10	5 5	90 85							Crystalline limestone		
		45	-70'	Cald	cite	(47%	6) - p	ohlo	gopi	ite (3	35%) skarn; minor magnet	tite (9%), hematite (9%)	
45 50 55 60 65	50 55 60 65 70	15 5 5 5	10 5 5 15	75 65 10 10 75	10 80 80 5		6) - c	lion	side	(22)	Cal-mag-hem skn " Phlog-cal skn " Cal-hem skn %) - hematite (11%) skarn	50% xline Is	
70	75		15	20	5	60		op		(Diop-cal-hem skn		
75 80	80 85		15 10	70 80	10 10	5					Cal-hem-phlog skn "		
		85	-95'	Cald	cite	(75%	6) - r	nagı	netit	e (1	5%) - hematite (10%) skarı	n	
85 90	90 95		10 10								Cal-mag-hem skn "	50% xline Is	

	FOO	TAGE										ROCK		ASSAY
95 100						MIN	IER/	ALS				TYPE	REMARKS	RESULTS
95	From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
100			95	-115		ysta	lline		esto					
100	95	100			100							Crystalline Is		
115					100							"	50% cal-mag-hem skn	
115-130' Magnetite (40%) - calcite (40%) - hematite (17%) skarn	1											"	200/ and man ham akn	
145 120 125 40 15 25 5	110	115	11	5-13		laan	otite	. //10	%) <u>-</u>	cal	cito	(40%)) - homatite (17%) sk		
125						ıayıı	T T	· (+0	70) -	Can	SILE		am	
120						_								
130-145 Ouartz sandstone, calcite cement; minor hematite (7%)														
135							z sa	nds	tone	, ca	lcite		(7%)	
135	130	125	5	10	65	ı -	I	20				Cal hom skn	Minor atz se cal emt	
145	1		3				10						IVIIIIOI YIZ 55, Cai Cilit	
145 155	1	145		5	35		10	50				п		
155			14	5-17	'5' C	alcit	te (5	8%)	- dic	psi	de (23%) - hematite (12%) skar	rn	
155	145	150		10	20		70					Diop-cal-hem skn	Minor qtz ss, cal cmt	
160	150	155		15	60							·		
175												Cal-diop-phlog-hem skn		
175	1											"		
175-190' Diopside (75%) - calcite (15%) - hematite (10%) skarn 175	1									5		Cal-diop-hem skn		
180			17	5-19	0' D	iops	side	(75%	6) - c	calc	ite (15%) - hematite (10%) skar	'n	
190	175	180		10	15		75					Diop-cal-hem skn		
190-215' Calcite (80%) - diopside (10%) - hematite (10%) skarn	1													
190	185	190												
195 200 10 90 10 80 10 Cal-hem skn			19	0-21	5' C	alci	te (8	0%)	- dic	psi	de (10%) - hematite (10%) skar	rn	
200							10					·		
205 210 215 10 80 10 70 20							10							
215 216												·		
215-285' Diopside (85%) - calcite (15%) - hematite (10%) skarn 215 220														
220 225 10 20 5 65 " 225 230 15 20 5 60 " 230 235 10 15 20 55 Diop-phlog-cal-hem skn 235 240 15 15 15 55 " 240 245 10 15 5 70 Diop-cal-hem skn 245 250 10 15 5 70 " 250 255 10 15 5 70 "			21			iops		(85%	6) - (calc	ite (15%) - hematite (10%) skar	'n	
220 225 10 20 5 65 " 225 230 15 20 5 60 " 230 235 10 15 20 55 Diop-phlog-cal-hem skn 235 240 15 15 15 55 " 240 245 10 15 5 70 Diop-cal-hem skn 245 250 10 15 5 70 " 250 255 10 15 5 70 "	215	220		10	20	5	65					Diop-cal-hem skn		
230 235				10	20	5						· ·		
235 240 15 15 15 55														
240 245 10 15 5 70 245 250 10 15 5 70 250 255 10 15 5 70 Diop-cal-hem skn " " "												Diop-phlog-cal-hem skn		
245 250 10 15 5 70												Dion-cal-hem skn		
250 255 10 15 5 70 "												"		
255 260 5 10 20 65 Diop-phlog-cal skn												"		
	255	260		5	10	20	65					Diop-phlog-cal skn		

FOO	TAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
260	265		10	15	5	70					Diop-cal-hem skn		
265	270		10	15	5	70					"		
270	275		5	15	5	75					Diop-cal-skn		
275	280		5	10	5	80					n .		
280	285		10	10		80					Diop-cal-hem skn		
		28	5-30	0' Q	uar	tz sa	ınds	tone	e, ca	lcite	cement		
285	290		5	20			65				Qtz ss, cal cmt		
290	295		2	28		70					"		
295	300		2	28		70					"		
		30		5' C	alci	te (7	3%)	- di	opsi	de (2	20%) skarn; minor hemati	te (7%)	
300	305		10	70		20					Cal-diop-hem skn		
305	310		5	85		10					Cal-diop skn		
310	315		5	65	<u> </u>	30							
	ı	31			iops		(75%	6) - (calc	ite (*	17%) - hematite (12%) skai	'n	
315	320		5	15		80					Diop-cal skn		
320	325		10		<u> </u>	70					Diop-cal-hem skn		
		32	5-34	0' M	lusc	ovit	е ар	lite;	hen	natit	e (11%)		
325	330		10								Muscovite aplite	20% diop-cal-hem skn	
330 335	335 340		10 15								"		
000	040	34		0' M	lusc	ovit	e ap	lite					
340	345		1		l -						Muscovite aplite		
345	350		1								"		
350	355		1								n		
355	360		1								"		
360	365		1								"		
365	370		1								"		
370	375		1								"		
375 380	380		1								"		
380	385 390		1								n n		
390	395		1								"		
395	400		1								n .		
400	405		1								"		
405	410		1								"		
410	415		1								"		
415	420		1								"		
420	425		1										
425	430		1								"		
430 435	435 440		1								"		
440	440		1								"		
170	775		' '	l l	I	ı	ı			ı		1	ı

F001	ΓAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
445	450		1								"		
450	455		1								II .		
455	460		1								u u		
460	465		1								u u		
465	470		1								n .		
470	475		1								n .		
475	480		1								"		
480	485		1								"		
485	490		1								"		
490	495		1								"		
495	500		1								"		
500	505		1								"		
505	510		1								"		
510	515		1								"		
515	520		1								"		
520	525		1								"		
525	530		1								"		
530	535		1								"		
535	540		1								"		
540	545		1								II		
545	550		1								"		
550	555		1								"		
555	560		1								"		
560	565		1								II		
565	570		1								II		
570	575		1								n .		
575	580		1								n .		
580	585		1								II		
585	590		1								n .		
590	595		1								n .		
595	600		1				L				"		
END (OF HO	DLE										_	

DRILL HOLE: EC-06-34 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,190/3,720,010

Elevation: 6836' Inclination: 90°

Date started: May 8, 2006 Date completed: May 11, 2006

Depth: 400'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	40										sayer by: C.L. Smith		40047
FOOT							~				ROCK	DEMARKS.	ASSAY
(fee	et)					IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	120'	Lim	esto	one,	crys	stalli	ne l	imes	stone		
0	5			100							Ls, Xline Is	0% gray ls; 50% wht xline l	S
5	10			100							"	"	
10	15		2	98							Limestone	20% wht xline Is	
15	20		1	99							"	"	
20	25		1	99							"	"	
25	30		1	99							"	"	
30	35		1	98							"	"	
35	40		1	99							"	"	
40	45		1	99							"	"	
45	50		1	99							Crystalline Is		
50	55		1	99							"		
55	60		1	99							Limestone	40% wht xline Is	
60	65		1	99							"	50% wht xlilne Is	
65	70			100							u u	10% wht xline Is	
70	75			100							"	40% wht xline Is	
75	80			100							"	40% wht xline Is	
80	85			100							"	30% wht xline Is	
85	90			100							II .	20% wht xline Is	
90	95		1	99							Crystalline Is		
95	100		1	99							"		
100	105		1	99							"		
105	110		1	99							"		
110	115		1	99							Limestone		
115	120		1	99							"	20% wht xline Is	
		12	0-16	5' Q	uar	tz sa	nds	tone	e, ca	lcite	e cement		
120	125		1	29			70				Qtz ss, cal cmt	20% gray Is	
125	130		1	29			70				"		

FOO	ΓAGE										ROCK		ASSAY
	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
130	135		1	29			70				n .		
135	140		1	29			70				"		
140	145			30			70				n .		
145	150			30			70				"		
150	155			30			70				"		
155	160			30			70				"		
160	165			30			70				"		
		16	5-21	5' C	ryst	allir	ne lir	nest	one	!			
165	170		1	99							Crystalline limestone		
170	175		1	99							n .		
175	180		1	99							"		
180	185		1	99							"		
185	190		2	98							"		
190	195		2	98							"		
195	200		1	99							"		
200	205		1	99							"		
205	210		1	99							"	20% qtz ss, cal cmt	
210	215		1	99								40% gray Is	
		21	5-22	:0' C	alci	te (6	60%)	- di	opsi	de (30%) - hematite (10%) ska	rn	
215	220		10	60		30					Cal-diop-hem skarn		
		22	0-24	0' C	uar	tz sa	ands	tone	e, ca	lcite	cement		
220	225		5	25		70					Qtz ss, cal cmt		
225	230		5	25		70					"	20% wht xline Is	
230	235		5	25		70					"	400/ 14 15 1	
235	240		5	25		70				. ,		40% wht xline Is	
		24	0-26	0. C	alci	te (6	4%)	- di	opsı	de (24%) - hematite (12%) ska	rn	
240	245		10			5					Cal-hem skn		
245	250		15			30					Cal-diop-hem skn		
250	255		15			10					"		
255	260		10			50	<u> </u>				Diop-cal-hem skn		
		26	0-39	5' Q	uar	tz sa	ands	tone	e, ca	lcite	e cement		
260	265		2	28			70				Qtz ss, cal cmt		
265	270		2	28			70				"		
270	275		5	25			70				"		
275	280		5	25			70				"		
280	285		5	25			70				"		
285	290		5	25			70				"		
290	295		5	25			70				"		
295	300		2	28			70				"		
300	305		2	28			70				"		
305 310	310 315		2	28 28			70 70				"		
315			2	28			70				"		
313	JZU			∠0			70				L		

FOO	TAGE										ROCK		ASSAY	
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS	
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay				
320	325		1	29			70				"			
325	330		2	28			70				"			
330	335		2	28			70				"			
335	340		2	28			70				"			
340	345		2	28			70				"			
345	350		2	28			70				"			
350	355		2	28			70				"			
355	360		2	28			70				"			
360	365		2	28			70				"			
365	370		2	28			70				"			
370	375		2	28			70				"			
375	380		2	28			70				"			
380	385		2	28			70				"			
385	390		2	28			70				"			
390	395		2	28			70				"			
		395-400' Muscovite aplite												
395	400		1								Muscovite aplite			
END	OF H	DLE												

DRILL HOLE: EC-06-35 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,125/3,719,910

Elevation: 6818' Inclination: 90°

Date started: May 3, 2006

Date completed: May 5, 2006

Depth: 400'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	OOTAGE						, -				ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	20'	Lim	esto	one,	cry	stalli	ine I	ime	stone		
0	5		1	99							Limestone	20% wht xline Is	
5	10		1	99							"	10% wht xline Is	
10	15		1	99							"		
15	20		1	99							n .		
20	25		1	99							"		
25	30		1	99							"		
30	35		1	99							II .		
35	40		1	99							"		
40	45		1	99							Crystalline Is		
45	50		1	99							"		
50	55		1	99							"		
55	60		1	99							"	30% gray Is	
60	65		1	99							"	"	
65	70		1	99							"	"	
70	75		1	99							"	"	
75	80		1	99							"	"	
80	85		1	99							"	40% gray Is	
85	90		1	99							"		
90	95		1	99							"		
95	100		1	99							"	30% gray Is	
100	105			100							Limestone		
105	110			100							"		
110											"		
115	15 120 5 95										II	10% qtz ss, cal cmt	
		12	0-16	0' Q	uar	tz sa	ands	stone	e, ca	lcite	e cement		
120	125			30			70				Qtz ss, cal cmt		
125	130		2	28			70				"		

FOO	OTAGE ROCK									ROCK		ASSAY	
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
F	+	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
From 130	135	_	1	29	-	-	70	ш	_	٥	Qtz ss, cal cmt		
135	140		1	29			70				waz oo, our ome		
140	145		1	29			70				"		
145	150		1	29			70				"		
150	155		1	29			70				"		
155	160		1	29			70				II .		
		16	0-21	0' C	ryst	allin	e lir	nest	one				
160	165		1	99							Crystalline limestone		
165	170		1	99							"		
170	175		1	99							"		
175 180	180 185		1 1	99 99							"		
185	190		1	99							"		
190	195		1	99							"		
195	200		2	98							II .		
200	205		2	98							n .		
205				II .	20% gray Is								
		21	0-23	5' Q	luar	tz sa	nds	tone	e, ca	lcite	cement		
210	215		3	27			70				Qtz ss, cal cmt		
215	220		10	20			70				"		
220	225		10	20			70				"		
225	230		5	25			70				"		
230	235	22	5 5-25	25	`alci	to (7	70	cka	rn: ı	mine	l or hematite (8%), magnetite	. (79/)	
235	240			70		15		Sha	111, 1	mine	Cal-diop-hem skn	= (170)	
	245	15									Cal-mag skn	40% gray Is	
245				70		5					Cal-hem skn	20% gray Is	
							nds	tone	e, ca	lcite	cement	3 ,	
250	255		5	25			70				Qtz ss, cal cmt		
255	260		5	25			70				u .		
260	265		5	25			70				n		
265	270		5	25			70				"		
270	275		2	28			70				"		
275	280		2	28			70				"		
280	285		2	28			70				"		
285	290		5	25			70						
290 295							"						
300									"				
305	310		5	25			70				"		
, , ,		31			iops	side		%) -	calc	ite (28%) - quartz (23%) - hema	itite (12%) skarn	
310	310 315 5 45 20 30								Cal-diop-qtz skn	30% qtz ss, cal cmt			
315	320			45			20				Cal-diop-qtz-hem skn		
		_			_	-		_					

F001	OTAGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
320	325		10	40		20	30				"		
325	330		15	25		30	30				Diop-qtz-cal-hem skn		
330							20				"		
335									"				
340							п	20% muscovite aplite					
	345-400' Muscovite aplite							lite					
345	350		1								Muscovite aplite		
350	355		1								"		
355	360		1								"		
360	365		1								"		
365	370		1								"		
370	375		1								"		
375	380		1								"		
380									"				
385	390		1								"		
390	395		1								"		
395	400		1								п		
END (OF HO	DLE		·	·	·		·					

DRILL HOLE: EC-06-36 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,180/3,719,823

Elevation: 6819' Inclination: 90°

Date started: May 5, 2006

Date completed: May 14, 2006

Depth: 300'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

_	FOOTAGE ROCK ASSAY												
					МІК	IER/	VI C				ROCK TYPE	REMARKS	ASSAY RESULTS
(16	et)						<u> </u>				IIFE	KEIVIAKKS	RESULIS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-1	100'	Cry	stall	ine	lime	stor	ne				
0	5		1	99							Limestone		
5	10		1	99							n .		
10	15		1	99							n .		
15	20		1	99							n .		
20	25			100							Crystalline limestone	20% gray Is	
25	30		1	99							n .	10% gray Is	
30	35		1	99							n .	"	
35	40		1	99							Limestone	10% wht xline Is	
40	45		1	99							n .		
45	50			100							"		
50	55			100							Crystalline limestone	10% gray Is	
55	60			100							n .	"	
60	65		1	99							Limestone	10% xline Is	
65	70		1	99							n .	"	
70	75			100							"		
75	80			100							n .		
80	85			100							"		
85	90			100							"		
90	95			100							п		
95	100		2	98							Crystalline limestone		
		100-140' Quartz sandstone, cal					ands	ton	e, ca	lcite	e cement		
100	105		1	29			70				Qtz ss, cal cmt		
105	110		1	29			70				n .		
110	115		1	29			70				n .		
115	120		1	29			70				"		
120	125		1	29			70				"		
125	130		2	28			70				"		

F001	TAGE							ROCK		ASSAY			
(fe					MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
130	135		2	28			70				"		
135	140		2	28			70				II .		
		14	0-15	0' N	lusc	ovit	е ар	lite					
140	145		1								Muscovite aplite	20% qtz ss, cal cmt	
145	150		1								n .		
		15	0-17	0' C	ryst	allin	e lir	nest	one	; lim	nestone		
150	155			100							Crystalline Is		
155	160		1	99							Limestone	10% wht xlinels	
160	165		1	99							n	"	
165	170		1	99							Crystalline Is	20% gray Is	
170	175		1_	99			_				"	"	
		17:	5-25	0' C	luar	tz sa	ands	tone	e, ca	lcite	e cement		
175	180		1	29			70				Qtz ss, cal cmt		
180	185		_	39			70				"		
185 190	190 195		5 2	25 28			70 70				"	20% xline ls; 10% musc apl	
195	200		2	28			70				"	" "	
200	205		2	28			70				II .	n .	
205	210		2	28			70				"	10% xline ls	
210	215		2	28			70				n	"	
215	220		2	28			70				"	20% xline Is	
220	225		2	28			70				" "	"	
225 230	230 235		5 5	25 25			70 70				"	30% xline Is; 20% gray Is 80% gray Is	
235	240		5	25			70				n	5% xline ls	
240	245		10	20			70				n .	0,01,	
245	250		5	25			70				"		
		25	0-26	5' C	alci	te (8	2%)	- he	mat	ite (18%) skarn		
250	255		15	85							Cal-hem skn		
255	260		20	80							"		
260	265		20	80		<u> </u>					"		
		26	5-29	5' C	alci	te (3	6%)	- di	opsi	de (28%) - hematite (18%) ska	arn	
265	270		20	50		30					Cal-diop-hem skn		
270	275		20	30		50					Diop-cal-hem skn		
275	280	25 45 30				Cal-diop-hem skn "							
280 285	285 290		20 10	50 55		30 15	20				Cal-qtz-diop-hem skn		
290	295		10 55 15 20								"		
		295-300' Quartz sandstone, calcit							e, ca	lcite	cement		
295	300		10 25 65								Qtz ss, cal cmt		
	OF HO	DLE	. 0								Q.2. 00, 001 01110	<u>I</u>	

DRILL HOLE: EC-06-37 (Reverse Circulation)

Company: El Capitan Precious Metals, Inc. Scottsdale, AZ

Property: El Capitan, Lincoln Co., New Mexico

Drilling Company: Harris Exploration Drilling, San Diego, CA

Location (UTM): 448,010/3,719,910

Elevation: 6779' Inclination: 90°

Date started: May 13, 2006 Date completed: May 13, 2006

Depth: 300'

Cuttings stored at: Capitan Storage, 406 2nd St., Capitan, NM; unit 24-A; M.L. Nunley, P.O. Box 459, Ruidoso, NM 88355; (505) 937-0635

Drilling supervised by: C.L. Smith

Cuttings shipped to assayer by: G. Stephen IV

Assayer: Auric Metallurgical Laboratories, Salt Lake City, UT

Geologic log by: C.L. Smith

	OOTAGE								ROCK		ASSAY		
	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		0-8	35' I	Lime	stor	ne, c	ryst	allin	ne lir	nest	tone		
0	5		1	99							Limestone		
5	10		1	99							"		
10	15		1	99							"	40% xline Is	
15	20		2	98							Crystalline limestone	10% gray Is	
20	25		1	99							Limestone	10% xline Is	
25	30		1 99			"	"						
30	35		1 99			"	"						
35	40		1	99							Xline Is	20% gray Is	
40	45		1	99							Limestone	20% xline Is	
45	50		1	99							"	30% xline Is	
50	55		2	98							Crystalline limestone		
55	60		2	98							II .		
60	65		2	98							II .		
65	70			100							Limestone		
70	75			100							"		
75	80		1	99							II .		
80	85			100							"		
		85	-130	' Qı	ıartz	z sar	ndst	one,	, cal	cite	cement		
85	90		25			75					Qtz sandstone, cal cement		
90	95		25			75					"	20% gray Is	
95	100		25			75					"	30% gray Is	
100	105	1	24			75					"		
105	110	1	24			75					"		
110	115	2	23			75					"		
115	120	2	23			75					"		
120	125	2	23			75					"		
125	130							n .					

F001	AGE										ROCK		ASSAY
(fe	et)				MIN	IER/	ALS				TYPE	REMARKS	RESULTS
From	То	Magnetite	Hematite	Calcite	Phlogopite	Diopside	Quartz	Fluorite	Tremolite	Clay			
		13	0-17				e lir		one	, lim	estone		
130	135		1	99							Limestone	10% wht xline Is	
135	140		1	99							"	n .	
140	145		1	99							"	II	
145	150		1	99							Crystalline limestone	10% gray Is	
150	155		1	99							"	20% gray Is	
155	160	1 99 2 98									"	"	
160	165	2 98 2 98									"	000/	
165	170											30% gray Is	
		17	0-20	0' Q	uart	tz sa	inds	tone	e, ca	lcite	cement		
170	175		2	23			75				Qtz ss, cal cmt		
175	180		5	20			75				"		
180	180 185 5 20 75										"		
185	190		5	20			75				"		
190	195		5 20 75								"		
195	200		5	20			75						
		20	0-21	0' L	ime	ston	е						
200	205		2	98							Limestone		
205	210		2	98							"		
		21	0-30	0' Q	uart	tz sa	nds	tone	e, ca	lcite	cement		
210	215		5	20			75				Qtz ss, cal cmt		
215	220		5	20			75				"		
220	225		1	24			75				"		
225	230		1	24			75				"		
230			1	24			75				"		
235	240		1	24			75 75				"		
240	245		1	24			75 75				"		
245 250	250 255		2	23 23			75 75				"		
255	260		1	23			75 75				"		
260	265		1	24			75 75				"		
265	270		1	24			75				"		
270	275		1	24			75				"		
275	280		1	24			75				"		
280	285		1	24			75				"		
285	290		1	24			75				"		
290	295					"							
295 300 1 24 75							75				n		
END (OF HO	DLE											

Appendix 6

Auric Caustic Fusion Assay Results on Drill Samples

Note: In those cases where non-mag% is listed, Auric reported results only for this percentage of the sample. Auric separated these samples into magnetic (magnetite) and non-magnetic fractions and discarded the magnetic, having determined that all significant Au, Ag, Pt were contained in the non-magnetic fractions only. The Au, Ag, Pt numbers listed here have, therefore, been diluted from those reported by Auric in order to represent 100% of the samples.

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-01	0	5	0.007	0.013	0.016	31.00	45.84	67.63	50.1
EC-05-01	5	10	0.002	0.011	0.009	42.88	62.37	68.75	31.3
EC-05-01	10	15	0.003	0.006	0.006	44.63	64.46	69.23	29.0
EC-05-01	15	20	0.003	0.005	0.004	50.00	72.22	69.23	21.2
EC-05-01	20	28	0.004	0.012	0.011	38.38	56.09	68.43	38.5
EC-05-01	28	38	0.006	0.562	0.025	NS			
EC-05-01	38	48	0.007	0.019	0.028	NS			
EC-05-01	48	57.5	0.008	0.538	0.032	NS			
EC-05-01	57.5	63	0.011	0.021	0.036	NS			96.9
EC-05-01	63	68	0.009	0.082	0.034	NS			96.9
EC-05-01	68	73	0.005	0.020	0.018	NS			
EC-05-01	73	78	0.007	0.026	0.039	NS			
EC-05-01	78	83	0.006	0.032	0.024	NS			
EC-05-01	83	89	0.005	0.019	0.016	NS			
EC-05-01	89	94	0.007	0.148	0.034	NS			
EC-05-01	94	99	0.015	0.020	0.025	NS			
EC-05-02	0	4.5	0.002	0.005	0.006	49.67	71.67	69.31	21.5
EC-05-02	4.5	7.5	0.025	0.061	0.009	NS			
EC-05-02	7.5	12	0.033	0.071	0.008	NS			
EC-05-02	12	20	0.021	0.047	0.008	NS			
EC-05-02	20	30	0.010	0.214	0.034	NS			
EC-05-02	30	40	0.007	0.133	0.009	NS			
EC-05-02	40	50	0.008	0.010	0.020	NS			
EC-05-02	50	55	0.016	0.039	0.008	NS			
EC-05-02	55	60	0.012	0.682	0.013	NS			
EC-05-02	60	65	0.008	0.029	0.008	NS			
EC-05-02	65	70	0.018	0.049	0.021	NS			
EC-05-02	70	75	0.006	0.084	0.026	NS			82.3
EC-05-02	75	80	0.005	0.013	0.018	10.81	16.12	67.06	71.9
EC-05-02	80	85	0.003	0.005	0.011	32.71	49.89	65.56	33.6
EC-05-02	85	90	0.002	0.016	0.008	44.92	67.19	66.86	20.5
EC-05-02	90	95	0.002	0.022	0.008	34.96	63.17	55.35	23.9
EC-05-02	95	100	0.004	0.041	0.022	24.36	36.62	66.52	52.3
EC-05-02	100	105	0.004	0.013	0.013	28.62	41.20	69.47	50.1
EC-05-02	105	109	0.004	0.018	0.014	27.97	40.22	69.55	51.1
EC-05-02	109	118	0.015	0.029	0.009	NS			
EC-05-03	0	5	0.011	0.052	0.011	14.91	22.30	66.84	
EC-05-03	5	10	0.001	0.005	0.002	40.85	60.12	67.95	24.5
EC-05-03	10	14	0.003	0.025	0.019	23.93	34.97	68.43	43.0
EC-05-03	14	20	0.012	0.044	0.019	NS			
EC-05-03	20	23	0.011	0.040	0.010	NS			
EC-05-03	23	28	NS	NS	NS	NS			
EC-05-03	28	35	0.013	0.067	0.018	NS			
EC-05-03	35	40	0.011	0.240	0.010	10.08	14.53	69.37	

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-03	100	105	0.013	0.081	0.040	NS		-	
EC-05-03	105	110	0.019	0.033	0.041	NS			
EC-05-03	110	115	0.016	0.025	0.046	NS			
EC-05-03	115	120	0.019	0.030	0.044	NS			
EC-05-03	120	125	0.015	0.020	0.047	NS			
EC-05-03	125	130	0.025	0.019	0.044	NS			
EC-05-03	130	133	0.008	0.018	0.030	NS			
EC-05-04	0	4	0.039	0.003	0.000	41.32	60.53	68.27	30.9
EC-05-04	4	7	NS	NS	NS	NS			
EC-05-04	7	15	0.041	0.268	0.009	NS			
EC-05-04	15	20	0.019	0.000	0.006	NS			
EC-05-04	20	30	0.030	0.964	0.008	NS			
EC-05-04	30	38	0.017	0.324	0.007	NS			
EC-05-04A	0	38	NS	NS	NS	NS			
EC-05-04A	38	46	0.006	0.000	0.004	NS			
EC-05-04A	46	50	0.014	0.054	0.004	NS			
EC-05-04A	50	55	0.015	0.040	0.003	NS			
EC-05-04A	55	60	0.020	0.062	0.005	NS			
EC-05-04A	60	65	0.020	0.048	0.004	NS			
EC-05-04A	65	70	0.022	0.035	0.007	NS			
EC-05-04A	70	75	0.022	0.033	0.007	NS			
EC-05-04A	75	80	0.013	0.034	0.000	NS			
EC-05-04A EC-05-04A	80	85	0.013	0.098	0.009	NS			78.4
EC-05-04A EC-05-04A	85	89	0.023	0.039	0.014	NS			19.3
		95	0.008	0.039	0.004	NS NS			19.3
EC-05-04A	89 05								04.0
EC-05-04A	95 100	100	0.018	0.052	0.020	NS			81.8
EC-05-04A	100	105	0.012	0.060	0.022	NS			55 A
EC-05-04A	105	111	0.020	0.186	0.013	NS			55.4
EC-05-04A	111	115	0.011	0.035	0.024	NS			
EC-05-04A	115	120	0.011	0.035	0.027	NS			
EC-05-04A	120	125	0.009	0.020	0.028	NS			
EC-05-04A	125	130	0.010	0.015	0.028	NS			
EC-05-04A	130	136	0.008	0.087	0.027	NS	40.00		
EC-05-05	0	5	0.005	0.008	0.007	29.44	46.02	63.97	35.9
EC-05-05	5	10	0.006	0.026	0.016	13.94	20.54	67.87	
EC-05-05	10	15	0.006	0.030	0.015	NS	00.70	50.00	
EC-05-05	15	20	0.004	0.011	0.002	17.13	28.72	59.66	
EC-05-05	20	25	0.003	0.010	0.009	15.89	24.51	64.84	54.5
EC-05-05	25	30	0.005	0.010	0.005	27.39	43.80	62.53	32.0
EC-05-05	30	35	0.005	0.019	0.008	28.31	45.27	62.53	53.2
EC-05-05	35	41	0.010	0.016	0.007	26.88	39.93	67.32	49.2
EC-05-05	41	45	0.006	0.252	0.000	NS			
EC-05-05	45	47	NS	NS	NS	NS			
EC-05-05	47	50	0.010	0.019	0.008	NS			
EC-05-05	50	55	0.001	0.126	0.000	NS			
EC-05-05	55	60	0.010	0.041	0.014	NS			
EC-05-05	60	65	0.014	0.018	0.017	NS			
EC-05-05	65	70	0.014	0.766	0.022	NS			
EC-05-05	70	75	0.013	0.226	0.006	NS			
EC-05-05	75	80	0.010	0.380	0.000	NS			
EC-05-05	80	85	0.015	0.207	0.000	NS			
EC-05-05	85	90	0.010	0.164	0.000	NS			
EC-05-05	90	95	0.010	0.030	0.007	NS			
EC-05-05	95	100	0.010	0.060	0.007	NS			
EC-05-05	100	103.5	0.007	0.031	0.003	NS			

HOLE-ID	FROM	ТО	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-06	0	5	0.410	0.134	0.002	11.59	16.74	69.23	74.2
EC-05-06	5	10	0.034	0.023	0.002	23.35	34.68	67.32	56.8
EC-05-06	10	15	0.014	0.023	0.000	29.55	43.13	68.51	44.0
EC-05-06	15	21	0.007	0.011	0.000	29.55 NS	43.13	00.51	44.0
EC-05-06	21	27	0.007	0.023	0.007	NS			
EC-05-06	27	31	0.009	0.022	0.007	32.54	52.80	61.62	28.7
EC-05-06	31	33	0.006	0.003	0.000	32.54	52.80	61.62	20.7
EC-05-06	33	39	0.000	0.134	0.043	27.40	44.35	61.78	38.2
EC-05-06	39	45	0.010	0.016	0.002	27.40 NS	44.33	01.70	30.2
	39 45	50	0.002	6.538	0.040	NS NS			
EC-05-06						NS NS			
EC-05-06	50	55 60	0.010	0.335 0.028	0.019 0.015	NS NS			
EC-05-06	55 60		0.002						
EC-05-06	60 65	65 70	0.009	0.090	0.019	NS			
EC-05-06	65 70	70 75	0.002	0.031	0.016	NS			
EC-05-06	70 75	75 70	0.010	0.130	0.014	NS			
EC-05-06	75 70	78	0.097	0.041	0.019	NS 24.00	45.07	CO 04	20.0
EC-05-06	78	81	0.094	0.029	0.005	31.06	45.67	68.01	30.0
EC-05-06A	0	81	NS 0.404	NS	NS 0.040	NS			00.5
EC-05-06A	81	87	0.131	0.068	0.013	NS			62.5
EC-05-06A	87	95	0.080	0.094	0.013	NS			75.9
EC-05-06A	95	100	0.042	0.099	0.011	NS			
EC-05-06A	100	105	0.010	0.078	0.005	NS			
EC-05-06A	105	110	0.018	0.080	0.005	NS			
EC-05-06A	110	115	0.020	0.107	0.007	NS			
EC-05-06A	115	120	0.026	0.209	0.009	NS			
EC-05-06A	120	125	0.018	0.222	0.006	NS			
EC-05-06A	125	130	0.018	0.188	0.007	NS			
EC-05-06A	130	135	0.016	0.117	0.004	NS			
EC-05-06A	135	140	0.015	0.097	0.012	NS			
EC-05-06A	140	145	0.014	0.065	0.017	NS			
EC-05-06A	145	150	0.010	0.039	0.015	NS			
EC-05-06A	150	155	0.013	0.034	0.018	NS			
EC-05-06A	155	160	0.015	0.070	0.010	NS			
EC-05-06A	160	165	0.013	0.051	0.009	NS			
EC-05-06A	165	169	0.018	0.028	0.008	NS			
EC-05-06A	169	173	0.028	0.022	0.016	NS			
EC-05-06A	173	178	0.026	0.019	0.005	NS			
EC-05-06A	178	183	0.012	0.027	0.003	NS			
EC-05-06A	183	188	0.013	0.016	0.021	NS			
EC-05-06A	188	193	0.019	0.025	0.019	NS			
EC-05-06A	193	197	0.018	0.038	0.021	NS			
EC-05-06A	197	200	0.012	0.021	0.022	NS			
EC-05-06A	200	206	0.010	0.044	0.023	NS			
EC-05-07	0	5	0.013	0.683	0.012	2.28	3.34	68.34	
EC-05-07	5	10	0.010	0.216	0.008	NS			
EC-05-07	10	15	0.015	0.017	0.000	46.01	66.95	68.73	24.8
EC-05-07	15	20	0.012	0.058	0.000	49.84	70.64	70.56	16.2
EC-05-07	20	25	0.010	0.007	0.000	45.09	64.41	70.01	23.8
EC-05-07	25	30	0.126	0.000	0.000	NS			
EC-05-07	30	37	0.148	0.000	0.000	NS			
EC-05-07	37	48	0.028	0.023	0.000	NS			
EC-05-07	48	54	0.028	0.103	0.000	NS			
EC-05-07	54	60	NS	NS	NS	NS			
EC-05-07	60	65	0.028	0.092	0.000	NS			
EC-05-07	65	70	0.006	0.000	0.000	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-07	70	80	0.019	0.018	0.019	NS			
EC-05-07	80	85	0.084	0.068	0.014	NS			
EC-05-07	85	90	0.009	0.027	0.000	31.95	48.11	66.41	37.6
EC-05-07	90	95	0.003	0.009	0.000	34.39	51.27	67.08	30.1
EC-05-07	95	100	0.006	0.010	0.004	31.80	46.65	68.17	33.8
EC-05-07	100	105	0.054	0.030	0.011	15.55	22.86	68.01	60.3
EC-05-07	105	110	0.007	0.493	0.005	25.83	37.80	68.33	34.8
EC-05-07	110	118	0.046	0.033	0.018	NS			
EC-05-07A	0	118	NS	NS	NS	NS			_
EC-05-07A	118	120	0.054	0.029	0.009	NS			76.8
EC-05-07A	120	125	0.044	0.029	0.013	NS			79.4
EC-05-07A	125	130	0.029	0.032	0.015	NS			77.2
EC-05-07A	130	135	0.023	0.043	0.028	NS			86.1
EC-05-07A	135	140	0.041	0.080	0.019	NS			89.5
EC-05-07A	140	145	0.020	0.101	0.011	NS			
EC-05-07A	145	150	0.032	0.099	0.011	NS			77.7
EC-05-07A	150	155	0.038	0.133	0.013	NS			86.8
EC-05-07A	155	160	0.018	0.064	0.009	NS			
EC-05-07A	160	165	0.012	0.061	0.003	NS			
EC-05-07A	165	170	0.013	0.027	0.000	NS			
EC-05-07A	170	175	0.013	0.025	0.000	NS			
EC-05-07A	175	180	0.022	0.025	0.004	NS			
EC-05-07A	180	185	0.024	0.053	0.007	NS			
EC-05-07A	185	190	0.014	0.048	0.000	NS			
EC-05-07A	190	195	0.017	0.031	0.000	NS			
EC-05-07A	195	200	0.009	0.022	0.000	NS			
EC-05-07A	200	205	0.010	0.025	0.000	NS			
EC-05-07A	205	210	0.007	0.019	0.000	NS			
EC-05-07A	210	215	0.005	0.016	0.000	NS			
EC-05-07A	215	220	0.003	0.016	0.000	NS			
EC-05-07A	220	225	0.003	0.075	0.001	NS			
EC-05-07A	225	230	0.004	0.048	0.002	NS			
EC-05-07A	230	235	0.004	0.018	0.005	NS			
EC-05-07A	235	240	0.007	0.077	0.005	NS			
EC-05-07A	240	245	0.011	0.011	0.009	NS			
EC-05-07A	245	250	0.008	0.088	0.009	NS			
EC-05-07A	250	255	0.002	0.024	0.007	NS			
EC-05-07A	255	260	0.002	0.017	0.007	NS			
EC-05-08	0	5	0.016	0.013	0.006	32.12	47.23	68.01	44.7
EC-05-08	5	10	0.007	0.004	0.006	35.58	51.47	69.13	39.8
EC-05-08	10	15	0.024	0.061	0.008	9.26	13.71	67.53	68.4
EC-05-08	15	20	0.034	0.025	0.012	NS			
EC-05-08	20	25	0.023	0.144	0.013	NS			
EC-05-08	25	30	0.046	0.010	0.018	NS			
EC-05-08	30	35	0.017	0.146	0.011	NS			
EC-05-08	35	40	0.055	1.514	0.013	NS			
EC-05-08	40	45	0.017	0.027	0.014	NS			
EC-05-08	45	50	0.069	0.027	0.013	NS			
EC-05-08	50	54	0.017	0.032	0.018	NS			
EC-05-08	54	64	NS	NS	NS	NS			
EC-05-08	64	70	0.007	0.022	0.030	9.06	17.05	53.16	61.0
EC-05-08	70	75	0.030	0.041	0.015	NS			
EC-05-08	75	80	0.019	0.025	0.016	NS			
EC-05-08	80	89	0.043	0.073	0.016	NS			
EC-05-08A	0	89	NS	NS	NS	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-08A	89	95	0.015	0.080	0.011	NS	_		-
EC-05-08A	95	100	0.011	0.030	0.010	NS			
EC-05-08A	100	105	0.033	0.105	0.028	NS			
EC-05-08A	105	110	0.038	0.097	0.022	NS			
EC-05-08A	110	115	0.033	0.163	0.023	NS			79.7
EC-05-08A	115	120	0.007	0.045	0.008	NS			
EC-05-08A	120	125	0.007	0.045	0.008	NS			
EC-05-08A	125	130	0.008	0.039	0.006	NS			
EC-05-08A	130	135	0.008	0.039	0.006	NS			
EC-05-08A	135	140	0.007	0.041	0.006	NS			
EC-05-08A	140	145	0.020	0.088	0.012	NS			
EC-05-08A	145	150	0.020	0.088	0.012	NS			
EC-05-08A	150	155	0.019	0.076	0.010	NS			
EC-05-08A	155	160	0.019	0.076	0.010	NS			
EC-05-08A	160	165	0.027	0.093	0.015	NS			
EC-05-08A	165	170	0.027	0.093	0.015	NS			
EC-05-08A	170	175	0.025	0.068	0.012	NS			
EC-05-08A	175	180	0.025	0.068	0.012	NS			
EC-05-08A	180	185	0.010	0.026	0.003	NS			
EC-05-08A	185	190	0.009	0.023	0.004	NS			
EC-05-08A	190	195	0.004	0.020	0.002	NS			
EC-05-08A	195	200	0.004	0.020	0.002	NS			
EC-05-08A	200	205	0.005	0.018	0.003	NS			
EC-05-08A	205	210	0.020	0.075	0.017	NS			
EC-05-08A	210	215	0.006	0.010	0.003	NS			
EC-05-08A	215	220	0.006	0.015	0.003	NS			
EC-05-08A	220	225	0.004	0.012	0.004	NS			
EC-05-08A	225	230	0.004	0.009	0.001	NS			
EC-05-08A	230	235	0.007	0.003	0.001	NS			
EC-05-08A	235	240	0.027	0.059	0.030	NS			
EC-05-08A	240	245	0.006	0.019	0.004	NS			
EC-05-08A	245	250	0.019	0.043	0.012	NS			
EC-05-08A	250	255	0.015	0.047	0.009	NS			
EC-05-08A	255	260	0.002	0.020	0.003	NS			
EC-05-08A	260	265	0.002	0.058	0.030	NS			
EC-05-08A	265	270	0.005	0.010	0.009	NS			
EC-05-08A	270	275	0.003	0.010	0.003	NS			
EC-05-08A	275	280	0.000	0.008	0.006	NS			
EC-05-09	0	5	0.004	0.005	0.012	15.10	22.26	67.85	
EC-05-09	5	10	0.004	0.015	0.012	NS	22.20	07.00	
EC-05-09	10	15	0.007	0.146	0.032	NS			
EC-05-09	15	20	0.005	0.030	0.032	11.62	18.42	63.06	
EC-05-09	20	25	0.003	0.566	0.017	29.61	44.05	67.21	
EC-05-09	25	30	0.003	0.045	0.017	31.36	44.90	69.85	
EC-05-09	30	35	0.003	0.043	0.010	NS	77.30	03.03	
EC-05-09	35	40	0.059	0.007	0.008	41.78	61.00	68.49	
EC-05-09	40	43	0.003	0.009	0.007	43.40	63.07	68.81	
EC-05-09 EC-05-09	43	43 49	0.003 NS	NS	0.007 NS	43.40 NS	03.07	00.01	
EC-05-09 EC-05-09	43 49	49 55	0.006	0.041	0.018	NS NS			
EC-05-09 EC-05-09	49 55	60	0.006	0.041	0.018	16.98	26.33	64.50	
EC-05-09 EC-05-09	60	66	0.014	0.020	0.025	24.49	26.33 35.10	64.50 69.77	
EC-05-09 EC-05-09A	0	66	0.006 NS	0.040 NS	0.027 NS	24.49 NS	JJ. 10	09.77	
									72.0
EC-05-09A	66 71	71 75	0.006	0.022	0.022	NS NS			73.2 55.1
EC-05-09A	71 75	75 70	0.004	0.011	0.015				
EC-05-09A	75	79	0.003	0.029	0.022	NS			66.2

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-09A	79	85	0.009	0.019	0.067	NS	3 /	, 5.0	
EC-05-09A	85	90.5	0.007	0.017	0.025	NS			
EC-05-10	0	5	0.033	0.030	0.016	NS			
EC-05-10	5	10	0.008	0.033	0.014	22.15	37.49	59.07	76.3
EC-05-10	10	15	0.006	0.018	0.014	NS			89.2
EC-05-10	15	20	0.021	0.566	0.017	NS			
EC-05-10	20	25	0.024	0.033	0.022	NS			
EC-05-10	25	30	0.016	0.039	0.020	NS			
EC-05-10	30	35	0.010	0.167	0.023	NS			
EC-05-10	35	39	0.011	0.026	0.018	NS			
EC-05-10	39	49	0.014	0.040	0.016	NS			
EC-05-10	49	55	0.029	0.029	0.021	NS			
EC-05-10	55	62	0.029	0.034	0.011	NS			
EC-05-10A	0	62	NS	NS	NS	NS			
EC-05-10A	62	65	0.013	0.095	0.016	NS			74.1
EC-05-10A	65	70	0.019	0.075	0.019	NS			68.3
EC-05-10A	70	75	0.025	0.068	0.023	NS			72.6
EC-05-10A	75	80	0.025	0.123	0.018	NS			48.8
EC-05-10A	80	85	0.010	0.030	0.010	NS			33.7
EC-05-10A	85	90	0.014	0.074	0.028	NS			68.8
EC-05-10A	90	95	0.020	0.043	0.018	NS			
EC-05-10A	95	100	0.020	0.043	0.018	NS			
EC-05-10A	100	105	0.022	0.029	0.021	NS			
EC-05-10A	105	110	0.022	0.029	0.021	NS			
EC-05-10A	110	115	0.017	0.040	0.010	NS			
EC-05-10A	115	120	0.017	0.040	0.010	NS			
EC-05-10A	120	125	0.015	0.062	0.023	NS			81.0
EC-05-10A	125	130	0.013	0.071	0.021	NS			84.1
EC-05-10A	130	135	0.009	0.028	0.018	NS			
EC-05-10A	135	140	0.006	0.030	0.012	NS			
EC-05-10A	140	145	0.007	0.024	0.007	NS			
EC-05-10A	145	150	0.016	0.038	0.026	NS			
EC-05-10A	150	155	0.018	0.038	0.026	NS			
EC-05-10A	155	160	0.008	0.012	0.005	NS			
EC-05-10A	160	165	0.014	0.018	0.018	NS			
EC-05-10A	165	170	0.006	0.017	0.007	NS			
EC-05-10A	170	175	0.004	0.010	0.007	NS			
EC-05-10A	175	180	0.006	0.014	0.016	NS			
EC-05-10A	180	185	0.001	0.008	0.004	NS			
EC-05-10A	185	190	0.001	0.096	0.006	NS			
EC-05-10A	190	195	0.000	0.010	0.011	NS			
EC-05-10A	195	200	0.000	0.010	0.011	NS			
EC-05-10A	200	205	0.000	0.077	0.010	NS			
EC-05-10A	205	210	0.000	0.210	0.006	NS			
EC-05-11	0	5	0.005	0.014	0.013	22.67	37.17	60.99	49.0
EC-05-11	5	10	0.182	0.129	0.022	NS			
EC-05-11	10	20	0.001	0.003	0.002	43.68	65.61	66.57	15.3
EC-05-11	20	25	0.001	0.004	0.003	43.13	70.18	61.46	15.6
EC-05-11	25	30	0.001	0.003	0.001	54.72	79.43	68.89	12.7
EC-05-11	30	34	0.003	0.010	0.003	31.13	46.76	66.57	40.0
EC-05-11	34	39	0.007	0.038	0.023	13.55	19.90	68.09	
EC-05-11	39	45	0.007	0.131	0.016	17.48	29.00	60.27	
EC-05-11	45	49	0.007	0.028	0.025	9.52	16.42	57.95	
EC-05-11	49	59	0.007	0.025	0.022	NS			
EC-05-11A	0	59	NS	NS	NS	NS			

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HOLE-ID	FROM	TO	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-05-11A	59	75	NS	NS	NS	NS			
EC-05-11A	75	80	0.009	0.030	0.008	NS			
EC-05-11A	80	85	0.015	0.044	0.027	NS			
EC-05-11A	85	90	0.018	0.072	0.020	NS			
EC-05-11A	90	95	0.018	0.067	0.024	NS			
EC-05-11A	95	100	0.011	0.055	0.026	NS			
EC-05-11A	100	105	0.027	0.083	0.031	NS			
EC-05-11A	105	110	0.022	0.080	0.028	NS			
EC-05-11A	110	115	0.017	0.073	0.030	NS			
EC-05-11A	115	120	0.003	0.025	0.009	NS			
EC-05-11A	120	125	0.007	0.023	0.003	NS			
EC-05-11A	125	130	0.004	0.018	0.003	NS			
EC-05-11A	130	135	0.007	0.015	0.004	NS			
EC-05-11A	135	140	0.007	0.015	0.004	NS			
EC-05-11A	140	145	0.022	0.037	0.021	NS			
EC-05-11A	145	150	0.038	0.225	0.018	NS			
EC-05-11A	150	155	0.014	0.038	0.004	NS			
EC-05-11A	155	160	0.011	0.045	0.007	NS			
EC-05-11A	160	165	0.037	0.102	0.037	NS			
EC-05-11A	165	170	0.035	0.118	0.031	NS			
EC-05-11A	170	175	0.004	0.201	0.002	NS			
EC-05-11A	175	180	0.004	0.201	0.002	NS			
EC-05-11A	180	185	0.006	0.029	0.011	NS			
EC-05-11A	185	190	0.006	0.050	0.009	NS			
EC-05-11A	190	195	0.023	0.075	0.025	NS			38.9
EC-05-11A	195	200	0.023	0.075	0.025	NS			38.9
EC-05-11A	200	205	0.027	0.061	0.042	NS			61.4
EC-05-11A	205	210	0.027	0.061	0.042	NS			61.4
EC-05-11A	210	215	0.014	0.041	0.002	NS			
EC-05-11A	215	220	0.014	0.041	0.002	NS			
EC-05-11A	220	225	0.013	0.039	0.007	NS			
EC-05-11A	225	230	0.035	0.100	0.037	NS			
EC-05-11A	230	235	0.033	0.079	0.040	NS			
EC-05-11A	235	240	0.033	0.079	0.040	NS			
EC-05-11A	240	245	0.041	0.165	0.029	NS			
EC-05-11A	245	250	0.040	0.044	0.027	NS			
EC-05-11A	250	255	0.029	0.030	0.034	NS			
EC-05-11A	255	260	0.030	0.031	0.032	NS			
EC-05-11A	260	265	0.030	0.031	0.032	NS			
EC-05-11A	265	270	0.032	0.088	0.019	NS			
EC-05-11A	270	275	0.032	0.088	0.019	NS			
EC-05-11A	275	280	0.032	0.027	0.002	NS			
EC-05-11A	280	285	0.010	0.027	0.002	NS			
EC-05-11A	285	290	0.009	0.027	0.002	NS			
EC-05-11A	290	295	0.009	0.022	0.006	NS			
EC-05-11A EC-05-11A	295	300	0.009	0.022	0.006	NS			
	300		0.009	0.022	0.000	NS			
EC-05-11A EC-05-11A	305	305 310	0.016	0.024	0.041	NS NS			
	310	315	0.021	0.033	0.026	NS NS			
EC-05-11A									
EC-05-11A	315	320	0.002	0.013	0.006	NS			
EC-05-11A	320	325	0.005	0.017	0.030	NS			
EC-05-11A	325	330	0.004	0.015	0.028	NS			
EC-05-11A	330	335	0.005	0.288	0.034	NS			
EC-05-11A	335	340	0.003	0.021	0.008	NS	0.44	00.00	
EC-05-12	0	2	0.000	0.001	0.000	NS	0.44	66.89	3.1

EC-05-12 2 6 0.005 0.072 0.015 EC-05-12 6 11 0.001 0.008 0.006 EC-05-12 11 20 0.094 0.048 0.019 EC-05-12 20 25 0.065 0.050 0.014 EC-05-12 25 30 0.067 0.038 0.014 EC-05-12 30 35 0.010 0.178 0.014 EC-05-12 35 42 0.043 0.052 0.013	39.94 58.59 68.17 19.4 NS NS NS
EC-05-12 11 20 0.094 0.048 0.019 EC-05-12 20 25 0.065 0.050 0.014 EC-05-12 25 30 0.067 0.038 0.014 EC-05-12 30 35 0.010 0.178 0.014	NS NS NS
EC-05-12 20 25 0.065 0.050 0.014 EC-05-12 25 30 0.067 0.038 0.014 EC-05-12 30 35 0.010 0.178 0.014	NS NS
EC-05-12 25 30 0.067 0.038 0.014 EC-05-12 30 35 0.010 0.178 0.014	NS NS
EC-05-12 30 35 0.010 0.178 0.014	
EC-05-12 30 35 0.010 0.178 0.014	
EC-05-12 42 50 0.019 0.046 0.013	
EC-05-12 50 60.5 0.038 0.097 0.012	
EC-05-12A 0 60.5 NS NS NS	NS
EC-05-12A 60.5 65 0.010 0.035 0.011	
EC-05-12A 65 70 0.009 0.040 0.010	
EC-05-12A 70 75 0.031 0.108 0.019	
EC-05-12A 75 80 0.029 0.124 0.013	
EC-05-12A 80 85 0.008 0.034 0.006	
EC-05-12A 85 90 0.006 0.072 0.006	
EC-05-12A 90 95 0.007 0.066 0.005	
EC-05-12A 95 100 0.006 0.032 0.003	
EC-05-12A 100 105 0.004 0.024 0.002	
EC-05-12A 105 110 0.004 0.024 0.002	
EC-05-12A 110 115 0.027 0.148 0.024	
EC-05-12A 115 120 0.025 0.200 0.028	
EC-05-12A 120 125 0.022 0.088 0.018	
EC-05-12A 125 130 0.017 0.057 0.018	
EC-05-12A 125 130 0.017 0.057 0.018	
EC-05-12A 145 150 0.004 0.032 0.005	
EC-05-12A 150 155 0.004 0.040 0.004	
EC-05-12A 155 160 0.003 0.029 0.005	
EC-05-12A 160 165 0.007 0.055 0.004	
EC-05-12A 165 170 0.010 0.052 0.003	
EC-05-12A 170 175 0.010 0.058 0.001	
EC-05-12A 175 180 0.010 0.058 0.001	
EC-05-12A 180 185 0.060 0.309 0.033	
EC-05-12A 185 190 0.060 0.309 0.033	
EC-05-12A 190 195 0.011 0.041 0.007	
EC-05-12A 195 200 0.011 0.041 0.007	
EC-05-12A 200 205 0.013 0.044 0.007	
EC-05-12A 205 210 0.022 0.039 0.009	
EC-05-12A 210 215 0.025 0.047 0.014	
EC-05-12A 215 220 0.025 0.047 0.014	
EC-05-12A 220 225 0.012 0.042 0.002	
EC-05-12A 225 230 0.012 0.042 0.002	
EC-05-12A 230 235 0.028 0.056 0.003	
EC-05-12A 235 240 0.028 0.056 0.003	
EC-05-12A 240 245 0.030 0.116 0.005	
EC-05-12A 245 250 0.025 0.105 0.007	
EC-05-12A 250 255 0.027 0.095 0.015	
EC-05-12A 255 260 0.007 0.044 0.001	
EC-05-12A 260 265 0.010 0.038 0.001	
EC-05-12A 265 270 0.010 0.026 0.001	
EC-05-12A 270 275 0.028 0.100 0.003	
EC-05-12A 275 280 0.006 0.098 0.000	
EC-05-12A 280 285 0.033 0.047 0.008	3 NS

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-05-12A	285	290	0.035	0.044	0.009	NS	z	-
EC-05-12A	290	295	0.007	0.030	0.001	NS		
EC-05-12A	295	300	0.011	0.030	0.001	NS		
EC-05-12A	300	305	0.015	0.062	0.002	NS		
EC-05-12A	305	310	0.013	0.051	0.002	NS		
EC-05-12A	310	315	0.014	0.049	0.005	NS		
EC-05-12A	315	320	0.040	0.255	0.011	NS		
EC-05-12A	320	325	0.033	0.183	0.009	NS		
EC-05-12A	325	330	0.027	0.066	0.007	NS		
EC-05-12A	330	335	0.030	0.075	0.007	NS		
EC-05-12A	335	340	0.005	0.009	0.001	NS		
EC-05-12A	340	345	NS	NS	NS	NS		
EC-05-12A	345	350	0.004	0.012	0.000	NS		
EC-05-12A	350	355	0.002	0.009	0.000	NS		
EC-05-12A	355	360	0.002	0.019	0.000	NS		
EC-05-12A	360	365	NS	NS	NS	NS		
EC-05-12A	365	370	0.001	0.011	0.000	NS		
EC-05-12A	370	375	0.004	0.017	0.000	NS		
EC-05-12A	375	380	0.004	0.010	0.000	NS		
EC-05-12A	380	385	0.004	0.009	0.000	NS		
EC-05-12A	385	390	0.004	0.003	0.008	NS		
EC-05-12A	390	395	0.004	0.017	0.006	NS		
EC-05-12A EC-05-12A	395	400	0.004	0.070	0.003	NS		
EC-05-12A	400	405	0.004	0.233	0.003	NS		
EC-05-12A	0	10	0.007	0.233	0.002	NS		
EC-05-13	10	20	0.044	0.216	0.038	NS		
EC-05-13	20	30	0.048	0.333	0.037	NS		
EC-05-13	30	40	0.007	0.201	0.025	NS		
EC-05-13	40	4 0 50	0.007	0.029	0.023	NS		
EC-05-13	4 0 50	60	0.009	0.017	0.023	NS		
EC-05-13 EC-05-13	60	70	0.011	0.019	0.024	NS NS		
EC-05-13	70	82	0.007	0.030	0.023	NS		
EC-05-13	0	5	0.008	0.032	0.023	NS		
EC-05-14 EC-05-14	5	10	0.012	0.105	0.007	NS		
EC-05-14 EC-05-14	10	20	0.028	0.103	0.013	NS		
EC-05-14	20	25	0.009	0.078	0.003	NS		
EC-05-14	25	30	0.005	0.048	0.003	NS		
EC-05-14	30	40	0.009	1.080 0.029	0.025	NS		
EC-05-14	40 50	50 60	0.004		0.031	NS		
EC-05-14	50	60 70	0.003	0.052	0.020	NS		
EC-05-14	60 70	70	0.008	0.038	0.048	NS NS		
EC-05-14	70	82	0.006	0.022	0.030			
EC-06-15	0	5	0.024	0.523	0.012	NS		
EC-06-15	5	10	0.005	0.000	0.008	NS		
EC-06-15	10 15	15	0.006	0.382	0.008	NS		
EC-06-15	15	20 25	0.001	0.067	0.009	NS		
EC-06-15	20	25	0.003	0.282	0.009	NS		
EC-06-15	25	30	0.000	0.640	0.003	NS		
EC-06-15	30	35	0.006	0.601	0.005	NS		
EC-06-15	35	40	0.003	0.393	0.024	NS		
EC-06-15	40	45	0.003	0.052	0.017	NS		
EC-06-15	45	50	0.003	0.722	0.025	NS		
EC-06-15	50	55	0.004	0.258	0.020	NS		
EC-06-15	55	60	0.006	0.259	0.010	NS		
EC-06-15	60	65	0.005	0.393	0.010	NS		

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-15	65	70	0.002	0.352	0.011	NS	111ag /0	i o anaiyaia	.ivii-iiiay /0
EC-06-15	70	75	0.002	0.455	0.016	NS			
EC-06-15	75	80	0.002	0.483	0.014	NS			
EC-06-15	80	85	0.004	0.551	0.021	NS			
EC-06-15	85	90	0.002	0.474	0.009	NS			
EC-06-15	90	95	0.003	0.422	0.007	NS			
EC-06-15	95	100	0.002	0.474	0.010	NS			
EC-06-15	100	105	0.002	0.741	0.013	NS			
EC-06-15	105	110	0.002	0.459	0.025	NS			
EC-06-15	110	115	0.004	0.472	0.010	NS			
EC-06-15	115	120	0.002	0.415	0.009	NS			
EC-06-15	120	125	0.002	0.386	0.007	NS			
EC-06-15	125	130	0.002	0.323	0.011	NS			
EC-06-15	130	135	0.003	0.380	0.019	NS			
EC-06-15	135	140	0.001	0.232	0.013	NS			
EC-06-15	140	145	0.002	0.281	0.012	NS			
EC-06-15	145	150	0.004	0.505	0.007	NS			
EC-06-15	150	155	0.001	0.619	0.008	NS			
EC-06-15	155	160	0.003	0.282	0.017	NS			
EC-06-15	160	165	0.002	0.433	0.022	NS			
EC-06-15	165	170	0.006	0.499	0.019	NS			
EC-06-15	170	175	0.002	0.447	0.009	NS			
EC-06-15	175	180	0.004	0.051	0.002	NS			
EC-06-15	180	185	0.004	0.545	0.009	NS			
EC-06-15	185	190	0.004	0.610	0.021	NS			
EC-06-15	190	195	0.002	0.632	0.015	NS			
EC-06-15	195	200	0.002	0.755	0.029	NS			
EC-06-15	200	205	0.001	0.042	0.023	NS			
EC-06-15	205	210	0.003	0.092	0.013	NS			
EC-06-15	210	215	0.004	0.541	0.014	NS			
EC-06-15	215	220	0.226	1.125	0.015	NS			
EC-06-15	220	225	0.813	1.259	0.149	NS			
EC-06-15	225	230	0.022	0.000	0.030	NS			
EC-06-15	230	235	0.002	0.034	0.012	NS			
EC-06-15	235	240	0.003	0.137	0.010	NS			
EC-06-15	240	245	0.012	0.902	0.028	NS			
EC-06-15	245	250	0.002	0.244	0.000	NS			
EC-06-15	250	255	0.002	0.000	0.000	NS			
EC-06-15	255	260	0.002	0.000	0.019	NS			
EC-06-15	260	265	0.004	0.000	0.011	NS			
EC-06-15	265	270	0.001	0.000	0.017	NS			
EC-06-15	270	275	0.003	0.235	0.000	NS			
EC-06-15	275	280	0.002	0.000	0.000	NS			
EC-06-15	280	285	0.003	0.000	0.014	NS			
EC-06-15	285	290	0.003	0.000	0.014	NS			
EC-06-15	290	295	0.003	0.000	0.017	NS			
EC-06-15	295	300	0.001	0.661	0.016	NS			
EC-06-15	300	305	0.003	0.300	0.015	NS			
EC-06-15	305	310	0.004	0.475	0.007	NS			
EC-06-15	310	315	0.001	0.056	0.004	NS			
EC-06-15	315	320	0.000	0.023	0.001	NS			
EC-06-15	320	325	0.000	0.000	0.002	NS			
EC-06-15	325	330	0.000	0.268	0.002	NS			
EC-06-15	330	335	0.003	2.082	0.002	NS			
EC-06-15	335	340	0.001	0.220	0.001	NS			

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HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-15	340	345	0.264	0.703	0.004	NS			
EC-06-15	345	350	0.007	0.485	0.001	NS			
EC-06-15	350	355	0.001	0.056	0.001	NS			
EC-06-15	355	360	0.004	0.150	0.002	NS			
EC-06-15	360	365	0.001	0.207	0.002	NS			
EC-06-15	365	370	0.001	0.896	0.003	NS			
EC-06-15	370	375	0.001	0.296	0.003	NS			
EC-06-15	375	380	0.000	0.177	0.003	NS			
EC-06-15	380	385	0.003	0.148	0.004	NS			
EC-06-15	385	390	0.002	0.065	0.005	NS			
EC-06-15	390	395	0.003	0.331	0.002	NS			
EC-06-15	395	400	0.003	0.233	0.004	NS	_		
EC-06-16	0	5	0.004	0.346	0.004	NS			
EC-06-16	5	10	0.003	0.042	0.004	NS			
EC-06-16	10	15	0.003	0.101	0.004	NS			
EC-06-16	15	20	0.002	0.115	0.003	NS			
EC-06-16	20	25	0.001	0.279	0.002	NS			
EC-06-16	25	30	0.004	0.442	0.004	NS			
EC-06-16	30	35	0.003	0.170	0.005	NS			
EC-06-16	35	40	0.002	0.160	0.005	NS			
EC-06-16	40	45	0.002	0.221	0.006	NS			
EC-06-16	45	50	0.005	0.142	0.009	NS			
EC-06-16	50	55	0.003	0.217	0.002	NS			
EC-06-16	55	60	0.002	0.205	0.003	NS			
EC-06-16	60	65	0.008	0.142	0.007	NS			
EC-06-16	65	70	0.005	0.000	0.003	NS			
EC-06-16	70	75	0.004	0.216	0.003	NS			
EC-06-16	75	80	0.007	0.060	0.005	NS			
EC-06-16	80	85	0.007	0.082	0.001	NS			
EC-06-16	85	90	0.004	0.308	0.001	NS			
EC-06-16	90	95	0.005	0.175	0.001	NS			
EC-06-16	95	100	0.003	0.045	0.001	NS			
EC-06-16	100	105	0.022	0.128	0.001	NS			
EC-06-16	105	110	0.003	0.249	0.001	NS			
EC-06-16	110	115	0.005	0.250	0.001	NS			
EC-06-16	115	120	0.006	0.185	0.001	NS			
EC-06-16	120	125	0.005	0.517	0.012	NS			
EC-06-16	125	130	0.002	0.177	0.013	NS			
EC-06-16	130	135	0.001	0.158	0.015	NS			
EC-06-16	135	140	0.000	0.153	0.015	NS			
EC-06-16	140	145	0.005	0.000	0.013	NS			
EC-06-16	145	150	0.005	0.290	0.005	NS			
EC-06-16	150	155	0.005	0.092	0.005	NS			
EC-06-16	155	160	0.002	0.207	0.007	NS			
EC-06-16	160	165	0.004	0.199	0.008	NS			
EC-06-16	165	170	0.003	0.366	0.009	NS			
EC-06-16	170	175	0.004	0.216	0.009	NS			
EC-06-16	175	180	0.004	0.249	0.005	NS			
EC-06-16	180	185	0.003	0.000	0.003	NS			
EC-06-16	185	190	0.002	0.000	0.007	NS			
EC-06-16	190	195	0.002	0.000	0.007	NS			
EC-06-16	195	200	0.002	0.000	0.006	NS			
EC-06-16	200	205	0.002	0.000	0.003	NS			
EC-06-16	205	210	0.002	0.427	0.003	NS			
EC-06-16	210	215	0.002	0.169	0.003	NS			
_0 00 10	210	210	0.002	0.100	0.000	. 10			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-16	215	220	0.003	0.000	0.007	NS	z	-
EC-06-16	220	225	0.040	0.368	0.005	NS		
EC-06-16	225	230	0.003	0.057	0.006	NS		
EC-06-16	230	235	0.003	0.070	0.005	NS		
EC-06-16	235	240	0.002	0.140	0.001	NS		
EC-06-16	240	245	0.004	0.091	0.002	NS		
EC-06-16	245	250	0.006	0.141	0.003	NS		
EC-06-16	250	255	0.004	0.073	0.001	NS		
EC-06-16	255	260	0.003	0.023	0.001	NS		
EC-06-16	260	265	0.005	0.000	0.001	NS		
EC-06-16	265	270	0.003	0.044	0.001	NS		
EC-06-16	270	275	0.002	0.008	0.002	NS		
EC-06-16	275	280	0.002	0.000	0.005	NS		
EC-06-16	280	285	0.002	0.000	0.008	NS		
EC-06-16	285	290	0.004	0.204	0.008	NS		
EC-06-16	290	295	0.002	0.089	0.005	NS		
EC-06-16	295	300	0.002	0.125	0.011	NS		
EC-06-16	300	305	0.002	0.596	0.008	NS		
EC-06-16	305	310	0.001	0.060	0.011	NS		
EC-06-16	310	315	0.002	0.735	0.013	NS		
EC-06-16	315	320	0.002	0.059	0.013	NS		
EC-06-16	320	325	0.001	0.068	0.015	NS		
EC-06-16	325	330	0.001	0.059	0.013	NS		
EC-06-16	330	335	0.004	0.349	0.013	NS		
EC-06-16	335	340	0.004	0.966	0.001	NS		
EC-06-16	340	345	0.003	0.384	0.001	NS		
EC-06-16	345	350	0.024	0.294	0.001	NS		
EC-06-16	350	355	0.003	0.294	0.001	NS		
EC-06-17	0	5	0.004	0.196	0.012	NS	-	
EC-06-17	5	10	0.002	0.460	0.000	NS		
EC-06-17	10	15	0.002	0.000	0.000	NS		
EC-06-17	15	20	0.002	0.124	0.000	NS		
EC-06-17	20	25	0.002	0.000	0.000	NS		
EC-06-17	25	30	0.003	0.000	0.009	NS		
EC-06-17	30	35	0.003	0.066	0.009	NS		
EC-06-17	35	40	0.004	0.000	0.007	NS		
EC-06-17	40	40 45	0.002	0.000	0.007	NS		
	45		0.033	0.190				
EC-06-17 EC-06-17		50			0.001	NS		
	50	55 60	0.005 0.005	0.000	0.002 0.003	NS NS		
EC-06-17	55 60			0.000				
EC-06-17	60 65	65 70	0.005	0.205	0.003	NS		
EC-06-17	65 70	70 75	0.003	0.015	0.002	NS		
EC-06-17	70 75	75 20	0.004	0.076	0.000	NS		
EC-06-17	75	80	0.003	0.000	0.000	NS		
EC-06-17	80	85	0.001	0.000	0.002	NS		
EC-06-17	85	90	0.001	0.048	0.005	NS		
EC-06-17	90	95	0.004	0.015	0.004	NS		
EC-06-17	95	100	0.002	0.035	0.003	NS		
EC-06-17	100	105	0.002	0.114	0.005	NS		
EC-06-17	105	110	0.002	0.232	0.001	NS		
EC-06-17	110	115	0.001	0.181	0.003	NS		
EC-06-17	115	120	0.001	0.014	0.003	NS		
EC-06-17	120	125	0.003	0.272	0.008	NS		
EC-06-17	125	130	0.002	0.557	0.006	NS		
EC-06-17	130	135	0.002	0.186	0.004	NS		

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag 9/	Fe analysis	non-mag 0/
EC-06-17	135	140	0.001	0.013	0.004	NS	Mag %	re analysis	non-mag %
EC-06-17	140	145	0.001	0.307	0.004	NS			
EC-06-17	145	150	0.002	0.265	0.003	NS			
EC-06-17	150	155	0.002	0.203	0.004	NS			
EC-06-17	155	160	0.002	0.069	0.003	NS			
EC-06-17 EC-06-17	160	165	0.000	0.009	0.003	NS			
EC-06-17 EC-06-17	165	170		0.234		NS			
	170	170	0.001 0.001	0.185	0.006 0.000	NS NS			
EC-06-17									
EC-06-17	175	180	0.000	0.100	0.002	NS NS			
EC-06-17	180	185	0.002	0.000	0.002				
EC-06-17	185	190	0.002	0.054	0.006	NS			
EC-06-17	190	195	0.002	0.000	0.003	NS			
EC-06-17	195	200	0.004	0.000	0.002	NS			
EC-06-17	200	205	0.004	0.000	0.004	NS			
EC-06-17	205	210	0.001	0.406	0.013	NS			
EC-06-17	210	215	0.003	0.478	0.005	NS			
EC-06-17	215	220	0.003	0.000	0.011	NS			
EC-06-17	220	225	0.004	0.053	0.007	NS			
EC-06-17	225	230	0.002	0.000	0.006	NS			
EC-06-17	230	235	0.003	0.000	0.005	NS			
EC-06-17	235	240	0.001	0.000	0.015	NS			
EC-06-17	240	245	0.001	0.016	0.003	NS			
EC-06-17	245	250	0.003	0.050	0.002	NS			
EC-06-17	250	255	0.002	0.044	0.002	NS			
EC-06-17	255	260	0.010	0.065	0.004	NS			
EC-06-17	260	265	0.007	0.073	0.004	NS			
EC-06-17	265	270	0.003	0.065	0.003	NS			
EC-06-17	270	275	0.003	0.061	0.003	NS			
EC-06-17	275	280	0.005	0.045	0.000	NS			
EC-06-17	280	285	0.007	0.062	0.002	NS			
EC-06-17	285	290	0.011	0.088	0.004	NS			
EC-06-17	290	295	0.014	0.122	0.007	NS			
EC-06-17	295	300	0.013	0.100	0.006	NS			
EC-06-17	300	305	0.013	0.098	0.004	NS			
EC-06-17	305	310	0.005	0.113	0.003	NS			
EC-06-17	310	315	0.002	0.060	0.003	NS			
EC-06-17	315	320	0.000	0.000	0.000	NS			
EC-06-17	320	325	0.000	0.000	0.000	NS			
EC-06-17	325	330	0.000	0.000	0.000	NS			
EC-06-17	330	335	0.001	0.000	0.001	NS			
EC-06-17	335	340	0.004	0.019	0.003	NS			
EC-06-17	340	345	0.003	0.018	0.003	NS			
EC-06-17	345	350	0.003	0.020	0.003	NS			
EC-06-17	350	355	0.011	0.052	0.003	NS			
EC-06-17	355	360	0.010	0.050	0.002	NS			
EC-06-17	360	365	0.009	0.050	0.003	NS			
EC-06-17	365	370	0.003	0.013	0.003	NS			
EC-06-17	370	375	0.003	0.011	0.003	NS			
EC-06-17	375	380	0.002	0.010	0.003	NS			
EC-06-17	380	385	0.004	0.007	0.003	NS			
EC-06-17	385	390	0.004	0.012	0.003	NS			
EC-06-17	390	395	0.003	0.010	0.003	NS			
EC-06-17	395	400	0.001	0.000	0.000	NS			
EC-06-17	400	405	0.001	0.000	0.000	NS			
EC-06-17	405	410	0.002	0.009	0.001	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-17	410	415	0.004	0.054	0.004	NS		
EC-06-17	415	420	0.003	0.037	0.002	NS		
EC-06-17	420	425	0.001	0.000	0.000	NS		
EC-06-17	425	430	0.000	0.000	0.000	NS		
EC-06-17	430	435	0.000	0.000	0.000	NS		
EC-06-17	435	440	0.007	0.042	0.003	NS		
EC-06-17	440	445	0.006	0.039	0.003	NS		
EC-06-17	445	450	0.007	0.035	0.003	NS		
EC-06-18	0	5	0.015	0.326	0.007	NS	_	
EC-06-18	5	10	0.012	0.333	0.006	NS		
EC-06-18	10	15	0.004	0.033	0.001	NS		
EC-06-18	15	20	0.005	0.042	0.000	NS		
EC-06-18	20	25	0.004	0.145	0.000	NS		
EC-06-18	25	30	0.003	0.037	0.000	NS		
EC-06-18	30	35	0.002	0.035	0.000	NS		
EC-06-18	35	40	0.002	0.028	0.000	NS		
EC-06-18	40	45	0.002	0.030	0.000	NS		
EC-06-18	45	50	0.018	0.122	0.008	NS		
EC-06-18	50	55	0.020	0.173	0.010	NS		
EC-06-18	55	60	0.007	0.068	0.000	NS		
EC-06-18	60	65	0.012	0.068	0.004	NS		
EC-06-18	65	70	0.012	0.055	0.003	NS		
EC-06-18	70	75	0.009	0.092	0.000	NS		
EC-06-18	75	80	0.008	0.085	0.000	NS		
EC-06-18	80	85	0.002	0.037	0.000	NS		
EC-06-18	85	90	0.002	0.850	0.007	NS		
EC-06-18	90	95	0.021	0.544	0.007	NS		
EC-06-18	95	100	0.017	0.105	0.005	NS		
EC-06-18	100	105	0.014	0.103	0.000	NS		
EC-06-18	105	110	0.007	0.022	0.000	NS		
EC-06-18	110	115	0.007	0.027	0.000	NS		
EC-06-18	115	120	0.007	0.023	0.000	NS		
EC-06-18	120	125	0.009	0.030	0.000	NS		
EC-06-18	125	130	0.033	0.031	0.008	NS		
EC-06-18	130	135	0.028	0.043	0.008	NS		
	135	140	0.022	0.008	0.007	NS		
EC-06-18						NS		
EC-06-18	140 145	145	0.044	0.212	0.012 0.003			
EC-06-18		150	0.012	0.088		NS		
EC-06-18	150 155	155 160	0.006	0.075	0.003	NS		
EC-06-18			0.004	0.079	0.001	NS		
EC-06-18	160	165 170	0.011	0.100	0.000	NS		
EC-06-18	165	170	0.004	0.110	0.001	NS		
EC-06-18	170	175	0.033	1.076	0.004	NS		
EC-06-18	175	180	0.029	0.988	0.003	NS		
EC-06-18	180	185	0.037	0.855	0.003	NS		
EC-06-18	185	190	0.033	0.085	0.001	NS		
EC-06-18	190	195	0.018	0.205	0.002	NS		
EC-06-18	195	200	0.027	0.200	0.002	NS		
EC-06-18	200	205	0.018	0.230	0.001	NS		
EC-06-18	205	210	0.020	0.185	0.001	NS		
EC-06-18	210	215	0.004	0.044	0.000	NS		
EC-06-18	215	220	0.048	0.523	0.010	NS		
EC-06-18	220	225	0.062	0.700	0.010	NS		
EC-06-18	225	230	0.053	0.675	0.012	NS		
EC-06-18	230	235	0.030	0.115	0.006	NS		

EC-06-18 235 240 0.022 0.096 0.004 NS EC-06-18 240 245 0.015 0.085 0.005 NS EC-06-18 255 250 0.016 0.088 0.003 NS EC-06-18 255 260 0.018 0.095 0.005 NS EC-06-18 260 265 0.015 0.126 0.001 NS EC-06-18 266 270 0.017 0.126 0.001 NS EC-06-18 275 280 0.008 0.045 0.001 NS EC-06-18 275 280 0.008 0.052 0.001 NS EC-06-18 280 285 0.006 0.055 0.001 NS EC-06-18 280 295 0.023 0.073 0.001 NS EC-06-18 300 305 0.025 0.116 0.022 NS EC-06-18 315 300 0.021	HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-18 245 250 0.016 0.088 0.003 NS EC-06-18 255 255 0.018 0.095 0.004 NS EC-06-18 255 260 0.018 0.090 0.005 NS EC-06-18 260 265 0.015 0.126 0.001 NS EC-06-18 270 275 0.008 0.045 0.001 NS EC-06-18 270 280 0.008 0.052 0.001 NS EC-06-18 280 285 0.006 0.055 0.001 NS EC-06-18 280 295 0.023 0.073 0.001 NS EC-06-18 295 300 0.021 0.056 0.002 NS EC-06-18 305 310 0.021 0.096 0.002 NS EC-06-18 315 320 0.016 0.049 0.001 NS EC-06-18 315 300 0.025									-
EC-06-18 250 255 200 0.018 0.095 0.004 NS EC-06-18 255 260 0.015 0.126 0.001 NS EC-06-18 260 265 0.015 0.126 0.001 NS EC-06-18 275 200 0.008 0.052 0.001 NS EC-06-18 275 280 0.008 0.052 0.001 NS EC-06-18 285 290 0.021 0.075 0.002 NS EC-06-18 285 290 0.021 0.073 0.001 NS EC-06-18 295 300 0.021 0.073 0.001 NS EC-06-18 300 305 0.025 0.116 0.002 NS EC-06-18 310 315 0.018 0.096 0.001 NS EC-06-18 320 325 0.019 0.055 0.001 NS EC-06-18 325 330 <t< td=""><td>EC-06-18</td><td>240</td><td>245</td><td>0.015</td><td>0.085</td><td>0.005</td><td>NS</td><td></td><td></td></t<>	EC-06-18	240	245	0.015	0.085	0.005	NS		
EC-06-18 250 255 200 0.018 0.095 0.004 NS EC-06-18 255 260 0.015 0.126 0.001 NS EC-06-18 260 265 0.015 0.126 0.001 NS EC-06-18 275 200 0.008 0.052 0.001 NS EC-06-18 275 280 0.008 0.052 0.001 NS EC-06-18 285 290 0.021 0.075 0.002 NS EC-06-18 285 290 0.021 0.073 0.001 NS EC-06-18 295 300 0.021 0.073 0.001 NS EC-06-18 300 305 0.025 0.116 0.002 NS EC-06-18 310 315 0.018 0.096 0.001 NS EC-06-18 320 325 0.019 0.055 0.001 NS EC-06-18 325 330 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
EC-06-18 255 260 0.018 0.090 0.005 NS EC-06-18 265 270 0.017 0.126 0.001 NS EC-06-18 265 270 0.017 0.125 0.002 NS EC-06-18 270 275 0.008 0.045 0.001 NS EC-06-18 280 280 0.008 0.055 0.001 NS EC-06-18 280 285 0.003 0.073 0.001 NS EC-06-18 290 295 0.023 0.073 0.001 NS EC-06-18 290 295 0.023 0.073 0.001 NS EC-06-18 305 310 0.021 0.086 0.002 NS EC-06-18 315 320 0.016 0.099 0.001 NS EC-06-18 315 320 0.016 0.099 0.001 NS EC-06-18 325 300 0.023						0.004			
EC-06-18 260 265 277 0.126 0.001 NS EC-06-18 270 275 0.008 0.045 0.001 NS EC-06-18 275 280 0.008 0.052 0.001 NS EC-06-18 285 285 0.006 0.055 0.001 NS EC-06-18 285 290 0.021 0.075 0.002 NS EC-06-18 295 295 0.023 0.073 0.002 NS EC-06-18 290 300 0.021 0.068 0.001 NS EC-06-18 305 310 0.021 0.068 0.001 NS EC-06-18 305 310 0.021 0.096 0.001 NS EC-06-18 315 320 0.016 0.096 0.001 NS EC-06-18 325 330 0.023 0.118 0.002 NS EC-06-18 335 340 0.023 <t< td=""><td>EC-06-18</td><td>255</td><td>260</td><td>0.018</td><td>0.090</td><td>0.005</td><td>NS</td><td></td><td></td></t<>	EC-06-18	255	260	0.018	0.090	0.005	NS		
EC-06-18 255 270 0.017 0.125 0.002 NS EC-06-18 275 280 0.008 0.045 0.001 NS EC-06-18 280 285 0.006 0.055 0.001 NS EC-06-18 285 290 0.021 0.075 0.002 NS EC-06-18 290 295 0.023 0.073 0.001 NS EC-06-18 295 300 0.021 0.068 0.001 NS EC-06-18 300 305 0.025 0.116 0.002 NS EC-06-18 310 315 0.018 0.096 0.002 NS EC-06-18 315 320 0.018 0.096 0.002 NS EC-06-18 320 325 300 0.023 0.116 0.002 NS EC-06-18 330 335 0.023 0.118 0.002 NS EC-06-18 330 345 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
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EC-06-19 45 50 0.019 0.107 0.007 NS EC-06-19 50 55 0.008 0.075 0.009 NS									
EC-06-19 50 55 0.008 0.075 0.009 NS	EC-06-19	40	45	0.021	0.132	0.009			
	EC-06-19	45	50	0.019	0.107	0.007	NS		
EC-06-19 55 60 0.011 0.787 0.028 NS	EC-06-19	50	55	0.008	0.075	0.009	NS		
	EC-06-19	55	60	0.011	0.787	0.028	NS		

HOLE-ID	FROM	ТО	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-19	60	65	0.005	0.043	0.000	NS			
EC-06-19	65	70	0.002	0.033	0.000	NS			
EC-06-19	70	75	0.004	0.039	0.003	NS			
EC-06-19	75	80	0.000	0.038	0.000	NS			
EC-06-19	80	85	0.003	0.040	0.000	NS			
EC-06-19	85	90	0.008	0.058	0.000	NS			
EC-06-19	90	95	0.012	0.055	0.002	NS			
EC-06-19	95	100	0.011	0.094	0.001	NS			
EC-06-19	100	105	0.020	0.148	0.004	NS			
EC-06-19	105	110	0.018	0.125	0.003	NS			
EC-06-19	110	115	0.031	0.386	0.005	NS			
EC-06-19	115	120	0.033	0.400	0.012	NS			
EC-06-19	120	125	0.002	0.035	0.000	NS			
EC-06-19	125	130	0.002	0.045	0.000	NS			
EC-06-19	130	135	0.000	0.050	0.000	NS			
EC-06-19	135	140	0.000	0.050	0.000	NS			
EC-06-19	140	145	0.007	0.050	0.000	NS			
EC-06-19	145	150	0.017	0.102	0.000	NS			
EC-06-19	150	155	0.015	0.077	0.006	NS			
EC-06-19	155	160	0.015	0.075	0.004	NS			
EC-06-19	160	165	0.016	0.080	0.004	NS			
EC-06-19	165	170	0.015	0.067	0.003	NS			
EC-06-19	170	175	0.000	0.031	0.000	NS			
EC-06-19	175	180	0.000	0.028	0.000	NS			
EC-06-19	180	185	0.018	0.118	0.002	NS			
EC-06-19	185	190	0.021	0.202	0.003	NS			
EC-06-19	190	195	0.022	0.248	0.003	NS			
EC-06-19	195	200	0.017	0.098	0.002	NS			
EC-06-19	200	205	0.009	0.052	0.000	NS			
EC-06-19	205	210	0.011	0.055	0.000	NS			
EC-06-19	210	215	0.011	0.047	0.000	NS			
EC-06-19	215	220	0.015	0.048	0.000	NS			
EC-06-19	220	225	0.004	0.038	0.000	NS			
EC-06-19	225	230	0.004	0.034	0.000	NS			
EC-06-19	230	235	0.002	0.029	0.000	NS			
EC-06-19	235	240	0.001	0.030	0.000	NS			
EC-06-19	240	245	0.004	0.029	0.000	NS			
EC-06-19	245	250	0.007	0.065	0.002	NS	_		
EC-06-20	0	5	0.021	2.200	0.007	NS			
EC-06-20	5	10	0.016	1.850	0.005	NS			
EC-06-20	10	15	0.015	0.960	0.008	NS			
EC-06-20	15	20	0.016	0.105	0.008	NS			
EC-06-20	20	25	0.013	0.077	0.005	NS			
EC-06-20	25	30	0.030	0.097	0.008	NS			
EC-06-20	30	35	0.021	0.068	0.010	NS			
EC-06-20	35	40	0.009	0.066	0.010	NS			
EC-06-20	40	45	0.006	0.070	0.000	NS			
EC-06-20	45	50	0.013	0.058	0.000	NS			
EC-06-20	50	55	0.028	0.159	0.007	NS			
EC-06-20	55	60	0.004	0.047	0.001	NS			
EC-06-20	60	65	0.002	0.044	0.001	NS			
EC-06-20	65	70	0.021	0.072	0.014	NS			
EC-06-20	70	75	0.030	0.075	0.012	NS			
EC-06-20	75	80	0.000	0.025	0.002	NS			
EC-06-20	80	85	0.002	0.021	0.001	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-20	85	90	0.020	0.080	0.007	NS		
EC-06-20	90	95	0.019	0.093	0.005	NS		
EC-06-20	95	100	0.014	0.040	0.003	NS		
EC-06-20	100	105	0.037	0.227	0.011	NS		
EC-06-20	105	110	0.034	0.307	0.012	NS		
EC-06-20	110	115	0.033	0.315	0.014	NS		
EC-06-20	115	120	0.036	0.100	0.014	NS		
EC-06-20	120	125	0.010	0.096	0.002	NS		
EC-06-20	125	130	0.009	0.097	0.001	NS		
EC-06-20	130	135	0.009	0.112	0.001	NS		
EC-06-20	135	140	0.007	0.000	0.000	NS		
EC-06-20	140	145	0.007	0.000	0.000	NS		
EC-06-20	145	150	0.007	0.000	0.000	NS		
EC-06-20	150	155	0.009	0.065	0.003	NS		
EC-06-20	155	160	0.008	0.047	0.004	NS		
EC-06-20	160	165	0.018	0.217	0.004	NS		
EC-06-20	165	170	0.010	0.217	0.005	NS		
	170	175	0.021	0.213	0.003	NS NS		
EC-06-20								
EC-06-20	175	180	0.015	0.074	0.005	NS		
EC-06-20	180	185	0.000	0.025	0.000	NS		
EC-06-20	185	190	0.015	0.076	0.002	NS		
EC-06-20	190	195	0.012	0.115	0.001	NS		
EC-06-20	195	200	0.017	0.095	0.010	NS		
EC-06-20	200	205	0.016	0.081	0.009	NS		
EC-06-20	205	210	0.039	0.515	0.012	NS		
EC-06-20	210	215	0.044	0.423	0.012	NS		
EC-06-20	215	220	0.051	0.328	0.012	NS		
EC-06-20	220	225	0.016	0.316	0.004	NS		
EC-06-20	225	230	0.023	0.100	0.004	NS		
EC-06-20	230	235	0.009	0.185	0.006	NS		
EC-06-20	235	240	0.012	0.200	0.003	NS		
EC-06-20	240	245	0.014	0.700	0.003	NS		
EC-06-20	245	250	0.012	0.089	0.004	NS		
EC-06-20	250	255	0.017	0.100	0.008	NS		
EC-06-20	255	260	0.005	0.111	0.006	NS		
EC-06-20	260	265	0.002	0.020	0.004	NS		
EC-06-20	265	270	0.004	0.018	0.001	NS		
EC-06-20	270	275	0.004	0.030	0.001	NS		
EC-06-20	275	280	0.007	0.000	0.003	NS		
EC-06-20	280	285	0.008	0.000	0.001	NS		
EC-06-20	285	290	0.009	0.025	0.002	NS		
EC-06-20	290	295	0.012	0.038	0.003	NS		
EC-06-20	295	300	0.020	0.080	0.003	NS		
EC-06-20	300	305	0.020	0.080	0.004	NS		
EC-06-20	305	310	0.016	0.065	0.006	NS		
EC-06-20	310	315	0.016	0.062	0.006	NS		
EC-06-20	315	320	0.007	0.002	0.010	NS		
EC-06-20	320	325	0.006	0.019	0.010	NS		
EC-06-20	325	330	0.007	0.015	0.012	NS		
EC-06-20 EC-06-20	330	335	0.007	0.015	0.002	NS NS		
EC-06-20 EC-06-20	335	340	0.014		0.008	NS NS		
				0.095				
EC-06-20	340	345	0.020	0.121	0.014	NS		
EC-06-20	345	350	0.025	0.139	0.010	NS		
EC-06-20	350	355	0.040	0.287	0.010	NS		
EC-06-20	355	360	0.039	0.300	0.010	NS		

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-20	360	365	0.005	0.076	0.006	NS		
EC-06-20	365	370	0.005	0.040	0.003	NS		
EC-06-20	370	375	0.008	0.080	0.003	NS		
EC-06-20	375	380	0.005	0.073	0.002	NS		
EC-06-20	380	385	0.004	0.077	0.001	NS		
EC-06-20	385	390	0.009	0.084	0.001	NS		
EC-06-20	390	395	0.012	0.118	0.002	NS		
EC-06-20	395	400	0.011	0.067	0.002	NS		
EC-06-20	400	405	0.012	0.080	0.002	NS		
EC-06-20	405	410	0.010	0.091	0.001	NS		
EC-06-20	410	415	0.015	0.095	0.003	NS		
EC-06-20	415	420	0.014	0.092	0.003	NS		
EC-06-20	420	425	0.000	0.019	0.000	NS		
EC-06-20	425	430	0.001	0.020	0.000	NS		
EC-06-20	430	435	0.002	0.020	0.000	NS		
EC-06-20	435	440	0.000	0.041	0.000	NS		
EC-06-20	440	445	0.000	0.044	0.000	NS		
EC-06-20	445	450	0.007	0.052	0.000	NS		
EC-06-21	0	5	0.038	0.236	0.021	NS	•	
EC-06-21	5	10	0.055	0.414	0.026	NS		
EC-06-21	10	15	0.043	0.354	0.018	NS		
EC-06-21	15	20	0.012	0.202	0.006	NS		
EC-06-21	20	25	0.023	0.254	0.006	NS		
EC-06-21	25	30	0.018	0.165	0.007	NS		
EC-06-21	30	35	0.030	0.185	0.009	NS		
EC-06-21	35	40	0.015	0.098	0.003	NS		
EC-06-21	40	45	0.012	0.098	0.003	NS		
EC-06-21	45	50	0.013	0.090	0.002	NS		
EC-06-21	50	55	0.020	0.115	0.004	NS		
EC-06-21	55	60	0.044	0.377	0.013	NS		
EC-06-21	60	65	0.023	0.345	0.004	NS		
EC-06-21	65	70	0.012	0.075	0.002	NS		
EC-06-21	70	75	0.021	0.095	0.005	NS		
EC-06-21	75	80	0.015	0.100	0.004	NS		
EC-06-21	80	85	0.015	0.106	0.004	NS		
EC-06-21	85	90	0.013	0.118	0.003	NS		
EC-06-21	90	95	0.022	0.185	0.006	NS		
EC-06-21	95	100	0.020	0.128	0.005	NS		
EC-06-21	100	105	0.023	0.143	0.005	NS		
EC-06-21	105	110	0.024	0.144	0.004	NS		
EC-06-21	110	115	0.021	0.089	0.003	NS		
EC-06-21	115	120	0.020	0.088	0.003	NS		
EC-06-21	120	125	0.020	0.096	0.003	NS		
EC-06-21	125	130	0.019	0.132	0.003	NS		
EC-06-21	130	135	0.014	0.182	0.002	NS		
EC-06-21	135	140	0.031	0.188	0.012	NS		
EC-06-21	140	145	0.030	0.143	0.010	NS		
EC-06-21	145	150	0.020	0.107	0.008	NS		
EC-06-21	150	155	0.018	0.102	0.003	NS		
EC-06-21	155	160	0.015	0.101	0.004	NS		
EC-06-21	160	165	0.014	0.101	0.002	NS		
EC-06-21	165	170	0.020	0.128	0.002	NS		
EC-06-21	170	175	0.035	0.198	0.004	NS		
EC-06-21	175	180	0.033	0.228	0.011	NS		
EC-06-21	180	185	0.028	0.165	0.009	NS		

HOLE-ID	FROM	TO	AU 0.010	AG	PT 0.000	FE	Mag %	Fe analysis	non-mag %
EC-06-21	185	190	0.010	0.049	0.000	NS			
EC-06-21	190	195	0.009	0.038	0.000	NS			
EC-06-21	195	200	0.007	0.026	0.000	NS			
EC-06-21	200	205	0.012	0.048	0.001	NS			
EC-06-21	205	210	0.015	0.061	0.002	NS			
EC-06-21	210	215	0.017	0.032	0.003	NS			
EC-06-21	215	220	0.015	0.038	0.004	NS			
EC-06-21	220	225	0.007	0.052	0.000	NS			
EC-06-21	225	230	0.005	0.039	0.000	NS			
EC-06-21	230	235	0.006	0.033	0.000	NS			
EC-06-21	235	240	0.006	0.028	0.000	NS			
EC-06-21	240	245	0.006	0.031	0.001	NS			
EC-06-21	245	250	0.010	0.030	0.001	NS			
EC-06-21	250	255	0.020	0.070	0.000	NS			
EC-06-21	255	260	0.021	0.046	0.005	NS			
EC-06-21	260	265	0.017	0.090	0.003	NS			
EC-06-21	265	270	0.017	0.087	0.004	NS			
EC-06-21	270	275	0.019	0.095	0.003	NS			
EC-06-21	275	280	0.004	0.000	0.002	NS			
EC-06-21	280	285	0.003	0.000	0.000	NS			
EC-06-21	285	290	0.003	0.000	0.000	NS			
EC-06-21	290	295	0.003	0.006	0.000	NS			
EC-06-21	295	300	0.003	0.009	0.000	NS			
EC-06-21	300	305	0.001	0.011	0.000	NS			
EC-06-21	305	310	0.000	0.000	0.000	NS			
EC-06-21	310	315	0.000	0.000	0.000	NS			
EC-06-21	315	320	0.000	0.000	0.000	NS			
EC-06-21	320	325	0.001	0.007	0.000	NS			
EC-06-21	325	330	0.005	0.022	0.001	NS			
EC-06-21	330	335	0.005	0.017	0.000	NS			
EC-06-21	335	340	0.000	0.015	0.000	NS			
EC-06-21	340	345	0.008	0.021	0.002	NS			
EC-06-21	345	350	0.008	0.022	0.002	NS	_		
EC-06-22	0	5	0.040	0.181	0.020	NS			
EC-06-22	5	10	0.032	0.205	0.024	NS			
EC-06-22	10	15	0.042	0.197	0.022	NS			
EC-06-22	15	20	0.022	0.195	0.009	NS			
EC-06-22	20	25	0.026	0.202	0.013	NS			
EC-06-22	25	30	0.016	0.114	0.017	NS			
EC-06-22	30	35	0.018	0.108	0.014	NS			
EC-06-22	35	40	0.013	0.100	0.015	NS			
EC-06-22	40	45	0.014	0.105	0.005	NS			
EC-06-22	45 50	50	0.018	0.117	0.007	NS			
EC-06-22	50	55	0.023	0.115	0.006	NS			
EC-06-22	55	60	0.051	0.303	0.018	NS			
EC-06-22	60	65	0.025	0.182	0.010	NS			
EC-06-22	65 70	70 75	0.020	0.157	0.009	NS			
EC-06-22	70 75	75 20	0.028	0.160	0.012	NS			
EC-06-22	75	80	0.023	0.150	0.007	NS			
EC-06-22	80	85	0.023	0.145	0.006	NS			
EC-06-22	85	90	0.017	0.090	0.004	NS			
EC-06-22	90	95	0.021	0.085	0.003	NS			
EC-06-22	95	100	0.026	0.122	0.005	NS			
EC-06-22	100	105	0.025	0.116	0.005	NS			
EC-06-22	105	110	0.025	0.115	0.004	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-22	110	115	0.022	0.079	0.004	NS		
EC-06-22	115	120	0.017	0.075	0.003	NS		
EC-06-22	120	125	0.018	0.075	0.003	NS		
EC-06-22	125	130	0.018	0.077	0.003	NS		
EC-06-22	130	135	0.009	0.048	0.001	NS		
EC-06-22	135	140	0.011	0.050	0.001	NS		
EC-06-22	140	145	0.028	0.065	0.007	NS		
EC-06-22	145	150	0.017	0.078	0.006	NS		
EC-06-22	150	155	0.018	0.080	0.005	NS		
EC-06-22	155	160	0.013	0.057	0.004	NS		
EC-06-22	160	165	0.011	0.053	0.003	NS		
EC-06-22	165	170	0.019	0.066	0.004	NS		
EC-06-22	170	175	0.016	0.061	0.003	NS		
EC-06-22	175	180	0.042	0.203	0.017	NS		
EC-06-22	180	185	0.030	0.188	0.017	NS		
EC-06-22	185	190	0.007	0.040	0.002	NS		
EC-06-22	190	195	0.007	0.040	0.002	NS		
EC-06-22	195	200	0.009	0.038	0.002	NS NS		
	200	205	0.009	0.039	0.001	NS		
EC-06-22						NS		
EC-06-22	205	210	0.004	0.029	0.001			
EC-06-22	210	215	0.003	0.033	0.000	NS		
EC-06-22	215	220	0.005	0.035	0.001	NS		
EC-06-22	220	225	0.003	0.038	0.001	NS		
EC-06-22	225	230	0.003	0.035	0.001	NS		
EC-06-22	230	235	0.006	0.050	0.001	NS		
EC-06-22	235	240	0.004	0.044	0.001	NS		
EC-06-22	240	245	0.003	0.038	0.000	NS		
EC-06-22	245	250	0.007	0.041	0.000	NS		
EC-06-22	250	255	0.015	0.040	0.004	NS		
EC-06-22	255	260	0.016	0.088	0.004	NS		
EC-06-22	260	265	0.014	0.080	0.003	NS		
EC-06-22	265	270	0.010	0.065	0.002	NS		
EC-06-22	270	275	0.022	0.072	0.003	NS		
EC-06-22	275	280	0.003	0.012	0.000	NS		
EC-06-22	280	285	0.002	0.011	0.000	NS		
EC-06-22	285	290	0.002	0.010	0.000	NS		
EC-06-22	290	295	0.005	0.011	0.000	NS		
EC-06-22	295	300	0.007	0.012	0.000	NS		
EC-06-22	300	305	0.003	0.008	0.000	NS		
EC-06-22	305	310	0.003	0.007	0.000	NS		
EC-06-22	310	315	0.000	0.003	0.000	NS		
EC-06-22	315	320	0.000	0.003	0.000	NS		
EC-06-22	320	325	0.000	0.004	0.000	NS		
EC-06-22	325	330	0.001	0.005	0.000	NS		
EC-06-22	330	335	0.001	0.005	0.000	NS		
EC-06-22	335	340	0.002	0.005	0.000	NS		
EC-06-22	340	345	0.003	0.009	0.000	NS		
EC-06-22	345	350	0.007	0.011	0.002	NS		
EC-06-22	350	355	0.002	0.010	0.000	NS		
EC-06-22	355	360	0.002	0.008	0.000	NS		
EC-06-22	360	365	0.002	0.012	0.002	NS		
EC-06-22	365	370	0.003	0.006	0.002	NS		
EC-06-22	370	375	0.001	0.000	0.000	NS		
EC-06-22	375	380	0.000	0.000	0.000	NS		
						NS		
EC-06-22	380	385	0.002	0.000	0.000	11/2		

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HOLE-ID	FROM 385	TO 390	AU 0.004	AG 0.009	PT 0.000	FE NS	Mag %	re analysis	non-mag %
EC-06-22 EC-06-22	390	390 395	0.004	0.009	0.000	NS NS			
EC-06-22 EC-06-22	390 395	395 400	0.000	0.000	0.000	NS NS			
EC-06-22 EC-06-22	400	405	0.000	0.000	0.000	NS NS			
EC-06-22	405	410	0.001	0.000	0.000	NS			
EC-06-22	410	415	0.001	0.000	0.000	NS			
EC-06-22	415	420	0.005	0.011	0.000	NS			
EC-06-22	420	425	0.003	0.012	0.000	NS			
EC-06-22	425	430	0.002	0.010	0.000	NS			
EC-06-22	430	435	0.002	0.029	0.003	NS			
EC-06-22	435	440	0.010	0.035	0.002	NS			
EC-06-22	440	445	0.007	0.017	0.002	NS			
EC-06-22	445	450	0.004	0.013	0.001	NS			
EC-06-23	0	5	0.015	0.075	0.020	NS			
EC-06-23	5	10	0.018	0.098	0.018	NS			
EC-06-23	10	15	0.077	0.227	0.018	NS			
EC-06-23	15	20	0.043	0.258	0.016	NS			
EC-06-23	20	25	0.012	0.108	0.008	NS			
EC-06-23	25	30	0.010	0.075	0.008	NS			
EC-06-23	30	35	0.008	0.063	0.003	NS			
EC-06-23	35	40	0.006	0.038	0.004	NS			
EC-06-23	40	45	0.008	0.038	0.004	NS			
EC-06-23	45	50	0.009	0.040	0.004	NS			
EC-06-23	50	55	0.012	0.044	0.007	NS			
EC-06-23	55	60	0.015	0.040	0.008	NS			
EC-06-23	60	65	0.015	0.048	0.007	NS			
EC-06-23	65	70	0.016	0.071	0.007	NS			
EC-06-23	70	75	0.010	0.065	0.002	NS			
EC-06-23	75	80	0.021	0.078	0.006	NS			
EC-06-23	80	85	0.019	0.070	0.005	NS			
EC-06-23	85	90	0.018	0.068	0.005	NS			
EC-06-23	90	95	0.015	0.063	0.005	NS			
EC-06-23	95	100	0.012	0.063	0.003	NS			
EC-06-23	100	105	0.030	0.100	0.010	NS			
EC-06-23	105	110	0.024	0.097	0.010	NS			
EC-06-23	110	115	0.022	0.057	0.009	NS			
EC-06-23	115	120	0.015	0.044	0.006	NS			
EC-06-23	120	125	0.006	0.048	0.001	NS			
EC-06-23	125	130	0.004	0.037	0.001	NS			
EC-06-23	130	135	0.004	0.038	0.000	NS			
EC-06-23	135	140	0.006	0.051	0.000	NS			
EC-06-23	140	145	0.019	0.085	0.012	NS			
EC-06-23	145	150	0.020	0.088	0.010	NS			
EC-06-23	150	155	0.025	0.087	0.013	NS			
EC-06-23	155	160	0.014	0.062	0.014	NS			
EC-06-23	160	165	0.012	0.060	0.009	NS			
EC-06-23	165 170	170 175	0.012	0.065	0.006	NS			
EC-06-23 EC-06-23	170 175	175	0.017	0.073	0.006	NS			
	175 180	180 185	0.027	0.115	0.007	NS			
EC-06-23 EC-06-23	180 185	185 190	0.027 0.030	0.117 0.153	0.008 0.011	NS NS			
EC-06-23 EC-06-23	190	190	0.030	0.153	0.011	NS NS			
EC-06-23 EC-06-23	190	200	0.080	0.227	0.028	NS NS			
EC-06-23 EC-06-23	200	200 205	0.031	0.189	0.017	NS NS			
EC-06-23 EC-06-23	205	205 210	0.030	0.169	0.014	NS NS			
⊑ U-U0-23	200	210	0.036	0.202	0.016	INO			

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HOLE-ID	FROM	TO 245	AU 0.019	AG	PT 0.010	FE	Mag %	Fe analysis	non-mag %
EC-06-23	210	215	0.018	0.200	0.010	NS			
EC-06-23	215	220	0.011	0.227	0.005	NS NC			
EC-06-23	220	225	0.009	0.056	0.003	NS			
EC-06-23	225	230	0.012	0.037	0.004	NS NC			
EC-06-23	230	235	0.015	0.034	0.006	NS			
EC-06-23	235	240	0.016	0.040	0.007	NS			
EC-06-23	240	245	0.037	0.077	0.021	NS			
EC-06-23	245	250	0.035	0.082	0.020	NS			
EC-06-23	250	255	0.035	0.078	0.018	NS			
EC-06-23	255	260	0.027	0.066	0.011	NS			
EC-06-23	260	265	0.010	0.054	0.003	NS			
EC-06-23	265	270	0.013	0.058	0.003	NS			
EC-06-23	270	275	0.018	0.067	0.003	NS			
EC-06-23	275	280	0.019	0.069	0.003	NS			
EC-06-23	280	285	0.033	0.207	0.010	NS			
EC-06-23	285	290	0.035	0.332	0.012	NS			
EC-06-23	290	295	0.007	0.037	0.002	NS			
EC-06-23	295	300	0.004	0.028	0.000	NS			
EC-06-23	300	305	0.004	0.024	0.000	NS			
EC-06-23	305	310	0.014	0.027	0.003	NS			
EC-06-23	310	315	0.015	0.030	0.007	NS			
EC-06-23	315	320	0.015	0.031	0.010	NS			
EC-06-23	320	325	0.014	0.028	0.009	NS			
EC-06-23	325	330	0.005	0.025	0.001	NS			
EC-06-23	330	335	0.005	0.025	0.002	NS			
EC-06-23	335	340	0.005	0.025	0.001	NS			
EC-06-23	340	345	0.003	0.019	0.000	NS			
EC-06-23	345	350	0.003	0.023	0.000	NS			
EC-06-23	350	355	0.002	0.021	0.000	NS			
EC-06-23	355	360	0.002	0.030	0.000	NS			
EC-06-23	360	365	0.003	0.030	0.000	NS			
EC-06-23	365	370	0.007	0.055	0.002	NS			
EC-06-23	370	375	0.011	0.062	0.004	NS			
EC-06-23	375	380	0.010	0.066	0.002	NS			
EC-06-23	380	385	0.007	0.039	0.001	NS			
EC-06-23	385	390	0.008	0.041	0.001	NS			
EC-06-23	390	395	0.004	0.044	0.000	NS			
EC-06-23	395	400	0.004	0.029	0.000	NS			
EC-06-24	0	5	0.018	0.095	0.012	NS	_		
EC-06-24	5	10	0.075	0.443	0.023	NS			
EC-06-24	10	15	0.111	0.513	0.030	NS			
EC-06-24	15	20	0.054	0.221	0.018	NS			
EC-06-24	20	25	0.044	0.204	0.017	NS			
EC-06-24	25	30	0.021	0.185	0.017	NS			
EC-06-24	30	35	0.010	0.066	0.010	NS			
EC-06-24	35	40	0.008	0.050	0.006	NS			
EC-06-24	40	45	0.008	0.050	0.006	NS			
EC-06-24	45	50	0.038	0.100	0.011	NS			
EC-06-24	50	55	0.009	0.038	0.003	NS			
EC-06-24	55	60	0.019	0.033	0.005	NS			
EC-06-24	60	65	0.007	0.022	0.003	NS			
EC-06-24	65	70	0.006	0.022	0.001	NS			
EC-06-24	70	75	0.000	0.021	0.001	NS			
EC-06-24	75	80	0.021	0.073	0.010	NS			
EC-06-24	80	85	0.020	0.072	0.000	NS			
EU-00-24	ου	00	0.004	0.021	0.000	INO			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-24	85	90	0.003	0.019	0.000	NS			
EC-06-24	90	95	0.005	0.009	0.000	NS			
EC-06-24	95	100	0.003	0.009	0.000	NS			
EC-06-24	100	105	0.002	0.007	0.000	NS			
EC-06-24	105	110	0.002	0.009	0.001	NS			
EC-06-24	110	115	0.009	0.019	0.001	NS			
EC-06-24	115	120	0.011	0.037	0.003	NS			
EC-06-24	120	125	0.030	0.117	0.015	NS			
EC-06-24	125	130	0.035	0.208	0.016	NS			
EC-06-24	130	135	0.028	0.211	0.012	NS			
EC-06-24	135	140	0.004	0.030	0.000	NS			
EC-06-24	140	145	0.003	0.022	0.000	NS			
EC-06-24	145	150	0.004	0.028	0.002	NS			
EC-06-24	150	155	0.004	0.025	0.002	NS			
EC-06-24	155	160	0.004	0.040	0.001	NS			
EC-06-24	160	165	0.003	0.035	0.001	NS			
EC-06-24	165	170	0.010	0.050	0.004	NS			
EC-06-24	170	175	0.011	0.072	0.004	NS			
EC-06-24	175	180	0.012	0.070	0.005	NS			
EC-06-24	180	185	0.025	0.107	0.011	NS			
EC-06-24	185	190	0.040	0.257	0.017	NS			
EC-06-24	190	195	0.005	0.041	0.002	NS			
EC-06-24	195	200	0.005	0.041	0.002	NS			
EC-06-24	200	205	0.003	0.042	0.004	NS			
EC-06-24	205	210	0.007	0.048	0.003	NS			
EC-06-24	210	215	0.004	0.035	0.001	NS			
EC-06-24	215	220	0.004	0.033	0.002	NS			
EC-06-24	220	225	0.017	0.040	0.001	NS			
EC-06-24	225	230	0.012	0.049	0.005	NS			
EC-06-24	230	235		0.053		NS			
EC-06-24 EC-06-24	235	233 240	0.015 0.019	0.038	0.002 0.007	NS NS			
EC-06-24	240	240 245		0.002		NS			
		2 4 5 250	0.019	0.093	0.011	NS NS			
EC-06-24	245		0.020		0.015				
EC-06-24 EC-06-24	250 255	255 260	0.005	0.033 0.040	0.005	NS NS			
			0.006		0.003	NS			
EC-06-24	260	265	0.006	0.046	0.007	NS			
EC-06-24	265	270	0.006	0.041	0.002	NS			
EC-06-24	270	275	0.003	0.037	0.000	NS			
EC-06-24	275	280	0.003	0.035	0.000	NS			
EC-06-24	280	285	0.002	0.021	0.000	NS			
EC-06-24	285	290	0.002	0.020	0.000	NS			
EC-06-24	290	295	0.004	0.018	0.001	NS			
EC-06-24	295	300	0.001	0.009	0.000	NS			
EC-06-24	300	305	0.000	0.006	0.000	NS			
EC-06-24	305	310	0.000	0.007	0.000	NS			
EC-06-24	310	315	0.000	0.000	0.000	NS			
EC-06-24	315	320	0.002	0.000	0.003	NS			
EC-06-24	320	325	0.002	0.005	0.003	NS			
EC-06-24	325	330	0.001	0.000	0.001	NS			
EC-06-24	330	335	0.001	0.000	0.001	NS			
EC-06-24	335	340	0.001	0.000	0.001	NS			
EC-06-24	340	345	0.001	0.000	0.000	NS			
EC-06-24	345	350	0.001	0.000	0.000	NS			
EC-06-24	350	355	0.004	0.009	0.003	NS			
EC-06-24	355	360	0.002	0.001	0.004	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-24	360	365	0.001	0.001	0.001	NS			
EC-06-24	365	370	0.001	0.001	0.000	NS			
EC-06-24	370	375	0.001	0.005	0.000	NS			
EC-06-24	375	380	0.002	0.007	0.000	NS			
EC-06-24	380	385	0.001	0.005	0.001	NS			
EC-06-24	385	390	0.002	0.010	0.001	NS			
EC-06-24	390	395	0.001	0.000	0.000	NS			
EC-06-24	395	400	0.001	0.000	0.000	NS			
EC-06-25	0	5	0.049	0.188	0.009	NS	•		
EC-06-25	5	10	0.022	0.174	0.007	NS			
EC-06-25	10	15	0.015	0.180	0.005	NS			
EC-06-25	15	20	0.018	0.064	0.006	NS			
EC-06-25	20	25	0.008	0.075	0.003	NS			
EC-06-25	25	30	0.008	0.155	0.003	NS			
EC-06-25	30	35	0.003	0.158	0.001	NS			
EC-06-25	35	40	0.005	0.037	0.001	NS			
EC-06-25	40	45	0.003	0.033	0.001	NS			
EC-06-25	45	50	0.011	0.046	0.003	NS			
EC-06-25	50	55	0.010	0.031	0.002	NS			
EC-06-25	55	60	0.010	0.016	0.002	NS			
EC-06-25	60	65	0.010	0.025	0.002	NS			
EC-06-25	65	70	0.004	0.146	0.001	NS			
EC-06-25	70	75	0.003	0.098	0.000	NS			
EC-06-25	75	80	0.007	0.012	0.002	NS			
EC-06-25	80	85	0.006	0.040	0.001	NS			
EC-06-25	85	90	0.014	0.086	0.004	NS			
EC-06-25	90	95	0.015	0.091	0.004	NS			
EC-06-25	95	100	0.025	0.098	0.006	NS			
EC-06-25	100	105	0.023	0.112	0.007	NS			
EC-06-25	105	110	0.031	0.303	0.012	NS			
EC-06-25	110	115	0.037	0.335	0.015	NS			
EC-06-25	115	120	0.036	0.299	0.015	NS			
EC-06-25	120	125	0.014	0.075	0.009	NS			
EC-06-25	125	130	0.009	0.157	0.004	NS			
EC-06-25	130	135	0.007	0.160	0.004	NS			
EC-06-25	135	140	0.003	0.041	0.001	NS			
EC-06-25	140	145	0.004	0.028	0.002	NS			
EC-06-25	145	150	0.001	0.007	0.000	NS			
EC-06-25	150	155	0.001	0.007	0.000	NS			
EC-06-25	155	160	0.001	0.009	0.000	NS			
EC-06-25	160	165	0.005	0.061	0.002	NS			
EC-06-25	165	170	0.009	0.028	0.002	NS			
EC-06-25	170	175	0.029	0.321	0.009	NS			
EC-06-25	175	180	0.007	0.044	0.003	NS			
EC-06-25	180	185	0.038	0.275	0.015	NS			
EC-06-25	185	190	0.011	0.027	0.007	NS			
EC-06-25	190	195	0.017	0.031	0.005	NS			
EC-06-25	195	200	0.014	0.055	0.004	NS			
EC-06-25	200	205	0.008	0.041	0.002	NS			
EC-06-25	205	210	0.003	0.045	0.002	NS			
EC-06-25	210	215	0.002	0.050	0.000	NS			
EC-06-25	215	220	0.004	0.031	0.001	NS			
EC-06-25	220	225	0.014	0.062	0.003	NS			
EC-06-25	225	230	0.013	0.066	0.002	NS			
EC-06-25	230	235	0.002	0.017	0.000	NS			

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HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-25	235	240	0.002	0.012	0.000	NS			
EC-06-25	240	245	0.002	0.007	0.000	NS			
EC-06-25	245	250	0.003	0.019	0.000	NS			
EC-06-25	250	255	0.017	0.073	0.011	NS			
EC-06-25	255	260	0.021	0.090	0.013	NS			
EC-06-25	260	265	0.027	0.123	0.013	NS			
EC-06-25	265	270	0.022	0.145	0.012	NS			
EC-06-25	270	275	0.002	0.038	0.000	NS			
EC-06-25	275	280	0.002	0.034	0.000	NS			
EC-06-25	280	285	0.004	0.037	0.000	NS			
EC-06-25	285	290	0.006	0.040	0.002	NS			
EC-06-25	290	295	0.061	1.112	0.025	NS			
EC-06-25	295	300	0.066	1.676	0.028	NS			
EC-06-25	300	305	0.021	0.895	0.014	NS			
EC-06-25	305	310	0.002	0.018	0.000	NS			
EC-06-25	310	315	0.000	0.012	0.000	NS			
EC-06-25	315	320	0.000	0.009	0.000	NS			
EC-06-25	320	325	0.004	0.017	0.000	NS			
EC-06-25	325	330	0.006	0.022	0.001	NS			
EC-06-25	330	335	0.007	0.031	0.002	NS			
EC-06-25	335	340	0.007	0.030	0.002	NS			
EC-06-25	340	345	0.010	0.044	0.002	NS			
EC-06-25	345	350	0.012	0.060	0.004	NS			
EC-06-25	350	355	0.003	0.017	0.001	NS			
EC-06-25	355	360	0.009	0.020	0.003	NS			
EC-06-25	360	365	0.008	0.020	0.002	NS			
EC-06-25	365	370	0.014	0.055	0.010	NS			
EC-06-25	370	375	0.014	0.067	0.017	NS			
EC-06-25	375	380	0.005	0.066	0.009	NS			
EC-06-25	380	385	0.004	0.038	0.002	NS			
EC-06-25	385	390	0.006	0.050	0.001	NS			
EC-06-25	390	395	0.004	0.012	0.000	NS			
EC-06-25	395	400	0.009	0.018	0.003	NS			
EC-06-25	400	405	0.003	0.015	0.001	NS			
EC-06-25	405	410	0.005	0.041	0.002	NS			
EC-06-25	410	415	NS	NS	NS	NS			
EC-06-25	415	420	0.007	0.055	0.002	NS			
EC-06-25	420	425	0.006	0.074	0.003	NS			
EC-06-25	425	430	0.006	0.077	0.002	NS			
EC-06-25	430	435	0.008	0.024	0.005	NS			
EC-06-25	435	440	0.000	0.000	0.002	NS			
EC-06-25	440	445	0.000	0.000	0.000	NS			
EC-06-25	445	450	0.001	0.000	0.000	NS			
EC-06-25	450	455	0.008	0.042	0.000	NS			
EC-06-25	455	460	0.013	0.050	0.002	NS			
EC-06-25	460	465	0.008	0.019	0.001	NS			
EC-06-25	465	470	0.007	0.020	0.002	NS			
EC-06-25	470	475	0.062	1.818	0.013	NS			
EC-06-25	475	480	0.002	0.047	0.002	NS			
EC-06-25	480	485	0.007	0.051	0.002	NS			
EC-06-25	485	490	0.007	0.063	0.002	NS			
EC-06-25	490	495	0.008	0.003	0.003	NS			
EC-06-25	495	500	0.014	0.095	0.003	NS			
EC-06-26	0	5	0.021	0.044	0.003	NS	-		
EC-06-26	5	10	0.011	0.051	0.010	NS			
LO-00-20	3	10	0.011	0.001	0.010	140			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-26	10	15	0.073	0.093	0.030	NS	_	
EC-06-26	15	20	0.055	0.117	0.027	NS		
EC-06-26	20	25	0.053	0.125	0.019	NS		
EC-06-26	25	30	0.046	0.116	0.014	NS		
EC-06-26	30	35	0.009	0.036	0.003	NS		
EC-06-26	35	40	0.004	0.030	0.001	NS		
EC-06-26	40	45	0.010	0.062	0.002	NS		
EC-06-26	45	50	0.037	0.068	0.014	NS		
EC-06-26	50	55	0.029	0.075	0.013	NS		
EC-06-26	55	60	0.031	0.078	0.013	NS		
EC-06-26	60	65	0.006	0.075	0.002	NS		
EC-06-26	65	70	0.007	0.082	0.002	NS		
EC-06-26	70	75	0.011	0.088	0.003	NS		
EC-06-26	75	80	0.033	0.211	0.013	NS		
EC-06-26	80	85	0.004	0.009	0.001	NS		
EC-06-26	85	90	0.004	0.009	0.001	NS		
EC-06-26	90	95	0.005	0.003	0.002	NS		
EC-06-26	95	100	0.003	0.010	0.002	NS		
EC-06-26	100	105	0.009	0.021	0.002	NS		
						NS		
EC-06-26	105	110	0.045	0.422	0.010			
EC-06-26	110	115	0.028	0.178	0.008	NS		
EC-06-26	115	120	0.018	0.095	0.006	NS		
EC-06-26	120	125	0.016	0.099	0.005	NS		
EC-06-26	125	130	0.009	0.016	0.004	NS		
EC-06-26	130	135	0.004	0.016	0.001	NS		
EC-06-26	135	140	0.022	0.067	0.006	NS		
EC-06-26	140	145	0.028	0.077	0.008	NS		
EC-06-26	145	150	0.015	0.057	0.004	NS		
EC-06-26	150	155	0.018	0.061	0.005	NS		
EC-06-26	155	160	0.006	0.014	0.002	NS		
EC-06-26	160	165	0.007	0.018	0.002	NS		
EC-06-26	165	170	0.007	0.016	0.002	NS		
EC-06-26	170	175	0.004	0.012	0.000	NS		
EC-06-26	175	180	0.061	0.198	0.021	NS		
EC-06-26	180	185	0.044	0.164	0.022	NS		
EC-06-26	185	190	0.015	0.096	0.008	NS		
EC-06-26	190	195	0.042	0.312	0.018	NS		
EC-06-26	195	200	0.008	0.013	0.002	NS		
EC-06-26	200	205	0.002	0.006	0.000	NS		
EC-06-26	205	210	0.004	0.012	0.000	NS		
EC-06-26	210	215	0.003	0.007	0.000	NS		
EC-06-26	215	220	0.003	0.006	0.000	NS		
EC-06-26	220	225	0.002	0.006	0.000	NS		
EC-06-26	225	230	0.002	0.004	0.000	NS		
EC-06-26	230	235	0.006	0.016	0.001	NS		
EC-06-26	235	240	0.001	0.000	0.000	NS		
EC-06-26	240	245	0.000	0.000	0.000	NS		
EC-06-26	245	250	0.000	0.000	0.000	NS		
EC-06-26	250	255	0.001	0.000	0.000	NS		
EC-06-26	255	260	0.000	0.000	0.000	NS		
EC-06-26	260	265	0.002	0.007	0.000	NS		
EC-06-26	265	270	0.002	0.007	0.000	NS		
EC-06-26	270	275	0.003	0.009	0.000	NS		
EC-06-26	275	280	0.021	0.037	0.014	NS		
						NS		
EC-06-26	280	285	0.022	0.424	0.020	11/2		

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-26	285	290	0.008	0.022	0.008	NS		. o anaiyois	
EC-06-26	290	295	0.006	0.019	0.008	NS			
EC-06-26	295	300	0.006	0.013	0.002	NS			
EC-06-26	300	305	0.002	0.009	0.002	NS			
EC-06-26	305	310	0.002	0.009	0.001	NS			
EC-06-26	310	315	0.011	0.032	0.003	NS			
EC-06-26	315	320	0.013	0.036	0.003	NS NS			
	320	320 325	0.007	0.018	0.001	NS NS			
EC-06-26						NS NS			
EC-06-26	325	330 335	0.006	0.020	0.000	NS NS			
EC-06-26	330		0.002	0.006	0.000				
EC-06-26	335	340	0.001	0.007	0.000	NS NS			
EC-06-26	340	345	0.000	0.003	0.000	NS			
EC-06-26	345	350	0.023	0.088	0.000	NS			
EC-06-26	350	355	0.004	0.014	0.000	NS			
EC-06-26	355	360	0.002	0.005	0.000	NS	-		
EC-06-27	0	5	0.019	0.098	0.013	NS			
EC-06-27	5	10	0.021	0.075	0.012	NS			
EC-06-27	10	15	0.034	0.078	0.016	NS			
EC-06-27	15	20	0.037	0.100	0.017	NS			
EC-06-27	20	25	0.016	0.067	0.009	NS			
EC-06-27	25	30	0.015	0.066	0.007	NS			
EC-06-27	30	35	0.016	0.066	0.007	NS			
EC-06-27	35	40	0.009	0.031	0.003	NS			
EC-06-27	40	45	0.022	0.102	0.006	NS			
EC-06-27	45	50	0.022	0.094	0.005	NS			
EC-06-27	50	55	0.012	0.062	0.006	NS			
EC-06-27	55	60	0.006	0.044	0.002	NS			
EC-06-27	60	65	0.009	0.061	0.002	NS			
EC-06-27	65	70	0.004	0.018	0.005	NS			
EC-06-27	70	75	0.005	0.022	0.005	NS			
EC-06-27	75	80	0.004	0.025	0.006	NS			
EC-06-27	80	85	0.003	0.031	0.004	NS			
EC-06-27	85	90	0.001	0.009	0.004	NS			
EC-06-27	90	95	0.000	0.003	0.000	NS			
EC-06-27	95	100	0.000	0.000	0.000	NS			
EC-06-27	100	105	0.000	0.000	0.001	NS			
EC-06-27	105	110	0.005	0.018	0.007	NS			
EC-06-27	110	115	0.003	0.000	0.002	NS			
EC-06-27	115	120	0.006	0.013	0.002	NS			
EC-06-27	120	125	0.005	0.023	0.003	NS			
EC-06-27	125	130	0.008	0.029	0.004	NS			
EC-06-27	130	135	0.007	0.040	0.001	NS			
EC-06-27	135	140	0.008	0.041	0.004	NS			
EC-06-27	140	145	0.003	0.037	0.000	NS			
EC-06-27	145	150	0.008	0.038	0.001	NS			
EC-06-27	150	155	0.014	0.082	0.001	NS			
EC-06-27	155	160	0.016	0.046	0.002	NS			
EC-06-27	160	165	0.016	0.055	0.003	NS			
EC-06-27	165	170	0.017	0.061	0.003	NS			
EC-06-27	170	175	0.004	0.009	0.001	NS			
EC-06-27	175	180	0.004	0.020	0.000	NS			
EC-06-27	180	185	0.005	0.020	0.000	NS			
EC-06-27	185	190	0.018	0.097	0.003	NS			
EC-06-27	190	195	0.021	0.103	0.004	NS			
EC-06-27	195	200	0.007	0.030	0.003	NS			
_0 00 21	. 55	200	0.007	0.000	0.000	. 10			

HOLE-ID	FROM	TO	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-27	200	205	0.007	0.029	0.003	NS			
EC-06-27	205	210	0.006	0.029	0.001	NS			
EC-06-27	210	215	0.002	0.008	0.000	NS			
EC-06-27	215	220	0.002	0.010	0.000	NS			
EC-06-27	220	225	0.007	0.021	0.001	NS			
EC-06-27	225	230	0.003	0.012	0.000	NS			
EC-06-27	230	235	0.002	0.014	0.000	NS			
EC-06-27	235	240	0.002	0.003	0.000	NS			
EC-06-27	240	245	0.003	0.009	0.000	NS			
EC-06-27	245	250	0.007	0.033	0.002	NS			
EC-06-27	250	255	0.007	0.032	0.002	NS			
EC-06-27	255	260	0.009	0.034	0.002	NS			
EC-06-27	260	265	0.012	0.040	0.003	NS			
EC-06-27	265	270	0.006	0.015	0.001	NS	_		
EC-06-28	0	5	0.024	0.155	0.011	NS	-		
EC-06-28	5	10	0.027	0.160	0.015	NS			
EC-06-28	10	15	0.030	0.199	0.013	NS			
EC-06-28	15	20	0.011	0.087	0.006	NS			
EC-06-28	20	25	0.018	0.115	0.008	NS			
EC-06-28	25	30	0.010	0.121	0.003	NS			
EC-06-28	30	35	0.007	0.065	0.002	NS			
EC-06-28	35	40	0.009	0.087	0.002	NS			
EC-06-28	40	45	0.010	0.088	0.003	NS			
EC-06-28	45	50	0.009	0.078	0.002	NS			
EC-06-28	50	55	0.008	0.048	0.002	NS			
EC-06-28	55	60	0.008	0.039	0.002	NS			
EC-06-28	60	65	0.006	0.044	0.002	NS			
EC-06-28	65	70	0.019	0.061	0.003	NS			
EC-06-28	70	75	0.020	0.066	0.003	NS			
EC-06-28	75	80	0.006	0.054	0.001	NS			
EC-06-28	80	85	0.020	0.056	0.004	NS			
EC-06-28	85	90	0.023	0.112	0.014	NS			
EC-06-28	90	95	0.005	0.067	0.012	NS			
EC-06-28	95	100	0.014	0.088	0.010	NS			
EC-06-28	100	105	0.012	0.114	0.007	NS			
EC-06-28	105	110	0.012	0.112	0.007	NS			
EC-06-28	110	115	0.011	0.054	0.006	NS			
EC-06-28	115	120	0.008	0.060	0.002	NS			
EC-06-28	120	125	0.013	0.078	0.002	NS			
EC-06-28	125	130	0.006	0.045	0.002	NS			
EC-06-28	130	135	0.004	0.036	0.000	NS			
EC-06-28	135	140	0.004	0.030	0.002	NS			
EC-06-28	140	145	0.011	0.052	0.002	NS			
EC-06-28	145	150	0.016	0.052	0.003	NS			
EC-06-28	150	155	0.005	0.050	0.002	NS			
EC-06-28	155	160	0.003	0.030	0.002	NS			
EC-06-28	160	165	0.007	0.032	0.002	NS			
	165	170	0.006			NS NS			
EC-06-28				0.023	0.002	NS NS			
EC-06-28	170 175	175 180	0.020	0.051	0.016				
EC-06-28	175	180	0.021	0.055	0.016	NS			
EC-06-28	180	185	0.017	0.054	0.013	NS			
EC-06-28	185	190	0.012	0.058	0.010	NS			
EC-06-28	190	195	0.019	0.057	0.016	NS			
EC-06-28	195	200	0.021	0.154	0.017	NS			
EC-06-28	200	205	0.023	0.148	0.017	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-28	205	210	0.027	0.211	0.030	NS NS	itiay /0	i e anaiyaia	non-may /
EC-06-28	210	215	0.027	0.009	0.000	NS			
EC-06-28	215	220	0.004	0.003	0.000	NS			
EC-06-28	220	225	0.003	0.012	0.000	NS			
EC-06-28	225	230	0.003	0.008	0.000	NS			
EC-06-28	230	235	0.007	0.000	0.001	NS			
EC-06-28	235	240	0.000	0.017	0.002	NS			
	240	240 245	0.012	0.012	0.002	NS			
EC-06-28	240 245	2 4 3 250	0.002	0.010	0.000	NS NS			
EC-06-28	2 4 5 250	255 255	0.002	0.008	0.000	NS NS			
EC-06-28						NS NS			
EC-06-28	255	260	0.006	0.013	0.002	NS NS			
EC-06-28	260	265	0.004	0.017	0.001				
EC-06-28	265	270 275	0.021	0.075	0.010	NS			
EC-06-28	270	275	0.022	0.077	0.010	NS			
EC-06-28	275	280	0.021	0.065	0.011	NS			
EC-06-28	280	285	0.027	0.068	0.012	NS			
EC-06-28	285	290	0.027	0.077	0.011	NS			
EC-06-28	290	295	0.025	0.082	0.012	NS			
EC-06-28	295	300	0.024	0.073	0.009	NS	-		
EC-06-29	0	5	0.031	0.220	0.014	NS			
EC-06-29	5	10	0.030	0.208	0.014	NS			
EC-06-29	10	15	0.033	0.185	0.021	NS			
EC-06-29	15	20	0.025	0.166	0.018	NS			
EC-06-29	20	25	0.015	0.041	0.011	NS			
EC-06-29	25	30	0.016	0.043	0.009	NS			
EC-06-29	30	35	0.013	0.039	0.019	NS			
EC-06-29	35	40	0.007	0.023	0.005	NS			
EC-06-29	40	45	0.007	0.021	0.003	NS			
EC-06-29	45	50	0.008	0.028	0.002	NS			
EC-06-29	50	55	0.022	0.102	0.016	NS			
EC-06-29	55	60	0.016	0.088	0.012	NS			
EC-06-29	60	65	0.004	0.054	0.000	NS			
EC-06-29	65	70	0.028	0.157	0.013	NS			
EC-06-29	70	75	0.034	0.217	0.016	NS			
EC-06-29	75	80	0.021	0.212	0.009	NS			
EC-06-29	80	85	0.008	0.084	0.002	NS			
EC-06-29	85	90	0.014	0.054	0.003	NS			
EC-06-29	90	95	0.005	0.038	0.001	NS			
EC-06-29	95	100	0.004	0.033	0.001	NS			
EC-06-29	100	105	0.006	0.030	0.002	NS			
EC-06-29	105	110	0.017	0.040	0.004	NS			
EC-06-29	110	115	0.003	0.016	0.001	NS			
EC-06-29	115	120	0.007	0.021	0.002	NS			
EC-06-29	120	125	0.020	0.082	0.006	NS			
EC-06-29	125	130	0.004	0.021	0.001	NS			
EC-06-29	130	135	0.005	0.055	0.001	NS			
EC-06-29	135	140	0.006	0.050	0.002	NS			
EC-06-29	140	145	0.004	0.031	0.000	NS			
EC-06-29	145	150	0.008	0.028	0.001	NS			
EC-06-29	150	155	0.019	0.061	0.007	NS			
EC-06-29	155	160	0.017	0.066	0.006	NS			
EC-06-29	160	165	0.024	0.115	0.007	NS			
EC-06-29	165	170	0.022	0.118	0.008	NS			
EC-06-29	170	175	0.018	0.107	0.004	NS			
EC-06-29	175	180	0.035	0.278	0.018	NS			

HOLE-ID	FROM	ТО	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-29	180	185	0.028	0.255	0.013	NS			
EC-06-29	185	190	0.009	0.031	0.004	NS			
EC-06-29	190	195	0.010	0.058	0.002	NS			
EC-06-29	195	200	0.012	0.051	0.002	NS			
EC-06-29	200	205	0.007	0.045	0.002	NS			
EC-06-29	205	210	0.003	0.043	0.000	NS			
EC-06-29	210	215	0.007	0.040	0.000	NS			
EC-06-29	215	220	0.008	0.037	0.004	NS			
EC-06-29	220	225	0.009	0.040	0.007	NS			
EC-06-29	225	230	0.009	0.048	0.006	NS			
EC-06-29	230	235	0.006	0.032	0.005	NS			
EC-06-29	235	240	0.007	0.037	0.005	NS			
EC-06-29	240	245	0.002	0.018	0.000	NS			
EC-06-29	245	250	0.002	0.013	0.000	NS			
EC-06-29	250	255	0.005	0.022	0.001	NS			
EC-06-29	255	260	0.005	0.018	0.001	NS			
EC-06-29	260	265	0.017	0.019	0.003	NS			
EC-06-29	265	270	0.004	0.014	0.003	NS			
EC-06-29	270	275	0.008	0.020	0.003	NS			
EC-06-29	275	280	0.011	0.029	0.003	NS			
EC-06-29	280	285	0.030	0.294	0.011	NS			
EC-06-29	285	290	0.006	0.051	0.004	NS			
EC-06-29	290	295	0.003	0.017	0.001	NS			
EC-06-29	295	300	0.000	0.012	0.000	NS			
EC-06-29	300	305	0.000	0.018	0.000	NS			
EC-06-29	305	310	0.000	0.009	0.000	NS			
EC-06-29	310	315	0.000	0.009	0.000	NS			
EC-06-29	315	320	0.000	0.013	0.000	NS			
EC-06-29	320	325	0.005	0.021	0.002	NS			
EC-06-29	325	330	0.003	0.009	0.002	NS			
EC-06-29	330	335	0.001	0.007	0.000	NS			
EC-06-29	335	340	0.002	0.009	0.000	NS			
EC-06-29	340	345	0.001	0.005	0.000	NS			
EC-06-29	345	350	0.005	0.006	0.003	NS			
EC-06-29	350	355	0.003	0.013	0.001	NS			
EC-06-29	355	360	0.004	0.014	0.002	NS			
EC-06-29	360	365	0.004	0.014	0.002	NS			
EC-06-29	365	370	0.004	0.031	0.002	NS			
EC-06-29	370	375	0.012	0.031	0.005	NS			
EC-06-29	375	380	0.012	0.034	0.003	NS			
EC-06-29	380	385	0.003	0.022	0.002	NS			
EC-06-29	385	390	0.005	0.010	0.003	NS			
EC-06-29	390	395	0.003	0.009	0.002	NS			
EC-06-29	395	400	0.001	0.003	0.000	NS			
EC-06-29	400	405	0.002	0.013	0.000	NS			
EC-06-29	405	410	0.002	0.012	0.000	NS			
EC-06-29	410	415	0.001	0.007	0.000	NS			
EC-06-29	415	420	0.003	0.014	0.002	NS			
		5				NS	-		
EC-06-30	0 5		0.029	0.121	0.014	NS NS			
EC-06-30		10 15	0.020	0.104	0.010	NS NS			
EC-06-30	10 15	15 20	0.049	0.188	0.017				
EC-06-30	15	20 25	0.055	0.227	0.021	NS			
EC-06-30	20	25	0.018	0.105	0.009	NS			
EC-06-30	25	30	0.015	0.086	0.007	NS			
EC-06-30	30	35	0.011	0.068	0.004	NS			

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HOLE-ID	FROM	ТО	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-30	35	40	0.013	0.070	0.003	NS			
EC-06-30	40	45	0.038	0.198	0.018	NS			
EC-06-30	45	50	0.033	0.221	0.014	NS			
EC-06-30	50	55	0.037	0.201	0.009	NS			
EC-06-30	55	60	0.059	0.313	0.012	NS			
EC-06-30	60	65	0.048	0.288	0.012	NS			
EC-06-30	65	70	0.064	0.295	0.018	NS			
EC-06-30	70	75	0.037	0.254	0.009	NS			
EC-06-30	75	80	0.017	0.095	0.007	NS			
EC-06-30	80	85	0.012	0.089	0.012	NS			
EC-06-30	85	90	0.011	0.089	0.008	NS			
EC-06-30	90	95	0.014	0.100	0.037	NS			
EC-06-30	95	100	0.052	0.317	0.022	NS			
EC-06-30	100	105	0.055	0.266	0.024	NS			
EC-06-30	105	110	0.009	0.000	0.004	NS			
EC-06-30	110	115	0.010	0.000	0.004	NS			
EC-06-30	115	120	0.035	0.115	0.012	NS			
EC-06-30	120	125	0.033	0.102	0.011	NS			
EC-06-30	125	130	0.041	0.232	0.013	NS			
EC-06-30	130	135	0.007	0.051	0.001	NS			
EC-06-30	135	140	0.021	0.094	0.001	NS			
EC-06-30	140	145	0.018	0.098	0.001	NS			
EC-06-30	145	150	0.030	0.225	0.010	NS			
EC-06-30	150	155	0.059	0.274	0.014	NS			
EC-06-30	155	160	0.051	0.308	0.014	NS			
EC-06-30	160	165	0.070	0.268	0.017	NS			
EC-06-30	165	170	0.046	0.300	0.015	NS			
EC-06-30	170	175	0.055	0.285	0.016	NS			
EC-06-30	175	180	0.024	0.148	0.004	NS			
EC-06-30	180	185	0.009	0.000	0.001	NS			
EC-06-30	185	190	0.030	0.177	0.003	NS			
EC-06-30	190	195	0.047	0.185	0.011	NS			
EC-06-30	195	200	0.052	0.182	0.012	NS			
EC-06-30	200	205	0.037	0.097	0.006	NS			
EC-06-30	205	210	0.029	0.075	0.006	NS			
EC-06-30	210	215	0.007	0.000	0.001	NS			
EC-06-30	215	220	0.015	0.000	0.001	NS			
EC-06-30	220	225	0.012	0.000	0.001	NS			
EC-06-30	225	230	0.013	0.043	0.003	NS			
EC-06-30	230	235	0.004	0.000	0.001	NS			
EC-06-30	235	240	0.003	0.000	0.001	NS			
EC-06-30	240	245	0.002	0.000	0.001	NS			
EC-06-30	245	250	0.005	0.000	0.001	NS			
EC-06-30	250	255	0.003	0.011	0.001	NS			
EC-06-30	255	260	0.021	0.048	0.006	NS			
EC-06-30	260	265	0.029	0.097	0.003	NS			
EC-06-30	265	270	0.025	0.096	0.007	NS			
EC-06-30	270	275	0.030	0.111	0.004	NS			
EC-06-30	275	280	0.024	0.094	0.004	NS			
EC-06-30	280	285	0.020	0.090	0.002	NS			
EC-06-30	285	290	0.017	0.092	0.002	NS			
EC-06-30	290	295	0.019	0.079	0.004	NS			
EC-06-30	295	300	0.010	0.063	0.002	NS			
EC-06-30	300	305	0.006	0.000	0.001	NS			
EC-06-30	305	310	0.004	0.000	0.001	NS			

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HOLE-ID	FROM	TO	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-30	310	315	0.006	0.017	0.002	NS			
EC-06-30	315	320	0.008	0.014	0.003	NS			
EC-06-30	320	325	0.006	0.019	0.002	NS			
EC-06-30	325	330	0.006	0.020	0.000	NS			
EC-06-30	330	335	0.004	0.018	0.000	NS			
EC-06-30	335	340	0.005	0.044	0.001	NS			
EC-06-30	340	345	0.005	0.026	0.000	NS			
EC-06-30	345	350	0.006	0.030	0.002	NS			
EC-06-30	350	355	0.008	0.037	0.001	NS			
EC-06-30	355	360	0.008	0.038	0.002	NS			
EC-06-30	360	365	0.009	0.038	0.002	NS			
EC-06-30	365	370	0.002	0.000	0.000	NS			
EC-06-30	370	375	0.002	0.000	0.000	NS			
EC-06-30	375	380	0.028	0.088	0.007	NS			
EC-06-30	380	385	0.024	0.069	0.004	NS			
EC-06-30	385	390	0.009	0.027	0.003	NS			
EC-06-30	390	395	0.012	0.035	0.003	NS			
EC-06-30	395	400	0.010	0.037	0.003	NS			
EC-06-30	400	405	0.009	0.035	0.003	NS			
EC-06-30	405	410	0.018	0.115	0.005	NS			
EC-06-30	410	415	0.021	0.176	0.006	NS			
EC-06-30	415	420	0.007	0.078	0.002	NS			
EC-06-30	420	425	0.013	0.082	0.007	NS			
EC-06-30	425	430	0.006	0.046	0.002	NS			
EC-06-30	430	435	0.004	0.031	0.002	NS			
EC-06-30	435	440	0.005	0.033	0.000	NS			
EC-06-30	440	445	0.005	0.038	0.000	NS			
EC-06-30	445	450	0.003	0.027	0.001	NS			
EC-06-30	450	455	0.009	0.027	0.002	NS			
EC-06-30	455	460	0.009	0.040	0.002	NS			
EC-06-30	460	465	0.003	0.100	0.004	NS			
EC-06-30	465	470	0.004	0.000	0.002	NS			
EC-06-30	470	475	0.004	0.106	0.004	NS			
EC-06-30	475	480	0.023	0.000	0.004	NS			
EC-06-30	480	485	0.000	0.000	0.000	NS			
EC-06-30	485	490	0.021	0.000	0.003	NS			
EC-06-30	490	495	0.006	0.000	0.001	NS			
EC-06-30	495	500	0.000	0.061	0.001	NS			
EC-06-30	500	505	0.004	0.001	0.003	NS			
EC-06-30	505	505 510	0.004	0.026	0.001	NS NS			
EC-06-30 EC-06-30	505 510	510 515	0.007	0.025	0.004	NS NS			
EC-06-30 EC-06-30	510 515	515 520	0.008	0.030	0.004	NS NS			
EC-06-30 EC-06-30	515 520	520 525	0.007	0.032	0.001	NS NS			
	520 525		0.005	0.030	0.001	NS NS			
EC-06-30		530 535							
EC-06-30	530 535	535 540	0.031	0.072	0.011	NS NS			
EC-06-30	535 540	540 545	0.008	0.041	0.002	NS NS			
EC-06-30	540 545	545 550	0.012	0.044	0.002	NS NS			
EC-06-30	545 550	550	0.013	0.036	0.003	NS			
EC-06-30	550 555	555 560	0.008	0.021	0.001	NS			
EC-06-30	555	560	0.006	0.000	0.000	NS			
EC-06-30	560	565	0.007	0.018	0.002	NS			
EC-06-30	565	570	0.007	0.020	0.002	NS			
EC-06-30	570	575	0.002	0.000	0.000	NS			
EC-06-30	575	580	0.004	0.000	0.000	NS			
EC-06-30	580	585	0.005	0.000	0.000	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-30	585	590	0.005	0.000	0.001	NS	_	
EC-06-30	590	595	0.005	0.000	0.000	NS		
EC-06-30	595	600	0.008	0.026	0.001	NS		
EC-06-31	0	5	0.029	0.899	0.015	NS	_	
EC-06-31	5	10	0.031	0.691	0.017	NS		
EC-06-31	10	15	0.360	0.118	0.017	NS		
EC-06-31	15	20	0.130	2.082	0.019	NS		
EC-06-31	20	25	0.007	0.604	0.015	NS		
EC-06-31	25	30	0.014	0.322	0.017	NS		
EC-06-31	30	35	0.031	0.065	0.015	NS		
EC-06-31	35	40	0.015	0.389	0.022	NS		
EC-06-31	40	45	0.010	0.017	0.020	NS		
EC-06-31	45	50	0.010	0.267	0.016	NS		
EC-06-31	50	55	0.013	0.127	0.015	NS		
EC-06-31	55	60	0.021	0.000	0.015	NS		
EC-06-31	60	65	0.012	0.546	0.017	NS		
EC-06-31	65	70	0.009	0.180	0.017	NS		
EC-06-31	70	75	0.009	0.180	0.021	NS		
EC-06-31	75	80	0.010	0.275	0.015	NS		
		85				NS		
EC-06-31	80 85		0.012	0.000	0.017			
EC-06-31	85	90	0.018	0.007	0.016	NS		
EC-06-31	90	95	0.044	0.100	0.016	NS		
EC-06-31	95	100	0.021	0.000	0.016	NS		
EC-06-31	100	105	0.019	0.071	0.016	NS		
EC-06-31	105	110	0.018	0.091	0.004	NS		
EC-06-31	110	115	0.022	0.015	0.016	NS		
EC-06-31	115	120	0.043	0.000	0.017	NS		
EC-06-31	120	125	0.010	0.255	0.004	NS		
EC-06-31	125	130	0.019	0.090	0.004	NS		
EC-06-31	130	135	0.151	0.313	0.015	NS		
EC-06-31	135	140	0.025	0.121	0.016	NS		
EC-06-31	140	145	0.005	0.123	0.016	NS		
EC-06-31	145	150	0.015	0.119	0.003	NS		
EC-06-31	150	155	0.011	0.140	0.004	NS		
EC-06-31	155	160	0.014	0.000	0.025	NS		
EC-06-31	160	165	0.006	0.253	0.004	NS		
EC-06-31	165	170	0.011	0.038	0.004	NS		
EC-06-31	170	175	0.010	0.101	0.002	NS		
EC-06-31	175	180	0.022	0.100	0.016	NS		
EC-06-31	180	185	0.012	0.312	0.017	NS		
EC-06-31	185	190	0.009	0.027	0.016	NS		
EC-06-31	190	195	0.008	0.120	0.015	NS		
EC-06-31	195	200	0.017	0.345	0.015	NS		
EC-06-31	200	205	0.007	0.253	0.015	NS		
EC-06-31	205	210	0.015	0.160	0.017	NS		
EC-06-31	210	215	0.009	0.242	0.017	NS		
EC-06-31	215	220	0.008	0.231	0.017	NS		
EC-06-31	220	225	0.008	0.143	0.016	NS		
EC-06-31	225	230	0.010	0.000	0.016	NS		
EC-06-31	230	235	0.005	0.223	0.017	NS		
EC-06-31	235	240	0.000	0.089	0.018	NS		
EC-06-31	240	245	0.021	0.000	0.018	NS		
EC-06-31	245	250	0.014	0.082	0.017	NS		
EC-06-31	2 4 5 250	255 255	0.014	0.062	0.017	NS NS		
						NS		
EC-06-31	255	260	0.062	0.232	0.018	11/2		

HOLE-ID	FROM	TO	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-31	260	265	0.041	0.091	0.018	NS			
EC-06-31	265	270	0.001	0.185	0.017	NS			
EC-06-31	270	275	0.055	0.845	0.017	NS			
EC-06-31	275	280	0.047	0.065	0.015	NS			
EC-06-31	280	285	0.041	0.447	0.016	NS			
EC-06-31	285	290	0.027	0.021	0.018	NS			
EC-06-31	290	295	0.035	0.166	0.003	NS			
EC-06-31	295	300	0.029	0.217	0.017	NS			
EC-06-31	300	305	0.020	0.242	0.001	NS			
EC-06-31	305	310	0.013	0.000	0.016	NS			
EC-06-31	310	315	0.010	0.130	0.015	NS			
EC-06-31	315	320	0.004	0.088	0.004	NS			
EC-06-31	320	325	0.003	0.000	0.015	NS			
EC-06-31	325	330	0.013	0.000	0.004	NS			
EC-06-31	330	335	0.004	0.000	0.046	NS			
EC-06-31	335	340	0.000	0.000	0.017	NS			
EC-06-31	340	345	0.014	0.000	0.020	NS			
EC-06-31	345	350	0.007	0.194	0.001	NS			
EC-06-31	350	355	0.006	0.049	0.016	NS			
EC-06-31	355	360	0.004	0.028	0.004	NS			
EC-06-31	360	365	0.020	0.195	0.001	NS			
EC-06-31	365	370	0.012	0.483	0.003	NS			
EC-06-31	370	375	0.021	0.488	0.001	NS			
EC-06-31	375	380	0.010	0.595	0.001	NS			
EC-06-31	380	385	0.004	1.327	0.001	NS			
EC-06-31	385	390	0.009	0.256	0.004	NS			
EC-06-31	390	395	0.008	0.229	0.003	NS			
EC-06-31	395	400	0.016	0.270	0.002	NS			
EC-06-31	400	405	0.005	0.054	0.015	NS			
EC-06-31	405	410	0.008	0.095	0.003	NS			
EC-06-31	410	415	0.005	0.000	0.015	NS			
EC-06-31	415	420	0.007	0.124	0.001	NS			
EC-06-31	420	425	0.010	0.516	0.002	NS			
EC-06-31	425	430	0.010	1.085	0.002	NS			
EC-06-31	430	435	0.005	0.354	0.001	NS			
EC-06-31	435	440	0.007	0.296	0.003	NS			
EC-06-31	440	445	0.003	0.370	0.004	NS			
EC-06-31	445	450	0.008	0.173	0.004	NS			
EC-06-31	450	455	0.004	0.730	0.004	NS			
EC-06-31	455	460	0.007	0.225	0.015	NS			
EC-06-31	460	465	0.004	0.915	0.012	NS			
EC-06-31	465	470	0.007	0.108	0.000	NS			
EC-06-31	470	475	0.004	0.012	0.000	NS			
EC-06-31	475	480	0.005	0.114	0.000	NS			
EC-06-31	480	485	0.008	0.900	0.004	NS			
EC-06-31	485	490	0.005	0.000	0.004	NS			
EC-06-31	490	495	0.005	0.369	0.015	NS			
EC-06-31	495	500	0.008	0.000	0.004	NS			
EC-06-31	500	505	0.003	0.343	0.004	NS			
EC-06-31	505	510	0.005	0.452	0.002	NS			
EC-06-31	510	515	0.003	0.432	0.004	NS			
EC-06-31	515	520	0.003	0.376	0.000	NS NS			
EC-06-31	520	525	0.003	0.247	0.002	NS NS			
EC-06-31 EC-06-31	520 525	525 530	0.002	0.064	0.003	NS NS			
EC-06-31			0.002	0.302	0.002	NS NS			
EC-00-31	530	535	0.001	0.411	0.002	INO			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis non-mag %
EC-06-31	535	540	0.004	0.137	0.003	NS		
EC-06-31	540	545	0.004	0.362	0.015	NS		
EC-06-31	545	550	0.010	0.186	0.002	NS		
EC-06-31	550	555	0.010	0.051	0.015	NS		
EC-06-31	555	560	0.004	0.200	0.004	NS		
EC-06-31	560	565	0.007	0.121	0.016	NS		
EC-06-31	565	570	0.004	0.249	0.003	NS		
EC-06-31	570	575	0.000	11.964	0.000	NS		
EC-06-31	575	580	0.000	0.180	0.000	NS		
EC-06-31	580	585	0.003	0.000	0.000	NS		
EC-06-31	585	590	0.003	0.584	0.015	NS		
EC-06-31	590	595	0.000	0.193	0.004	NS		
EC-06-31	595	600	0.009	0.166	0.004	NS		
EC-06-31	600	605	0.004	1.012	0.004	NS		
EC-06-31	605	610	0.004	0.782	0.003	NS		
EC-06-31	610	615	0.007	0.702	0.000	NS		
	615	620	0.007	0.618	0.000	NS		
EC-06-31	620	625	0.005	0.616	0.000	NS NS		
EC-06-31								
EC-06-31	625	630	0.002	0.672	0.000	NS		
EC-06-31	630	635	0.005	0.930	0.000	NS		
EC-06-31	635	640	0.001	0.000	0.017	NS		
EC-06-31	640	645	0.003	1.151	0.015	NS		
EC-06-31	645	650	0.008	2.358	0.004	NS		
EC-06-31	650	655	0.003	2.090	0.015	NS		
EC-06-31	655	660	0.006	0.767	0.017	NS		
EC-06-31	660	665	0.004	0.521	0.006	NS		
EC-06-31	665	670	0.003	0.281	0.004	NS		
EC-06-31	670	675	0.003	0.109	0.010	NS		
EC-06-31	675	680	0.007	0.053	0.009	NS		
EC-06-31	680	685	0.013	0.095	0.009	NS		
EC-06-31	685	690	0.010	0.026	0.015	NS		
EC-06-31	690	695	0.008	0.015	0.011	NS		
EC-06-31	695	700	0.006	0.035	0.006	NS		
EC-06-31	700	705	0.006	0.013	0.004	NS		
EC-06-31	705	710	0.005	0.042	0.006	NS		
EC-06-32	0	5	0.010	0.775	0.000	NS	_	
EC-06-32	5	10	0.046	0.406	0.016	NS		
EC-06-32	10	15	0.094	0.862	0.016	NS		
EC-06-32	15	20	0.007	0.562	0.005	NS		
EC-06-32	20	25	0.006	0.076	0.000	NS		
EC-06-32	25	30	0.004	0.526	0.016	NS		
EC-06-32	30	35	0.044	0.531	0.018	NS		
EC-06-32	35	40	0.087	0.314	0.019	NS		
EC-06-32	40	45	0.076	0.318	0.021	NS		
EC-06-32	45	50	0.006	0.604	0.018	NS		
EC-06-32	- 50	55	0.005	0.273	0.015	NS		
EC-06-32	55	60	0.003	0.485	0.015	NS		
EC-06-32	60	65	0.004	0.463	0.015	NS		
						NS		
EC-06-32	65 70	70 75	0.047	0.413	0.015			
EC-06-32	70 75	75	0.004	0.433	0.018	NS		
EC-06-32	75 20	80	0.001	0.733	0.003	NS		
EC-06-32	80	85	0.002	0.446	0.018	NS		
EC-06-32	85	90	0.009	0.372	0.003	NS		
EC-06-32	90	95	0.040	0.502	0.005	NS		
EC-06-32	95	100	0.039	0.559	0.003	NS		

HOLE-ID FROM TO AU AG PT FE Mag % Fe analys EC-06-32 100 105 0.005 0.331 0.018 NS EC-06-32 105 110 0.001 0.827 0.018 NS EC-06-32 110 115 0.006 0.509 0.019 NS EC-06-32 115 120 0.001 0.437 0.018 NS EC-06-32 120 125 0.005 0.444 0.019 NS EC-06-32 125 130 0.002 0.810 0.003 NS EC-06-32 130 135 0.012 0.338 0.003 NS EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 155	-
EC-06-32 110 115 0.006 0.509 0.019 NS EC-06-32 115 120 0.001 0.437 0.018 NS EC-06-32 120 125 0.005 0.444 0.019 NS EC-06-32 125 130 0.002 0.810 0.003 NS EC-06-32 130 135 0.012 0.338 0.003 NS EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
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EC-06-32 120 125 0.005 0.444 0.019 NS EC-06-32 125 130 0.002 0.810 0.003 NS EC-06-32 130 135 0.012 0.338 0.003 NS EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 125 130 0.002 0.810 0.003 NS EC-06-32 130 135 0.012 0.338 0.003 NS EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 130 135 0.012 0.338 0.003 NS EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 135 140 0.000 0.585 0.003 NS EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 140 145 0.004 1.904 0.018 NS EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 145 150 0.088 0.698 0.022 NS EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 150 155 0.008 0.839 0.005 NS EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 155 160 0.043 0.517 0.005 NS	
EC-06-32 160 165 0.004 1.268 0.005 NS	
EC-06-32 165 170 0.005 0.648 0.000 NS	
EC-06-32 170 175 0.002 0.889 0.015 NS	
EC-06-32 175 180 0.007 0.437 0.018 NS	
EC-06-32 180 185 0.006 0.312 0.018 NS	
EC-06-32 185 190 0.008 0.262 0.018 NS	
EC-06-32 190 195 0.003 0.272 0.018 NS	
EC-06-32 195 200 0.004 0.247 0.019 NS	
EC-06-32 200 205 0.045 0.130 0.005 NS	
EC-06-32 205 210 0.036 0.252 0.000 NS	
EC-06-32 210 215 0.039 0.246 0.015 NS	
EC-06-32 215 220 0.003 0.431 0.015 NS	
EC-06-32 220 225 0.002 0.273 0.000 NS	
EC-06-32 225 230 0.056 0.305 0.017 NS	
EC-06-32 230 235 0.010 0.000 0.000 NS	
EC-06-32 235 240 0.007 0.041 0.018 NS	
EC-06-32 240 245 0.006 0.379 0.005 NS	
EC-06-32 245 250 0.004 0.860 0.005 NS EC-06-32 250 255 0.012 0.429 0.003 NS	
EC-06-32 250 255 0.012 0.429 0.003 NS EC-06-32 255 260 0.004 0.621 0.005 NS	
EC-06-32 260 265 0.001 0.791 0.018 NS	
EC-06-32 265 270 0.003 1.420 0.017 NS	
EC-06-32 270 275 0.005 0.783 0.016 NS	
EC-06-32 275 280 0.003 0.714 0.015 NS	
EC-06-32 280 285 0.008 0.000 0.000 NS	
EC-06-32 285 290 0.005 0.568 0.002 NS	
EC-06-32 290 295 0.003 1.128 0.015 NS	
EC-06-32 295 300 0.003 0.654 0.002 NS	
EC-06-32 300 305 0.004 0.297 0.017 NS	
EC-06-32 305 310 0.014 0.297 0.000 NS	
EC-06-32 310 315 0.015 0.447 0.000 NS	
EC-06-32 315 320 0.010 0.482 0.005 NS	
EC-06-32 320 325 0.007 0.629 0.000 NS	
EC-06-32 325 330 0.006 0.483 0.025 NS	
EC-06-32 330 335 0.007 0.735 0.026 NS	
EC-06-32 335 340 0.004 0.437 0.027 NS	
EC-06-32 340 345 0.004 0.395 0.020 NS	
EC-06-32 345 350 0.006 0.906 0.024 NS	
EC-06-32 350 355 0.044 0.465 0.018 NS	
EC-06-32 355 360 0.031 0.622 0.002 NS	
EC-06-32 360 365 0.057 0.382 0.005 NS	
EC-06-32 365 370 0.040 0.141 0.005 NS	
EC-06-32 370 375 0.038 0.178 0.005 NS	

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fo analysis	non-mag %
EC-06-32	375	380	0.012	0.659	0.005	NS	ividy 70	i-e analysis	non-may %
EC-06-32	380	385	0.012	0.470	0.005	NS			
EC-06-32	385	390	0.000	0.601	0.003	NS			
EC-06-32	390	395	0.003	0.491	0.003	NS			
EC-06-32	395	400	0.003	0.359	0.002	NS			
EC-06-32	400	405	0.004	0.540	0.002	NS			
EC-06-32	405	410	0.003	0.393	0.002	NS			
EC-06-32	410	415	0.003	0.000	0.005	NS			
EC-06-32	415	420	0.002	0.507	0.000	NS			
EC-06-32	420	425	0.002	0.555	0.000	NS			
EC-06-32	425	430	0.001	0.489	0.000	NS			
EC-06-32	430	435	0.004	0.727	0.000	NS			
EC-06-32	435	440	0.002	0.404	0.000	NS			
EC-06-32	440	445	0.004	0.798	0.002	NS			
EC-06-32	445	450	0.003	0.411	0.018	NS			
EC-06-32	450	455	0.001	0.571	0.016	NS			
EC-06-32	455	460	0.002	0.285	0.000	NS			
EC-06-32	460	465	0.004	0.394	0.015	NS			
EC-06-32	465	470	0.002	0.288	0.015	NS			
EC-06-32	470	475	0.002	0.474	0.015	NS			
EC-06-32	475	480	0.002	0.296	0.000	NS			
EC-06-32	480	485	0.004	0.421	0.005	NS			
EC-06-32	485	490	0.003	0.458	0.000	NS			
EC-06-32	490	495	0.039	0.454	0.000	NS			
EC-06-32	495	500	0.004	0.631	0.000	NS			
EC-06-32	500	505	0.004	0.422	0.000	NS			
EC-06-32	505	510	0.003	0.000	0.000	NS			
EC-06-32	510	515	0.001	0.437	0.005	NS			
EC-06-32	515	520	0.003	0.377	0.016	NS			
EC-06-32	520	525	0.002	0.443	0.017	NS			
EC-06-32	525	530	0.002	0.323	0.005	NS	_		
EC-06-33	0	5	0.086	0.221	0.011	NS	_		
EC-06-33	5	10	0.018	0.084	0.009	NS			
EC-06-33	10	15	0.021	0.090	0.008	NS			
EC-06-33	15	20	0.027	0.092	0.012	NS			
EC-06-33	20	25	0.008	0.056	0.015	NS			
EC-06-33	25	30	0.009	0.060	0.010	NS			
EC-06-33	30	35	0.011	0.048	0.010	NS			
EC-06-33	35	40	0.015	0.040	0.012	NS			
EC-06-33	40	45	0.014	0.071	0.012	NS			
EC-06-33	45	50	0.015	0.077	0.006	NS			
EC-06-33	50	55	0.011	0.065	0.004	NS			
EC-06-33	55	60	0.010	0.067	0.007	NS			
EC-06-33	60	65	0.010	0.049	0.006	NS			
EC-06-33	65	70	0.006	0.000	0.001	NS			
EC-06-33	70	75	0.006	0.000	0.001	NS			
EC-06-33	75	80	0.005	0.000	0.001	NS			
EC-06-33	80	85	800.0	0.000	0.001	NS			
EC-06-33	85	90	0.007	0.000	0.001	NS			
EC-06-33	90	95	0.009	0.000	0.003	NS			
EC-06-33	95	100	0.010	0.051	0.003	NS			
EC-06-33	100	105	0.013	0.077	0.004	NS			
EC-06-33	105	110	0.009	0.000	0.001	NS			
EC-06-33	110	115	0.003	0.000	0.001	NS			
EC-06-33	115	120	0.005	0.000	0.001	NS			

HOLE-ID	FROM	то	AU	AG	PT	FE	Mag %	Fe analysis	non-mag %
EC-06-33	120	125	0.005	0.000	0.001	NS	may 70	i o anaiyaia	.ivii-iiiay /0
EC-06-33	125	130	0.004	0.000	0.001	NS			
EC-06-33	130	135	0.007	0.000	0.001	NS			
EC-06-33	135	140	0.020	0.094	0.005	NS			
EC-06-33	140	145	0.022	0.138	0.004	NS			
EC-06-33	145	150	0.007	0.000	0.008	NS			
EC-06-33	150	155	0.005	0.000	0.006	NS			
EC-06-33	155	160	0.012	0.057	0.002	NS			
EC-06-33	160	165	0.011	0.055	0.002	NS			
EC-06-33	165	170	0.012	0.057	0.002	NS			
EC-06-33	170	175	0.010	0.049	0.011	NS			
EC-06-33	175	180	0.009	0.062	0.013	NS			
EC-06-33	180	185	0.007	0.048	0.001	NS			
EC-06-33	185	190	0.007	0.044	0.001	NS			
EC-06-33	190	195	0.006	0.059	0.001	NS			
EC-06-33	195	200	0.016	0.211	0.007	NS			
EC-06-33	200	205	0.014	0.202	0.005	NS			
EC-06-33	205	210	0.014	0.210	0.004	NS			
EC-06-33	210	215	0.018	0.216	0.006	NS			
EC-06-33	215	220	0.013	0.200	0.002	NS			
EC-06-33	220	225	0.012	0.115	0.002	NS			
EC-06-33	225	230	0.017	0.187	0.003	NS			
EC-06-33	230	235	0.015	0.195	0.003	NS			
EC-06-33	235	240	0.016	0.167	0.005	NS			
EC-06-33	240	245	0.016	0.183	0.005	NS			
EC-06-33	245	250	0.013	0.098	0.009	NS			
EC-06-33	250	255	0.011	0.091	0.014	NS			
EC-06-33	255	260	0.012	0.387	0.017	NS			
EC-06-33	260	265	0.011	0.316	0.018	NS			
EC-06-33	265	270	0.012	0.157	0.019	NS			
EC-06-33	270	275	0.010	0.435	0.019	NS			
EC-06-33	275	280	0.012	0.000	0.017	NS			
EC-06-33	280	285	0.013	0.093	0.016	NS			
EC-06-33	285	290	0.012	0.708	0.020	NS			
EC-06-33	290	295	0.020	1.302	0.028	NS			
EC-06-33	295	300	0.012	0.840	0.019	NS			
EC-06-33	300	305	0.012	0.000	0.016	NS			
EC-06-33	305	310	0.012	0.309	0.017	NS			
EC-06-33	310	315	0.011	0.000	0.017	NS			
EC-06-33	315	320	0.012	1.172	0.018	NS			
EC-06-33	320	325	0.011	0.021	0.018	NS			
EC-06-33	325	330	0.011	0.015	0.017	NS			
EC-06-33	330	335	0.011	0.000	0.017	NS			
EC-06-33	335	340	0.011	0.675	0.018	NS			
EC-06-33	340	345	0.011	0.000	0.014	NS			
EC-06-33	345	350	0.012	0.000	0.019	NS			
EC-06-33	350	355	0.011	0.000	0.020	NS			
EC-06-33	355	360	0.011	0.000	0.019	NS			
EC-06-33	360	365	0.011	0.000	0.018	NS			
EC-06-33	365	370	0.011	0.000	0.017	NS			
EC-06-33	370	375	0.010	0.000	0.006	NS			
EC-06-33	375	380	0.012	0.110	0.017	NS			
EC-06-33	380	385	0.011	0.000	0.022	NS			
EC-06-33	385	390	0.011	0.000	0.018	NS			
EC-06-33	390	395	0.011	0.000	0.020	NS			

HOLE-ID	EDOM	TO	AU	AG	PT	FE	Mag 9/	Fo analysis	non-mag 0/
EC-06-33	FROM 395	TO 400	0.011	0.000	0.017	NS NS	Mag %	re analysis	non-mag %
EC-06-33	395 400	400 405	0.011	0.064	0.017	NS NS			
EC-06-33	405	410	0.012	0.004	0.018	NS			
EC-06-33	410	415	0.012	0.000	0.018	NS			
EC-06-33	415	420	0.012	0.060	0.018	NS			
EC-06-33	420	425	0.012	0.000	0.020	NS			
EC-06-33	425	430	0.011	0.000	0.018	NS			
EC-06-33	430	435	0.012	0.344	0.017	NS			
EC-06-33	435	440	0.017	0.044	0.006	NS			
EC-06-33	440	445	0.009	0.044	0.000	NS			
EC-06-33	445	4 4 5	0.014	0.130	0.006	NS			
EC-06-33	450	455	0.005	0.019	0.003	NS			
EC-06-33	455	460	0.003	0.012	0.003	NS			
EC-06-33	460	465	0.004	0.065	0.003	NS			
EC-06-33	465	470	0.006	0.078	0.004	NS			
EC-06-33	470	475	0.002	0.073	0.003	NS			
EC-06-33	475	480	0.002	0.013	0.001	NS			
EC-06-33	480	485	0.004	0.000	0.002	NS			
EC-06-33	485	490	0.001	0.009	0.002	NS			
EC-06-33	490	495	0.002	0.000	0.001	NS			
EC-06-33	495	4 93	0.001	0.144	0.001	NS			
EC-06-33	500	505	0.016	0.215	0.009	NS			
EC-06-33	505	510	0.006	0.213	0.005	NS			
EC-06-33	510	515	0.003	0.012	0.002	NS			
EC-06-33	515	520	0.002	0.000	0.002	NS			
EC-06-33	520	525	0.002	0.028	0.002	NS			
EC-06-33	525	530	0.002	0.012	0.001	NS			
EC-06-33	530	535	0.006	0.088	0.007	NS			
EC-06-33	535	540	0.002	0.000	0.001	NS			
EC-06-33	540	545	0.005	0.000	0.002	NS			
EC-06-33	545	550	0.005	0.073	0.002	NS			
EC-06-33	550	555	0.002	0.000	0.001	NS			
EC-06-33	555	560	0.001	0.000	0.001	NS			
EC-06-33	560	565	0.001	0.000	0.002	NS			
EC-06-33	565	570	0.001	0.000	0.001	NS			
EC-06-33	570	575	0.003	0.012	0.002	NS			
EC-06-33	575	580	0.017	0.598	0.002	NS			
EC-06-33	580	585	0.001	0.000	0.001	NS			
EC-06-33	585	590	0.005	0.377	0.010	NS			
EC-06-33	590	595	0.003	0.000	0.009	NS			
EC-06-33	595	600	0.004	0.045	0.003	NS			
EC-06-34	0	10	0.009	0.014	0.006	NS	_		
EC-06-34	10	20	0.007	0.023	0.010	NS			
EC-06-34	20	30	0.007	0.043	0.014	NS			
EC-06-34	30	40	0.007	0.326	0.013	NS			
EC-06-34	40	50	0.012	0.110	0.014	NS			
EC-06-34	50	60	0.031	0.044	0.012	NS			
EC-06-34	60	70	0.043	0.046	0.016	NS			
EC-06-34	70	80	0.031	0.093	0.012	NS			
EC-06-34	80	90	0.004	0.115	0.012	NS			
EC-06-34	90	100	0.009	0.069	0.017	NS			
EC-06-34	100	110	0.007	0.083	0.010	NS			
EC-06-34	110	120	0.009	0.067	0.013	NS			
EC-06-34	120	130	0.006	0.140	0.015	NS			
EC-06-34	130	140	0.007	0.041	0.016	NS			

HOLE ID	EDOM	TO	AII	46	DT	EE	Mag 0/	Eo analysis	non ma= 0/
HOLE-ID	FROM 140	TO 150	AU 0.015	AG	PT	FE NS	Mag %	re analysis	non-mag %
EC-06-34	140 150	150 160		0.028	0.018	NS NS			
EC-06-34 EC-06-34	150 160	160 170	0.017	0.728	0.016				
	160 170	170 180	0.014	0.717	0.016	NS NS			
EC-06-34	170	180	0.009	0.012	0.013	NS NS			
EC-06-34	180	190	0.016	0.428	0.016	NS NS			
EC-06-34	190	200	0.011	0.668	0.015	NS			
EC-06-34	200	210	0.011	0.365	0.012	NS			
EC-06-34	210	215	0.012	0.292	0.011	NS			
EC-06-34	215	220	0.013	0.030	0.004	NS			
EC-06-34	220	225	0.006	0.015	0.007	NS NS			
EC-06-34	225	230	0.028	0.680	0.004	NS NS			
EC-06-34	230	235	0.010	0.308	0.005	NS NS			
EC-06-34	235	240 245	0.008	0.011	0.007	NS NS			
EC-06-34	240	245 250	0.009	0.267	0.004	NS NS			
EC-06-34	245	250 255	0.006	0.175	0.004	NS NS			
EC-06-34	250 255	255 260	0.003	0.013	0.002				
EC-06-34	255	260 265	0.002	0.364	0.000	NS NS			
EC-06-34 EC-06-34	260 265	265 270	0.008 0.006	0.258 0.096	0.003 0.006	NS NS			
				0.096		NS NS			
EC-06-34 EC-06-34	270 275	275 280	0.002 0.008	0.005	0.009 0.005	NS NS			
EC-06-34 EC-06-34	275 280	285	0.008	0.324	0.005	NS NS			
EC-06-34 EC-06-34	280 285	285 290	0.005	0.132	0.007	NS NS			
EC-06-34 EC-06-34	205 290	290 295	0.027	0.469		NS NS			
EC-06-34 EC-06-34	290 295	295 300	0.017	0.391	0.010 0.008	NS NS			
EC-06-34 EC-06-34	300	300 310	0.010	0.072	0.008	NS NS			
EC-06-34 EC-06-34	310	320	0.004	7.254	0.010	NS NS			
EC-06-34	320	330	0.012	0.128	0.012	NS			
EC-06-34	330	340	0.000	0.120	0.013	NS			
EC-06-34	340	350	0.003	0.112	0.010	NS			
EC-06-34	350	360	0.003	0.113	0.013	NS			
EC-06-34	360	370	0.009	0.017	0.015	NS			
EC-06-34	370	380	0.003	0.029	0.015	NS			
EC-06-34	380	390	0.005	0.029	0.021	NS			
EC-06-34	390	400	0.124	0.038	0.018	NS			
EC-06-35	0	10	0.037	0.860	0.014	NS	-		
EC-06-35	10	20	0.032	0.016	0.017	NS			
EC-06-35	20	30	0.018	0.033	0.017	NS			
EC-06-35	30	40	0.008	0.191	0.010	NS			
EC-06-35	40	50	0.007	0.136	0.006	NS			
EC-06-35	50	60	0.005	0.254	0.005	NS			
EC-06-35	60	70	0.004	0.346	0.009	NS			
EC-06-35	70	80	0.002	0.045	0.008	NS			
EC-06-35	80	90	0.003	0.347	0.013	NS			
EC-06-35	90	100	0.006	0.017	0.013	NS			
EC-06-35	100	110	0.005	0.054	0.010	NS			
EC-06-35	110	120	0.004	0.442	0.015	NS			
EC-06-35	120	130	0.001	0.050	0.013	NS			
EC-06-35	130	140	0.004	0.045	0.011	NS			
EC-06-35	140	150	0.001	0.172	0.012	NS			
EC-06-35	150	160	0.002	0.222	0.010	NS			
EC-06-35	160	170	0.008	0.193	0.008	NS			
EC-06-35	170	180	0.005	0.218	0.011	NS			
EC-06-35	180	190	0.003	0.349	0.008	NS			
EC-06-35	190	200	0.014	0.145	0.008	NS			

HOLE-ID	FROM	TO 240	AU 0.004	AG	PT 0.000	FE	Mag %	Fe analysis	non-mag %
EC-06-35	200	210	0.001	0.198	0.009	NS			
EC-06-35	210	215	0.002	0.104	0.007	NS			
EC-06-35	215	220	0.001	0.048	0.010	NS			
EC-06-35	220	225	0.002	0.075	0.011	NS			
EC-06-35	225	230	0.002	0.033	0.013	NS			
EC-06-35	230	235	0.000	0.037	0.013	NS			
EC-06-35	235	240	0.000	0.030	0.013	NS			
EC-06-35	240	245	0.001	0.022	0.013	NS			
EC-06-35	245	250	0.003	0.027	0.018	NS			
EC-06-35	250	255	0.006	0.028	0.015	NS			
EC-06-35	255	260	0.005	0.027	0.017	NS			
EC-06-35	260	265	0.002	0.064	0.017	NS			
EC-06-35	265	270	0.004	0.539	0.014	NS			
EC-06-35	270	275	0.001	0.151	0.014	NS			
EC-06-35	275	280	0.002	0.016	0.012	NS			
EC-06-35	280	285	0.000	0.025	0.000	NS			
EC-06-35	285	290	0.012	0.444	0.000	NS			
EC-06-35	290	295	0.006	0.582	0.002	NS			
EC-06-35	295	300	0.004	0.480	0.003	NS			
EC-06-35	300	305	0.005	0.336	0.011	NS			
EC-06-35	305	310	0.013	0.498	0.011	NS			
EC-06-35	310	315	0.010	0.528	0.011	NS			
EC-06-35	315	320	0.008	0.000	0.024	NS			
EC-06-35	320	325	0.004	0.906	0.000	NS			
EC-06-35	325	330	0.029	0.708	0.021	NS			
EC-06-35	330	335	0.012	1.194	0.015	NS			
EC-06-35	335	340	0.006	0.798	0.017	NS			
EC-06-35	340	345	0.006	0.582	0.032	NS			
EC-06-35	345	350	0.002	1.326	0.002	NS			
EC-06-35	350	360	0.005	1.236	0.000	NS			
EC-06-35	360	370	0.013	1.146	0.018	NS			
EC-06-35	370	380	0.008	1.194	0.016	NS			
EC-06-35	380	390	0.013	1.188	0.019	NS			
EC-06-35	390	400	0.009	1.218	0.021	NS			
EC-06-36	0	10	0.007	0.480	0.016	NS			
EC-06-36	10	20	0.008	0.942	0.004	NS			
EC-06-36	20	30	0.004	0.534	0.004	NS			
EC-06-36	30	40	0.006	0.000	0.009	NS			
EC-06-36	40	50	0.003	0.546	0.008	NS			
EC-06-36	50	60	0.006	0.540	0.004	NS			
EC-06-36	60	70	0.005	0.384	0.005	NS			
EC-06-36	70	80	0.006	0.570	0.004	NS			
EC-06-36	80	90	0.004	0.642	0.001	NS			
EC-06-36	90	100	0.004	0.480	0.000	NS			
EC-06-36	100	110	0.007	0.192	0.000	NS			
EC-06-36	110	120	0.009	0.702	0.000	NS			
EC-06-36	120	130	0.003	0.612	0.000	NS			
EC-06-36	130	140	0.001	1.788	0.000	NS			
EC-06-36	140	150	0.003	1.452	0.000	NS			
EC-06-36	150	160	0.104	0.714	0.034	NS			
EC-06-36	160	170	0.104	1.002	0.034	NS			
EC-06-36	170	180	0.333	0.672	0.047	NS			
EC-06-36	180	185	0.000	0.576	0.028	NS			
EC-06-36	185	190	0.000	1.392	0.000	NS NS			
EC-06-36	190	195	0.100	1.122	0.037	NS			

HOLE-ID	EDOM	TO	AII	A.C.	DT	FE	Mag 9/	Es analysis non mag
EC-06-36	FROM 195	TO 200	AU 0.042	AG 0.420	PT 0.021	FE NS	Mag %	Fe analysis non-mag 9
EC-06-36	200		0.042	1.086	0.000	NS		
		205						
EC-06-36	205	210	0.000	0.642	0.001	NS		
EC-06-36	210	215	0.013	0.720	0.001	NS		
EC-06-36	215	220	0.000	0.858	0.005	NS		
EC-06-36	220	225	0.023	0.744	0.012	NS		
EC-06-36	225	230	0.004	0.642	0.001	NS		
EC-06-36	230	235	0.006	0.660	0.002	NS		
EC-06-36	235	240	0.001	1.650	0.000	NS		
EC-06-36	240	245	0.011	0.000	0.003	NS		
EC-06-36	245	250	0.010	0.786	0.002	NS		
EC-06-36	250	255	0.016	1.170	0.007	NS		
EC-06-36	255	260	0.069	0.420	0.022	NS		
EC-06-36	260	265	0.037	0.870	0.013	NS		
EC-06-36	265	270	0.034	0.984	0.012	NS		
EC-06-36	270	275	0.113	1.278	0.012	NS		
EC-06-36	275	280	0.059	0.756	0.008	NS		
EC-06-36	280	285	0.075	1.056	0.013	NS		
EC-06-36	285	290	0.021	1.026	0.008	NS		
EC-06-36	290	295	0.041	0.792	0.014	NS		
EC-06-36	295	300	0.021	0.810	0.007	NS		
EC-06-37	0	10	0.025	0.666	0.008	NS	•	
EC-06-37	10	20	0.044	0.618	0.008	NS		
EC-06-37	20	30	0.034	0.450	0.008	NS		
EC-06-37	30	40	0.063	0.600	0.012	NS		
EC-06-37	40	50	0.015	2.046	0.004	NS		
EC-06-37	50	60	0.002	0.624	0.000	NS		
EC-06-37	60	70	0.002	0.720	0.000	NS		
EC-06-37	70	80	0.005	0.744	0.000	NS		
EC-06-37	80	90	0.003	0.744	0.000	NS		
	90	100	0.001	0.702	0.005	NS NS		
EC-06-37								
EC-06-37	100	110	0.008	0.834	0.000	NS		
EC-06-37	110	120	0.057	0.792	0.011	NS		
EC-06-37	120	130	0.019	1.068	0.002	NS		
EC-06-37	130	140	0.009	1.128	0.002	NS		
EC-06-37	140	150	0.008	0.846	0.002	NS		
EC-06-37	150	160	0.001	1.308	0.000	NS		
EC-06-37	160	170	0.003	0.804	0.000	NS		
EC-06-37	170	180	0.001	0.714	0.000	NS		
EC-06-37	180	190	0.008	0.696	0.002	NS		
EC-06-37	190	200	0.006	0.738	0.001	NS		
EC-06-37	200	210	0.011	0.642	0.003	NS		
EC-06-37	210	220	0.004	0.840	0.000	NS		
EC-06-37	220	230	0.001	0.738	0.000	NS		
EC-06-37	230	240	0.000	0.636	0.000	NS		
EC-06-37	240	250	0.013	0.708	0.002	NS		
EC-06-37	250	260	0.003	0.648	0.000	NS		
EC-06-37	260	270	0.004	0.990	0.000	NS		
EC-06-37	270	280	0.002	0.678	0.000	NS		
EC-06-37	280	290	0.004	0.768	0.000	NS		
EC-06-37	290	300	0.008	0.768	0.001	NS		

Appendix 7

Auric Metallurgical Labs Sample Preparation and Analytical Procedures

DETAILS REGARDING THE APPLIED PROCEDURES AND PROTOCOLS DEVELOPED FOR AND USED AT AURIC METALLURGICAL LABORATORIES, LLC, DURING THE ANALYSIS OF GEOLOGICAL SAMPLES FROM THE EL CAPITAN PROPERTY, LINCOLN COUNTY, NEW MEXICO:

Sample Preparation:

All samples from the Phase 1 and Phase 2 drill program -- both Core (C) and Reverse Circulation (RC), of El Capitan were received sealed in cloth samples bags containing the material from the appropriately marked 5' interval. These bags, usually 5 to 6 of them, had been placed in plastic five-gallon buckets which were also marked as to their contents.

Grinding and Splitting Operations:

For the samples obtained from Core Drilling:

- 1) The quarter core samples were passed through a Denver brand 4"X6" jaw crusher, to reduce the size of all of the material to -1/4".
- 2) This material was passed through a Jones, riffle splitter a number of times to reduce the sample size to approximately 150 grams.
- 3) The samples were, then, pulverized through a disc pulverizer, 6" Bico-Braun, to all 80 M (Mesh). Pulverizer was opened, cleaned with compressed air and a small amount of silica sand was run through to ensure cleaning between each sample.
- 4) The pulverized sample was placed in a 3"X5" yellow Craft Paper sample envelope, placed with the appropriate sample identification markings and forwarded to the lab.

For the samples obtained from Reverse Circulation Drilling:

- 1) The material is received in powder form is passed through a Jones, riffle splitter a number of times to reduce the size to approximately to 150 grams.
- 2) The samples were, then, pulverized through a disc pulverizer, 6" Bico-Braun, to all 80 M (Mesh). Pulverizer was opened, cleaned with compressed air and a small amount of silica sand was run through to ensure cleaning between each sample.

Magnetic Concentration:

Samples received from the Phase 1 drilling were visually separated into two categories based on their apparent magnetite contents. 100 gram aliquots of the samples with high magnetite contents were subjected to wet magnetic separation. Non-magnetic portions of these samples and all of the low magnetite samples were subjected to Caustic Fusion Assaying. This practice was later abandoned and all samples were assayed directly without being subjected to magnetic concentration.

Assaying and Analytical Procedures Used:

Equipment used for the Caustic Fusion assaying of the ore samples from El Capitan project consisted of the following:

- Pulp scale, Acculab V-333 (used for reagents),
- Electronic Scale, Ibalance 201 (used for weighing pulp)
- Electric Fire Assay Furnaces (2) Cress C 1228, furnished with Watlow 942 pyrometer controls,
- Milligram scale, Mettler H 35 AR,
- Microgram scale, Mettler M-5,
- Hot plates,
- Pyrex beakers, 800 mL capacity,
- 1000 μL Finnpipette adjusted to deliver 1000 μL
- Assortment of Class A pipettes 0.1 mL, 0.2 mL, 0.1 mL, 1 mL, 5 mL, 10 mL
- 100 mL volumetric flasks with stoppers (Class A)
- Heavy wall filtering flasks 1000 mL capacity, with tubulation
- Polypropylene Buchner filtration funnel, $\emptyset = 90 \text{ mm}$
- Thermo Electron, SOLAAR S-4 Atomic Absorption Spectrophotometer fitted with a Cetac ASX-510 Autosampler
- Thermo Jarrell Ash S-12 Atomic Absorption Spectrophotometer (with GAA cap.)
- Gold Hallow Cathode Lamp (Au HCL), single element
- Silver Hallow Cathode Lamp (Ag HCL), single element
- Platinum Hallow Cathode Lamp (Pt HCL), single element
- Palladium Hallow Cathode Lamp (Pd HCL), single element

Quality control measures used during the assaying of the El Capitan samples included running blanks (1 Background Sample, "NBM 2-a" for each 10 samples assayed- 10%) and standards (1 Standard, either "NBM-5b", "CDN PGMS 6", "CDN PGMS 7" or "CDN PGMS 9" for each 10 samples assayed- 10%).

All chemicals and ingredients used in the Caustic Fusion Assay procedures were purchased in the highest "Reagent" grade from reputable chemical suppliers, in 0.5 kg to 5 kg sizes and each incoming batch of chemical was subjected to analysis to insure its purity.

All pulp, milligram and microgram scales used in the AuRIC laboratory are under service contracts with a certified calibration company and receive maintenance and calibration services on bi-annual basis using "NIST Traceable" weights and procedures.

All analytical instruments (e.g. AA spectrophotometers, ICP spectrophotometers, etc.) and associated auto-samplers, auto-dilutors used in the AuRIC facility are kept under the manufacturers service contracts and serviced bi-annually by certified company technicians to insure their proper functioning and accuracy.

All single element standards used for calibrating these above mentioned analytical instruments are purchased from suppliers with ISO 9002-1994 certification and come with detailed "Certificate of Analysis and Direct Traceability to NIST".

During the testing of the El Capitan samples, AuRIC was a participating member in the PTP-MAL program of CCRMP for the TG Labs MALWG (Proficency Testing Program for Mineral Laboratories operated by the Canadian Certified Reference Materials Project for the Task Group Laboratories Mineral Analysis Laboratories Working Group) for the analysis of the elements of concern.

General:

Caustic Fusion Assay method, as developed by AuRIC, was tested and approved as to its accuracy, scientific verifiability and repeatability by the QP (Qualified Person) employed by the client, El Capitan Precious Metals, Inc. The subject testing consisted of phases that took place in Salt Lake City, Utah at the facility of AuRIC Metallurgical Laboratories, LLC, which were followed by verification phases that were performed at two separate third party labs located in Denver, CO. Details of these works may be obtained from the designated QP company of Daniele Metal Mineral Services, Inc. located at 503 South Carr Street, Lakewood, CO 80226 or directly from El Capitan Precious Metals, Inc. located at 10876 East Tierra Dr., Scottsdale AZ 85259.

AuRIC Metallurgical Laboratories, LLC is a duly registered mineral assay and analysis laboratory located at 3260 West Directors Row, Salt Lake City, UT 84104 since 1996. The State of Utah does not have or require a certification for mineral analysts (In the USA, only the state of Arizona has an assayer certification program which is offered for resident businesses.)

Appendix 8

Auric Metallurgical Labs Extraction Tests

GOLD & MINERALS COMPANY, INC. EL CAPITAN PROPERTY, LINCOLN COUNTY, NM ANALYTICAL AND EXTRACTIVE PROCEDURES DEVELOPMENT PROGRAM

PHASE II. EL CAPITAN ORE EXTRACTIVE PROCEDURES DEVELOPMENT PROGRAM (1)

TASK 1

INTRODUCTION	3
DISCLAIMER	5
SAMPLE SELECTION AND PREPARATION	6
Table 1: Percentage of Non-Magnetic Fraction in the Samples of El Capitan Mine, Lincoln County, NM used in the Phase II, Task 1 Extraction Procedures Development work.	
AURIC METALLURGICAL LABORATORIES, LLC ANALYTICAL EQUIPMENT	7
STANDARD FIRE AND CAUSTIC FUSION ASSAYS ON HEAD SAMPLES	8
Table 2: Results of Standard Fire Assays on Head and Magnetic Fractions; Caustic Fusion Assa on Non-Magnetic Fractions and Calculated Head Grade on the six samples selected for the Extraction Amenability Tests.	
HYDROMETALLURGICAL EXTRACTION AMENABILITY TESTS	9
PROCESS TYPE I (CN' LIGAND TYPE PROCESSES)	
HYDROMETALLURGICAL EXTRACTION 1	
Table 3: Sodium Cyanide Leach test results, Recovery percentages (Hydrometallurgical Extraction I).	
PROCESS TYPE II (CT LIGAND TYPE PROCESSES)	
HYDROMETALLURGICAL EXTRACTION 2	

Table 4: Chlorine Leach test results, Recovery percentages (Hydrometallurgical Extraction 2).

PROCESS TYPE III (COMBINATION TYPE PROCESSES)

HYDROMETALLURGICAL EXTRACTION 3

Table 5: Chlorine Leach following Sodium Cyanide Leach test results, Recovery percentages (Hydrometallurgical Extraction 3).

PROCESS TYPE IV (THIOHYDROMETALLURGICAL PROCESSES)

HYDROMETALLURGICAL EXTRACTION 4

Table 6: Sodium Thiosulfate Leach test results, Recovery percentages (Hydrometallurgical Extraction 4).

HYDROMETALLURGICAL EXTRACTION 5

Table 7: Thiourea Leach test results, Recovery percentages (Hydrometallurgical Extraction 5).

CONCLUSIONS 13

Chart 1: Gold Recovery by Various Processes

Chart 2: Platinum Recovery by Various Processes

INTRODUCTION

AuRIC Metallurgical Laboratories, LLC of Salt Lake City, Utah has been contracted by El Capitan Precious Metals. Inc to conduct a Research & Development Project for the purpose of developing analytical and extractive protocols customized for measuring and recovering the Precious Metals content of El Capitan Mine located in Lincoln County, New Mexico.

Phase I of the Project, which is presently continuing towards the accomplishment of establishing repeatability of the developed procedures (Task 3), as well as oversight by an independent engineering company (Task 4), focused on developing alternative assay methods to produce reliable, repeatable and scientifically acceptable ways of measuring the Precious metals in the subject ore body. Phase II, on the other hand, will focus on developing suitable extraction methods for the Gold, Silver and Platinum values determined to be contained in the non-magnetic tailings of the iron ore produced from the El Capitan Mine.

Present segment of the undertaking, namely Phase II-Task 1, was defined in the original Business plan submitted also as an attachment to the Process Development Agreement between the parties as the "Refractory Ore Evaluation". Delays encountered in the completion of the ongoing drilling program being performed on the El Capitan site has necessitated the use of samples from the previous surface sampling program. The suite of 32 samples, collected from the mining claims held by the El Capitan Precious Metals, Inc. at Lincoln County, NM, by Dr. Clyde Smith, company geology consultant and Mr. Dave L. Lamberson of AuRIC Metallurgical Laboratories, LLC on the dates of January 15 - 16, 2005 had been extensively assayed and studied. For the analyses results of these samples please see Table 2.

Work performed in this section of the project included the application of three different hydrometallurgical extraction protocols on a group of medium to high grade samples to determine their amenability.

Decisions in choice of hydrometallurgical processes were made with consideration to the previously made observations that,

- precious metals concentrations consisted mostly of gold and platinum.
- and they occurred in the non-magnetic (hematite rich) fraction of the ore samples.
- in some of the higher grade samples, i.e.: EC-10 and EC-11, the gold values seemed to be in free particles.
- the mode of occurrence of the platinum is presently unknown.

Precious Metals Recovery Processes being tested for their amenability to the ore samples of El Capitan Mine are as follows:

- 1. Hydrometallurgical Extraction Process 1: Sodium Cyanide Leach,
- 2. Hydrometallurgical Extraction Process 3: Chlorine Leach,
- 3. Hydrometallurgical Extraction Process 2: Sodium Cyanide / Sodium Hydroxide Leach followed by Chlorine Leach,
- 4. Hydrometallurgical Extraction Process 4: Sodium Thiosulfate / Sodium Hydroxide Leach,
- 5. Hydrometallurgical Extraction Process 5: Thiourea Leach,

DISCLAIMER

It should be noted that the Analytical Procedures and Protocols used in obtaining the various numbers and figures relating to the Precious Metals contents of the subject samples from the El Capitan ore body located in Lincoln County, New Mexico are presently under development and experimental. Any use of these results to infer validity or commercial feasibility of the subject ore body, prior to validation of the developed and finalized Analytical Protocols by a properly chosen third party engineering company or a Qualified Person (QP), should be done with great caution and/or proper disclaimers.

A sampling program under the supervision of Dr. Clyde Smith, Consulting Geologist has been started. First phase of the sampling program was performed between the dates of January 15-16, 2005, producing 32 bedrock samples which formed the sample suite used in this Phase I – Task 2 of the Analytical Procedures Development Program. Future phases of the sampling program including Chain of Custody (COC) samples as well as a drilling program to generate data toward the feasibility study of the project are also under way.

SAMPLE SELECTION AND PREPARATION

Samples selected for the first phase of the extraction protocol development work consisted of the following. Table 2, below, shows the relative ratios of the magnetic and non-magnetic fractions of the ore samples. Extraction tests were performed on some nonmagnetic ore fractions, as well as some head ore samples.

Sample Number:	Magnetic Fraction: (wt%)	Non-magnetic Fraction: (wt%)	
Sample # 3152	27.3	72.7	In Phos
EC - 1	61.8	38.2	1
EC-10	58.7	41.3	1
EC-11	72.1	27.9]
EC - 16	68.5	31.5]
EC - 22	76.5	23.5	1
EC - 24	58.1	41.9	

I,T≥s⊦

Percentage of Non-Magnetic Fraction in the Samples of El Capitan Mine, Lincoln Table 1: County, NM used in the Phase II, Task 1 Extraction Procedures Development work.

The samples were passed through a 4"X6" Denver jaw crusher and reduced to all passing -1/4" size. Samples were further milled by passing them through a 6" Bico-Braun disc pulverizer. Final particle size attained was all -80 Mesh.

AuRIC Metallurgical Laboratories, LLC, Sample preparation equipment that were used in preparing the ore samples for the Phase II / Task 1 work consisted of:

- Jaw Crusher, 4"X6" Denver
- Roll Mill, 8" Strauss
- Disc Pulverizer, 6" Bico-Braun
- Sample Homogenizer
- Jones, Riffle Type Splitter
- Micro Splitter with Vibrator
- Taylor Mesh Screens and Screen Shaker

Magnetic concentrates were made from wet shurry prepared from each sample, by a handheld magnet placed in a plastic sleeve. Magnetic and Non-Magnetic fractions thus obtained were flocculated and filtered through a 9cm Bucchner funnel and dried in an electric drying oven.

All Hydrometallurgical Leach Amenability Tests performed and reported in the following pages of this report were at 30 gram (1 Assay Ton) size.

Auric Metallurgical Laboratories, LLC Analytical Equipment

A wide range of research grade analytical equipment and instruments are used in the development of Analytical Protocols for the El Capitan Ore. Among these are:

- Pulp scale, Acculab V-333,
- Electric Fire Assay Furnaces (2) Cress C 1228, furnished with Watlow 942 ramping pyrometer controls,
- · Milligram scale, Mettler H 35 AR,
- Microgram scale, Mettler Toledo MT 5,
- · Microgram scale, Mettler M-5,
- Hot plates with magnetic stirrers,
- · Pyrex beakers, 1000 mL, 800 mL and 250 mL capacity,
- 1000 μL Finnpipette adjusted to deliver 1000 μL,
- Redox meter, Orion Model 250 A fitted with an Orion Combo Redox electrode.
- pH meter, Cole-Parmer fitted with a double-junction pH electrode,
- · Heavy wall filtering flasks 1000 mL capacity, with tabulation,
- Polypropylene Buchner filtration funnels, $\emptyset = 90$ mm, $\emptyset = 70$ mm and $\emptyset = 40$ mm.
- Racks for test tubes, 25 mL cap.,
- Atomic Absorption Spectrophotometer, Thermo-Jarrell Ash S-12
- Atomic Absorption Spectrophotometer, Thermo Electron, Solaar S-4 with a Cetac ASX-510 Autosampler,
- Gold Hallow Cathode Lamp (Au HCL), single element
- · Silver Hallow Cathode Lamp (Ag HCL), single element
- Platinum Hallow Cathode Lamp (Pt HCL), single element
- Palladium Hallow Cathode Lamp (Pd HCL), single element
- Rhodium Hallow Cathode Lamp (Rh HCL), single element

STANDARD FIRE AND CAUSTIC FUSION ASSAYS ON HEAD SAMPLES

AuRIC		Customer	Non-mag	Gold:	Silver:	Platinum:	Palladium:
Test No:	Comments	Sample ID:	(wt%)	(opt)	(opt)	(opt)	(opt)
5197A	Head			0.011	0.076	0.008	0.001
5287A	Mag	Sample #		0.007	0.096	0.004	0.003
1251F	Non-mag	3152	27.3	0.132	0.690	0.060	0.019
	Calc.			0.041	0.258	0.019	0.007
		_					
5361A	Head			0.008	0.731	0.006	0.001
5316A	Mag	EC-1		0.006	0.310	0.000	0.001
1386F	Non-mag	EC-1	38.2	0.035	1.198	0.060	0.003
	Calc.]		0.017	0.649	0.023	0.002
5370A	Head			0.082	0.500	0.018	0.004
5325A	Mag	EC - 10		800.0	0.386	0.022	0.002
1395F	Non-mag	EC-10	41.3	0.198	0.111	0.090	0.015
*****	Calc.			0.086	0.272	0.050	0.007
5371A	Head			0.075	0.102	0.011	0.001
5326A	Mag	EC-11		0.007	0.362	0.014	0.001
1396F	Non-mag		27.9	0.300	0.000	0.045	0.012
	Calc.			0.089	0.261	0.023	0.004
5376A	Head			0.009	0.072	0.014	0.001
5331A	Mag	EC - 16		0.007	0.390	0.014	0.001
1401F	Non-mag	20- (0	31.5	0.032	0.000	0.108	0.001
	Calc.			0.015	0.267	0.044	0.001
						<u> </u>	
5382A	Head	<u> </u>		0.006	0.001	0.007	0.001
5337A	Mag	EC - 22		0.005	0.093	0.011	0.001
1407F	Non-mag		23.5	0.060	0.162	0.030	0.003
	Calc.			0.018	0.109	0.015	0.001
4							· · · · · · · · · · · · · · · · · · ·
5384A	Head] .		0.006	0.117	0.011	0.002
5339A	Mag	EC - 24		0.006	0.104	0.010	0.002
1409F	Non-mag		41.9	0.061	0.162	0.032	0.001
	Calc.			0.029	0.128	0.019	8.002
	L						

<u>Table 2:</u> Results of Standard Fire Assays on Head and Magnetic Fractions; Caustic Fusion Assays on Non-Magnetic Fractions and Calculated Head Grade on the six samples selected for the Extraction Amenability Tests.

HYDROMETALLURGICAL EXTRACTION AMENABILITY TESTS

A number of different hydrometallurgical extraction protocols singly and in combination were applied to the selected ore samples from the El Capitan mine. Some of these tests were performed on the head ore samples, while some were done on non-magnetic fractions of the subject ore samples.

PROCESS TYPE I (CN' LIGAND TYPE PROCESSES)

HYDROMETALLURGICAL EXTRACTION 1 (Sodium Cyanide Leach)

It was thought that the seemingly fine particle size (~1µm or less) of free gold contained in some of the non-magnetic fraction samples from the El Capitan Mine, as well as the lack of any sulfide minerals or other potential refractory elements, warranted the investigation and amenability testing of the well-proven Sodium Cyanide technique.

Following parameters were used in the Sodium Cyanide Leach Test performed on the selected samples.

Ore : 30 grams (1AT)

Water : 100 mL
NaCN : 1.0 %
CaO : 0.5 %
% Solids : 23 %
Oxidizer : Yes

T : Room Temp. (~20°C)

t : 4 hrs.

Sample ID:	Gold Assay (Calc) (opt)	Gold Recovered (opt)	Recovery (%)
Sample # 3152	0.041	0.039	95.1
EC - 1	0.017	0.011	64.7
EC - 10	0.086	0.079	91.9
EC - 11	0.089	0.081	91.0
EC - 16	0.015	0.009	60.0
EC - 22	0.018	0.011	61.1
EC - 24	0.029	0.023	79.3

Table 3: Sodium Cyanide Leach test results, Recovery percentages (Hydrometallurgical Extraction 1).

PROCESS TYPE II (CI LIGAND TYPE PROCESSES)

HYDROMETALLURGICAL EXTRACTION 2 (Chlorine Leach)

Ore : 30 grams (1AT)

Water : 75 mL NaOCl : 25 mL HCl : 2.5 mL % Solids : 23 %

T : Room Temp. (~20°C)

t :1 hr.

Sample ID:	Gold Assay (Calc) (opt)	Gold Recovered (opt)	Recovery (%)	Platinum Assay (Calc) (opt)	Platinum Recovered (opt)	Recovery (%)
Sample # 3152	0.041	0.033	80.5	0.019	0.016	84.2
EC - 1	0.017	0.010	58.8	0.023	0.017	73.9
EC 10	0.086	0.069	80.2	0.050	0.044	88.0
EC - 11	0.089	0.072	80.9	0.023	0.013	56.5
EC - 16	0.015	0.009	60.0	0.044	0.024	54.5
EC - 22	0.018	0.011	61.1	0.015	0.009	60.0
EC - 24	0.029	0.019	65.5	0.019	0.014	73.7

Table 4: Chlorine Leach test results, Recovery percentages (Hydrometallurgical Extraction 2).

PROCESS TYPE III (COMBINATION TYPE PROCESSES)

HYDROMETALLURGICAL EXTRACTION 3 (Sodium Cyanide / Sodium Hydroxide Leach followed by Chlorine Leach)

Following parameters were used in the Sodium Cyanide / Sodium Hydroxide Leach Test performed on the samples,

Ore : 30 grams (1AT)

Water : 100 mL NaCN : 1.0 % CaO : 0.5 % % Solids : 23 % Oxidizer : Yes

T ; Room Temp. (~20°C).

t : 4 hrs.

which was then, followed by re-slurrying the filtered and rinsed pulp with the following chemicals for the purpose of recovering the platinum values and any remaining gold values, as well as neutralizing any traces of cyanide that may have remained in the tailings.

Water : 80 mL NaOCl : 20 mL HCl : 2 mL % Solids : 23 %

T : Room Temp. (~20°C)

t : 1 hr.

He	ad Assay	/8	Cyanide	Cyanide Leach Chlorine Leach		Chlorine Leach		
Sample	Gold Assay (Calc) (opt)	Pt Assay (Calc) (opt)	Gold Recovered (opt)	Recovery	Gold Recovered (opt)	Recovery (%)	Platinum Recovered (opt)	Recovery (%)
# 3152	0.041	0.019	0.039	95.1	< 0.001	0.0	0.014	73.7
EC-1	0.017	0.023	0.011	64.7	0.003	17.7	0.019	82.6
EC-10	0.086	0.050	0.079	91.9	0.003	3.5	0.046	92.0
EC-11	0.089	0.023	0.081	91.0	0.003	3.4	0.016	69.6
EC-16	0.015	0.044	0.009	60.0	0.002	13.3	0.030	68.2
EC-22	0.018	0.015	0.011	61.1	0.003	16.7	0.009	60.0
EC-24	0.029	0.019	0.023	79.3	0.002	6.9	0.016	84.2

<u>Table 5:</u> Chlorine Leach following Sodium Cyanide Leach test results, Recovery percentages (Hydrometallurgical Extraction 3).

PROCESS TYPE IV (THIOHYDROMETALLURGICAL PROCESSES)

HYDROMETALLURGICAL EXTRACTION 4 (Sodium Thiosulfate / Sodium Hydroxide Leach)

Ore : 30 gram (1AT)

Water : 100 mL NaOH : 0.375 M Na₂S₂O₃.5H₂O: 0.1M % Solids : 23 % pH : 10.5 Oxidizer : Yes

T : Room Temp. (~20°C)

t : 48 hrs.

Sample IO:	Gold Assay (Calc) (opt)	Gold Recovered (opt)	Recovery (%)	Platinum Assay (Calc) (opt)	Platinum Recovered (opt)	Recovery (%)
Sample # 3152	0.041	0.040	97.6	0.019	0.010	52.6
EC 1	0.017	0.012	70.6	0.023	0.011	47.8
EC - 10	0.086	0.081	94.2	0.050	0.032	64.0
EC - 11	0.089	0.082	92.1	0.023	0.011	47.8
EC - 16	0.015	0.010	66.7	0.044	0.030	68.2
EC - 22	0.018	0.011	61.1	0.015	0.010	66.7
EC - 24	0.029	0.022	75.9	0.019	0.011	57.9

Table 6: Sodium Thiosulfate Leach test results, Recovery percentages (Hydrometallurgical Extraction 4).

HYDROMETALLURGICAL EXTRACTION 5 (Thiourea Leach)

Ore : 30 gram (1AT)

Water : 190 mL H₂SO₄ : 10 mL NH₂CSNH₂ : 3.5 g Fe₂(SO₄)₃ : 0.5 g % Solids : 23 %

T: Room Temp. (~20°C)

t : 1.5 hrs.

Sample ID:	Gold Assay (Calc) (opt)	Gold Recovered (opt)	Recovery (%)	Platinum Assay (Calc) (opt)	Platinum Recovered (opt)	Recovery (%)
Sample # 3152	0.041	0.038	92.7	0.019	0.007	36.8
EC - 1	0.017	0.014	62.4	0.023	0.008	34.8
EC - 10	0.086	0.083	96.5	0.050	0.019	38.0
EC - 11	0.089	0.085	95.5	0.023	0.009	39.1
EC - 16	0.015	0.010	66.6	0.044	0.013	29.5
EC - 22	0.018	0.015	83.3	0.015	0.005	33.3
EC - 24	0.029	0.024	82.8	0.019	0.006	31.6

Table 7: Thiourea Leach test results, Recovery percentages (Hydrometallurgical Extraction 5).

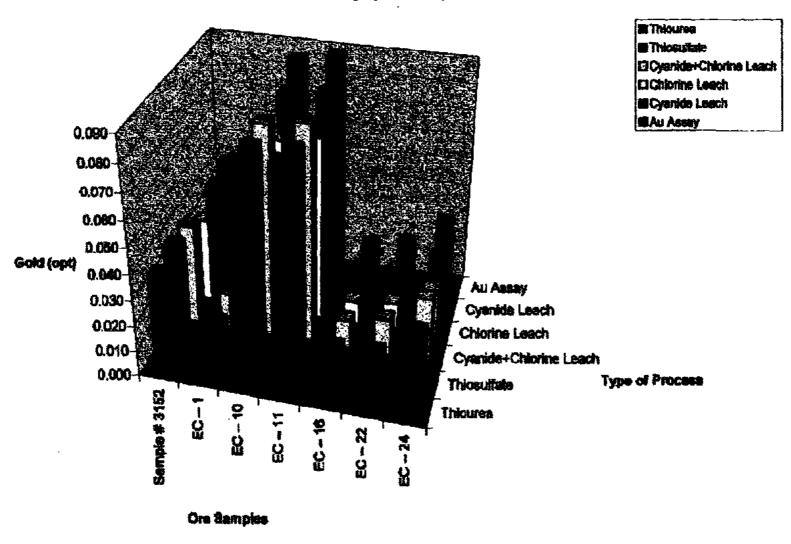
CONCLUSIONS

Laboratory Scale Hydrometallurgical Recovery work, performed on the select samples from El Capitan mine, show them to be amenable to a number of different leaching techniques. Among the techniques that show promise and should be investigated further in laboratory, bench and pilot plant scale are:

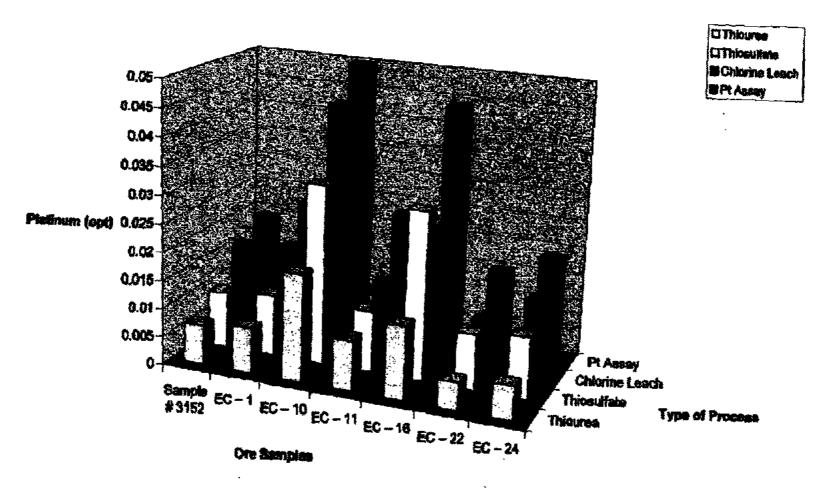
Sodium Cyanide Leach, Sodium Cyanide Leach followed by Chlorination, Sodium Thiosulfate Leach

Later stages of the hydrometallurgical work will investigate other factors like the processing costs, plant costs, environmental costs for each of these processes and make comparisons of their ROI (return-on-investment) ratios.

Gold Recovery by Verious processes



Platinum Recovery by Various Processes



Appendix 9

Ken Bright Metallurgical Review Report

Analysis of Two Composite Samples Representing Phase 1 and Phase 2 / 3 Drilling of the

El Capitan Iron Skarn and Associated Rocks
Lincoln County, New Mexico - USA
with particular attention to
Au Pt Pd and Ag Content

by Ken G. Bright February, 2008

Abstract – Composite samples representing phase 1 and phase 2 / 3 of drilling on the El Capitan mineralized occurrence were made in 2007. Two splits of each sample (labeled RR-1 and RR-2 for phase 1, and ARR-1 and ARR-2 for phase 2/3) were provided to this author to proceed with a testing program to verify Au Pt Pd Ag content and further measure indications of other PGE such as Ir. The samples are reasonably homogenous as to matrix within a given split, but there was a potentially significant difference in matrix between the two splits of phase 1 drilling. Both samples demonstrate some sparse particle effect as evidenced by Au and Mo in particular. In analysis by ALS Chemex Labs, Acme Labs, Becquerel Labs, and SGS-Lakefield Research no value for Au Pt Pd or Ir was encountered over 100 ppb any one element, and no Ag was encountered over 1 ppm. In data provided by MHS Research Pt up to the 150-300 ppb (0.01 oz/ton) range was reported by NiS fusion and Ag was reported in the 3-10 ppm (up to 0.3 oz/ton) after a modified wet analysis. Au at M.H.S. Research was normally agreeing with the values from other labs.

In that it is possible to get a "black hole of negative data" (splits with little or no precious metal in them due to inability to satisfactorily produce a uniform composite sample due to sparse particle / nugget effect) the constraints of due diligence require that (1) a broader set of samples be simply tested for Au Pt Ag, and that (2) a reasonable minimum of original samples used to produce data by AuRic Metallurgical Labs (Salt Lake City) be included.

After technical discussion and review of comparable data from a property in Nevada, further investigation and potential certification of a conventional fusion (serving as a pretreatment of the sample) followed by a conventional assay, may be warranted. Determining true metal value in selected individual samples, then making adjustments to arrive at a procedure which can be certified by a market-acceptable lab, remains a goal of any further analysis. Normal leach by cyanide or thiosulphate-hydroxide of a bulk sample is a viable parallel course of action to better smooth out overall grade and indicate potential recoverability of noble metals.

Statement of the problems necessitating this investigation.

The data and procedural protocol was credible.

Data produced by AuRic Metallurgical Labs evidenced an ore containing Au in the general range 0.02-0.04 oz / ton; Pt in lesser quantities in the 0.005-0.02 oz / ton range; and Ag in the 0.1-0.4 oz / ton range. Ag was widely dispersed, with Au and Pt confined to narrower intervals. The method used by AuRic was not conventional, but was technically sound and the technology was documented in older analytical literature. Basically, a 5 gram sample was fused with sodium peroxide and potassium carbonate, leached, the solution neutralized and filtered, and Au Pt Pd Ag in the filtrate precipitated by Zn powder / collected with lead acetate, cupelled, weighed and parted, with Ag done by weight difference and Au Pt Pd by flame Atomic Absorption with background correction.

An independent lab (Wendell and Company – Michael J Wendell) evidently confirmed values on a small proof run in 2005, although values were said to be about 35% lower due to whatever circumstances, such as not using lanthanum chloride to aid in enhancing clarity of the target signals. Later research by MHS Research into the nature of the ore was aimed at developing an alternate method which could be verified at a market acceptable lab. This ongoing work appeared to be measuring Au, Ag, and the Platinum Group Metals (PGM or PGE) in quantities similar to AuRic via both lead fusion fire assay and nickel sulfide fusion. In late 2007 values seemed to be coming out of slag as well as the original fusion, which would evidence a refractory ore. There was still some question as to metal contributions from reagents used in the fusions and ongoing testing was expected to verify whatever was the truth.

Adding further credibility to AuRic data was demonstration of values from alternate techniques (such as cyanide leach in the presence of an oxidizer) which might be used in process recovery of values in the ore. These tests were also performed by AuRic on the same pulps used to test by caustic fusion. In looking at the data, it could be seen that there was no apparent evidence of contamination trains due to sample prep and handling. Source point contamination trains would have been evidenced by a descending or oscillating-descending train of values. There was also no evidence of a high reagent blank since quite a number of the values were zero in any given hole for a given element. When crudely plotting the down-hole data in two dimensions a geologically credible pattern of values for Au and Ag was evidenced. Further, there appeared to be two or three modes of occurrence as to Au Ag Pt ratios, with Ag apparently leached from some samples and building up down hole. This is typical of the geochemistry of Ag in the zone of oxidation, including in an iron skarn with layered lithological matrix chemistry. Ag may be leached from one zone and re-precipitated by either changes in acidity or by the chemical interaction with ferric-ferrous iron couples. [The simplistic generalization is that Fe+2 ion interacting with Ag+1 ion precipitates Ag with Fe+2 oxidized to Fe+3. The reaction is reversible, the direction depending on the Fe+2 / Fe+3 ratio in solution]. Ag in the oxidizing environment is complex, however, and may leach and move to a precipitation site by chemical attrition.

A third tier of credibility was added by the competent, professional field work of Dr. Clyde Smith which demonstrated a plausible host situation for a precious metal containing iron skarn.

There was also a report of three products from metallurgical study being viewed by a Bureau of Mines in Missouri. In this study a head sample, a magnetic fraction, and a non-magnetic fraction were assessed under a scanning electron microscope. No metal was seen in the head sample, but some metal was observed in the magnetic sample and considerable metal was seen in the non-magnetic sample. A bright, unidentified substance of high reflectance was also seen which was noted as possibly a platinum group metal.

There are some yellow flags and one red flag in the "prior to 2008" data

While all of the above data assessment seemed very positive, there were some yellow flags and one red flag. One yellow flag set had to do with two items in the AuRic data. First, this was a very large low grade Ag body which is unusual. Then there was apparent significant cyanide solubility by a quick shake test at room temperature of an ore that was deemed refractory. Added to this was the apparent reproducibility on a very small 5 gram sample. However, each "cautionary flag" above could easily be due to the character of the mineralogy. Certainly there *are* some large low grade Ag orebodies. We *do* have ores that for some reason are difficult by one method and amenable to another. We *do* have matrix situations where Au Pt Ag may be very fine-grained and very uniform.

AuRic's procedural / lab protocol write-up was very professional and credible. However, AuRic did not store their mentioned check and blank data, which could be due to a programming choice or whatever. But it makes one uneasy that it cannot be viewed now; we elect, until otherwise known, to take the lab's word that fused blanks, standards, and a high incidence of checks were carried through. In private investigation, a person who worked with AuRic for only one week said he did see a standard carried through the procedure, but did not recall a fused blank being used. This observation might be indicative, but is no proof of error.

The second yellow flag set was the observation that no metal was seen in the Bureau of Mines head grade sample; abundant metal was seen in the fractions after separation, and all of this metal was liberated except for one Au grain with matrix attached, and a large grain of high reflectance arsenopyrite. But... it is not uncommon when cutting a very small sample off of a low grade head sample to not observe grains of precious metal. The distribution of the metals in the fractions is very plausible and in keeping with the observed character of mineral emplacement on the property. It is also possible that the comminution (grinding) of the sample did effectively liberate all the metal grains. The "liberation threshold" is basically a matter of fineness of grind of the matrix vs. size of the metal particles. However, the clean separation of the metal particles did make me wonder if some contamination could have occurred during the processing work which produced the magnetic separations. The free particles do not point to contamination, but they open a moderate question as to the possibility. The samples are quite old and we do not know who made them (the Bureau?) or how they were made or where.

The red flag was the data set produced by ALS Chemex Labs in July of 2007. In this set of analyses, little or no Au was found by fire assay - ICP, by fire assay - gravimetric, by cyanide leach, or by nickel sulfide fusion. Pt Pd was also very low and Ag was not detected by fire assay or by wet procedures. Yet it was possible that there could be an explanation for each methods' failure. For instance, the sparse particle effect or nugget effect could have provided the lab with a sample that indeed contained very low values. A magnetite-hematite dominant sample could easily have passed through ALS Chemex' "Wonder Bread Factory" of a lab without being detected as a problem ore with a potential of slagging off appreciable values. (e.g.: Magnetite is amenable to fire assay, but if not specifically fluxed, a portion of values might be carried off with ferric iron. A good, clean lead recovery / silver inquart recovery would be deceptive as to an "acceptable fusion" and be passed by the uninformed lab technician). A number of ore occurrences are "refractory" to cyanide leach, especially if the time is short (or cut short by a hurried technician) or if there is some mineral phase which reacts to use up cyanide or to rob the pregnant solution or to catalyze dissociation (precipitation as a colloid) of the Au in solution. Magnetite in its pure form is also resistant to breakdown by an oxidizing acid attack such as used by ALS Chemex. Each possibility existed in the El Capitan samples, although one would expect some strong evidence of ore values, even if the values were low and inaccurate. The total report from the lab was a strong red flag, responded to by El Capitan leadership.

What about the composite samples used to attempt assessment of head grade?

The composite samples were professionally made according to the specifications of Richard Daniel, a competent metallurgical engineer. The compositing process followed a well-designed protocol. I do not have comment as to strengths or weaknesses of the handling procedures; the design on paper is proper and correct, but we did not see what happened to the sample in the equipment (and if this author were looking at the equipment processing the sample it is very possible that no problem would be visually evidenced). A problem is not intimated, but a small possibility of particulate segregation of dense, heavy metal or of inadequate blending does exist. I did note ARR-2 to have some residual grit in it, which is a sign of not being up to pulverizing specs. However, the fineness of grind was borderline positive as to acceptability (a common practice in labs), so it was included by me in the testing protocol. There are some other observations as to the composite samples.

RR-1 and RR-2 (phase one drilling) represented separate splits of one composite sample, pulverized at different times. However, RR-1 resided a year in a desiccator where oxidation and moisture gain would be retarded. RR-2 resided in a poly bag, sealed in a 5 gallon bucket. It was evidently oxidized, agglomerated by the moisture + chemical reaction and appeared different in character to RR-1. Whole Rock Analysis (WRA) and Trace Elements done by Neutron Activation, X-Ray Fluorescence, and Acid Leach followed by Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS) evidenced differences in the phase 1 sample (RR-1 and RR-2) in particular. Part of this would be from oxidation and destruction of carbonates / hydrated minerals; part would be from lack of homogeneity between the splits taken. For instance, RR-1 has about 35% Fe2O3 and 21% SiO2; RR-2 has about 85% Fe2O3 and 6% SiO2. The differences of that magnitude cannot be fully explained away by moisture gain, hydration, and oxidation-interaction with carbonates. The phase 2/3 sample was more uniform in character as seen in the trace element data. (It should also be recognized that some minor elemental differences may be due to the high Fe matrix effect on a particular method).

Any inhomogeneity of matrix would only be problematic if a sparse particle or nugget effect was unduly influencing the ores, or if the grade was very erratic between samples used to make up the composites. Nugget effect giving rise to inhomogeneity can and does occur in labs, but difficulties in data assessment is usually minimal to nil in samples of normal size for drill site sampling, especially in higher grade ores or in larger (1000g) samples that have been subjected to screen metallics analysis (See appendix). A nugget effect producing variance of 0.26 vs. 0.29 oz/ton is normally accepted by data processing people, but that difference of 0.03 oz/ton becomes enormous at the 0.01-0.06 oz/ton range. The coarser and less abundant the particle of precious metal, the more difficult it is to accurately describe low head grades of that target element. Most ore occurrences also have a significant "very fine" (micron) sized component which leads to smoother, reproducible values in low grade samples.

There was evidence of some sparse particle or nugget effect between the splits (See Mo and Au), although each split was fairly uniform within itself. Some very low level (5-30 ppb range) values for Pt demonstrated tremendous variance, *perhaps* due to sparse particle or nugget effect. Some variance is to be expected in many samples and is normally acceptable. My sense is that instrumental noise and resultant corrections occur in the less than 20 ppb equivalent (for a 30g sample) range.

Design of the Testing Protocol

In reading reports, reviewing procedures, and asking questions, a number of valid concerns surfaced. In as much as a 400g split of pulp would allow, a sample testing protocol was developed to address these issues and to work toward confirming (or re-stating) apparent head grade as evidenced by the content of RR-1 and RR-2 (phase 1 drilling sample composite) and ARR-1 and ARR-2 (phase 2/3 drilling sample composite). The testing protocol which this report covers was designed to progress toward answering the following 10 related areas of concern

(Numbered 1-10 in pages following). It is emphasized that whatever was really in the four (4) 400g splits of the composite samples is the sole basis for the data underlying the following answers to questions.

What was done

- (a) In a report of mineralogical and trace element / major element data commissioned separately by Daniele (Dec. 2007), 8 individual core pieces taken from splits which contributed to the composite samples, and also 1 composite sample (from phase 2/3 called sample #9, which was a cut of ARR-1, were analyzed by XRD for mineralogy. The same 9 samples, and 1 sample from phase 1 drilling (representative of RR-2) were analyzed by XRF for major and trace elements. The Mineral Lab, Inc. Report # 207927, 207933.
- (b) Parallel to this, phase 1 drilling composite samples RR-1, RR-2, and phase 2/3 drilling composites ARR-1 ARR-2 were analyzed for trace elements, Au Ag and Pt by wet analysis after ignition at 550 °C of a 15g sample. *Acme Lab Vancouver File # A800087*, A800086
- (c) Au and a trace element suite including Ag and Ir was analyzed by direct epithermal neutron activation of a 35-40 g sample. *Becquerel Labs # T08-000090*
- (d) RR-1 and ARR-1were submitted to SGS-Lakefield Research for Au Pt Pd and Rh by a caustic fusion followed by precipitation of noble metals by Te / stannous chloride, and analysis by ICP. Lakefield SGS # CA03061-Dec07
- (e) The suite of 4 samples and one control made from 1 part Au standard and 2 parts phase 1 drilling composite (RR-1) were subjected to a 24 hour cyanide leach using extra strength (2%) cyanide, a catalyst called Leachwell (a Pb-nitrate), and continuous rolling. *ALS Chemex # 08000020 Reno*
- (f) RR-1, -2, and ARR-2 were analyzed by fire assay ICP using a descending weight of sample (30g 15g 7.5g) paired with constant flux amounts, with flux component ratios specifically targeted to the known matrix. (At least, that was my instruction-request). *Various Acme Lab and ALS Chemex reports*

In addition, the 15g run included several controls, including two which represented a 33:67 ratio of control matrix: El Capitan composite matrix.

In addition to that, 3 re-runs of captured slag from the 7.5g slag were re-fused in succession by Acme.

In addition to that, in a separate run, each pulp sample was first subjected to (f-1) a carbonate – flour roast and (f-2) to a Na-peroxide sinter prior to fusing through fire assay.

(g) RR-1 and ARR-1, and the same samples after roasting with flour + potassium carbonate, were fused by MHS Research (Mike Thomas) and the resulting doré bead (using 20mg liquid Ag inquart) taken to Acme Lab and analyzed by ICP – ES after parting and leaching. Acme Lab # VAN08004302.1 of Feb 27, 2008.

All of the above analyses address some concern or possibility of error in routine data.

Questions and Answers

- 1. Are the phase 1 and phase 2/3 samples sufficiently homogeneous as to
 - (a) general character and mineralogy?
 - (b) target commodities Au Pt Ag?

Evidence from Data:

The individual samples used to make the composites were reasonably consistent as to elemental content, although some very evident mineralogical differences surfaced between samples. This is not necessarily a problem, although *it alerts one to potential homogeneity differences in any composite made from them*.

The sub-samples, taken by splitter from each composite, were reasonably consistent as to trace element content of the matrix within a given 400g split of the composites, although some variance between the duplicate splits did surface. That variance is marked for iron, calcium, silica, and L.O.I. between RR-1 and RR-2. There is evidence of some sparse particle or nugget effect in both drilling phase composites, particularly for Au and Mo. For data below 10 ppb each element we must remember a rule of thumb that confidence is 2 to 3 times detection limit, with values in that range usually being very close to repeatable, but not always the case. This is due mainly to instrumental drift or low level contamination carryover at any stage of the analytical process. So while we see considerable "evidence of sparse particle or nugget effect" in the very low level Au or Pt Pd data, my insight is that any number below 10 ppb might be that indeed, or might be "electronic nugget effect, especially for Pt Pd." Raw data is included in the appendix.

2. What is the total Au, total Pt, total Pd, total Ag content (+/- 15% of each metal) as evidenced by separate analytical approaches?

Evidence from data:

The Au is < 100ppb. Au is present from **7-8 ppb to 106 ppb** in the various samples. **Au in a given split is reproducible as to range by alternate methods from lab to lab**. This elevates my confidence as to what is in these four samples. It can also be stated:

The Pt is in the 0-300 ppb range

The Pd is < 100 ppb.

The Ag is in the less than 0.3 oz/ton – 10ppm (generally less than 4 ppm) range

[34.286 ppM = 1 troy oz / short ton; 0.0297 oz/tn = 1 ppm = 1000 ppb]]

Evidence from AuRic's caustic fusion points to significant values in many property samples, including ones from which the four composites were made. Could contaminated reagents have contributed an undulating amount of metal into the doré, punctuated by (a) occasional failure to recover any doré or (b) the impact of any standardization error or instrumental drift? Based on AuRic's statements of running a certified blank or certified standards every 10th sample, the possibility of ubiquitous reagent or other lab contamination was originally discounted by this author. The credibility support of alternate process techniques at AuRic (such as cyanide leach) applied to the same pulps seem to substantiate the caustic fusion values. Do we know for sure?

The caustic fusion process could add noble metal from reagents and lab ware. This should have been monitored by carrying a blank through the process on a systematic basis. Enhancement of a low level noble metal signal could make AA values read high, but very little such interference / enhancement should be evident when a clean noble metal bead is supplied to the parting procedure. The process could report low if any step of the fusion-to-wet-to-doré procedure is incomplete or interfered with chemically.

This is what was found in the Four Samples

Table of Noble Metal Values

Lab Method Weight (g)	Au (ppb) ase 1 Drilling	Pt (ppb) Sample RR-1	Pd (ppb)	Ag (ppm) Ir (ppb)
Becquerel Direct NA 38.1	25	N/A	N/A	<2 <50
Becquerel Direct NA 38.0	23	N/A	N/A	<2 <50
SGS - Lakefield caustic fusion	50	<20	<20	N/A <20
followed by Te ppt. – ICP 7.5				Rh is 20 ppb
ALS Chemex CN roll 30	60	N/A	N/A	N/A N/A
Becquerel NiS fusion - INA 20	13	<20	<20	N/A <1
ALS Chemex NiS fusion -	6 / <5 / <5	17 / 15 / 9	19/ 13 / 12	N/A <2
ICP/MS of July 2007 30?				Rh is 72 / 3 / 2
MHS Research NiS fusion -	67	207	59	
GF/AA 30	(34 to 128)	(86-324)	(32/100)	Rh ave. is 37
MHS Research FA - GF/AA 30	45	10	5	
Range $(x - y)$; population (x/y)	(27-90)	(<1-23)	(<1-19)	
ALS Chemex FA – ICP 30	33	<5	<5	N/A N/A
15	21	<5	1	
7.5	18	24	<1	
ALS Chemex Ag by ac leach 1	-	-	-	<0.5
Acme FA-ICP 30	26	<3	<2	N/A
15	17	<3	<2	
7.5	7	<3	<2	
Slag from 15g run	<2	<3	<2	
Slag from above slag	<2	<3	5	
Slag from above slag	<2	<3	<2	
After flour-carbonate roast 7.5	12	<3	6	
After Peroxide sinter 7.5	17	<3	9	
Wet after ignition @550 C 15	26	<2	<10	
Repeat 15	57	<2	<10	
Wet after mod. aq regia leach 15	26	<2	<10	0.13
Wet HCI / aq regia ICP/MS 5	31	<2	<10	0.16

Lab Method Weight (g) Au (ppb) Pt (ppb) Pd (ppb) Ag (ppm) Ir (ppb)
Phase 1 Drilling Sample RR-2

Becquerel Direct NA	37.9	7	N/A	N/A	<2 <50
-	38.0	5			<2 <50
ALS Chemex CN roll	30	<10	N/A	N/A	N/A
Becquerel NiS fusion – IN	A 20	7	<20	<20	N/A <1
MHS Research NiS fusion	and	-	-	-	
Pb fusion GF/AA did no	ot run				
MHS Research FA – GF/A	A 29				
ALS Chemex FA – ICP	30	22	<5	<1	N/A
	15	<1	<5	2	
	7.5	<1	19	<2	
ALS Chemex Ag by ac lea	ch 1	-	-	-	<0.5
Acme FA – ICP	30	8	<3	<2	N/A N/A
	15	<2	<3	<2	
	7.5	10	<3	<2	
Slag from 15g run		<2	<3	<2	
Slag from above slag		<2	<3	7	
Slag from above slag		<2	<3	<2	
After flour-carbonate	7.5	<2	<3	2 3	
After peroxide sinter	7.5	<2	<3		
Wet after ignition @550 C		5	<2	<10	
Wet after modified aq.regi		6	2 2	<10	0.08
Wet HCI / Aqua Regia – IC	P/MS 5	4	2	<10	0.10

Lab Method Weight (g) Au (ppb) Pt (ppb) Pd (ppb) Ag (ppm) Ir (ppb) Phase 2/3 Drilling ARR-1 <50 Becquerel direct NA N/A <2 34.1 23 N/A 34.1 24 <2 <50 SGS-Lakefield caustic fusion 30 <20 <20 N/A N/A followed by Te ppt - ICP 7.5 **ALS Chemex CN roll** 20 N/A N/A N/A N/A 42 <20 <20 N/A Becquerel NiS fusion - INA 20 <1 MHS Research NiS fusion 164 37 61 followed by GF / AA 30 (29-106)(43-315)(9-80)MHS Research Pb - GF / AA 30 54 11 4.5 (35/65)(1-29)(1-13)ALS Chemex FA - ICP N/A N/A 30 17 6 1 15 <5 <1 31 7.5 13 <5 <1 ALS Chemex Ag by ac leach <0.5 1 Acme FA / ICP 18 3 4 N/A N/A 30 15 26 <3 <2 7.5 14 <3 <2 Slag from 15g run 5 <3 <2 Slag from above run <2 <3 3 Slag from above run <2 4 <3 After flour-carbonate 7.5 <2 4 <2 After peroxide sinter 7.5 14 <3 18 Wet after ignition @550 C <2 15 15 <10 Wet after mod aq regia 15 22 2 <10 0.50 Wet HCI / aq regia ICP/MS 14 3 <10 0.38 1

Lab Method Weight (g) Au (ppb) Pt (ppb) Pd (ppb) Ag (ppm) Ir (ppb)

Phase 2/3 Drilling ARR-2

		Hase ZIS DITH	iiig Aitit-E		
Becquerel – Direct NA 3	6.3	84	N/A	N/A	<2 <50
36	3.3	73			<2 <50
ALS Chemex CN roll	30	60	N/A	N/A	N/A N/A
Becquerel - Ni S fusion / INA	20	73	<20	<20	N/A <1
MHS Research NiS fusion and	ţ	-	-	-	
Pb fusion GF / AA did not run					
MHS Research FA – GF / AA	29				
ALS Chemex Labs FA – ICP	30	Spilled	Spilled	Spilled	N/A N/A
	15	73	<5	<1	
	7.5	58	<5	<1	
ALS Chemex Ag by ac leach	1	-	-	-	1.1
Acme FA - ICP	30	81	<3	3	N/A N/A
	15	61	<3	<2	
	7.5	77	<3	<2	
Slag from 15g run		<2	<3	<2	
Slag from above run		3	<3	<2	
Slag from above run		4	<3	<2	
	7.5	55	<3	2	
After peroxide sinter	7.5	81	<3	21	
Wet after ignition @550 C	15	56	<2	<10	
repeat		61	<2	<10	
Wet after mod aq regia	15	77	<2	<10	0.51
Wet HCI /aqua regia – ICP/MS	5	51	<2	<10	0.64

Key to Methods:

Direct Neutron Activation (DNA) is epithermal radiation of a raw sample pulp

CN Roll is rolling a sample with 2% Na-cyanide solution for 24 hours, the reaction of which is catalyzed by 0.5% Leachwell Reagent 60X (a Pb nitrate) and 0.03% Na-hydroxide.

Caustic Fusion followed by Te ppt is fusion with Na-peroxide @ 700 C, followed by precipitation with Te catalyzed by stannous chloride; the precipitate is filtered and dissolved in HCl for measurement by Inductively Couple Plasma Emission Spectroscopy.

FA – ICP is a Pb-fusion fire assay using liquid Ag nitrate, followed by aqua regia leach of the doré bead in a microwave, followed by measurement by Inductively Coupled Plasma Emission Spectroscopy.

After flour -carbonate is a roast of the sample by a mixture of flour and Na-carbonate, followed by the fire assay protocol above, attempting to alter flux to compensate for the roast matrix

After peroxide is a sinter of the sample with 1:1 Na-peroxide, followed by the fire assay protocol above, attempting to alter the flux slightly to compensate for the sinter matrix.

Wet after Ignition at 550 ° C is an aqua regia leach of a sample that has been roasted raw (ignited), using a 15 g sample weight. This is followed by ICP / Mass Spectroscopy measurement.

Wet after mod aq regia is a sample that was not ignited, but was leached by 1:1:1 nitric:hydrochloric:water for 1 hour at 95 ° C. This is followed by ICP / Mass Spectroscopy measurement.

Range (such as 1-13) is range of values in ppb; population is recognition of two predominant populations of values (such as 35 / 65). It is not valid in the small scale to average various pre-treatments and varying weights, but in the overall reporting venue, it is indicative to report an average for M.H.S. Research values. Details of the differences between methods / pre-treatment procedures can be studied by viewing their report of March 02, 2008. As the values are all too low to draw firm conclusions from (since sparse particle effect and instrumental drift also contribute to differences), I have stated a provisional average. In some cases, a "no button" fusion or evidence of a problem in the data caused a value to be dismissed. Some values represent the sum of a fusion and re-fusion of one slag run.

Table of Control Sample Values
Au (ppb) Pt (ppb) Pd (ppb) Ag (ppm) Ir (ppb)

Table of Control Sample Values					
•	/t. Au (p		o) Pd (pp	b) Ag	(ppm) Ir (ppb)
(Method)	(accepted	d value)	T	1	
Becquerel GR-1 (DNA) 47	8	-	-	<2	<50
(Accepted value)	(6-12)	(5-15)	(35-55)	(0.3)	(<5)
Acme FA – AA 15					
	9	12	51	-	-
Becquerel RD-22 (DNA) 43	41	-	-	<2	<50
(Accepted Value)	(40-75)	(85-250)	(200-500)	(1.4)	(<5)
MHS Research Ni S Fusion/ +slag	16 / 55	243 / 267	491 / 557	0.1	
FA – GF / AA	34	387	540	<1	
ALS Chemex FA – ICP 15	47	95	441		
Acme FA – ICP 15	39	116	419		
Becquerel Au 90-3 (DNA) 37	739	-	-	73	<50
, ,	(700-830)	1600-1700	(380-450)	(68-78)	-
ALS Chemex FA - ICP 15	776	1620	438	-	_
Acme FA – ICP 15	742	1655	401	_	_
Becquerel Au 90-1 (DNA) 41	4820	_	_	<2	<50
Booquoi oi 7 id oo 1 (B1171)	5900-6900	(5-15)	(0-10)	_	-
M.H.S. Research Pb fusion GF/AA	7218	<5	<5	_	
ALS Chemex FA – ICP 15	6450	11	6		
Acme FA – ICP 15	6516	5	<2		
Becquerel STIL 30	357		-	<2	20
STIL	(300-450)	3500-6000	14-19 ppM	_	3) (17-23)
	133	1667	5667	<2) (17-23)
2 parts RR-1: 1 part STIL calc. MHS Res. Ni S fusion 2RR-1:1 ST	138	1568	5970	<2	
WITIS Res. IN 3 IUSION ZRR-1.1	130	1500	3970		
ALS Chemex FA – ICP 15	360	6000	17 0 nnM	_	-
	390	6000 4928	17.8 ppM	_	-
			>10 ppM	40	4F0
Becquerel 2RR-1: 1Au90-1 28	*1660	-	- 440	<2	<50
AL 0. Ob assess	*(2050)	<10	<10	(<2)	(<50)
ALS Chemex 15	*1610	9	10	<2	-
Acme 15	*1586	4	7	(<2)	-
				_	
Becquerel 2ARR-2: 1 STIL 30	170	-	-	<2	8
	(170)	1220-2010	4675-6330	(0.7)	(7)
ALS Chemex 15	157	2180	5420	-	-
Acme 15	185	2078	6176	-	-
Becquerel SARM-7b 20	270	3800	1500	N/A	79
(Accepted value)	(255-285)	3690-3790	1500-1590	0.42	(75-105)
MHS Research NiS fusion	278 / 289	4210/4287	2397/2276	0.1	
MHS Research NiS fusion + slag	347 / 316	4333/4438	2548/2380	0.2	
MHS Research Pb fusion GF/AA	#	#	#		
(Sample GXR-2)	N/A	N/A	N/A	(15-20	ppm) -
ALS Chemex Ag by ac leach 1				16.4	
Acme Ag by aq regia leach 15				13.9	
Acme Ag by HCl + aq regia 5				18.4	
MHS Research not given sample					
PTC-1a concentrate standard	1310	2720	4480	56	
M.H.S. Research NiS fusion	1312	2961	3805	27.9	
MHS Res NiS fusion + slag re-run	1541	3048	4080	28.4	

Notes on Controls:

GR-1 / **GR-Pt** is a low level sample of mineralized Duluth Gabbro always reporting in the specified range.

RD-22 / **RD** is an intermediate level sample of mineralized Duluth Gabbro always reporting in the specified range.

Au 90-3 or Au93-1 (my transcription error) is a standard sample for Au prepared by Dr. Wes Johnson of BC Dept of Mines / Bondar Clegg.

Au 90 -1 is a standard sample for Au prepared by Dr. Wes Johnson.

STIL is a standard sample of Stillwater JM zone always reporting in the specified range.

2RR-1: 1 Au90-1 is a weighed composite of 2 parts RR-1: 1 part Au90-1. (direct weight)

ARR-2:1STIL is a weighed composite of 2 parts ARR-2 : 1 part STIL. (direct weight)

SARM-7b is a government certified standard for noble metals, especially PGE, from the Union of South Africa.

GXR-2 is a certified USGS standard for Ag, base metals, and trace elements from Utah. **PTC-1a** is a Canadian Government Cu Ni concentrate standard. The median published value is stated as the acceptable value.

NOTES...

- Mixture of a 6000+ ppb standard with 2x the El Capitan high mag-hematite matrix apparently causes some depression of Au values (15-25% loss) when run by fire assay; however, in the case of neutron activation, there is no depression from the standard value as reported on this run. Conclusion: possible depression by the El Capitan high iron matrix exists for routine fire assay; the same data would say it is probable that the major portion of Au values still reports to the data.
- In El Capitan: standard matrix mixes, M.H.S. Research values indicated little Au Pt loss / depression of values by NiS fusion; for Pd there was an approximate 25% loss for both the RR and ARR matrix mixes.
- Ir values below the 50 ppb reporting limit for DNA by Becquerel were reported verbally for STIL and the mix of STIL with the El Capitan matrix.
- Values on lower weights (7.5 g etc.) used for fire assay procedures could have any crucible or systems contamination and / or background noise (drift) from instrumentation enhanced by an up to x 4 calculation factor. I.e., a procedure that is anchored by say a +/- 2 ppb detection limit and by rule a +/- 6 ppb worst case level of confidence on a 30 g sample might be +/- 8 ppb detection limit and +/- 24 ppb confidence on a 7.5 g sample. Fortunately, instrumental endpoints are quite sensitive and the detection limit reported is an overall systems confidence, thus enabling labs to report the same detection limit for smaller weights. A lower sample weight to active flux ratio may work to advantage in liberating small amounts of noble metal atoms trapped in a refractory matrix.
- In the careful work done by M.H.S. Research 15 g sample weights generally reported higher values than 30 g weights, leading to an indication that matrix is better attacked by a higher flux to sample ratio. There was no clear indication in the other labs data. A flour-carbonate roast seemed to enhance recovery of values overall, but values still reported in the 100 ppb Au range and < 50 ppb Pt Pd.
- Many slag re-runs by M.H.S. Research demonstrated a significant % of the metal
 was retained after an initial fusion. However, in most cases it was less than 10% of
 the total and in all cases above 100 ppb, there was no evidence of slagging off of
 more than roughly 10% of the original values. Below 100 ppb, some sample runs did
 evidence a significant % of loss to slag.
- # (Something is wrong here with the standard value so it is not reported as being
 indicative... maybe a tired old man transcription error. As this is read let us also look
 in the mirror). I have also noted the standard Duluth Gabbro to have the Au Pd
 values reversed. After careful inspection, there are no errors of significance.

3. There seems to be evidence of other Platinum Group Elements (PGE) or (PGM) Platinum Group Metals in the deposit, such as Ir, Rh. Can this be confirmed? If so, are they interfering with Pt determinations? If present, what is the initial indication of grade?

Evidence of the data:

Pt, Pd, and other PGE are analyzed to sensitive ppb levels and with reasonable accuracy by a nickel sulfide (NiS) fusion using neutron activation or ICP-MS endpoints in the mining analytical industry (Au is also analyzed, but may not be accurate). Au in the amount of 0.006 ppm, Pt and Pd of 0.2 ppm, Rh of 0.7 ppm and Ru of 0.2 ppm were seen in one sample, and Pt Pd Rh were observed in a succeeding sample in the "red flag" run by ALS Chemex of July 2007. It is possible that the values are genuine (see this author's report of Dec 2007), but are suspected (gut feel based on experience) to be enhanced by systems contamination. Genuine or not, these values were quite low. Values produced in a run by Becquerel Labs did not evidence any PGE over 0.02 ppm. Rh was analyzed at M.H.S. and reported up to 83 ppb (generally <50).

Ir was also specifically checked for by direct neutron activation without any chemical processing. The standardization was also checked at my personal request. The procedure, when using the large 30-40 g sample that we provided, reports Ir to +/- 50 ppb, but in our samples could see down below 10 ppb. A verbal insight about the ARR-2: STIL control sample evidenced only 8 ppb, which agreed with the 20 ppb in the STIL sample when cut with the 33:67 % STIL:ARR-2. The bottom line is that there is less than 3 ppb Ir in the ARR-2 sample.

Should Ir have been present, as was thought to be the case, its natural habit is to occur as a Ir-Os alloy or as a Pt-Fe-Ir (and minor other PGE) alloy. The latter is a concern to liberation of all Pt values in any Pt assay without a knowledgeable custom approach. The reason for concern is that Ir-alloy nuggets can resist complete breakdown in fusion; Ir forms intermetallic compounds in cupellation; and Ir is only very slightly miscible in Ag prills in the final stages of cupellation. For the samples provided, there is no concern that any PGE is interfering in the assay recovery of Au Pt Pd.

4. How is the Au Pt (Pd) Ag likely to be occurring?

Evidence of the data:

The low levels subject insights to the realm of generalized conjecture. However, same may be of value.

Magnetite is known by geochemists to be a "sop" for mineralizing fluids active during the formation of the magnetite. Elemental values for Sn, Zn, etc. up 1%; Au Ag Cu up to several ppm; and Ti Cr are common "impurities" in magnetite rock. Au is normally as free Au along grain boundaries, with only very low content occluded in matrix crystals; Ag is often bound up with magnetite during its emplacement or during its oxidation into iron oxide-rich weathering products. The magnetite from RR-1 was noted by XRD as having Cu Zn Ni Mg Cr content. Some of the Ag might be bound up in magnetite; some Ag might be in hematite precipitates; some might be with Au as electrum noted by the Bureau of Mines report; and some might be associated with elevated contents in host rock. Au is likely to be free Au metal (or electrum if there is an overprint event to the skarn processes). Pt Pd can occur with hydrothermal overprints as odd minerals or as occlusions in secondary minerals like plumbojarosite. If Ir were found in any quantity it might occur as segregates of ferroplatinum alloys or Ir-Os metal segregates in ultrabasic dykes cutting other mineralization. Rh can occur as rhodian Au or in a PGE-Fe alloy.

5. Is the Au Pt (Pd) Ag potentially cyanide soluble as outlined by AuRic data?

Evidence of the data:

The cyanide leach on this report was done before any other analyses were complete. When data is compared, it confirms majority solubility of Au mirroring the amounts of total Au in the other procedures. It also demonstrated that the high Fe oxides in the phase 1 drilling composite was not absorbing or interfering with or preventing the cyanide leach of Au. Later studies might evidence some percent insolubility on (1) other matrices, or (2) when cyanide is applied under different parameters or strengths. AuRic data also evidenced a favorable % solubility.

6. It is attested that the ore matrices at the El Capitan deposit may be refractory, demonstrating problems in both fire assay and acid leach. Can this be confirmed? It is attested that carbon (C) on sample surfaces from another property caused direct neutron activation results to be grossly low. Is this true?

Evidence of the data:

It is a known fact of pyrometallurgy that if ferric iron remains in a melt that it can carry off some of the noble metals into the slag phase; other components can cause incomplete melting or incomplete phase separation, leading to low values. An apparently clean, ample lead separation caused by the high reducing power of magnetite can mislead a technician into thinking the fusion is acceptable when appreciable losses have occurred. Phase 1 drilling in particular encountered a number of high magnetite samples. Was this a cause for low values in fire assay? In addition, a fairly pure magnetite, when first treated with an oxidizing acid, may not release elements occluded in its matrix during an acid leach procedure.

To test the fire assay refractory question, samples were chemically identified so as to leave out most of the empirical approach to fire assay science. Then samples were fire assayed with a constant amount of flux specific for each sample, using a descending (30-15-7.5 gram) weight, on one control run, so as to minimize inter-batch bias. As earlier data suggested pretreatment might liberate more metal when subjected to fire assay, two pre-treatment approaches were also tested on a 7.5 g sample. To answer a question about values being retained in the slags, due to ferric iron and some other unknown, one sample was selected and the slag re-run 3 times. As the Au Pt Pd content of the sample was very low, a clear picture of the refractory nature of the samples could not be documented, but we can say with utmost confidence that in the four (4) samples tested that there is not any Au Pd over 100 ppb. It is not in the assay; it is not in the slag; and it is not in the environment. There may be Pt occasionally reporting up to 300 ppb.

In addition, when the El Capitan iron-rich or carbonate-silicate rich matrices were added to a known control sample in a 2 parts El Cap to 1 part control sample mix, there was no loss of value from the standard by direct neutron activation. In the fire assay test, for the iron-rich sample only, there was loss of Au in the 15-25% range. This data is based on one only fusion in each lab and because of that is a shaky "conclusion." The El Cap matrices were not interfering with Au recovery by neutron activation, but the iron-rich phase may be contributing to a partial loss of Au by routine fire assay, as expected. My sense is that fire assay, when properly fluxed, should not be more than 15% low at the worst. Even if the Au were 30% low, the data would be 70% of true value (i.e., an 0.04 oz / ton Au would return data of 0.03 oz / ton, or close to that, but not zero). One item that surfaces is the *value of composites which include an El Capitan matrix with a standard sample*.

To overcome a potential underestimation of the Ag content by acid leach of a high magnetite sample, one lab (Acme) agreed to run the samples a second time, commencing the acid attack with a pre-leach by concentrated HCl to incipient dryness, followed by the normal oxidizing acid procedure for a reliable wet Ag assay. There was some increase in trace element and Ag data when using this procedure, but in the case of Ag all amounts were in the < 1 ppm range. M.H.S. produced higher values when starting with excess HF before normal treatment.

It was thought that in routine cyanide shake tests that Au or Ag might be retarded from going into solution or reacting in solution with the El Capitan matrices. Addressing this issue

thoroughly at lesser strengths of cyanide or at lesser reaction times was not done, but two data points are clear: (1) what Au is present in the four samples can be leached by cyanide solution, and (2) the high iron oxide matrix is not apparently retarding release into, or retention by, the cyanide solution. It is also noted that AuRic studies showed Au Pt to be leached fairly efficiently during 1 hour shake tests at room temperature. Values on the four samples were too low to project a "cyanide soluble" conclusion to other property samples.

Regarding the influence of carbon (C) on direct epithermal neutron activation data, the technically correct answer is that even % range carbon from bitumen, humic compounds, or carbonate does not depress Au readings. As a corroborating statement, note that Au in soils and organic muck and bitumen has long been measured to sensitive levels by this procedure, having a long track record of scrutiny by the geochemical community.

7. Is the NiS fusion approach a preferred method of analysis for (a) the mag-hematite rich portions of the El Capitan occurrence? Or (2) the lower iron oxide portions dominated by hematite coatings in carbonate-silicate matrices?

Evidence of the data:

To date NiS fusions have not evidenced high enough values to answer the question. NiS fusions suffer from the chemical constraints of pyrometallurgy the same as lead fusion fire assay, although some of the chemistry is of course different. In that all commercial laboratories provide a disclaimer for the Au data, we can say that this is not a preferred method for Au or Ag. It is a preferred approach for low levels of some PGE and could be employed by El Capitan to test composites or selected samples for total PGE. It is not generally considered by the industry to be superior to Pb-fusion fire assay for Pt Pd. Both procedures require intelligent application. It is also a \$70-\$120 / sample analysis and is slow to produce data sets in most labs. Repeated MHS assays may show up to 300 Pt ppb in samples that do not show by Pb fusion fire assay. This is unusual.

8. Is there any corroborating elemental evidence of a secondary-to-the skarn-event? If so, is there any elemental evidence of mineralogy which might potentially interfere with future analysis and future process leaching?

Evidence of the data:

The trace element data suggests an Fe-Mo-U-Ca(Sr) rich skarn and not a precious metals skarn (such as described by BiMoAg or AuCuAsW or AuAgTeAs... along with Fe-Ca). While a hydrothermal overprint event, or oxidation enrichment / change of the deposit may be in evidence, there is not trace element evidence (in the 4 samples) to suggest a precious metals bearing skarn. However, the presence of Au-Mo and minor As-Ag does document movement of a solution containing these elements. The U would be mobilized probably from the driving source of the fluids and the Ca(Sr) of course from mobilization of host rocks to the fluid migration. These are very generalized descriptions of what this author sees in the limited data of four composites, and are not to be construed as a professionally produced, or conclusive model, as to what happened at the El Capitan mineralized occurrence.

Au Ag is not occurring as a Bi or Te mineral compound, which could influence some analytical approaches or process approaches. High carbonates might influence some test tube acid leach approaches by consuming reactive acid or by boilover, both leading to low results. There is not a significant interfering element such as Cu. The high iron oxide, high calcium carbonate, and significant calcium-magnesium silicates might need to be addressed in process metallurgy. There is not an element in quantity, except for iron, that would need major consideration as an environmental hazard. There was no indicative, unusual SW or LW fluorescence.

9. The M.H.S. data

Evidence of the data and comment:

M.H.S. Research is performed by two competent and honest persons. The quality of their fusions and cupellations is impeccable. *Please see the notes under tables of sample and standard values*. I also note some generalizations.

- Sample splits that were kept from oxidative-moisture reaction in a desiccator appear to
 give up more metal to the fusion procedure than samples that have been kept in a poly
 bag in a bucket over several months, even if moisture is driven off at 105 °C. Perhaps, if
 this holds true as initially indicated, there is some compound formed that helps to catalyze
 polymerization during the fusion, resulting in early slagging off of some values. This is not
 a conclusion, but an open door to be considered.
- Pt Pd data is higher by NiS fusion than by Pb fusion. It is likely that this direction of bias between methods is correct, but I also note that Pt at M.H.S. seems to be on the high side of acceptable range for standards tested. Is this evidence of better recovery than the median reported by other labs(?) Or is this evidence of some GF/AA enhancement in the low range(?) Blanks fused and run with the samples did not evidence contamination or false signal contribution.
- Ag values, when done by wet acid attack particularly if the initial attack is a strong reducing acid attack are significantly higher than by corresponding wet acid attack at Acme or Chemex. I do not know right now if the difference is due to low level energy calibration at M.H.S. or due to failure of the chemical attack / retention of Ag in solution at other labs. The neutron activation Ag is + or a few ppm, so this procedure cannot indicate truth at this level of Ag.
- A caustic-reducing roasting pre-treatment seems to benefit low level metal recovery, as is technically predictable for some refractory matrices such as the spinel family. Yet on the two samples (RR-1 and ARR-1) subjected to the methods study, values in the rock were not high enough to give clear indications of consequence to economics.

In order to eliminate this author's uneasiness over potential contamination from any part of the endpoint procedure at M.H.S., beads produced by M.H.S. were taken to Acme Lab and run by ICP-MS. Values were low... in fact they were 20-30 ppb lower than expected from previous analysis, or from M.H.S. data. It is believed that Acme's new lims system overcorrected for background noise on the instrumental measurement or some values were not thoroughly eluted from the larger than normal Ag bead during digestion. There was no evidence of Au Pt Pd above what is listed in the tables of values, with or without pre-roasting with flour and potassium carbonate.

10. What are the next steps to establishing head grade and going forward?

Evidence of the data:

If noble metals exist in quantity they are not in evidence in the four (4) only composite samples, as evidenced by analysis of the 400 g splits, which generally repeat as to range at more than one lab by more than one method. If was this my investment, I would want to affirm that either:

- (a) the four samples were a negative anomaly and that AuRic data is close to correct, or
- (b) there is something systematically wrong with Auric data, or of caustic fusion data finished on an AA instrument.

In my opinion, a giant stride toward determining the truth would be to analyze about 75 samples, consisting of 40 raw field splits never prepared by AuRic or anyone else (Core splits might be preferable); 10 pulps which AuRic produced good values on; the 10 rejects corresponding to those AuRic pulps; and about 6-8 controls (including blanks). A worthwhile addition would be to

also analyze 2-5 of the rejects (preferably) from the reconnaissance work to the east and west of the El Capitan pit, which samples produced exciting data by caustic fusion. The points below include analyses by AuRic Labs, which I understand is not going to happen, so we will have to make adjustment. But I would like to go ahead and publish the ideal. This is what I would do with the samples:

- (a) produce 700-900g pulps (-200 mesh / -75 microns) in a "process clean" lab using a ring and puck or saucer type grinding procedure after crushing all the sample to -10 mesh and splitting out 600-800 grams for pulverizing. Retain a library split of pulp, and reject if possible.
- (b) Re-submit the 10 AuRic pulps and rejects as 20 pulps, plus about 10 of the raw field samples now made into pulps, along with about 4-5 controls to AuRic for the exact cyanide soluble test they produced original data on before. A more expensive option and / or addition would be to also ask them to produce data by caustic fusion. Going from a single 5g fusion to 6 x 5g = 30g would move forward statistically in addressing nugget effect, but might change the sample to reagent balance deleteriously.
- (c) Submit the entire suite of about 75 samples to Becquerel Labs for their Au+33 analysis using a large (30-45g) vial. This will be a total Au Ir and Ag. The Au Ir in these samples should be accurate and represent an alternate non-chemical approach which would be expected to describe the total Au in the samples with confidence. The Ag should be weakly descriptive (+/- 5 ppm); trace elements reported are all in the same price package and will be potentially useful.
- (d) Submit the same entire suite or a smaller suite to Acme for their wet 15 gram Au Pt after ignition. I think they might also run Ag off of this larger (pre-treated by heat) digestion; I know they could... I would have to find out.
- (e) Run the same entire suite or smaller suite for Au Pt Pd by fire assay ICP at ALS Chemex or Acme, hopefully <u>identifying high magnetite / high carbonate samples</u> beforehand.
- (f) Run selected samples or composites made by weight to ALS Chemex-Reno for large sample cyanide leach, perhaps using Leachwell reagent. At any rate, I like the idea of using a large sample to smooth out sparse particle / nugget effect and a 24 hour leach to make sure we are not underestimating a slow reacting sample matrix. Alternate bench scale "bulk" leach tests designed by Richard Daniele and Mike Thomas, in consultation with the El Capitan group, should be considered to both smooth out sparse particle effect and to indicate economic viability.
- (g) Run a few doré beads produced by Ahmet at AuRic. This might not be accomplished for several weeks, I suspect.
- (h) My sense is that some samples should be run by caustic fusion, mainly to satisfy the questions about this somehow being a superior approach. I understand that a small lab in Vancouver can do this as well as AuRic. It is worthy of note that SGS-Lakefield's data on RR-1 and ARR-1 was essentially a modified "caustic fusion" approach with a + or 0.02 ppm (20 ppb) level of confidence (but if using the 3 sigma rule for confidence at detection limit one would increase this to + or 60 ppb, which would be + or -0.0018 oz / ton).

Important note post to the above recommendation:

A meeting with a group of competent, credible, professionals with a track record of integrity was held in Vancouver. This group represents Muddy Creek Gold, Inc. They have a property in Nevada which was submitted to AuRic for analysis and to many other labs for conventional analysis. After many difficulties surfaced, they developed their own fusion – precipitation – doré procedure, allowing them to independently produce values on mineralized samples that did not report well to fire assay. They have also produced Au from a thiosulphate – sodium hydroxide leach of a 500 kilogram sample from the same sample location. It seems necessary to verify a procedure similar to that used by AuRic: Does it or does it not produce real noble metal values

<u>that can be reproduced under the guidelines of scientific measurement?</u> Technically the procedure is sound (the technology has also been around for a long time), although the process should be subject to reporting low if technique is not rigid and time temp parameters are not exacting. It is possible that El Capitan could work on a minimal joint investigative protocol, building on the significant months of research already done by Muddy Creek technicians.

I heard a strong consensus that AuRic would not work with people wanting to use another lab or who would question their data. This throws a monkey wrench into my recommendation above. If we cannot establish the credibility or find an error source (such as measurement enhancement or contamination), or expose an erroneous concept regarding AuRic's values, then we will need to do the next best thing regarding the important conclusions about the supposed superiority of "caustic fusion." That would be to adjust the recommended protocol (a-h above) to include some Muddy Creek samples, with more emphasis on a selected pre-treatment that could be then folded into a conventional, market-acceptable procedure. However, it is still believed that conventional procedures will evidence Au (Pt Pd Ag) if that metal is there, even if an alternate exotic procedure may be proven to give higher values.

What will this second round of testing do?

If we have erratic or confusing data from the test runs, due to lab problems or due to sparse particle or nugget effect, conclusions will be more difficult. However, we hope to shed light on the subject as follows:

- (1) Can AuRic (or the Muddy Creek Lab) re-produce values on original pulps, rejects of those pulps, and new raw field splits of the same interval while passing test on true blanks / low level standards?
- (2) If for instance, values are positive in all samples, *including the blanks*, we can point toward a reagent or universal lab contribution to values.
- (3) If fused standards and fused blanks report accurately, but *samples report significantly* positive, then we have credence for the efficacy of caustic fusion.
- (4) If the values come back *high for the original pulps and rejects only* we would then sense there may be a problem with contamination or salting of the original samples.
- (5) If data comes back high on the original pulps only, the focus is on those pulps only. If this were the case, we would suggest a prep lab or furnace problem at AuRic.
- (6) If a non-chemical process such as neutron activation obtains corroborating values, or even good values, but a fire assay lab does not, we know we have a fire assay lab problem.
- (7) Data produced by a pre-treatment procedure or fusion-precipitation-doré procedure may evidence some problem with a conventional method, especially if <u>duplicate beads</u> from the procedure (including blanks carried through the entire procedure) can be verified at an outside lab. Data from a mini-bulk sample or samples, when subjected to cyanide or thiosulphate-hydroxide leach, may also prove the existence of noble metal. I note that a bulk leach approach was recommended by me as a desirable second step, prior to this round of testing / reporting.

The recommended protocol could be cut down at this point in time, especially if the group is wanting to focus attention on proving the efficacy of alternate techniques (caustic fusion AND bench scale "bulk" leach) along side of proof by conventional techniques. Right now, a significant limitation is the availability of a lab and personnel to run a peroxide-hydroxide fusion technique. Whatever is done should be done in consultation / agreement with those making decisions and giving input. We should not just "run a few samples," at least not without selected sample purpose and control samples. The output of the Muddy Creek Lab is about 6 samples per day, using a two day process. We might get them to run 12 fusions accommodating 9 samples and 3 controls. If values are erratic, we are still spinning our wheels, but if values are clearly indicative, we have made a giant stride forward.

Finally, data from separate approaches to analysis such as [Direct Neutron Activation – Fire Assay-ICP – wet acid leach after ignition – and peroxide-hydroxide fusion... to doré] should evidence a clear pattern of truth-in-analysis and if there is agreement, to establish head grade. The givens here are that we have a sufficient quorum of samples (perhaps someone who is statistically inclined should check this), AND that we are using 15 to 40g samples.

Insights as to Cost

Lab expense of all of the above (any bulk testing or bench scale "bulk" testing is NOT included) would be about \$5900 plus whatever AuRic or any other caustic fusion lab charges (perhaps an additional \$3900-5900???, depending in part on sample size). One reason a peroxide sinter, or a caustic fusion employing Na-peroxide, is expensive is that Na-peroxide alone costs about \$1 / gram when you can get it, and its' shelf life is only moderate. Using a large sample is very difficult because one has to either use small samples in standard zirconium, nickel, or iron crucibles or use a larger crucible that may either be very expensive or not accommodate the nature of the fusion.

Personnel and Logistics will add money to this testing protocol. My wild guess is \$15,000 - \$25,000. Ken Pavlich and your administrative people can estimate this much better than this author. I note it just to insure all decision input is financially realistic.

Consulting expense from me could be minimized, depending on your needs. I should be able to assist you from home for most items except to view or discuss a procedure with a critical person.

Conclusions

The four (4) splits of composite samples provided as 400g cuts do not evidence economically significant amounts of any noble metal. The fact that Au values are reproducible as to range from lab to lab and procedure to procedure (and that Pt Pd Ag values are uniformly low) lends strong credence to this statement. The potential exists that these composite samples, in spite of being professionally and correctly made, do not accurately represent what is in the ground (Au Pt Pd Ag Rh Ir) as evidenced by drilling. That potential is slim in my estimation, but real, and should be addressed.

We hope that the data from a larger sample set, and from confirmatory testing, reverses the findings from the four samples representing two composites of the drilling phases. Bulk leach (with appropriate blanks and standards) and / or caustic fusion procedures may encourage the project by proving recoverable noble metal values sufficient to continue exploration.

If the lithological horizons sampled by drilling do not contain significant precious metal values as demonstrated by this second set of testing data (to come), it is expected that it would be difficult to justify continuance of the project except to test new exploration ideas. Whether or not I am involved, I do believe due diligence demands further testing that is thorough. Normally all questions or open loops are not completely addressed by data sets. However, I believe that sufficient data will emerge from this proposed round of testing to either go forward or to "fold the tents." I sincerely hope the path toward confirmation and profit is the conclusion of the matter.

The serious nature of this testing is not underestimated. A defensible protocol and data set, for whatever direction the project goes, is necessary for all persons concerned.

Ken G. Bright, Geol. E. Senior Geochemist – Retired Charter Member (Retired) – Association of Exploration Geochemists Licensed Geologist #1313 – State of Washington

Appendix 10

Noel Palmer Metallurgical Review Report

Review of Metallurgical Research El Capitan Project Capitan, New Mexico

10-16-09

Prepared for

El Capitan Precious Metals Inc.

5225 N. 49th St. Scottsdale, AZ 85254 480-451-874

Prepared by

Noel Palmer, Ph.D.

Consulting Geochemist 323 North Lincoln Moscow, ID 83843 208-310-0552

David S. Smith, MS, MBA

Consulting Geologist 3803 NE 120th St. Seattle, WA 98125 206-390-2575

Introduction

In 2007, El Capitan Precious Metals Inc. (ECPN) released a study (C. Smith, 2007) reporting that its El Capitan deposit in New Mexico contained approximately 2.8 million ounces of gold, with additional resources of silver and platinum. This resource estimate was based on assay results from 12,764 feet of drilling as reported by AuRIC Metallurgical Labs. Since 2007, El Capitan management has carried out extensive research on precious-metal assays and extraction methods in order to confirm the presence of precious metals and to develop an extraction protocol for mining. This report is a review of this work, primarily focused on the period 2007-2009, with additional review of some work before 2007. We have focused on those methods that appear to be the most promising, have played a prominent role in the project, or have given the most robust results.

American Assay Laboratories—2005

In January 2005, American Assay Laboratories received 4 samples from the El Capitan deposit collected under chain of custody by Clyde Smith. Of particular interest is the sample labeled "El Cap non-magnetic #2," which assayed 0.016 opt Au. American Assay also tested the magnetic fraction of this sample (<0.003 opt Au), but not the mag/non-mag percent, so direct calculation back to head grade is not possible for this sample. However, this sample was later re-sampled by Clyde Smith, labeled EC-2, and assayed by AuRIC, which also did a magnetic separation. AuRIC reported 0.024 opt Au in the non-magnetic fraction (97% of the sample), which calculates back to 0.022 opt Au. Applying AuRIC's non-magnetic fraction to American Assay's result generates 0.015 opt Au—using a standard fire assay method at a recognized lab. This is one of the few fire assays without pre-treatment on a chain-of-custody sample that have reproduced ore-grade numbers similar to AuRIC's caustic fusion assay (see below).

AuRIC Metallurgical Labs—2005-2007

The resource calculations for the El Capitan project have been based on AuRIC's work on approximately 2,300 samples obtained from the project, most of which were drill core or drill cuttings, beginning in early 2005. AuRIC Metallurgical Labs is a licensed assay laboratory located in Salt Lake City, Utah. AuRIC reported ore-grade values in Au, Ag, and Pt using a caustic/alkali fusion assay on the El Capitan samples. Although the exact details of this fusion assay technique are proprietary to AuRIC, alkali/caustic fusion assay methods using sodium peroxide (Na₂O₂) in the flux have been applied to a variety of mineralogical and extractive applications. Generally speaking, sodium peroxide is a very strong oxidizing agent that efficiently dissolves sulfide and/or refractory minerals. Specifically, the use of alkali fusion assay in the recovery of Au and other PGM has been documented in the scientific literature (Toteland, 1995; Enzweiler, 2003; Qi, 2003; Corbett, 1973).

Because standard fire assay results have been erratic at El Capitan, a number of questions have been raised about AuRIC's work. First, it has been difficult to verify the statistical legitimacy of AuRIC's assays. AuRIC reported that it ran standards and blanks during the work for El Capitan, but did not include details of this information with the data nor in assay reports. Statistical details such as repetitions, standard deviations, and percent errors produced by AuRIC are also lacking, as are details of instrumentation calibration. After several requests, ECPN has been unable to attain this quality-control data from AuRIC. The lack of this information makes it difficult to evaluate AuRIC's work and raises a number of questions, most importantly: are the results from AuRIC valid? A valuable lesson can be learned from this situation with AuRIC, and in future work a number of checks will need to be put into place to ensure the legitimacy of all testing and extraction methods used.

The second issue with AuRIC's work is that AuRIC's proprietary caustic fusion assay is not a standard testing method accepted in the mining industry. As a result, ECPN requested a confirmation of AuRIC's method performed by metallurgist Richard Danielle in 2005 (Danielle, 2005). Danielle chose to use Wendell and Co. as a verification laboratory. In this work, both AuRIC and Wendell were sent 15 El Capitan split samples that originated from 12 drill hole splits selected under the chain of custody of Dr. Clyde Smith. These samples were chosen based on the results of AuRIC's previous caustic fusion assays as well as the sample's geological indications of precious metal content. All samples that were chosen had hematite values of greater than 10% with no regard for magnetite content. At both labs, the caustic fusion technique was applied to all samples and Au, Pt, and Pd were quantified.

It is noteworthy that AuRIC performed a magnetic separation on 6 "high magnetite" samples (of the 15 total samples) before the fusion while Wendell did not. Results show that in all but 3 instances, AuRIC

returned higher values for Au, Pt, and Pd than Wendell; on average, Wendell's values were 30% lower for Au, 40% lower for Pt, and 23% lower for Pd compared to AuRIC. Danielle offered a scientific explanation as to why AuRIC consistently yielded larger numbers than Wendell: AuRIC uses lanthanum in their solutions during AA analysis as an ionization agent to improve the sensitivity of AA readings. Wendell did not use lanthanum in this way. Both Wendell and Danielle suggest that problems may have arisen from the addition of this step at AuRIC, but provide no other details regarding this dilemma, and offer no data provided to support this hypothesis.

From this study, Danielle's conclusions were three-fold: 1) AuRIC had developed a successful caustic fusion procedure, 2) the caustic fusion technique works well on "difficult to analyze materials," and 3) disagreements between data provided by AuRIC and Wendell are likely a result of spectroscopic downfalls (improper use of lanthanum in solution as ionizing agent). Although these conclusions may be true, they are not proven in Danielle's report. A number of questions are raised regarding the results of this study.

1. Why wasn't the same pre-treatment used for every sample at both facilities? As mentioned, AuRIC had the ability to separate the samples into magnetic/non-magnetic samples while Wendell did not. AuRIC thus separated six "high magnetite" samples into magnetic and non-magnetic fractions. In order to compare experiments between AuRIC and Wendell, every attempt to duplicate sample processing should have been made.

Moreover, Danielle states that AuRIC performed head analysis on four of the six samples on which AuRIC did magnetic separation (DD-1, DD-8, DD-11, DD-14). The reason for this added step is not included in the report by Danielle, but interesting data was obtained. The results for these four samples are shown in Table 1.

Table 1 _	AuRic No.	DD-1 Au(opt)	DD-1 Pt	AuRic No.	DD-8 Au	DD-8 Pt	AuRic No.	DD-11 Au	DD-11 Pt	AuRic No.	DD-14 Au	DD-14 Pt
Head	F1792	0.137	0.407	F1770	0.123	0.417	F1776	0.157	0.412	F1782	0.147	0.360
Head	F1793	0.131	0.407	F1771	0.142	0.385	F1777	0.200	0.400	F1783	0.145	0.445
absolute error		0.006	0.000		0.019	0.032		0.043	0.012		0.002	0.085
relative error (%)		4.500	0.000		14.3	8.0		24.1	3.0		1.400	21.0
non-magnetic	F1615	0.090	0.400	F1617	0.300	0.670	F1608	0.260	0.590	F1609	0.150	0.650
non-magnetic	F1548	0.132	0.284							F1555	0.102	0.293
absolute error		0.042	0.116								0.048	0.357
relative error (%)		37.8	33.9								38.1	75.7

Because duplicate samples were run for DD-1 and DD-14 head and non-magnetic fractions, the relative error can be calculated for each. The relative error (absolute error ÷ average) of the non-magnetic analyses is larger than the head analyses in both cases. This suggests that magnetic separation may introduce a substantial source of error to the experiment that reduces precision. One might wonder if this same effect was present in AuRIC's testing of the El Capitan surface and drill samples, where magnetic separations may have introduced a source of error regarding precision. We will not include discussion of this anomaly in this report, but it should be addressed in the future.

It should also be noted that in the case of DD-8 and DD-11, the results of the non-magnetic fraction are 20-50% (calculation now shown) larger for Au and Pt that for the head samples. DD-1 and DD-14, on the other hand, showed the opposite effect: the head samples generally had

- higher Au and Pt (average 10-15%). The inconsistency in these results should have raised a flag of caution and prompted further study.
- 2. Why didn't Wendell and Co. verify the ability to quantify Au, Pt, and Pd in the sub-ppm concentration range while using lanthanum in their solutions on the AA spectrometer—as recommended by AuRIC? Furthermore, Wendell and Co. could have saved solutions for elemental quantification at an outside lab if they were unsure of their numbers. This would have been easy and inexpensive. Danielle also mentions that Wendell and Co. usually operates on ores 10-100x more concentrated than those found on El Capitan (based on AuRIC's numbers). Because of this, Wendell was nearing the detection limit of his AA spectrometer and should have taken extra measures to validate his quantifications.
- Quantitative measurements for standard samples are mentioned but not reported. First, Danielle states that "standards" were used to familiarize Wendell with the caustic fusion technique. In this process, it was identified that the furnace at Wendell's lab was not working properly. Unfortunately, the results of these experiments that led to this conclusion are not documented in this report. Danielle also mentions standards NBM 4b and 5b in his report regarding the importance of accuracy and precision of a given method. However, there is no mention of these standards (or any others) being used in the sample set during the caustic fusion assay process to verify the total return, accuracy, absolute error of Au, Pt, or Pd. In a possible attempt to explain why these standards were not run alongside the El Capitan samples, Danielle stated "It is important to understand that precious metal Certified Standards are based on standard fire assay analysis." With this statement, Danielle implies that the results from a fire assay cannot be compared to the results from a caustic fusion assay. However, contacting the Navada Bureau of Mines and Geology Analytical Laboratories revealed that this statement by Danielle is not true: fire assay along with other methods such as acid digestion and neutron activation analysis were used to quantify the total Au, Pt and Pd in NBMG's round-robin study of its standards. The reported numbers for total Au, Pt, and Pd by NBM represent an average of these different techniques. Therefore, these standards could have been used as a mass balance to study the validity of the caustic fusion technique on the 15 core samples.
- 4. Danielle did not report quantitative results for blank samples. Blanks that are included in a set of unknown samples can help identify unknown sources of contamination or other experimental downfalls such as spectroscopic interferences.
- 5. Precision alone does not validate a result, as implied by Danielle in his discussion of "Accuracy and Precision" (Section 5.3). The result of any experiment can be very reproducible (precise), but wrong. Moreover, precision alone is a relative concept, not absolute. In an experiment, the type of precision being discussed needs to be qualified. When talking about uncertainties in a given set of measurements, 'percent error' (absolute error ÷ average of measurement), standard deviations, and percent standard deviations are often reported as measures of precision. Danielle never defines what type of precision he is talking about, although it appears as if he is using "percent error" to measure precision. Danielle states that AuRIC's precision was 10% for Au, 7% for Pt, and 13% for Pd, and Wendell's precision was 20% for Au, 11% for Pt and 26% for Pd. Danielle also references the statistics for standard NBM 5b, for which the precision in NBMG's round robin study was 27% for Au, 23% for Pt, and 27% for Pd. Thus, by this measure of precision, both AuRIC and Wendell were more precise than NBMG's round-robin standard study. Danielle suggests that this makes the results for the El Capitan samples valid. However, this

assumption between different experimental techniques cannot be made without statistical proof (a *t* test). The data reported by Danielle does nothing but prove that the results are reproducible within the given set of experimental conditions.

The data provided by Danielle in his report is interesting because it shows the caustic fusion technique successfully being applied to El Capitan samples at two different labs and returning ore-grade numbers. The technique may indeed work as stated by Danielle, but he did not present a rigorous mass balance. Unfortunately Danielle's report leaves a number of questions outstanding about the validity of AuRIC's work that need to be addressed in the future.

The results produced by AuRIC may very well be accurate, but without the ability to scrutinize their work in detail and address the issues raised by Danielle's confirmation report, we cannot know for sure. Because AuRIC did so much work that is central to the value of the El Capitan project, it would be beneficial to answer these questions. AuRIC has so far declined to have further involvement in the project, although it has indicated a possibility for future work under a suitable contract. If AuRIC is to be re-engaged on the project, which would be to ECPN's advantage, ECPN should negotiate a contract carefully, with all terms clearly understood by both parties. Regardless of AuRIC's future involvement, its caustic fusion assay deserves more study to help prove the presence of precious metals at El Capitan.

Ken Bright Research—2007-2009

From early 2007 to early 2009, ECPN was led by President Ken Pavlich. Under his direction, the company did extensive research on two composite samples derived from drill samples on the El Capitan project with the intent of reproducing ore-grade results reported by AuRIC. The general approach was to validate the content of Au and PGMs in the composite samples by correlating the results from a variety of different labs and techniques with the inclusion of blanks, standards, and spiked samples. This work culminated in research and a report by Ken Bright (Bright, 2008), in which Bright concluded that no precious metals existed in the two composite samples.

Ken Bright's research used two 400-g splits of two different composite samples: RR-1 and RR-2 (representing phase 1 drilling) and ARR-1 and ARR-2 (representing phases 2 and 3 drilling). It should be emphasized that all conclusions by Ken Bright and Ken Pavlich were based on these four 400-g splits. Such a small sample set raises the question: do these composite samples represent the potential oregrade material found in the El Capitan deposit? The individual samples that made up the composites were chosen, based on AuRIC's assay results, so that the resulting composites would contain ore-grade precious metals. All work on these composites then proceeded with the assumption that the composites were ore-grade. But if AuRIC's results were inaccurate, it is possible that the composites were not ore grade. Because the veracity of AuRIC's work cannot be confirmed, the grade of the composite samples is not accurately known, and might not be ore-grade as expected.

To further compound this uncertainty amongst the samples, differences in sample storage and handling were reported. For example, reports indicate that during the first year, RR-1 was stored in a desiccator while RR-2 was stored in a poly bag in a sealed 5 gallon bucket. Observations about the samples after storage for 1 year indicated that RR-2 had oxidized due to exposure to the atmosphere. Exposure to the atmosphere would not cause loss of precious metals, however it may alter the chemical state of the ore matrix, which could affect precious-metal behavior during testing. It is uncertain how these changes in chemical state would affect how a sample would respond to fire/fusion, but hypotheses can be derived. In addition, differences in composition between RR-1 and RR-2 were also observed: their Fe₂O₃ and SiO₂

contents were 35%/21% and 85%/6%, respectively. These differences cannot be explained by water/O₂ exposure and indicate a heterogeneous split of the composite sample.

Techniques used in Bright's report to quantify the total precious metal content included (often with modifications): fire assay, alkali fusion assay, nickel-sulfide assay, total dissolution (HF/HCl/HNO₃), cyanide leaching, various pre-treatments followed by fire assay or ICP-MS, re-assay of slags, and neutron activation analysis. The latter technique (neutron activation analysis - NAA) stands out in this suite of techniques as being the only non-destructive elemental probe of a solid sample. Using NAA, solid samples can be studied, multi-elements can be detected, and the detection limit is equal to but usually lower than those attainable by ICP-MS (inductively coupled plasma/mass spectrograph) or GFAA (gasfired atomic absorption). Interferences occur in NAA studies when testing for Au, but usually these interferences cause numbers larger than the actual values. NAA has often been called a referee technique for total elemental determination because of its ability to probe samples in a non-destructive and accurate fashion, and is often employed to verify the mass balance for new elemental extraction techniques.

Samples were sent to a variety of commercial and research labs for study using the aforementioned metallurgical techniques. Labs and associated techniques included The Mineral Lab (XRD, XRF), Acme Lab (acid leach after ignition, fire assay), Becquerel Labs (NAA), SGS Lakefield (caustic fusion with Te/stannous chloride), ALS Chemex (fire assay and CN leach), and MHS Research – Mike Thomas (fire assay Pb and NiS fusion, 4 acid decomposition). It was common in this work for the re-assay of slag material to occur.

In all of this work, none of the composite samples yielded ore-grade concentrations of precious metals.. Most results were less than 100 ppb with a range of approx 15-20 ppb (0.00044 opt) for Au, 0-300 ppb for Pt, and <0.3 opt Ag. It is interesting to note that work at MHS Research yielded values for Pt up to 150-300 ppb (0.01 opt) and 3-10 ppm for Ag after a modified wet analysis and NiS fusion. Au values at MHS Research were in agreement with all other labs.

To validate the analytical techniques used, standard ore samples were treated with the same procedures as the unknown El Capitan samples and sent to each lab used in this study. These standards encompassed a range of mineralogical content as well PGM concentrations (page 11, Bright, 2008). Out of all the standards, the 2AAR-2-1STIL (2 parts AAR-2 and 1 part STIL) and 2AAR-1-1STIL (2 parts AAR-2 and 1 part STIL) served interesting purposes. Pure STIL (derived from the Stillwater PGM deposit in Montana) has accepted gold values of 300-450 ppb, or 0.009-0.014 opt, a similar content to those thought to be in the El Capitan deposit. These numbers were confirmed with NAA (Becquerel) to be 357 ppb in the STIL standard. This standard was blended with composites AAR-1 and AAR-2 in a 2:1 composite/standard ratio. Using neutron activation analysis, the Au concentration in each sample was 133 ppb for 2RR-1-1STIL and 170 ppb for 2RR-2-1STIL. These Au concentrations represent 1/3 the accepted value of pure STIL (300-450ppb), directly in line with the dilution of 2 parts AAR with 1 part STIL – indicating no appreciable contribution of Au from the El Capitan ARR-1 and ARR-2 samples. This standard was not mixed with RR-1 or RR-2 for a similar comparison.

The fact that the precious metal concentrations are so low according to every quantitative analytical technique outlined by Ken Bright implies there are no precious metals in these particular composite samples. Bright's conclusion that no precious metals existed in the two composite samples is scientifically justified. However, as Bright pointed out, it is possible that these two composite samples represent a sampling anomaly. This is a factor that could be addressed with a larger and more carefully chosen

sample set. There are still several reasons to believe that economic-grade ore exists on the El Capitan project, and we believe that further studies should be performed, as Bright recommended.

Copper State Analytical Labs—2008-2009

In August, 2008, Copper State was contracted by ECPN, under Ken Pavlich's direction, to determine the total gold and PGM content in its two composite samples using 2-acid digest, 3-acid digest, (in both pressurized Parr Bombs and non-pressurized vessels) aqua-regia/MIBK extraction. Using pressurized vessels (eg. Parr Bombs) to dissolve solid samples has become increasingly popular in the scientific community because of their ability to digest samples that non-pressurized vessels cannot. Paper trails indicate that samples tested were the same Phase 1 RR-1/RR-2 composite ("EC Comp #1) and Phase 2/3 AAR-1/AAR-2 composite ("EC Comp #2") used by Ken Pavlich and Ken Bright in their studies. Data reported from these studies are listed in Table 2.

Table	2												
Sample				Orig	jinal Resu	ılts		Re-Assay Results					
ID	Description	Au	Ag	Pt	Pd	Ir		Au	Ag	Pt	Pd	Ir	
1	100% EC Comp #1	0.194	0.767	nd	nd	Nd	3 acid digest	0.015	0.270	nr	nr	nr	2 acid/MIBK
2	75% : 25% EC Comp #1 : #2	0.265	0.250	nd	nd	Nd	3 acid digest	0.029	0.440	nr	nr	nr	2 acid/MIBK
3	50%: 50% EC Comp #1: #2	0.304	0.530	nd	nd	nd	3 acid digest	0.025	0.390	nr	nr	nr	2 acid/MIBK
4	25%: 75% EC Comp #1: #2	0.402	0.432	nd	nd	nd	3 acid digest	0.006	0.410	nr	nr	nr	2 acid/MIBK
5	100% EC Comp #2	0.484	0.465	0.095	nd	nd	3 acid digest	0.018	0.390	nr	nr	nr	2 acid/MIBK
9	100% EC Comp #1	0.226	0.388	nd	nd	nd	3 acid digest	0.015	0.480	nr	nr	nr	2 acid/MIBK
10	100% EC Comp #2	0.456	nd	0.098	nd	nd	3 acid digest	0.009	0.060	nr	nr	nr	2 acid/MIBK
	100% EC Comp #1	0.775	1.150	nd	2.542	1.021	2 acid digest	0.048	0.050	nr	nr	nr	2 acid digest
	100% EC Comp #2	1.846	nd	nd	2.182	nd	2 acid digest	0.091	0.050	nr	nr	nr	2 acid digest
5	100% EC Comp #2	0.484	0.465	0.095	nd	nd	3 acid digest	0.415	nd	0.115	nd	nd	3 acid digest
10	100% EC Comp #2	0.456	nd	0.098	nd	nd	3 acid digest	0.408	nd	0.102	nd	nd	3 acid digest
	100% EC Comp #1	0.775*	1.15*	nd*	2.542*	1.021*	2 acid digest	0.253	1.060	nd	0.531	0.277	3 acid digest
	100% EC Comp #2	1.846*	nd*	nd*	2.182*	nd*	2 acid digest	0.362	1.591	nd	0.692	nd	3 acid digest
	NOTE: nd = not detected / nr =	not run											

The first round of testing at Copper State (named "Original Results" in Table 2) produced significant amounts of Au, Pt, and Ag in all samples using a pressurized and non-pressurized 3-acid digest and 2-acid digest. Surprisingly, these results were on average 10x larger than results reported by AuRic using a caustic fusion assay. Because of this discrepancy, Ken Pavlich suggested a re-assay of these composite samples by Copper State. In the second round of testing (named "Re-Assay"), digest time was increased from 4 hours to 20 hours, (the reason for increasing the digest time is unclear), and a 2-acid/MIBK extraction was used. The results of this second round of testing consistently yielded smaller amounts of Au, Pt, and Ag in all samples when compared to the first round. These results are curious because conventional wisdom with total digests is that increasing digest time generally increases yield – up to a point. Copper State has not offered an explanation for this observation nor has it yet provided the results from internal blanks and Copper State standards to prove that the techniques were working properly.

The most comparable results between the original and re-assay digests are Sample 5 and Sample 10, for which a 3-acid digest was used in both rounds of testing. The first round of digest yielded 0.484 opt and 0.456 opt Au for Sample 5 and 10, respectively, while the second round of digest yielded 0.415 opt and 0.408 opt Au. This represents a 14% and 10% drop in yielded Au. Regarding the other digest methods (2-acid/MIBK and the 2 acid digestion), the original results are significantly larger than the re-assay results, in most cases by an order of magnitude or more. These changes in total Au content may be a result of

different digest techniques. However, the results of the internal standards indicates that something else is going on. During this work, Copper State reportedly tested 2 different standards (NBM 5b, NBM 6b at 100% content) and 1 mixture of these standards (NBM-5b 50% and NBM-6b 50%). The results for the standard ore samples in the original and re-assay methods are listed in Table 3.

Table 3		l, 4-Hour P Fini	sh		3-acid, 20-Hour Parr Bomb + ICP Finish				
		Driginal Re	sults (opt))	Re-assay Results (opt)				
Description	Pt	Pd	Au	Ag	Pt	Pd	Au	Ag	
Copper State (opt)									
100% NBM 5b	0.158	< 0.01	0.253	1.121	< 0.03	< 0.03	0.053	0.589	
50% : 50% NBM 5b : 6b	0.117	1.646	0.362	15.934	0.110	0.482	0.039	0.297	
100% NBM 6b	0.178	1.064	< 0.01	0.340	0.174	1.070	< 0.03	0.141	
Accepted value in standard (opt)									
100% NBM 5b	0.009	0.022	0.047	na	0.009	0.022	0.047	na	
50% : 50% NBM 5b : 6b	0.180	0.576	0.035	na	0.180	0.576	0.035	na	
100% NBM 6b	0.352	1.130	0.023	na	0.352	1.130	0.023	na	
Difference (opt)									
100% NBM 5b	0.1490		0.2066	na			0.006	na	
50% : 50% NBM 5b : 6b	-0.0632	1.0700	0.3274	na	-0.070	-0.094	0.004	na	
100% NBM 6b	-0.1738	-0.0661		na	-0.178	-0.060		na	
Absolute error (%)									
100% NBM 5b	1659%	>95%	441.7	na	>66%	>36%	13%	Na	
50% : 50% NBM 5b : 6b	35%	185%	938.7	na	39%	16%	12%	Na	
100% NBM 6b	49%	5.80%	>56%	na	51%	5.30%	>37%	Na	
Average absolute error (%)	581%	95%	478%	na	52%	19.10%	20.70%	Na	

The first round of digest of NBMG standards with a 4-hour Parr Bomb-HF/HNO₃/HCl had significant percent errors compared to the accepted values, ranging from 5.8% to 1659%. The majority of the samples had errors of 95% or greater. These results are unacceptable and should have prompted Copper State to verify the technique. The second round of testing performed much better in comparison with the standards, coming within 13% of the accepted value for two out of the three standards. One issue with the standards used is that they do not represent an ideal mineralogical or chemical match to the El Capitan samples. NBM-5b is a carbonate-hosted hydrothermal Au-Pt-Pd ore and NBM-6b is a mafic intrusive-hosted Pt-Pd ore. Regardless, the fact that these standards responded so erratically in the first round of digests makes one question the results of the composites studied at the same time by Copper State. If a lab cannot get a standard ore sample to respond consistently, how can we expect the unknowns to respond?

The results of Copper State's Parr bomb total digest testing are mixed: results for the original first round are unacceptable, based on the lack of agreement between Copper State's results on the standards and the accepted values. The re-assay second round of tests agreed more closely with the standards, and are intriguing. If the results from the second round are valid, they indicate ore-grade levels of Au in the composite samples tested. Copper State's methods and procedures should be thoroughly evaluated and a new suite of samples tested.

In March of 2009, two composite samples that were splits from RR-1/RR-2 (Composite #1) and ARR-1/ARR-2 (Composite #2) from Ken Pavlich's work were given to Copper State for hot cyanide leaching tests. Composite #1 yielded ore-grade results for both Au and Ag (average 0.037 opt Au and 2.27 opt Ag) while composite #2 yielded less Au and Ag (average 0.015 opt Au and 0.173 opt for Ag. These results are very interesting because they indicate ore-grade material from samples that Ken Pavlich and Ken Bright had concluded did not contain appreciable amounts of any precious metals.

Surface Re-Sampling—2009

Drilling at El Capitan started in April 2005, largely based on AuRIC's assay results from 28 samples collected by Clyde Smith in January 2005 (C. Smith, 2005). Because of the questions about AuRIC's work, in 2009 ECPN directed a partial re-sampling of these original surface samples. Sampling was done by David Smith in June 2009 (D. Smith, 2009). Samples were sent under chain of custody to Resource Development Inc. in Denver for crushing to -¼ inch and thorough blending, and 500-g splits then sent to American Assay, Hazen Research, and Orlando Villa for testing. (See below for more details on Villa's work.) The results from fire assay at American Assay and Hazen are shown in Table 4.

Table 4	American Assay		Hazen R	Research	
Element	Au	Au	Au	Ag	Ag
Method	FA60	60g FA	5g AA	60g FA	5g ÅA
Detection Limit	0.001	0.001	0.005	0.05	0.01
Units	OPT	OPT	OPT	OPT	OPT
Sample					
29	<0.001	< 0.001	< 0.005	<0.05	<0.01
BLANK	<0.001				
30 (same as 37)	< 0.001	<0.001	< 0.005	< 0.05	<0.01
31	< 0.001	< 0.001	< 0.005	< 0.05	< 0.01
32	< 0.001	< 0.001	0.001	< 0.05	< 0.01
33	< 0.001	< 0.001	< 0.005	< 0.05	< 0.01
STD	<0.001				
34	<0.001	< 0.001	< 0.005	< 0.05	<0.01
35	< 0.001	< 0.001	< 0.005	0.07	<0.01
36	<0.001	< 0.001	< 0.005	< 0.05	<0.01
37 (same as 30)	<0.001	< 0.001	< 0.005	< 0.05	<0.01
38	<0.001	<0.001	< 0.005	<0.05	<0.01
39	< 0.001	< 0.001	< 0.005	< 0.05	<0.01
40	<0.001	<0.001	< 0.005	< 0.05	<0.01

Both American Assay and Hazen Research returned numbers below their detection limits of 0.001 opt Au and <0.1 ppm Ag. No Au was found in any of the 12 samples using the American Assay fire assay, and only small amounts of Ag. It has been suggested that Hazen Research sends their samples offsite to have the fire assay performed, and they do the subsequent elemental determination. This information will need to be determined. However, results obtained from both labs indicate low numbers for Au and Ag, as well as other PGM when detected in the follow-up work. These results are a negative reproduction of a previously successful fire assay of an El Capitan sample. Hazen did not report including blanks or a known standard to the fire assay mix.

The intent of this re-sampling is valid—to reproduce AuRIC's results on the original surface samples that led to drilling in 2005. Although the results from American Assay and Hazen Research so far have not confirmed AuRIC's numbers, this approach should be continued with more thoughtfully developed sample set and rigorous quality control measures and testing method evaluations.

Orlando Villa—2009

In 2009 ECPN's new management, headed by President and CEO Chuck Mottley, began a new series of tests run by Orlando Villa, an assayer working near Prescott, Arizona. Villa holds an MBA from Arizona State University and has numerous years of assay experience but no formal analytical training. Villa's procedure involves use of a "house flux," (composition unknown) followed by nitric acid dissolution to remove base metals and iron, then fire assaying of a 230-gram sample. The resulting beads are sent to outside labs for precious-metal analysis. The results of Villa's work are interesting and deserve evaluation, but it should be noted that Villa is not a licensed assayer in a recognized lab, and his process has not yet been reviewed, observed, or verified.

In 2009, Villa tested the 12 chain-of-custody samples collected from the El Capitan project by David Smith in June 2009 (D. Smith, 2009). The beads from these fire assays were cut in half and sent to two different labs for elemental determination: Copper State and IPL (International Plasma Labs in Vancouver, B.C.). The results obtained in this study (side by side for each lab) are shown in Table 5, along with the previous results obtained by Auric on samples from the same location.

Villa also assayed a sample collected by ECPN, which was ground to -100 mesh, treated with a high-temperature roast in a plasma furnace, and then reground. This sample was obtained by ECPN staff from its bulk stockpile of El Capitan mineralized rock; it is not a chain-of-custody sample. Results, which show ore-grade Au, are included in Table 5.

Table 5									
El Capitan	IPL	CSAL	Average	IPL	CSAL	Average	IPL	CSAL	Average
Sample ID	Au (opt)	Au ((opt)	Au (opt)	Ag (opt)	Ag (opt)	Ag (opt)	Pt (opt)	Pt (opt)	Pt (opt)
MNX-EC P/T	0.015	0.037	0.026	2.05	1.78	1.92	<0.001	< 0.003	ND
#29	0.031	0.075	0.053	4.88	2.09	3.48	< 0.001	< 0.003	ND
#30 (duplicate of #37)	0.012	0.030	0.021	2.09	1.84	1.97	<0.001	< 0.003	ND
# 31	0.007	0.007	0.007	2.40	1.51	1.95	< 0.001	< 0.003	ND
# 32	0.364	0.408	0.386	25.15	1.54	13.35	< 0.001	< 0.003	ND
# 33 (blank)	0.001	0.005	0.003	0.34	0.97	0.66	<0.001	< 0.003	ND
# 34	0.128	0.120	0.124	10.95	0.56	5.75	< 0.001	< 0.003	ND
# 35	0.003	0.005	0.004	1.30	0.26	0.78	< 0.001	< 0.003	ND
# 36	0.004	0.007	0.006	0.56	0.87	0.72	< 0.001	< 0.003	ND
# 37 (dupliate of #30)	0.006	0.009	0.008	1.02	1.28	1.15	<0.001	< 0.003	ND
# 38	0.003	0.005	0.004	0.94	1.20	1.07	<0.001	< 0.003	ND
# 39	0.046	0.043	0.045	5.13	2.17	3.65	<0.001	< 0.003	ND
# 40	0.002	0.007	0.005	0.35	0.84	0.59	< 0.001	< 0.003	ND

It should be noted that although Copper State and IPL each received ½ the dore bead, the results from elemental determination were not identical (for calculated opt) as one would expect. In the case of Au, Copper State consistently reported numbers larger than IPL. In the case of Ag, IPL generally reported larger numbers than Copper State. Both labs reported below detection limit for all samples with Pt. There is a chance that the samples split from the bead and sent to each lab were not homogenous in elemental content, and these differences could represent sampling issues. To explore this lack of consistency one would need to get the experimental and spectroscopic details from each lab in the elemental determinations.

The blank (sample #33) returned low Au concentrations (0.001 opt-IPL and 0.005 opt-Copper State), low Pt concentrations (<0.001 opt-both), and moderate Ag concentrations (0.34 opt-IPL and 0.97 opt-Copper State). These small amounts of silver observed in the blank suggesting internal contamination at some point in the bead production. While this contamination is mild, it represents more silver returned in sample #40 (IPL and Copper State), #36 (Copper State), and #34 (Copper State). These baseline values of Ag

are interesting in contrast with the large amount of Ag returned in other El Capitan pre-treated samples (for example #32). Such a large range of Ag values cannot be explained solely on heterogeneous bead production, and either represents experimental downfalls or sampling anomalies.

Samples #29, #30, #32, #34, and #39 all yielded ore-grade numbers for both Au and Ag. Samples #31, #35, #36, #38 and #40 returned lesser numbers, although still detectable on the instruments over the blank sample. In particular, sample #30 and #37 were duplicate samples extracted from the same hematite-rich outcrop sampled by Clyde Smith in 2005 for analysis by AuRIC (sample EC-2).

These samples represent some positive results. A preliminary conclusion can be drawn from these experiments: acid or plasma furnace pre-treatment may allow for fire assay to adequately extract Au and other PGM from El Capitan samples. It is our opinion that this observation needs to be tested and validated with a large suite of El Capitan samples. If these methods are determined to be valid, fundamental work needs to be done to help explain why these pre-treatments allow for precious metal liberation.

Planet Research—2009

Although we have seen no results from this work, ECPN management has given us verbal reports of positive results from testing done by Planet Research using proprietary reagents (Petrolux) to selectively extract precious metals from El Capitan samples. If it appears worthwhile, this work should be evaluated, observed, and verified.

Conclusions

Previous metallurgical work at El Capitan has generated a number of results that point to the presence of precious metals. These include:

- American Assay's single fire-assay result from 2005
- AuRIC's extensive testing of drill samples using caustic fusion assay
- Copper State's Parr bomb total digestion results
- Orlando Villa's recent fire assays with pre-treatment
- One intriguing value from Villa's fire assay following plasma-furnace pre-treatment

Of particular interest are the recent efforts using pre-treatments (Villa and plasma furnace) followed by fire assay that have shown the potential to work on El Capitan samples. However, these methods have yet to be verified on chain-of-custody samples, and a number of studies have drawn question to the results above, in particular the American Assay and Hazen Research assays of the 2009 surface re-sampling and the extensive research by Ken Bright. In these cases in which precious metal content was low, the results may or may not be an artifact of sampling anomalies. This issue is one among several that need to be addressed in the future, including sample selection and chain of custody, rigorous quality-control measures, evaluation of lab procedures and instrumentation, and, if necessary, external validation of promising methods.

It would be surprising if so many separate lines of testing suggesting ore grade material at El Capitan were all false. Even so, the data available to us does not provide irrefutable and repeatable evidence for the presence of precious metals. Our conclusion is that the studies we reviewed have not definitively proven nor disproven the presence of ore-grade precious metals in the El Capitan system.

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DAVID S. SMITH, MS, MBA CONSULTING EXPLORATION GEOLOGIST

3803 NE 120th Street, Seattle WA 98125 206-390-2575 davesmithdave@comcast.net

Experience

Consulting Exploration Geologist, 2004-present

Consultant and Project Manager for resource companies on precious metals exploration projects worldwide. Services include project management, advanced geologic studies and interpretation, drill program management, project evaluation and valuation, project and land acquisition, report writing and editing including NI 43-101 reports, due diligence, sustainability strategy, geologic research, geologic mapping, drill core and cutting logging, sample security and chain of custody, claim staking, sampling program design and management. Project locations include Nevada, Colorado, Arizona, New Mexico, British Columbia, China, Mexico.

CH2M HILL Inc., Seattle, Washington, 1998-2004

Communications Manager and Project Manager for firm-wide Environmental Performance and Sustainable Development programs for global 14,000-employee engineering company. Set strategy for program communications, developed and managed annual budget, created and maintained 150-page corporate intranet web site on sustainability, developed and wrote stories, and managed production and distribution of communications to staff worldwide. Communications included corporate sustainability reports, web sites, newsletters, brochures, posters, company-wide emails, and white papers. As Technical Writer and Editor, produced technical reports in environmental, transportation, water supply, and wastewater fields for clients such as U.S. Environmental Protection Agency, U.S. Department of Energy, Air Force Center for Environmental Excellence, U.S. Navy, World Federation of Engineering Organizations, Unocal, Los Angeles Department of Water and Power, City of Vancouver B.C.

La Esperanza Gold Explorations Ltd., Vancouver, B.C. and Mazatlán, México, 1995-1998

<u>Chief Geologist</u> involved in discovering a 750,000-ounce gold deposit in Michoacán, Mexico. Responsible for evaluating the potential of gold exploration targets and managing exploration projects in the states of Durango, Jalisco, Michoacán, Nayarit, and Sinaloa in western Mexico. Developed property and regional exploration strategy, managed five geologists and crews of 20 men, developed and managed annual budgets up to US\$850,000. Oversaw all aspects of project geology, from initial sampling and mapping through advanced drilling and research.

American Copper and Nickel Co., Denver, Colorado, 1991

<u>Field Geologist</u> for INCO's American subsidiary. Mapped, sampled, and coordinated data for gold exploration effort surrounding the Mineral Hill Mine in Jardine, Montana; performed underground mapping and core logging in Archean lode gold deposit and metasedimentary rocks. Completed Master's thesis research, published in *Economic Geology*.

Leggette, Brashears and Graham Inc., St. Paul, Minnesota, 1988-1990

<u>Hydrogeologist and Project Manager</u> in the groundwater remediation business in Minnesota, Wisconsin, South Dakota, and Illinois. Monitored groundwater well design and installation, performed aquifer pumping tests, logged drill holes, sampled groundwater and soil, monitored groundwater levels, wrote reports, served as laboratory liaison, took health and safety training. Projects consisted of hydrogeologic investigations, underground tank excavations, multi-phase groundwater remediation investigations, long-term groundwater cleanup projects.

Education

MBA in Sustainable Business, 2007, Bainbridge Graduate Institute, Bainbridge Island, Washington

Master of Science, Ore Deposits Geology, 1995, University of Oregon, Eugene, Oregon

Bachelor of Arts, Geology, 1986, Carleton College, Northfield, Minnesota

Publications

Smith, D. S., 1996, Hydrothermal alteration at the Mineral Hill Mine, Jardine, Montana: A lower-amphibolite facies Archean lode gold deposit of probable symmetamorphic origin: *Economic Geology*, vol. 91, p. 723-750.

Profiled in Business Week online, Designing Sustainable Leadership, October 4, 2007 http://www.businessweek.com/innovate/content/oct2007/id2007104 718797.htm?chan=search

Awards

<u>Award of Excellence in Technical Reports</u>, 2001-2002, from Society for Technical Communications. <u>Reviewer of the Year</u>, 1996, from *Mineralium Deposita*, Europe's top mineral deposits research journal.

Noel Palmer, Ph.D.

208-310-0552

npalmer@uidaho.edu

323 N. Lincoln, Moscow, ID 83843

Education

Ph.D. Chemistry, University of Idaho, Moscow, ID 83843

- Analytical Methods, Spectroscopic and Electrochemical study on natural soil and mineral samples.
- Specialized coursework in Subsurface Studies, Geology, Hydrology, Geochemistry Soil Microbiology, Soil Physics, Spectroscopic Methods.
- Advisor: Ray von Wandruzska, University of Idaho Chemistry Dept, rvw@uidaho.edu

M.S Chemistry, University of Idaho, Moscow, ID 83843

- GPA 3.85
- Analytical chemistry with specialized coursework in Instrumental Techniques, Soil Chemistry, Environmental Chemistry.
- Advisor: Ray von Wandruzska, University of Idaho Chemistry Dept, rvw@uidaho.edu
- B.S. Chemistry, University of Wyoming, Laramie, WY 82071
 - GPA 3.5

Work Experience

Senior Research Scientist, Soil Chemistry Research Lab, University of Idaho August 2000-August 2003

- General management of Soil Chemistry research laboratory. PI Daniel Strawn, Soils Dept, PSES College.
- Primary use and maintenance of: Thermo Jarrall Ash IRIS ICP-AES, Perkin Elmer FT-IR with microscope accessory, Mettler Toledo Auto-titrator, high speed centrifuge, anoxic glove box.
- Other instrumental skills: XAFS, NMR, EPR Spectroscopy, XRD,GC-MS, HPLC.
- Training of graduate and undergraduate students in general laboratory practice.
- Management and disposal of hazardous wastes.
- Field sampling techniques for soils and water systems.
- Data management and reporting (see publications).
- Website development and maintenance.
- *Supervisor: Dan Strawn, University of Idaho Soils Dept, dgstrawn@uidaho.edu

<u>Caretaker, Protection Island National Wildlife Refuge,</u> U.S. Fish & Wildlife Service August 2003 – February 2004

- · Maintain facilities on no-public-use refuge
- Gather, compile, and report data and findings
- 40 hours per week, volunteer position
- *Supervisor: Pam Sanguinetti, Biological Technician, USFWS WA Maritime National Wildlife Refuge Complex; 360-457-8451; pam_sangunetti@fws.gov

Awards and Fellowships

- Inland Northwest Research Alliance (INRA) Fellowship, 2005-2007.
- National Science Foundation GK-12 Fellowship, 2008-2009.
- International Humic Substances Society (IHSS) Malcom Renfrew Award (2006) for student research.
- Outstanding Teaching Assistant Award, University of Idaho Chemistry Department.

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Appendix 11

Auric Process Validation Report

SUMMARY REPORT

OF

EVALUATION and VALIDATION OF AURIC ALKALI FUSION ANALYTICAL PROCEDURE

AT

WENDELL & COMPANY

September 1, 2005

Richard A. Daniele Metallurgical Engineer

DANIELE METAL-MINERAL SERVICES

INTRODUCTION

AuRIC Metallurgical Laboratories, LLC (AuRIC) recommended Richard A. Daniele, Metallurgical Engineer, Daniele Metal-Mineral Services (MetMin), as a candidate to provide independent evaluation services to El Capitan Precious Metals, Inc. (ECPM). The independent evaluation services were threefold:

- 1. Evaluate and validate the alkali fusion analytical procedure developed by AuRIC for suitability as a viable analytical method for gold, platinum, and palladium.
- 2. Find a second laboratory knowledgeable in alkali fusion analytical procedures to confirm the validity and viability of the AuRIC procedures.
- 3. Demonstrate the validity and viability of the AuRIC procedures at the second laboratory, first by using Certified Standards, and then followed by parallel, duplicate assays at both AuRIC and the second laboratory.

The second laboratory chosen was the Michael J. Wendell, Wendell & Company, laboratory in Centennial, Colorado

Mr. Daniele and MetMin have no responsibility as to the precious metal content of the materials in the El Capitan Project, or to the use or validity of the results of any El Capitan materials. Mr. Daniele's sole purpose is to validate the AuRIC analytical procedure, and find a second laboratory, Wendell & Company, to duplicate the procedure.

PURPOSE

The Purpose of this Summary Report of Evaluation and Validation of AuRIC Alkali Fusion Procedure at Wendell & Company (Report) is to provide the analytical data obtained and an analysis of that data to reach a conclusion.

VALIDATION PROCEDURE

The evaluation and validation procedure for this Report included five items as follows:

- 1. Familiarize Wendell & Company with the AuRIC alkali fusion procedure, and test the procedure on Certified standards.
- 2. Obtain core samples for the 15 samples previously selected from the geologic logs provided by Dr. Clyde L. Smith which encompass 12 drill holes. Crush the total sample, and grind (to approximately 80 percent minus 200 mesh) 200 grams of each sample; split each sample into 100 grams, and package the samples for AuRIC and Wendell & Company for analyses.

1

- 3. Request AuRIC and Wendell & Company to analyze the 15 samples as received (head samples) in duplicate according to the AuRIC alkali fusion procedure.
- 4. Participate with Wendell & Company in performing the AuRIC alkali fusion procedure.
- 5. Collect the analytical data from both laboratories, and evaluate the data to determine the validity of the AuRIC alkali fusion procedure.

1. Wendell & Company Familiarization

The Wendell & Company familiarization using Certified Standards was accomplished with the assistance of Mr. Ahmet B. Altinay, AuRIC, and Mr. Richard A. Daniele, MetMin. Four Certified Standards, analyzed three times, were used for the familiarization. Messrs. Wendell, Altinay, and Daniele learned during the first round of the familiarization that the Wendell & Company gas furnace was not sufficiently uniform in temperature to effectively perform the procedure. The second round fusion was performed in an electric furnace, and a new electric furnace was purchased for the third round. The new electric furnace was used for all the fusions in the 15 sample duplicate validation.

2. Geologic Logs

The 15 samples that were selected were based on the hematite values on the log sheets of 20 percent or greater hematite values. Although this yielded a good number of sample possibilities, not all drill cores had 20 percent or greater hematite. The hematite range was lowered to 10 to 20 percent so that there was a sample from all 12 drill holes. When the samples were selected, they were based solely on hematite content with no regard for the magnetite content.

3. Request for Analysis of 15 Sample

Both AuRIC and Wendell & Company were provided with 15 sample bags each containing 100 grams of sample ground to approximately 80 percent minus 200 mesh. Each laboratory was requested to analyze each sample in duplicate. The sample bags were numbered DD-1 through DD-15. The sample bag numbers were random and did not indicate a core hole number or sequence. The idea was to have a blind analysis for both parties. Since AuRIC had performed many analyses previously, the lack of sample source and location kept both laboratories on an equal basis.

Nevertheless, AuRIC, based on its considerable experience with the ECPM material, chose to perform a magnetic separation on six "high magnetite" samples. Instead of analyzing the entire sample (head sample), AuRIC analyzed the non-magnetic fraction only. Fortunately, four of the six high magnetite samples had been previously analyzed without magnetic separation so that data was available.

4. Wendell & Company Participation

Messrs. Wendell and Daniele worked together on the alkali fusion analyses in order to maximize to the greatest extent possible their recently obtained familiarity with the AuRIC alkali fusion procedure. The new electric furnace performed well, but as with any new piece of equipment there is a learning curve. For example, a ceramic barrier was placed between the fusion samples and the thermocouple to protect the thermocouple from potential sample splash. After a number of fusions with no splash on the barrier and discussions about temperature uniformity, the barrier was removed. Although there was no direct evidence that this made a difference in the fusions, the liquid fluidity during the stirring stages appeared to be generally better.

The most significant difference, in Mr. Daniele's opinion, between AuRIC and Wendell & Company is the use of lanthanum to enhance platinum readings in the atomic absorption spectrophotometer. Mr. Wendell's typical samples generally contain multiple troy ounces per ton of gold and platinum; therefore, he did not have a need to use lanthanum. In order to comply with the AuRIC procedure, Mr. Wendell prepared new standards for gold, platinum, and palladium with the prescribed amount of lanthanum, and added lanthanum to the solution from the parted (dissolved) dores. (The dore is the tiny bead, approximately 2 milligrams in weight that contains the extracted gold, platinum, and palladium).

5. Data Analysis and Evaluation

Each laboratory had 15 samples to analyze in duplicate, a total of 30 samples. Each sample went through a fusion process. AuRIC has the ability to process six fusion samples at a time, whereas Wendell & Company can process only four fusions samples at a time. Each sample was analyzed for gold (Au), platinum (Pt), and palladium (Pd) which results in 90 analyses from each laboratory or 180 minimum total. The analyses are presented in Table 1, Verification Testing, which is located at the end of the Report.

Information on Table 1 is presented in two sub-sections:

- 5.1 Table 1 Description
- 5.2 Data Analysis and Evaluation
- 5.3 Accuracy and Precision

5.1 Table 1 Description

The precious metal values obtained from these analyses were all low. If the values were converted to troy ounces per ton, it would be difficult to distinguish differences between samples and laboratories. Therefore, the values reported in Table 1 are reported as parts per million (PPM, ppm) in the solution analyzed.

The heading for each sample in Table 1 is arranged in order of the core hole sequence, e.g. EC-05-01, EC-05-02, etc. Along with the core hole number is the depth of the sample increment

3

selected, e.g. zone 73-78', zone 7.5- 12', etc. The data is presented in this sequence to aid the geologist. Each sample also has the DD-number. These numbers are random, not sequential in Table 1. Also, in the heading is an AuRIC note that says head, in-between, or needs mag sep (magnetic separation).

Magnetic separation is discussed above in Section 3. AuRIC has a procedure for determining whether a head sample is magnetic or not. It is AuRIC's practice, if a head sample is magnetic, to separate the sample into a magnetic and non-magnetic fraction, and subject the non-magnetic portion to the alkali fusion procedure. Those samples with "Needs Mag Sep" were separated by AuRIC and the non-magnetic fraction analyzed.

Table 1 is further divided into a data heading with an AuRIC Number column and a Wendell Number column. With each column the three elements analyzed: Au, Pt, and Pd are listed for each laboratory. AuRIC uses sequential numbers for every sample while Wendell & Company uses the same number for the same sample material. There are two instances where Wendell & Company has a duplicate of the duplicate (EC-05-01 & EC-05-02, zone 55-60'). The same sample pair was processed on consecutive days by mistake.

AuRIC also has additional analyses beyond the duplicate pairs. These additional analyses are from earlier AuRIC analyses and were included in Table 3, ECPM Core Analyses, in the first MetMin Report, Preliminary Report of Evaluation and Validation AuRIC Metallurgical Laboratories Alkali Fusion Analytical Procedure, July 9, 2005. Four of these samples were analyzed as head samples even though they are from core hole increments that were classified for this test as "Needs Mag Sep" in Table 1. This analytical data supplements the current analytical data.

5.2 Data Analysis and Evaluation

To simplify the analysis the PPM values were averaged for each element for each laboratory. An assumption was made that if a value in an element set was more than three times the lowest value in that set, that particular value was discarded as an anomaly. This situation occurred only three times, twice for AuRIC and once for Wendell & Company. In these three situations there are two average lines, one with all the data and one without the anomaly data. All evaluations are based on the anomaly data being excluded. The anomalies are Wendell & Company: EC-05-02, zone 55-60'; AuRIC: EC-05-07 and EC-05-10, zone 0-5'.

In all but three instances the AuRIC analytical values were higher than the Wendell & Company values. Wendell & Company was higher in gold in EC-05-11, zone 5-10'; and in palladium in EC-05-02, zone 55-60' and EC-05-12. Palladium values are so low in all instances that a small change in the third decimal place can have a big impact on the relationship within any data set.

Since the AuRIC values are virtually always higher than the Wendell & Company values, Table 1 presents a comparison in terms of the Wendell & Company value compared to the AuRIC value. For all the analyses presented the Wendell & Company values for gold averaged 70 percent of the AuRIC values, for platinum 60 percent of AuRIC, and for palladium 77 percent of AuRIC. Wendell & Company fared better when considering the "problem" high magnetite

samples. For the six high magnetite samples Wendell & Company averaged the same 70 percent on gold, a higher 65 percent on platinum, and a slightly higher 79 percent on palladium.

Among the six high magnetite samples there were four samples for which AuRIC had also performed head analyses, not analyses on the non-magnetic portion after a magnetic separation. For the four samples there were six results: three times the head sample gave higher results, once lower results, and twice mixed results. The mixed results were when the gold was lower and the platinum the same, and when the gold was the same and the platinum was lower. This data is from core holes EC-05-04, 05, 11 zone 5-10', and 08. The significance of this data is not clear since these 15 samples represent such a small portion of all the analyses performed by AuRIC on the 12 core holes.

5.3 Accuracy and Precision

Accuracy is the most important measure of performance. To determine accuracy Certified Standards have been developed. It is important to understand that precious metal Certified Standards are based on standard fire assay analysis. For hard to analyze materials other methods are used such as the alkali fusion method. The alkali fusion has many more steps than fire assay, and every step is a chance for some losses to occur. In the alkali fusion procedure the accuracy can be expected to drop due to the additional steps. It is at this point that another measure of analytical performance, precision, is important. Precision is the difference between analyses of the same sample by the same procedure.

For example, the Nevada Bureau of Mines Certified Standards 4b and 5b can provide some insight to accuracy and precision. NBM 4b is a gold only standard with the "accurate" value of 0.411 ppm solids, but the precision allowed is 0.07 ppm solid or 17 percent plus or minus. Therefore an acceptable gold result is from 0.341 to 0.481 ppm solid.

NBM 5b is a gold, platinum, and palladium standard. The "accurate" values are 1.650 ppm gold in the solid, 0.317 ppm platinum, and 0.776 ppm palladium. For gold the allowable precision is 0.45 ppm or 27 percent plus or minus which is a range of 1.20 ppm solid to 2.10 ppm solid. For platinum the allowable precision is 0.072 ppm or 23 percent plus or minus which is a range of 0.245 ppm solid to 0.389 ppm solid. For palladium the allowable precision is 0.211 ppm or 27 percent plus or minus which is a range of 0.565 ppm solid to 0.987 ppm solid.

The previous three paragraphs are the important base upon which the following analysis is based. AuRIC's average precision across the 15 samples was for gold, 10 percent; for platinum, 7 percent; and for palladium, 13 percent. Wendell & Company's average precision across the 15 samples was for gold 25 percent. However, if one deletes the three highest spreads, the average precision drops to 20 percent. The reason for suggesting dropping the three highest values is that those three samples were in the first two charges of the brand new electric furnace and may be the result of the learning curve. Wendell & Company's average precision for platinum was 11 percent, and for palladium was 26 percent.

CONCLUSIONS

The following Conclusions are arranged by priority with the highest priority listed first.

- 1. On unknown samples, the AuRIC values are the values to match because of AuRIC's experience with their alkali fusion analytical procedure and the excellent level of precision demonstrated in this 15 sample test of duplicates.
- 2. Wendell & Company demonstrated that the AuRIC alkali fusion procedure is a valid analytical procedure for difficult to analyze materials. Although the Wendell & Company values for gold, platinum, and palladium were less than the AuRIC values, 30, 35, and 23 percent less for gold, platinum, and palladium respectively; the Wendell & Company precision was within acceptable ranges, 11 to 26 percent.
- 3. In Mr. Daniele's opinion the biggest reason that the Wendell & Company analytical values were consistently lower than the AuRIC values is that Wendell & Company had not used lanthanum previously in their solutions for atomic absorption spectrophotometer analyses. The learning curve with lanthanum influenced the results because of unfamiliarity with assay solutions, standards, auto-zero, and blanks containing lanthanum

Table 1 VERIFICATION TESTING

(PPM of Soultions)

Core No.: EC-05-01	Zone: 73-78'		Sample No DD-3		AuRIC:	Head	
AuRIC No. F1760 F1761	Au 0.218 0.206	Pt 0.421 0.457	Pd 0.056 0.06	Wendell No. 1038 1038 1038 1038	Au 0.125 0.118 0.164 0.145	Pt 0.19 0.22 0.27 0.25	Pd 0.046 0.059 0.049 0.04
Average: % AuRIC	0.212	0.439	0.058		0.138 65%	0.23 52%	0.048 83%
Core No.: EC-05-02			Sample No DD-9		AuRIC:	Head	
AuRIC No. F1772 F1773 F1606 Average: % AuRIC	Au 0.193 0.193 0.08 0.155	Pt 0.351 0.385 0.23 0.322	Pd 0.027 0.052 0.04	Wendell No. 1044 1044	Au 0.085 0.1 0.092 59%	Pt 0.14 0.3 0.22 68%	Pd 0.018 0.028 0.023 58%
Core No.: EC-05-02			Sample No DD-4	-	AuRIC:	Head	
AuRIC No. F1762 F1763 F1607	Au 0.22 0.2 0.27	Pt 0.456 0.467 0.72	Pd 0.05 0.05	Wendell No. 1039 1039 1039 1039	Au 0.158 0.533 0.129 0.214	Pt 0.22 0.23 0.25 0.23	Pd 0.044 0.069 0.04 0.053
Average: Ave. w/o 0.533 % AuRIC	0.23	0.548	0.05		0.258 0.167 73%	0.23	0.052
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Core No.: EC-05-03			Sample No DD-2		AuRIC:	Needs Mag Sep	
AuRIC No. F1794 F1795	Au 0.146 0.137	Pt 0.456 0.398	Pd 0.064 0.05	Wendell No. 1037 1037	Au 0.159 0.088	Pt 0.3 0.28	Pd 0.032 0.049
Average: % AuRIC	0.142	0.427	0.057		0.124 87%	0.29 68%	0.04 70%
Core No.: EC-05-04			Sample No DD-11		AuRIC:	Needs Mag Sep	
AuRIC No. F1776 F1777 F1608* *No Mag Sep Average: % AuRIC	Au 0.157 0.2 0.26	Pt 0.412 0.4 0.59	Pd 0.041 0.041	Wendell No. 1046 1046	Au 0.113 0.092 0.102 50%	Pt 0.27 0.28 0.28	Pd 0.026 0.023 0.024 58%
Core No.: EC-05-05			Sample No DD-14		AuRIC:	Needs Mag Sep	
AuRIC No. F1782 F1783 F1609* F1555* *No Mag Sep Average:	Au 0.147 0.145 0.15 0.102	Pt 0.36 0.445 0.65 0.293 0.437	Pd 0.034 0.048	Wendell No. 1049 1049	Au 0.125 0.092	Pt 0.3 0.37	Pd 0.02 0.026
% AuRIC	300	5. 151	3.3 . 1		79%	78%	56%

Core No.: EC-05-06			Sample No. DD-13		AuRIC:	In- between	
AuRIC No. F1780 F1781 F1610	Au 0.139 0.184 0.34	Pt 0.58 0.495 0.54	Pd 0.07 0.056	Wendell No. 1048 1048	Au 0.073 0.048	Pt 0.3 0.31	Pd 0.037 0.022
Average: % AuRIC	0.221	0.538	0.063		0.06 27%	0.3 56%	0.03 46%
Core No.: EC-05-07			Sample No. DD-7		AuRIC:	Head	
AuRIC No. F1768 F1769 F1611 F1517	Au 0.12 0.144 0.11 0.45	Pt 0.407 0.393 0.49	Pd 0.052 0.052	Wendell No. 1042 1042	Au 0.085 0.058	Pt 0.29 0.29	Pd 0.033 0.061
Average: Ave. w/o	0.201	0.43	0.052		0.072	0.29	0.047
0.45 % AuRIC	0.125				58%	67%	90%
Core No.: EC-05-08			Sample No. DD-5		AuRIC:	Head	
AuRIC No. F1764 F1765 F1612 F1517	Au 0.139 0.133 0.16 0.28	Pt 0.414 0.428 0.86 0.19	Pd 0.049 0.048	Wendell No. 1040 1040	Au 0.091 0.133	Pt 0.23 0.22	Pd 0.038 0.041
Average: % AuRIC	0.18	0.473	0.048		0.122 68%	0.22 46%	0.04 83%

Core No.: EC-05-09	Zone: 60-66'		Sample No. DD-10		AuRIC:	Needs Mag Sep	
AuRIC No. F1774 F1775	Au 0.134 0.184	Pt 0.397 0.405	Pd 0.044 0.046	Wendell No. 1045 1045	Au 0.066 0.091	Pt 0.26 0.25	Pd 0.029 0.047
Average: % AuRIC	0.159	0.401	0.045		0.078 49%	0.26 65%	0.038 84%
Core No.: EC-05-10			Sample No. DD-15		AuRIC:	In- between	
AuRIC No. F1784 F1785 F1613 F1526	Au 0.119 0.13 0.13 0.55	Pt 0.427 0.443 0.63 0.27	Pd 0.036 0.055	Wendell No. 1050 1050	Au 0.077 0.082	Pt 0.21 0.3	Pd 0.018 0.024
Average: Ave. w/o	0.232	0.442	0.046		0.08	0.26	0.021
0.55 % AuRIC	0.126				63%	59%	46%
Core No.: EC-05-10	Zone: 39-49'		Sample No. DD-6		AuRIC:	Head	
AuRIC No. F1766 F1767 F1614 F1534	Au 0.135 0.136 0.11 0.236	Pt 0.419 0.382 0.37 0.269	Pd 0.043 0.05	Wendell No. 1041 1041	Au 0.123 0.094	Pt 0.22 0.25	Pd 0.059 0.067
Average: % AuRIC	0.154	0.36	0.046		0.108 70%	0.24 67%	0.063 137%

Core No.: EC-05-11			Sample No. DD-1		AuRIC:	Needs Mag Sep	
AuRIC No. F1792 F1793 F1615* F1548* * No Mag	Au 0.137 0.131 0.09 0.132	Pt 0.407 0.407 0.4 0.284	Pd 0.056 0.055	Wendell No. 1036 1036	Au 0.185 0.099	Pt 0.28 0.25	Pd 0.062 0.033
Sep Average: % AuRIC	0.122	0.374	0.056		0.142 116%	0.26 70%	0.048 86%
Core No.: EC-05-11			Sample No. DD-12		AuRIC:	In- between	
AuRIC No. F1778 F1779 F1616 F1542	Au 0.133 0.15 0.19 3.02	Pt 0.507 0.549 0.36 0.369	Pd 0.057 0.064	Wendell No. 1047 1047	Au 0.147 0.137	Pt 0.23 0.25	Pd 0.016 0.016
Average: Ave w/o	0.873	0.446	0.06		0.142	0.24	0.016
3.02 % AuRIC	0.158				90%	54%	27%
Core No.: EC-05-12			Sample No. DD-8		AuRIC:	Needs Mag Sep	
AuRIC No. F1770 F1771 F1617* * No Mag Sep	Au 0.123 0.142 0.3	Pt 0.417 0.385 0.67	Pd 0.055 0.052	Wendell No. 1043 1043	Au 0.076 0.069	Pt 0.24 0.24	Pd 0.073 0.057
Average: % AuRIC	0.188	0.491	0.054		0.072 38%	0.24 49%	0.065 120%