84-1417-13258

ASSESSMENT REPORT OF THE 1984

GEOLOGICAL AND GEOCHEMICAL EXPLORATION PROGRAM

ON THE

KLI 84-1 CLAIM GROUP

OMINECA MINING DIVISION NTS 94D/8,9

Latitude 56°31' North; Longitude 126°07' West

JOINTLY OWNED BY KENNCO EXPLORATIONS (WESTERN) LTD. and VITAL RESOURCES LTD.

OPTIONED BY BP RESOURCES CANADA LIMITED

GEOLOGICAL BRANCH ASSESSMENT REPORT

5.25

H.Q. Smit Geologist R.E. Meyers Project Geologist

January 1985

BPVR 84-49

84-1417-13258



Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) GEOLOGICAL MAPPING, DRILL CORE LOGGING, SAMP ROCK GEOCHEMISTRY	LING, TOTAL COST \$26,592.59
AUTHOR(S) .H.Q. Smit R.E. Meyers	ATURE(S) . pr. / PCM . REM.
DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILE	November 22, 1984 YEAR OF WORK 84
PROPERTY NAME(S) KLI 84-1 Group (KLI 1-8, 11-	15, 17, 19, CHRIS 1-4 Claims
COMMODITIES PRESENT Magnetite, Gold, Copper	•••••••••••••••••••••••••••••••••••••••
B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN	19 08650
MINING DIVISION .Qmineca 56 ⁰ 31' North LATITUDE	
NAMES and NUMBERS of all mineral tenures in good standing (when work (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Cartified M	was done) that form the property [Examples: TAX 1-4 FIRE 2
KLI 1-8 (89985-89992); KLI 11-15 (89995-8999	9); KLI 17 (90001), KLI 19 (90003);
.CHRIS.1-2.(4855-4856); CHRIS.3-5.(6220-6222)	•••••••••••••••••••••••••••••••••••••••
OWNER(S)	
(1) KENNCO EXPLORATION (WESTERN) LTD. (2)	VITAL RESOURCES LTD.
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(1) BP RESOURCES CANADA LIMITED (2)	•••••••••••••••••••••••••••••••••••••••
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SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization,	
Host Rock - Upper Triassic Takla Group volcar	nic rocks; Gold and minor copper
mineralization associated with magnetite-rick and possibly phases of subvolcanic diorite; F	a skarn zone within andesitic flow,tuffs Regional stratigraphic and structural
trends NW with variable dips; Possible project	ted anticlinal structure; Skarn and
stratigraphy locally complicated by folding	and faulting; Minor gold values associate
.with .quartz .veins .and .altered .tuffs .non-econo	
REFERENCES TO PREVIOUS WORK . See Page 29 of Report 1973-409, 1974-302. Assess Report .# 2818, 33	t; Also GEM 1970-187; 1971-61; 1972-480;

TYPE OF WORK IN THIS REPORT		TENT OF WORK METRIC UNITS)		· · · · · · · · · · · · · · · · · · ·	0	WHICH CLAIMS	-		COST APPORTIONED
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Other									
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Rock	49			1 1-8					641.90
Other	.Data Proce	essing. &. Interpretat	lon						952.00
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Mineralogic									
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PREPARATORY/PHYSICAL			1						
Legal surveys (scale, area)									••••
Topographic (scale, area)					• • • • • • • • • •				
Photogrammetric (scale, area)			1						
Line/grid (kilometres)									
Road, local access (kilometres)									
Trench (metres)		• :							
Underground (metres)									
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FOR MINISTRY USE ONLY		NAME OF PAC ACCOUNT	JT.	DEBIT	CREDIT	REMARKS:	·····		······
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Value claimed (from statement)		
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SUMMARY

Exploration activities in 1984 on the KLI 84-1 claim group involved the relogging, sampling and analysis of existing drill core, geological mapping and geochemical sampling at selected localities. The program was carried out to verify previous drill-hole data, to determine the potential for additional mineralized zones in the drill core and to evaluate the surface geology for new drill targets.

A total of 1593 metres of drill core were relogged and selectively resampled. Results essentially corroborated earlier data, which indicated an irregulr 200 x 100 metre zone of magnetite-rich skarn mineralization, reflected at surface as a sinuously shaped magnetic anomaly (12,000-14,000 gammas). Skarn mineralization is associated with moderate to strong silicification and weak to moderate epidote-chlorite alteration. Previous assay results indicated a gold-bearing zone having a 10 to 30 metre thickness with grades in the 1.6 to 2.4 g/t Au range and 0.46% Cu. However, analysis of core not previously sampled returned gold values of less than 1 g/t and offer little encouragement for additional gold potential.

Minor mineralization also occurs in the form of quartz veins associated with small diorite stocks and as weakly pyritic shear zones in altered andesite tuffs. Quartz vein samples returned a

high of 30,600 ppb Au, with the remaining values <400 ppb. The highest value from sheared tuffs was 3800 ppb, however, neither the tuffs nor the quartz veins have obvious economic potential.

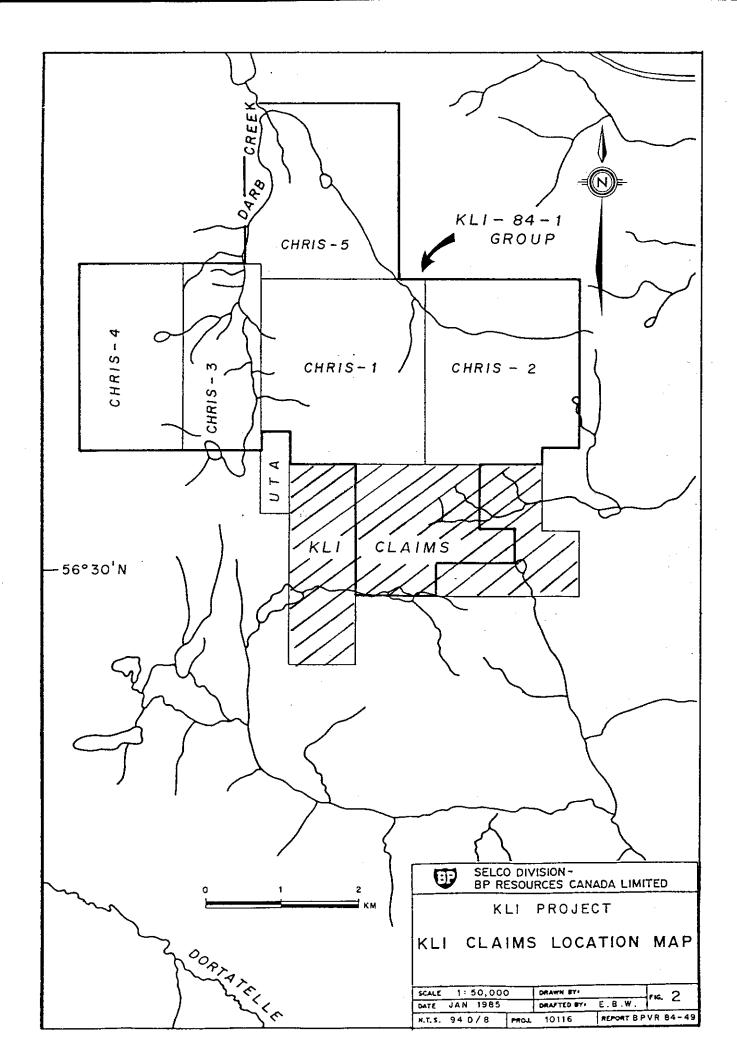
CONCLUSIONS

- 1. Gold mineralization on the KLI claims is principally associated with a localized section of magnetite-rich skarn in Takla Group andesite tuffs. The skarn is delineated at surface by a prominent magnetic anomaly. Although gold is geochemically enhanced throughout much of the skarn horizon, mineralization is irregular, lacks continuity and has no present economic potential.
- 2. Structural trends on the KLI claims are generally northwest, but are complicated by north-trending faults and possibly by folding related to a north-trending anticlinal structure projected from the south. The irregular surface projection of the skarn mineralization and lack of detailed structural data make it difficult to ascertain whether the skarn is structurally or stratigraphically controlled.
- 3. Skarn-related gold mineralization is confined to a zone previously delineated by diamond drilling. Sampling of drill core peripheral to, and below the zone indicates that known mineralization is not continuous.

4. Minor gold mineralization in scattered quartz veins is associated with small diorite stocks and is unrelated to skarn mineralization. An altered and gossanous andesite tuff horizon is extensive in the region and is believed to result from ductile shearing. Sampling of the unit on the KLI claims and elsewhere returned only minor gold values and this unit, along with intrusive-related quartz veins have no significant economic potential.

RECOMMENDATIONS

- 1. A comprehensive review of all surface and drill-hole data from the KLI claims should be completed before any further programs are carried out on the property. Particular attention should be given to the geochemical data, utilizing the available computerized data-plotting techniques whenever possible. Fill-in soil and rock chip sampling may also be required to determine the presence or absence of additional anomalies.
- An updated property-wide magnetometer survey should be completed before any future drilling programs are undertaken.
- 3. As the present information has indicated little potential for an economic gold deposit, no further work is recommended until significantly improved conditions prevail.

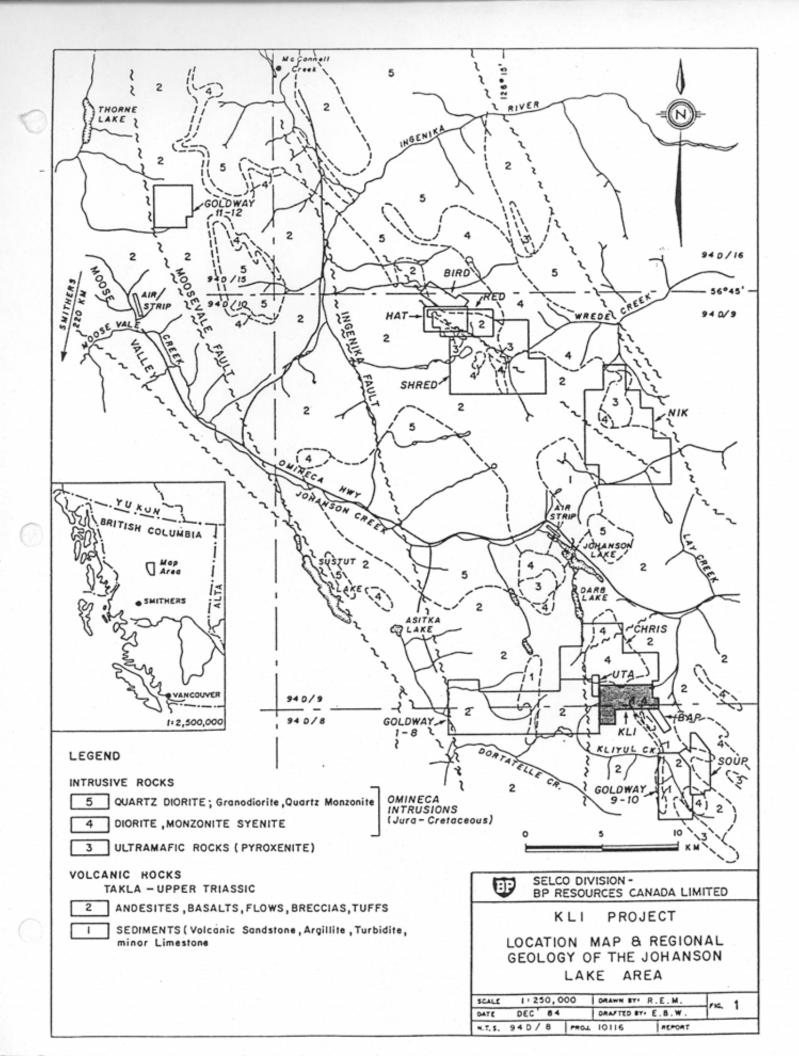


INTRODUCTION

1. Location, Access and Terrain

The KLI 84-1 claim group is located at $56^{\circ}31'$ north latitude and $126^{\circ}07'$ west longitude in the Omineca Mining Division approximately 200 km north-northwest of Smithers and 8 km southeast of Johanson Lake (NTS 94D/8 and 9, Figure 1).

Access to the property (Figure 2) is by helicopter from Johanson Lake which is reached by wheel or float equipped aircraft, or by the Omineca Highway, which is closed in winter. The road is reached from Fort St. James, north of Vanderhoof (430 km) or via highway 97 north of Prince George (500 km). The Dease Lake extension of the British Columbia Railway is operational between Prince George and Driftwood, 65 km southwest. The KLI 84-1 claim group lies above treeline in an area of gentle relief on the south, with a broad, drift-covered valley at 1650 metres, rising to a precipitous ridge on the north having a maximum elevation of about 2270 metres. A small permanent snow field covers a north facing slope on the CHRIS-1 claim. Vegetation in the area consists of a few stunted fir trees (buckbrush) with scattered shrubs and a preponderance of alpine grasses and moss.



2. Claim Status

The KLI 84-1 group consists of 15 two-post claims (KLI 1-8, 11-15, 17, 19) and five MGS claims (CHRIS 1-5) totalling 85 units, which collectively make up 100 claim units. The CHRIS claims are 100% owned by Vital Resources and the KLI claims are 100% owned by Kennco Explorations (Western) Limited. The claims in the group were optioned to BP Resources Canada Limited in 1984.

KLI 84-1 GROUP

CLAIM	RECORD	NO. OF	RECORDING	EXPIRY
NAME	NO.	UNITS	DATE	DATE
KLI 1	89985	1	Aug. 10/70	Aug. 10/93
KLI 2	89986	1	Aug. 10/70	Aug. 10/93
KLI 3	89987	1	Aug. 10/70	Aug. 10/93
KLI 4	89988	1	Aug. 10/70	Aug. 10/93
KLI 5	89989	1	Aug. 10/70	Aug. 10/93
KLI 6	89990	1	Aug. 10/70	Aug. 10/93
KLI 7	89991	1	Aug. 10/70	Aug. 10/93
KLI 8	89992	1	Aug. 10/70	Aug. 10/93
KLI 11	89995	1	Aug. 10/70	Aug. 10/93
KLI 12	89996	1	Aug. 10/70	Aug. 10/93
KLI 13	89997	1	Aug. 10/70	Aug. 10/93
KLI 14	89998	1	Aug. 10/70	Aug. 10/93
KLI 15	89999	1	Aug. 10/70	Aug. 10/93
KLI 17	90001	1	Aug. 10/70	Aug. 10/93
KLI 19	90003	1	Aug. 10/70	Aug. 10/93
CHRIS 1	4855	20	Oct. 25/82	Oct. 25/86
CHRIS 2	4856	20	Oct. 25/82	Oct. 25/86
CHRIS 3	6220	10	May 4/84	May 4/87
CHRIS 4	6221	15	May 4/84	May 4/87
CHRIS 5	6222	20	May 4/84	May 4/87

3. History

Work in the Johanson Lake area dates back to the 1940's shortly after placer gold was discovered at McConnell Creek, about 50 km northwest. More recently, in the 1960's and 1970's exploration was directed towards porphyry coppermolybdenum and volcanic-hosted stratabound copper deposits. The most impressive find has been the Sustut Copper deposit discovered by Falconbridge Limited, 40 km west of Johanson Lake. Other drilling ventures were undertaken in 1982 by Lornex Mines Limited on upper Lay Creek and by Getty Mines Limited on Porphyry Creek to the east (Carter 1983). The KLI claims were staked in 1970 by Kennco Explorations (Western) Ltd. who carried out silt and soil sampling and geophysical surveys, including magnetics and IP. The property was optioned to Sumac Mines Ltd. in 1973 who drilled three x-ray and eleven BQ holes during the following two years. Vital Resources optioned the claims from Kennco in 1980 and subsequently drilled four NQ holes in 1981. Preliminary metallurgical tests showed gold to be principally associated with chalcopyrite. CHRIS 1 and 2 mineral claims were staked by Vital in 1982 and CHRIS 3-5 were staked in 1984.

4. 1984 Exploration Activities

The 1984 program consisted of relogging, sampling and analysis of existing drill core, along with property-wide

mapping (1:5 000) and geochemical sampling (rock chip and soils). The mapping was carried out to verify previous geological data and to obtain more detailed descriptions of potential mineralization. Relogging of drill core was completed to verify previous logs and additional core analyses were completed to determine the potential for new zones of gold mineralization in previously tested areas.

REGIONAL GEOLOGY

The KLI claims (Figure 1) are situated in the northern extension of the Quesnel Trough within the Intermontane Tectonic belt of the Canadian Cordillera. The Quesnel Trough assemblage consists principally of the Upper Triassic to Lower Jurassic Takla Group volcanic and sedimentary rocks, correlatives of which extend from south of the U.S. border to north of the Stikine River (Monger, 1977). The volcanic rocks consist of island-arc type calc-alkaline to alkaline flows and volcaniclastic rocks of predominantly submarine origin, although subaerial volcanic complexes also occur in the region. The extrusive rocks are interlayered with volcanogenic sandstones that grade into laminated siltstones, argillites, minor conglomerates, tuffaceous limestone and limestone breccia.

The stratigraphy is intruded by granitic to intermediate plutons of Jura-Cretaceous age, which are satellitic to the Hogem Batholith and by remnants of ultramafic intrusions, a few of which are locally related to deep-seated faults transecting the region. In the KLI area the principal rock types are augite porphyry flows and andesitic tuffs with comagmatic diorite intrusions of similar composition. To the south a north-northwest-trending anticlinal structure straddles Kliyul Creek which separates the distinctive characteristics of an east to west lithologic transition from volcanic to sedimentary facies. Tuffaceous sediments are interlayered with calcareous sediments and gritty limestones striking parallel to the anticline axis and can be traced northward to the KLI claims.

Mineralization in the area occurs in a variety of forms and associations (Bradley, 1984). Copper and molybdenum porphyrytype occurrences are associated with monzonitic intrusions and copper occurs as minor fracture fillings and disseminations in the Takla volcanic rocks. Numerous gold-bearing quartzcarbonate veins with semi-massive sulphides, including chalcopyrite and pyrite are commonly and spatially associated with subvolcanic hornblende diorite sills and dykes within the Takla stratigraphy.

Magnetite-rich skarn with associated gold mineralization occurs in the area, notably at two localities. The largest surface exposure lies on the SOUP claims to the south and is described in another assessment report (Smit and Meyers 1984). Gold mineralization on the KLI claims is also associated with a magnetite-rich skarn zone occurring within andesitic volcanic rocks, in a geological setting similar to that on the SOUP claims to the southeast.

PROPERTY GEOLOGY

The volcanic and sedimentary rocks on the KLI claims belong to the Upper Triassic Takla Group (Figure 3). They are intruded by a few small dioritic intrusions of presumed Jurassic to mid-Cretaceous age. The lower part of the volcanic section consists predominantly of an andesitic feldspar crystal tuff unit. The upper part of this unit is sheared, silicified, altered and pyritized. The overlying volcanic rocks are more augite-rich with interlayered coarse pyroclastic rocks. At or near the base of the upper augite-rich unit a discontinuous fragmental zone contains deformed limestone clasts and lenses.

The sequence has been faulted and locally sheared. The axial trace of a broad anticline observed at Kliyul Creek trends northward across the property, but the stratigraphy does not appear to be highly folded.

The rocks have undergone regional greenschist metamorphism, and local propylitic alteration. Magnetite-rich copper and gold bearing skarn mineralization and auriferous quartz veins occur within the volcanic rocks.

1. Lithologies

- a) Volcanic Rocks
 - (i) Andesite Tuff (Unit 1)

Most of the rocks on the property are andesitic tuffs, though minor subvolcanic intrusions and possibly some flows occur. Unit 1 has been subdivided into an upper and lower tuff unit and three altered tuff units.

(ii) Upper Andesite Tuff (la)

The upper tuffs are augite-rich and have a coarser clastic component than the lower section. They are andesitic to basaltic in composition and include feldspar, feldspar-augite and augite crystal tuffs, lapilli tuffs and agglomerates with augite-bearing clasts. The rocks are medium grey-green to green and weather greener than the underlying rocks. The main cliffs on the ridge along the north side of the claims are composed of this unit.

(iii) Lower Andesitic Feldspar Tuff (lb)

The lower part of the volcanic section is mainly feldspar crystal tuff with 40% to 60% feldspar crystals (1 to 3 mm) in a fine grained matrix. Minor mafic minerals occur, but never in amounts greater than 5% of the rock. No visible guartz was observed. Unaltered rock is medium to light grey-green and weathers light to medium grey. Sections of crystal-lithic tuff and minor subvolcanic intrusives are found in the unit, Outcrops in the valley along Lay Creek are composed of the same rock type, as are some drill intersections, including all intersections in the main magnetic anomaly. Within the main anomaly, the unit is further subdivided into an ashy tuff, a highly altered magnetic tuff and a feldspar porphyritic section which is either a flow or a subvolcanic intrusive.

(iv) Altered Andesite Tuff (lc)

Overlying unit 1b is an altered pyritic feldspar crystal tuff that weathers to form a prominent orange gossan visible along the northern side of the KLI claims. The lithology of the zone varies from a

very hard, siliceous, light grey rock to a soft, white, locally schistose rock which is strongly altered to sericite and minor kaolinite. Crystal tuff textures are preserved in the least altered portions of this rock, but are completely destroyed where alteration and shearing are more intensely developed.

On the KLI claims this strongly altered unit represents the extension of a similar siliceous and sericitic light grey pyritic unit which occurs on the SOUP and BAP claims extending northwestward to the KLI property. On the northwest side of the KLI claims the unit interfingers with a quartz-carbonate altered argillaceous unit.

Most of the drill holes outside the main anomaly intersect the altered andesite unit. Unweathered sections found in the drill core are light grey to greenish grey, with strong quartz-sericite <u>+</u> kaolinite alteration and pale chloritic alteration with 3% to 5% disseminated pyrite. In drill hole KL-10 a few layers of tuffaceous argillite are interbedded with the altered tuffs.

The true thickness of the unit is not readily determined in most exposures. In the northwest corner of the claims the altered tuff is between 100 and 200 metres thick, while in the southeast corner it is over 300 metres thick. Pods of unaltered andesite occur within the altered zone indicating that drill hole intersections may not necessarily represent the true thickness of the altered unit on surface.

Intersections in the main magnetic anomaly contain similar horizons of altered tuff in 1 to 10 metre wide bands. They are always sheared, foliated and some contain fault breccia. Quartz-carbonate stringers are common. Contacts with surrounding rock are gradational and intensity of alteration varies with shearing, so that it is likely that the alteration is primarily related to ductile shearing which has occurred within the feldspar-rich tuffs.

(v) Altered Tuffaceous Argillite (ld)

In the northwest corner of the property, the quartzsericite-pyrite altered tuffs grade into, or interfinger with quartz-carbonate altered tuffaceous agrillite. This unit is highly altered, foliated

and schistose in places. Most original textures have been destroyed. There is strong quartz-sericite-chlorite alteration and the rock is weakly to moderately calcareous. Some kaolinite also occurs and schistose zones have a secondary mica sheen on foliation surfaces. The rock contains minor amounts (3%) of disseminated pyrite and weathers to orange-brown. Most of the mapped extent of this unit on the claims is composed of small, flakey talus, with only a few bedrock outcrops. The unit continues to the west where it forms gossanous outcrops near the headwaters of Goldway Creek.

(vi) Hornfelsed Andesite Tuff (le)

The andesitic tuffs have been weakly hornfelsed in a 500 by 700 metre zone, surrounding a small dioritic plug in the northwest corner of the property. The rocks in this zone vary from fine to medium grained, grey-green andesite to very fine grained, medium to dark grey with faintly relict feldspar crystals. The hornfelsed rock is very hard, slightly pyritic (up to 2%) and in places weakly magnetic, with moderate iron staining. Small sections of the faulted rock contain up to 10% augite crystals, however, the dominant rock type is feldspar crystal tuff. Whether or not this is a separate unit or part of the Lower or Upper andesite tuff is unclear.

(vii) Limestone Breccia and Tuff (Unit 2)

This unit contains sections of andesitic crystal tuff interlayered with tuff-breccia layers containing highly deformed dark grey limestone lenses and fragments. The limestone content varies from 5% to 40% with fragments up to 1 metre in size. Some limestone-rich sections contain fossils and fossil fragments including brachiopoda shells and Upper Triassic ammonites (Monger 1977). Thin layers of argillite are also present.

The limestone unit outcrops at several localities; on the small ridge directly west of Divide Lake, in a few small outcrops south of West Lake, in the northwest corner of the property and in the central part of the ridge on the north side of the property. In the two eastern exposures, the unit is overlies the altered andesite unit (lc), within or at the

base of the upper andesite tuff (la), whereas, in the northwest corner, it underlies unit lc. It is unclear if there is more than one limestone bearing unit, or whether structural complications have affected the stratigraphy. Thickness and lateral extent of the unit varies and is largely unknown due to spotty outcropping. It is not intersected in drill holes.

b) Intrusive Rocks

(i) Augite Porphyry Dykes (Unit 3)

Augite porphyry dykes of andesitic to basaltic composition occur throughout the property with ≤ 1 metre widths. Augite phenocrysts range from 1 to 4 mm across. The dykes intrude all Takla rocks, but not other intrusives. They are believed to be Takla in age and are present but not abundant within the augite-rich upper andesite tuff (la).

(ii) Feldspar Porphyry Dykes (Unit 4)

A few feldspar porphyry dykes of intermediate composition occur throughout the KLI claims. The dykes are medium grey-green, less than 10 metres wide and have euhedral to subhedral feldspar

phenocrysts in a fine grained matrix. Most phenocrysts are 1-4 mm in size, however, larger phenocrysts up to 10 mm are present in a dyke in the north-central part of the claims. The feldspar porphyry dykes intrude all the Takla rocks and their similarity in composition suggests that they too are comagmatic dykes.

(iii) Diorite (Unit 5)

Small stocks of diorite which are probably Jurassic to mid-Cretaceous in age intrude the KLI volcanic stratigraphy. In the northwest corner of the property, there is a 200 x 75 metre diorite outcrop composed of 50% to 60% feldspar, 30% hornblende, minor augite and biotite and 5% to 10% interstitial quartz. The rock is medium grey, weakly magnetic with minor disseminated pyrite and weathers pale brown. There are abundant volcanic inclusions at the contacts which are also present up to 30 metres into the intrusive, suggesting forceful emplacement of the magma. Minor flow banding occurs at the outer edge.

Mafic minerals are strongly chloritized. Minor epidote occurs within the matrix and some fractures have sericitic envelopes with coarse disseminated pyrite and magnetite.

A number of dioritic dykes of similar composition transect the Takla rocks adjacent to the main stock and are probably offshoots from it. The size of the hornfels zone suggests that the intrusion increases in size at depth.

(iv) Hornblende Diorite (5a)

Along Lay Creek there is a 20 metre outcrop of hornblende diorite which contains 25% to 35% euhedral hornblende phenocrysts (to 8 mm), in a feldspar-rich matrix. It has minor pyrite and is weakly magnetic. The rock weathers to medium grey and forms small, blocky talus. A 20 metre section of diorite having similar composition was intersected in DDH KL-15.

(v) <u>Minor Dykes</u>

A number of minor dykes of various composition also occur on the property which include:

- A 0.5 metre wide biotite-quartz porphyry dyke at 67+35E, 66+20N. It has widely scattered quartz phenocrysts (5 mm) and biotite phenocrysts (2 mm) in a fine grained matrix of pinkish orthoclase, minor plagioclase and quartz.
- b) Andesitic to basaltic dykes which are fine grained to aphanitic, medium to dark green and less than <1 metre thick are found in the drill and on surface. These dykes are presumed to be of Takla age.
- c) Aplite dyke rubble occurs along Lay Creek near 70+65E, 60+40N. Blocks up to 2 metres across are found for 15 metres in a north-south direction. The rock is light brownish to white, aphanitic, and very hard.
- d) A mica lamprophyre dyke occurs within a fault zone in drill hole KL-ll. It has scattered biotite and minor hornblende phenocrysts in a feldspar-rich, light brown matrix.

c) Ferricrete Zone

Along the banks of Lay Creek a ferricrete layer contains rounded, multi-lithic clasts cemented with very iron-rich clay and soil. The layer is up to 2 metres thick, flat lying and appears to blanket the underlying bedrock. It is probably a coarse glacial till cemented by ferruginous fine sediments in a groundwater emergent zone. As it is not a rock unit, the ferricrete was not outlined on the geology map. However, its presence may affect surface geochemistry in the area.

2. Structure

Very fine structural orientations were obtained from outcrops containing limestone and argillite pods (Unit 2), which are somewhat disoriented and may not reflect true structural trends. In the eastern part of the property rocks generally strike southeast and dip moderately northeast. In the central area dips are moderately to the west and in the northwest corner the rocks strike southeast and dip moderately northeast. Although some large scale folding is suggested by outcrop patterns, little fold deformation was observed on a smaller scale other than soft sediment deformation in the limestone clasts of unit 2.

Shear zones having variable orientation are particularly notable in the altered andesite tuff unit (lc). On the north-central ridge, shear foliation commonly strikes east-west and dips steeply to the north. In the northwest corner of the claim, the shear direction trends southeast-northwest with moderate to steep northeast dips.

A major fault trends north from Kliyul Creek through Divide Lake and has apparently uplifted the northeast side. Offsets in the gossanous altered andesite unit (1c) on the north ridge suggest a series of faults that downdrop the eastern end of the ridge. In the eastern block the altered tuff (1c) dips easterly beneath the talus and possibly reflects the anticlinal structure which trends north from Kliyul Creek.

3. Alteration and Mineralization

The rocks on the Kli claims have all undergone regional greenschist metamorphism, resulting in chloritized mafic minerals and weakly to moderately sericitized feldspars. Propyllitic alteration (epidote-quartz-calcite) overprints the chloritic alteration and is common in units la and lb as stringers and is pervasive in the wallrocks. In addition, quartz-sericite-pyrite alteration occurs pervasively in unit lc and is apparently related to ductile shearing.

Mineralization discovered on the property occurs in three ways; in magnetite-rich skarn; in auriferous quartz veins; and rarely, in shear zones within the altered andesite unit.

a) Magnetite Skarn

The most significant mineralization discovered on the property is in a 200 x 100 metre zone of magnetite-rich skarn that shows up as a pronounced, sinuously shaped, magnetic anomaly. The skarn horizon occurs within the lower andesite tuff (lb). Magnetite is a very fine grained replacement of andesitic tuff and occurs less commonly in stringers. It is associated with moderate to strong silicification and more widespread weak to moderate epidote and chlorite alteration. Calcite is not common and no calc-silicate minerals typical of skarns were observed.

Drill hole data (Appendix 1) indicates that magnetite-rich rock is confined to only one zone. Strong alteration masks original rock textures, but the host rock appears to have been originally an andesitic feldspar crystal ash tuff. Drill hole intersections of skarn range from 5 to 65 metres in width. Mineralization is hosted by less altered andesitic feldspar porphyry and crystal tuff. The feldspar

porphyry unit has variable silicic and epidote alteration with weak to moderate epidote-quartz stringers. In deeper sections quartz-sericite and quartz-chlorite alteration are more common. The three deeper holes, KL-17, 18 and 19, have an andesitic ash tuff with gypsum stringers on one side of the magnetite-rich layer.

Orientation of the stratigraphy in the area of the skarn is difficult to ascertain due to sparce outcrop and destroyed core contacts. Thus, it is unknown whether the magnetite-rich layer is stratigraphically controlled as a favourable skarn horizon, or structurally controlled as a crosscutting replacement feature.

Gold is enhanced throughout all of the drill core within the magnetite anomaly, but economically significant mineralization occurs only within the magnetite-rich layer. Copper occurs as disseminated and stringer chalcopyrite. No visible gold or silver was observed, but a mineralogical study found rare native gold in extremely fine (0.5-1.0 micron) grains enclosed in chalcopyrite and pyrite (Gasparinni 1981).

Intersections near the edge of the magnetic anomaly (KL-19 and KL-13) and in deeper zones (KL-17, KL-18 and 19) show weaker gold values than those in the centre of the anomaly. Therefore, it appears that significant mineralization within the main anomaly does not extend laterally or vertically beyond the area outlined.

b) Quartz Veins

Quartz veins up to 2 metres wide are found at various localities on the property, but not in abundance. They contain up to 5% pyrite and minor chalcopyrite. Sporadic gold values up to 1 oz/ton are also present but generally much lower values were obtained.

A few radiating quartz veins occur in the vicinity of both of the small diorite stocks. Other quartz veins which occur in the eastern part of the property are not obviously associated with intrusive rocks, however, as most of the area is till covered, the nature of veining and potential mineralization is not revealed. In any case, the sporadic nature and limited extent of vein mineralization throughout the property suggests that quartz veins are poor individual exploration targets, however, if found to be present with significant vein density, they might collectively offer potential.

c) Shear Zones (Altered Andesite Tuff)

Only minor gold and copper enrichment was found in the altered andesite tuff (lc), except within two shear zones. The highest values returned from a shear was 3800 ppb gold (1 metre). A high copper value of 3265 ppm over 3 metres was obtained from a sheared feldspar porphyry dyke which cuts the altered tuff. Generally these results concur with the sampling results reported elsewhere in the area where the same, or a similar unit was sampled on the SOUP claims. Although the tuff is enriched in pyrite and has intense gossanous alteration it does not appear to offer significant gold potential on the KLI property.

GEOCHEMISTRY

Geochemical investigations were undertaken on the KLI claims to sample all drill core not previously sampled, to check drill core grades from previous work, and to attempt to locate the source of high gold soil anomalies from a soil grid completed in 1981 by Vital Resources Limited. A total of 269 drill core, 49 rock chip and 2 soil samples were analyzed (Figure 4).

1. Drill Core

Within the main magnetic anomaly all drill core not previously analyzed was split and sampled in 3 metre lengths. One previously sampled hole, KL-17, was 1/4 split and also sampled in 3 metre lengths.

Almost all of the newly sampled core showed minor gold enhancement, but only a small number of samples had greater than 300 ppb Au. Four samples in KL-19 had values in excess of 300 ppb Au in the interval from 72 to 105 metres, which shows the strongest enrichment (890 ppb Au) in the 102 to 105 metre interval.

No new mineralized zones were obtained in hole KL-18 which returned three samples greater than 300 ppb Au. One of these was a resample of previously sampled core, with a second anomalous value adjacent to it. The third sample (350 ppb Au) is in the uppermost interval of the hole.

In KL-16 one sample at 21 to 24 metres returned 985 ppb Au with lower values in adjacent core.

Hole KL-7 was resampled with lower but generally consistent values with those reported earlier. The new results outline a mineralized interval from 35 to 56 metres, grading 0.07 oz/ton gold. Previous results indicate a mineralized interval from 34 to 55 metres, grading 0.08 oz/ton gold. Differences in results may perhaps be due to differing analytical techniques as well as difficulties experienced in obtaining representative samples from previously split core. Other sections that were resampled from previously split core in KL-18 had comparable results to the former work.

Drill core from outlying holes, KL-9 through 12, 14 and 15 were sampled by taking one sample from each box of core. One quarter of the core in each box was split. None of the samples from these holes had gold values in excess of 100 ppb and most were at the detection limit (5 ppb).

2. Rock Chip and Soil Samples

Three continuous rock chip sample lines were placed to sample representative sections of the altered rocks (Figure 4). Most samples were taken over 10 metre intervals. The first line extends northward from the base of outcrop on line 65E; the second is through hornfelsed tuff on line 52E and the third extends down a depression through gossanous outcrop between lines 46E and 47E along the north side of the property. In addition, a few selected samples were taken from quartz veins and adjacent wallrock from limestone and argillite (Unit 2) and from the altered andesite tuff (1c). A few sampled veins and wallrocks returned enhanced gold The highest sample from a one metre wide vein at values. 54+00E, 68+10N was 30,600 ppb Au. All remaining vein samples had less than 400 ppb Au.

One sample of the altered andesite tuff (lc) analyzed 3800 ppb Au (sample 873001). It was taken from a one metre

interval across a shear zone. Two other samples from this unit returned 375 ppb (873002) and 115 ppb (873037). All the remaining samples from this unit had low values. A sheared feldspar porphyry dyke within the altered andesite had some localized copper enhancement, (sample 873047 at 3265 ppm Cu). One other sample from a pyritic andesitic tuff along Lay Creek at 69E had minor malachite staining and 375 ppb Au. All other rock chip samples had trace to very minor gold values.

Two soil samples (873033 and 873034) were taken from the clay-rich matrix of the ferricrete layer overlying bedrock along Lay Creek to determine if it could be responsible for high soil gold values found close to the creek. The samples returned had 55 ppb and 85 ppb Au, respectively. This suggests that soil samples taken from this layer may show some till-derived gold enrichment, however, the ferricrete layers may conceivably be blocking even higher values from the bedrock material below. REFERENCES

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APPENDIX 1

DIAMOND DRILL LOGS

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\$s	ELCO	EXPLORATION WESTERN CANA				DR			LC) G		HOLE NOKU-5
RILLING CO) .	LOCATION SKET	сн	DEPT	н р	TESTS	AZIMUTH	DAT	E STARTE	D: August 13, 1984	PROJE	KL1
]		- COLLA		- 55	0600		E COMPLET	August 16, 1984	N. T. S. 1	94D/8
		r		1				{	AR ELEV.	1748 m	LOCATH	
		ť.		<u> </u>	[1	THING	45 59+70N		
									TING	10+75W 64+92E		
									NUTH:	060		
				ļ				DEP		82.9 m		OGGED: September 18, 1984
OLE TYPE							<u> </u>	COR	E SIZE	B.Q.	LOGGEC	89 * Hans Smit
INTE	RVAL	АОСК ТҮРЕ			DESCR	PTION				STRUCTURE		REMARXS
FROM	то		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS P	RACTURES	·	(FRACTURES, FAULTS, FOLDING, ETC)-	BEDDING,	MINERALIZATION, TYPE, AGE RELATION
					ļ					Hole previously spli	t and sam	pled.
			ļ		{							-
0	6.7	Overburden	<u> </u>									
	[
6.7	15.8	Andesite	Med.	Fine	Ppy,	Qtz		50-100		Andesite feld ppy; f	ine grain	; mod to strong silicic alt.
	<u> </u>	Feld Ppy	Grey-		Mottled	Chlorit				has resulted in a ve	ry mottle	d texture; ppy texture often
			Green		Alt.	Epidote	1			masked by alt. but w	here visi	ble there is 40% 1 to 2 mm
						Sericit			1	white to pale green	(saussuri	tized) feldspar in a fine
	!									grain matrix; minor	chloritiz	ed mafic xtals;
										- mafics chloriti	zed; feld	spars seritized; mod.to stron
										qtz alt; v. minor qt	z stringe	rs; weak epidote alt. and
										minor epidote string	ers; mode:	rately magnetic; <1% diss
									1.	pyrite; trace diss c	py. (6.7	to 15.8) Fe-staining on
									[fractures; v. minor	malachite	+ Oxidat. zone (6.7 to 7.7)
										rock quite light cold	oured \rightarrow b.	leached.

PAGE ____ OF ___ 5

DRILL HOLE NO. KL-5

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\$s	ELCO	EXPLORATION WESTERN CANAD				DR		L	DG		HOLE NOKL-5
INTER	VAL					RIPTION		• • • •		STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	(FRACTU ETC)	RES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION
15.8	41.0	Andesitic	Dark	V.fine	Alt.	Qtz	Сру	50-100	Andest	tic Tuff; dark green-gre	y; variable unit; some very
		Tuff	Grey-	to	Veining;	Chlorite			fine o	grained; some fine grain	to ppy texture; and minor
		(Magnetic)	Green	Fine	Blotchy;	Epidote			what 2	looks like lapilli ⇒ but	could actually be alt. blebs
					Рру	Magnetit			Due to	o the very variable natu	re of the rock have called it
				ł					a tufi	f ⇒but it is possible t	hat it is feld ppy that has
						•			been l	highly, and variably alt	ered ⇒ it is same unit as
			l						other	And, magnetic tuffs in o	ther holes.
					<u> </u>				— т	mod.to generally strong	qtz alt.; mod. intensity of
								<u> </u>	qtz ar	nd greyish qtz (alterati	on) stringers (where part of
									host i	rock remains along strin	ger intimately mixed with qtz
									string	gers at various orientat	ion to C.A.
				ļ	<u> </u>	·			[r	nod.epidote alt. and str	ingers; epidote stringers
		· · · · · · · · · · · · · · · · · · ·	···						cross-	-cut qtz and lie in cent	re of qtz stringers
										mafic component chloriti	zed
				[ļ			<u> </u>	- 1	strongly magnetic due to	very fine grain
		<u>-</u>	ļ						d	lisseminated MGT and som	e coarser MGT on fractures
		·		<u> </u>					`	.minor hematite stainin	g on fractures
			[- 1	oyrite 1 to 2%, dissemina	ted; with rare pyrite
			}		ļ					stringers and with qtz s	tringers
					<u> </u>					py 1% with pyrite and r	arely by itself
			<u>}</u>					<u> </u>			
	.							[]	21 m)	An increase in py/cpy s	tringers (still minor) has
									resu	ilted in 1 to 2% cpy now	(2% pyrite) continues till
								{	25 л	when cpy goes back to	1% and pyrite 1 to 2%.
			<u> </u>							•	· · · · ·

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EXPLORATION DRILL LDG SELCO HOLE NO. KL-5 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS TEXTURE ALTERATION MINERALS FRACTURES PER METRE GRAIN COLOUR тο FROM 25 m) Qtz stringers decrease in abundance, only minor amnts after this; epidote has also decreased some (now weak to mod.amnts) no longer any hematite on fractures. 31.2 m) 15 cm of small rubbly core; guite pyritic; only 75% recovery in the interval which it is in, so seems to have lost core here. 32 m) MGT content decreasing; now mod to occasionally strongly magnetic; only v. minor qtz veins/stringers Med. to left; still mod. to strong pervasive gtz alt. however; Dark core lighter in colour but still mottled dark grey-Greygreen spots. Green - cpy now only ~0.2%; pyrite 1%. 34.6 m) 30 cm of rounded core of light grey highly silicic and pyritic rock 1% to 10% pyrite; only weakly magnetic. Mottled Qtz 100-500 Andesite, fine grained, med. grey-green, some looks Fine Сру Andesite Hed. 41.0 Grey-Epidote igneous, some look tuffaceous so unknown which it is, or possibly both; no sharp contact within however; quite Chlorite Green altered and mottled but can sometimes make out original \Rightarrow equivalent to texture which is fine grained, fairly equigranular with bottom of KL1 8 up to 20% mafics; rest feldspars and v. fine matrix; sometimes crystals are quite anhedral and rock looks like possibly a tuff, however generally looks more igneous.

PAGE _____ OF _____

DRILL HOLE NO. KL-5

-	LCO	EXPLORATION WESTERN CANAL				DR				3	HOLE NO. KL-5
INTERV	AL		4			RIPTION			ſ	STRUCTURE	REMARXS
ROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		FRACTURES, FAULTS, FOLDING, DEDDING,	MINERALIZATION, TYPE, AGE RELAT
										- mod. qtz alt.; mafics ch	loritized; only v. minor
				}]			stringers; mod. epidote alt.;	pyrite 1 to 2%; cpy v. mi
		· · · · · ·								rock still moderately magneti	
										MGT.	
											· · · ·
										⇒ core recovery and qualit	y is much poorer; mostly c
ł										is in small, sometimes rounde	d, pieces.
						}				55 m) Decrease in MGT; now we	ak to moderate.
										64.0 m to 64.5 m} Light grey	silicic rock with 3% diss.
			<u> </u>							py and 0.5% diss. cpy,	
			. [ļ			1	- core in very small, round	ed pices from here to 66.1
					<u> </u>					only 60% recovery in 2.5 m	interval in which it is in
			}		<u> </u>					(65.8 to 66.6 m) More light g	rey siliceous rock with 39
					ļ					pyrite; rubbly core; core n	ow only occasionaly weakly
										magnetic; epidote also in s	mall amounts.
69.5	72.2)	Augite Ppy	Med.	Fine	Massive;	Chlorite		10-25		Augite ppy dyke; basaltic to a	andesitic; fine grain, med
		Dyke	Green		Рру	Epidote				green with 5% up to 3 mm augi	te crystals.
				-						- mafics chloritized	
										- minor epidote alt.; mino	r calcite stringers
										- occasionally weakly magn	etic; now pyritic

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ORILL HOLE NO _ KL-5

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S ai	ELCO	EXPLORATION WESTERN CANA				DR	ILL		LO	G	HOLE NO. KL-5		
INTER	VAL		1		0 € \$ (RIPTION	1		<u> </u>	STRUCTURE	REMARXS		
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	1	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELAT		
										poor recovery of the roc.	k on either side		
										- core not previously samp	led from 71 m on.		
					<u> </u>			<u></u>					
				[ļ	} 		<u> </u>		- 72.2 m back into andesit	e unit; weak to mod. magne		
								 		pebbly core for most; stil			
			1		1				[fractures; minor cpy at 74.5 m; trace for rest; p			
									ļ	<13.			
					ļ			 					
				- .	<u> </u>					82.9 → END OF HOLE			
								<u> </u>					
									ļ	· · · · · · · · · · · · · · · · · · ·			
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SAM		IN CANADA							sample data				
	Ρ٤Ε			CORE	RECOVERY	VISUAL ESTIMATES	1	GEC	СНЕН	RESULTS			
FROM	τo	TOTAL METRES	Sp. Gr	%.	& AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)			{	
71.0	74.0	3.Ŏ		55	45		135	996	0.4				
74.0	77.0	3.0		70	30		125	992	0.3				
77.0	80.0	3.0		60	40		120	897	0.4				
80.0	82.5	3.0		60	20		65	658	0.3			-	
		Í						ļ				<u> </u>	
		{ 		 		.				· · · - · · -			
							<u> </u>	·					
				- 01	.o 71.0 m			-				1	
				pre	viously split							1	
						- • • •						ļ	
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·		}	· · · · ·			· · · · · · · · · · · · · · · · · · ·		} -		<u> </u>			
						· · · ·			· · · · · · ·				
		<u> </u>			·			1		<u> </u>		1	
												<u> </u>	
				<u> </u>				<u> </u>			1	1	
	77.0	77.0 80.0	77.0 80.0 3.0	77.0 80.0 3.0	77.0 80.0 3.0 50 80.0 82.5 3.0 80 50 50 50 50 50 50 50 50 50 50 50 50 50	77.0 80.0 3.0 50 40	77.0 80.0 3.0 60 40 80.0 82.5 3.0 80 20	77.0 80.0 3.0 60 40 120 80.0 82.5 3.0 80 20 65	77.0 80.0 3.0 60 40 120 897 80.0 82.5 3.0 60 20 65 658 .	77.0 80.0 3.0 60 40 120 897 0.4 80.0 82.5 3.0 60 20 65 658 0.3	77.0 80.0 3.0 60 40 120 897 0.4 1 80.0 82.5 3.0 60 20 65 658 0.3 1 1	77.0 80.0 3.0 60 40 120 897 0.4 80.0 82.5 3.0 60 20 65 658 0.3	

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PAGE 1 OF 1

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\$s	ELCO	EXPLORATION WESTERN CANAG				DR			ᄕ	G		НОЦЕ NOКЦ-6
ILLING CO	».	LOCATION SKET	СН	DEPT	* 0	TESTS	AZIMUTI	DATE	STARTED	August 16, 1984	PROJEC	T' KLI
				COLL		- 50	1800	DATE	COMPLETED		N. T. S.	94D/8
						_		COLL	AR ELEV,:	1748 m	LOCATIO	
				-				TRON	TUNG	45		
								EAST		10+75W		
						-		AZIM		180°		
								DEPT		78.9 m	DATE L	September 5, 1984
LE TYPE								CORE	SIZE	в.Q.	LOGGED) 8Y t Hans Smit
INTE	RVAL	0.004 7405			DESCA	PTION				STRUCTURE		AEMARXS
ROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		{FRACTURES, FAULTS, FOLDING, BE	DDING,	MINERALIZATION, TYPE, AGE RELATIO
o	0 6.84 Overburden	Overburden	ł							Overburden		
			1						2	Note: core previously	split a	and sampled.
										· · · · · · · · · · · · · · · · · · ·		
6.84	39.25	Andesite	Med. to	Fine	Рру	Qtz	Сру	50~100	· · · · ·	Fine grained andesite	feldspar	r-porphyry, 30 to 50% 2 mm a
		Feld - Ppy	Dark	to Med.	Mottled	Epidote				smaller; rarely up to	3 mm ver	ry pale green feldspar pheno
			Grey-		Stringer	Chlorite				crysts in an aphanitic	to v. f	fine grain med. to dark grey
			Green		Alt.	Calcite				green matrix; <5% augi	te up to	nun .
						Sericite			[- mafics partly chlo	oritized	l; feldspars saussuritized
										(weakly).		-
										- moderate to in pla	aces str	cong silicic alt. resulting
										in a 'mottled' texture		
										- minor qtz stringe:	rs and v	. minor calcite stringers;
										also occasional weak c	alcite a	alt
										- rock occasionally	slight)	ly magnetic till 13.3 m and
										then most of core is s	lightly	to moderately magnetic belo
										this point; at least in	part di	e to disseminated MGT. xtls
			[1					·····		. fine in stringers with ep

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PAGE 1 OF 6

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DRILL HOLE NO _____KL- 6

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EXPLORATION DRILL LOG SSELCO WESTERN CANADA HOLE NO. KL-6 DESCRIPTION INTERVAL STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION MINERALS PERMETRE C.A. (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): MINERALIZATION, TYPE, AGE RELATIONS GRAIN COLOUR FROM тο ~ minor to occasionally moderate epidote stringers and occasional epidote specks in rock (stringers multi-directional. - pyrite (1%; diss. in rock and occasionally concentrated along fractures. - cpy; trace in occasional small specks; (6.84 to 11.6 m) core more fractured; leached; iron stained \Rightarrow oxidation zone; also minor malachite staining (with traces still found below this zone). ~ epidote stringers observed cutting qtz alt.; but also qtz stringers observed cutting epidote stringers. - some variation in andesite (i.e. amot. and size of feld. xtls) occurs but generally very similar. Slight variations could be due to flow banding or different flows; no definite contacts (flow brxx, chill zones, etc.) observed. Qtz/MGT yein - at 23.35 m start getting v. minor hematite staining 700 on fractures; increases some down core. - 29.8 m 7 mm vein with qtz top half; MGT. Bottom half cuts core a 70° to C.A. Rock has increased in magnetism; almost all core is at least moderately magnetic and some is highly magnetic ⇒ much is very fine grain alt. in rock (darker colour to rock). \Rightarrow often helps give it a mottled or blotchy appearance. - some increase in amount of qtz stringers (up to 5 mm, Qtz 50°to 50° generally at 50 to 60° to C.A.); some contain minor cpy,

PAGE 2 OF 6

DRILL HOLE NO. K4-6

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\$ SE	LCO	EXPLORATION WESTERN CANAD	A			DRI	ᄂᄂ	Ļ	OG	HOLE NO, KL-6
INTERV	VAL		Ţ			RIPTION			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN . SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
									total amount of cpy has incre	ased but still << 0.5%; pyrite
			1	1					has increased some too but is	also (1%. ⇒Qtz stringers
- 1		-	--]				not always 100% gtz but strir	igers where most of the rock
			Į						is qtz ⇒ (alt. stringers) ⇒ g	generally light grey colour;
								}	epidote stringers observed cu	itting gtz stringers (i.e. by
									33.0 m).	
									· · · · · · · · · · · · · · · · · · ·	
(32.8	33.53)	Andesite	Dark	V. fine	Mottled	Qtz	Сру	50-100	A fine grain interval in the	andesite; strong silicic alt.
	1		Grey-		Veined;	Epidote			highly magnetic; core looks v	very mottled and 'blotchy' due
		· · · · · · · · · · · · · · · · · · ·	Green		Alt	Magnetite	•		to qtz alt, stringers, and e)	ongated, highly irregular
-				}					patches of variable epidote a	and magnetite alt.; can still
									see occasional feld. outlines	s but ppt texture lost;
						}			further down hole all the cor	e is like this so probably
									some intertongueing with next	unit here.
(33.53	33.76)	Diorite to	Med.	Fine	dyke		-	0-50	A medium green, fine grain dy	ke; dioritic to basaltic in
	}	Basalitic	Green		рру				composition,	
-									- it has some qtz (<5%), i	s slightly porphyritic
					·				(qtz and feld phenocrysts) wi	th finer green matrix.
									- not magnetic, no qtz str	ingers, no pyrite, post-
									mineralization.	
		-								
									- at 35.4 m a 1 cm barren	gtz vein (milky coloured).
									- 35.2 m broken rubble of	a magnetite-epidote-pyrite ve
									that was probably at least 1	cm wide.
	Í		L			I			- 35.96 m cpy with calcite	on a fracture.

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ORILL HOLE NO. KL-6

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\$s	ELCO	EXPLORATION WESTERN CANAL				DR		LC	D G	HOLE NO. KL-6
INTER	IVAL				DESC	RIPTION	1		STRUCTURE	REMARKS
FROM	ro	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETG):	MINERALIZATION, TYPE, AGE RELATIONS
:					· · · ·				- 37.4 m a pyrite-epidote	stringer cuts an epidote
	[· · · · · · · · · · · · · · · · · · ·		l					stringer; qtz alt. envelope w	ith some magnetite around
									the pyrite-epidote stringer.	
	[-	 	· - · ···					
39.25	65.5	Andesite	Dark	V. fine	Mottled,	Qtz	Сру	50-100	Fine grain andesite; possibly	andesitic ash tuff.
		Tuff	Grey		Veined	Epidote			- rock is aphanitic to ver	y fine grained; dark grey-
			Green		Alteratio	n Magnet	te		green in colour except for li	ghter grey gtz-alt. areas;
	l								- strong qtz alt, moderate	to strong qtz stringers which
									are light grey and only alter	some of rock to qtz (50-70%
	[]		n					not always linear; often conv	olubed and irregular; some-	
									times just grey patches up to	2 cm wide.
									- minor epidote stringers;	
									- calcite on a few widely	spaced fracture surfaces;
									- minor hematite staining	on fracture surfaces;
									- pyrite ~ 3%, minor diss.	in rock but most in stringer
		······							with epidote and gtz and alon	g fracture surfaces;
									-cpy (0.5% to 1%) in strin	gers with epidote and gtz
			_						(and sometimes MGT); and alon	g fracture surfaces;
							i		- some zones up to 10 cm w	ide that contain up to 20%
									pyrite and 2 to 4% cpy in high	hly silicified rock (i.e
			1]			ļ		40.35 m).	
				{					- Around 44.0 m get some r	eduction in amot. of gtz alt.
			1				[and stringers; cpy still~0.5	a till 49.0 m.

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DRILL HOLE NO. KL-6

\$se	LCO	EXPLORATIO WESTERN CANA				DR		LI	DG	HOLE NO. KL-6.
INTERV	AL				DES	CRIPTION			STRUCTURE	REMARKS
FROM	τç	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATION
(52.45	52.8)	Andesite	Med.	Fine	Рру	Qtz			Fine grain andesite feldspar	ppy; feld 50%, rest finer
		Feld Ppy	Grey-	}	1	Epidote			grained, medium grey-green, m	oderately to strongly
			Green			Magnetite			silicified; epidote specks; m	oderately magnetic (less so
					1	1			than surrounding rock; 1 to 2	\$ py; assoc. with the qtz all
									=> this unit is pre-minerali	zation.
				[
									(52.45 to 56.5 m) cpy 0.2 to	0.5%
					[(56.5 to 58 m) cpy 0.5%	
	_				<u> </u>				- cpy drops after 58 m (to	<0.2%).
		-								
(58.7			Light	V. fine	Stringer	9	Сру		Very fine grain (~aphanitic)	light greenish grey rock;
			Greenish-						possibly a dyke(?), minor call	cite and chlorite stringers;
			Grey						trace cpy in qtz/calcite strip	ngers; weakly magnetic; py
						{			~1% disseminated \Rightarrow probably a	light coloured pre-mineral-
									ization dyke; no contacts pre-	served; very fine grain ⇒
									makes it impossible to reduce	composition.
	. 1						· ·			
	[61.87 m ~ Epidote specks over	10 cm; can make out some
							-		feldspar xtls ⇒ abit coarses	r grained rock.
1					[- still minor cpy about (con	ncentrated in a few fractures
									stringers).	· · · · · ·
									- rock still quite magnetic	but less so than before.
									 no longer hematite on frac 	
			<u> </u>							
	.		_		 				63.5 m - Most of core is in sr and less in size from here to	mall often rounded pieces 2 (
			1			1			texture, etc.	end or note - nato to see

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EXPLORATION DRILL SELCO LOG HOLE NO. KL-6 WESTERN CANADA DESCRIPTION INTERVAL STRUCTURE REMARKS ROCK TYPE GRAIN TEXTURE ALTERATION ORE FRACTURES (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): MINERALIZATION, TYPE, AGE RELATIONS COLOUR FROM то 65,5 78,33 Andesite Light to Fine to Рру Qtz Сру >1000 Med. to fine grain andesite; light to medium grey-green; Feld Ppy Med. Grey Med. Epidote more equigranular than earlier andesite; larger mafics Green Chlorite (augite?) comprise about 5% of rock; some intermixing (or an in between unit) between this and last unit for a few M's but rubbly core prevents seeing contacts. - minor qtz alt. mafics partly chloritized; moderately to, further down hole; weakly magnetic. - pyrite 1 to 2%, cpy trace, but some could be lost due to poor recovery. - minor epidote stringers and occasional areas with epidote specks. 78.33 m \Rightarrow END OF HOLE •

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\$s∍	ELCO	EXPLORATION WESTERIC CANA				DR	LL		LO	G		HOLE NO KL-7
RILLING CO	D.	LOCATION SKET	СH.	DEPT	н р	TESTS	AZIMUTH	DATE	STARTED	August 9, 1984	PROJECT	T: KL1
			-	COLL		~ 55	1	DATE	COMPLETED	August 11, 1984	N. T. S. T	940/8
•				107		~ 54		COLL	AR ELEV.	1737.4 m	LOCATIO	KL1 4 Claim
								NÓRT	HING : 5+	50s 59.15N		
						-		EAST	NG:	50W 64.13E		
							1	AZIM	/TR:	060°		
								02.97	H.	107.3 m	DATE LO	GGED: September 16, 1984
OLE TYPE							1	CORE	SIŻĖ:	B.Q.	LOGGED	
1 N T E	RVAL		1		DESCR	IPTION			····	STRUCTURE		REWARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALT ERATION	ORE	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, B	EDDING,	MINERALIZATION, TYPE, AGE RELATION
										Note: from 9.14 to 83	.0 m has	been previously split and
					1					and sampled.		· · · · · · · · · · · · · · · · · · ·
0	7,92	Overburden			1			•••	· · ·			
											-	
7,92	72.5	Andesite	Med. to	V. fine	Mottled;	Qtz	Сру			Andesitic tuff; v. fin	e grain i	to fine xtl tuff; highly
		Tuff	Dark Grey	-to fine	Alt.	Chlorite				altered unit resulting	in a mo	ttled to blotchy appearance;
		(Magnetic)	Green		Stringers	Epidote						xtls, but generally later
						Magn.				alt. has completely ob	literate	d early texture
		•				Calcite				→ mod. to strong gt	z alt.; s	minor to occasionally mod.
							· .			qtz stringers.		^
					Į .	11					magnetic	, due to v. fine MGT within
										rock.		·
											d and chi	lorite along fractures.
				••• • ••								s and fracture coatings.
										⇒ v. minor epidote		
			1		í	∤ }		• · ·	(and and	

Ssi	ELCO	EXPLORATION WESTERN CANA				DRI	LL		LD	G	HOLE NO, KL-7	
אזדאו	VAL				ĐESC	RIPTION				STRUCTURE	REMARKS	
FROM	to	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE HELATIO	
(7.92	9.0)				}				-	Only weak gtz and MGT alt.; c	an still see original 1 mm	
									Foliation	tion broken feld crystals, wear foliation at 8.3 m at		
									45 to 50°			
						·•				make up 5% of rock; mod. calc	areous (more than lower cor	
]			1		Note: from 9.14 on core prev	iously split, till 30 m it	
								{		is mostly in very smal	l pieces and thus hard to	
										see details.		
(7.92	10.7)									Fe stained fractures \Rightarrow oxidation zone.		
(9.14	10.36>		{							Only 25% recovery.		
				•							· · · · ·	
(10.9	11.2)	Altered and	Light		Shear		_			30 cm light grey to light gree	y-green sheared rock with	
			Grey		Foliation					3 to 5% diss, pyrite; non-mag	netic ⇒shear zone within	
	5									the andesite tuff.		
										- at 11.2 m get into main	tuff unit; pyrite only minor	
										(0.5%); v. minor cpy (maybe~		
Ì										(19 to 22 m) cpy 0.5% in this		
										23 m) epidote disappears.		
										(22.55 to 23.16) only 55% reco	overy in this interval; core	
										rounded and in very small p		
										interval.		
										(23.16 to 23.75 m) lighter gro	ey-green rock; fine grain;	
										altered; highly.siliceous; (
										diss. pyrite.		

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DRILL HOLE NO. KL-7

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EXPLORATION DRILL SSELCO LOG HOLE NO. KL-7 WESTERN CANADA INTERVAL OESCRIPTION STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION MINERALS PERMETRE C.A. G R AIN SIZ E (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS FROM тο COLOUR 24.0 m) start getting minor hematite staining on fractures. . Note \Rightarrow original log notes native cu film on fractures. \Rightarrow probably mistook hematite for native cu tarnish. Cpy up to 0.2 to 0.5%, diss. in rock and occasionally within qtz stringers. (25.0 26.1) Andesite V. fine Light Alt. Calcite Сру In this interval tuff is lighter colour, grey with some Grey to Tuff brownish-grey patches and minor yellow-brown to \emptyset -brown Blotchy Qtz Brownis -Grey Chlorite stringers; more pyrite (5%) than surrounding rock; still MGT mod. to strongly magnetic; not foliated or sheared like qtz-carb alt. usually is; weakly pervasively calcareous; cpy~0.2%; strong qtz at.; alt. and very discontinuous Otz-carl stringers, MGT, etc. has resulted in a very blotchy, vein 45[°] mottled texture (25.8 m) 2 cm barren gtz-carb vein. Basaltic to V. fine Massive Chlorite {27.4 28.4) Dark A very fine grain basaltic to andesitic dyke, dark green; Andesitic Green Calcite can make out occasional < 0.5 mm feld crystals but mostly Dyke too fine grain to see xtls; weak chlorite and calcite alt.; minor calcite stringers; weakly magnetic due to finely diss. magnetite; trace diss. pyrite also a trace of cpy, indicating that this is a pre-mineralization dyke (that would not get highly altered due to its tight, fine grain, texture).

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DRUG HOLE NO._ KL-7

ΰn

Şsi	ELCO	EXPLORATION WESTERN CANAC				DR			L O	G	HOLE NO
INTER	YAL		7		DES	CRIPTION	4 7			STRUCTURE	REMARKS
FROM	τo	ROCK TYPE	COLOUR	G R ALN SLZ E	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
{29.0	42.0)		Brown~				•			Very strong qtz-alt. which res	ults in a brownish-grey
			Grey to				}			colour and minor light β -B wea	thering qtz-carb stringers
			Green-Gre	У						have resulted in an overall li	ghter colour in this interva
							}	1		only in patches and discontinu	ous vein envelopes however
		· · · · · · · · · · · · · · · · · · ·								and much of rock is still dark	grey-green. By 29 m most
					}					of the rock is strongly magnet	ic, the rest being mod.
										magnetic; pyrite is 1 to 2% of	the rock from 29 m to 35.9;
					<u> </u>		<u> </u>			cpy is~0.2% to 0.5% pyrite di	ss in rock, with qtz stringe
					·	<u> </u>			Foliation	and in pyrite stringers; cpy o	ccurs in a likewise fashion.
		· · · · · ·			· .			ļ	20 ⁰	- at 29.0 m there is 5 cm o	f rock with mod. strong
			}							foliation shown by very thin (<1 mm) discontinuous green
		.								and light brown layers it is 2	0° to C.A.; small gtz vein
		}				ļ				of variable width up to 8 mm p	arallel to foliation.
										(35.9 to 36.5 m) Highly pyrit.	ic rock; py 20% of rock;
		[cpy still 0.2 to 0.5%.	
								<u> </u>		(36.5 to 37.5 m) Pyrite to 2	again.
(37.5	38.6)		Light		Veining		<u>. </u>			Light brown pyritic zone; rock	has from 10 to 40% pyrite
			brown		Breccia					(about 25% over length) in str:	ingers, veinlets and patches
										within a light brown; brecciate	
	NOTE :	CORE QUALITY (I.)	. SIZE OF	PIECES)	IMPROVES	HERE				probably sericitic) most. The	
										of stringers of pyrite, clasts	
										C.A.; rock is weakly magnetic;	

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DRILL HOLE NO. KL-7

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\$s∍	ELCO	EXPLORATIO WESTERN CANA				DR	ILL		LD	G	HOLE NO. KL-7
INTER	IVAL					RIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATION
						[From (38.6 to 42.4) m get 2 to	3% py; occasionally up to
				1			}			5% along occasional qtz string	gers that are generally at lo
					}	[1		L's to the C.A.; one 8 mm gtz	vein running parallel to th
										C.A. runs along one side of co	ore from 40.34 to 40.84 m;
]	[1]	cpy~0.5% in this interval.	
									1		
	ļ									- At 42 m the rock becomes	dark green-grey throughout
			1				l.		Qtz alt.	again except for strong qtz al	t. stringers and veining
								-	veins/Str	-(where only part of rock in st	ringer/vein is qtz, rest is
									ingers	still most rock) which are lig	ght grey. These discontinuo
				<u> </u>					0-200	and spotty stringers and veins	s up to 1 cm are most common.
										at low angles to the C.A., but	coccasionally are found up
									·	45° to C.A.; all the rock is r	ow highly magnetic; still a
			_	ļ	 				 	few minor light Ø-B weathering	; stringers; also minor
										hematite staining on fractures	continues. At 47.5 m the
			1	<u>}</u>						old log notes native Cu again	but suspect that hematite w
										mistaken for Cu stain.	
		· · · · · ·	1							- pyrite is 2%; cpy 1%.	· · · · · · · · · · · · · · · · · · ·
				ļ				[
43.0	43.7)	Andesitic to	Dark	V. fine	Massive	Chlorite				Andesitic to basaltic very fir	e grain, dark green dyke;
		Basaltic Dyke	Green	ļ	Stringer	Qtz		· · ·	ļ	mod. intensity of calcite stri	ingers and alt. stringers;
		· · · ·	-{							mostly at low L's to C.A.; wea	akly magnetic.
										ļ	
••••		· ···-							<u>Dtz-MGT</u>	47.8 m) Qtz-MGT vein; v. fine	
							·		vein 5 ⁰	and 3% diss. cpy within cuts	s one side of core~5 to C.

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DRILL HOLE NO. KL-7

EXPLORATION SELCO DRILL LOG WESTERN CANADA HOLE NO KL-7..... DESCRIPTION INSERVAL STAUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION ORE FRACTURES L WITH (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.): MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE FROM τо COLOUR 49.8 m) Specular hematite + 15% om a gtz veinlet (3 mm wide) that also has 3 to 5% cpy and 5% pyrite; vein at 5° to C.A. (54.0 m to 54.9 m) Qtz-pyrite vein; white to light grey qtz with; 40% coarse diss, pyrite; non-magnetic. Altered and/Dacite; v. fine grain; light brownish green V. fine Alt., Shear (54.9 57.7) Altered Pale otz brownish-5-15⁰ colour; somewhat sheared at 5 to 15° to C.A.; mod. to Veining, Chlorite and/Dacite green highly siliceous; minor qtz alt.; minor chlorite and Shearing Sericite Calcite some sericite (soft parts); mod. intensity of qtz stringers; some having light yellow brown coatings, - pyrite 2 to 3% finely disseminated. - non magnetic, no cpy. 57.7 m Back into the grey-green andesite tuffs; mod. intensity of orange to yellow brown weathering stringers at first but decrease to minor amnts. by 59 m; some . of rock is only med. grey-green and a little less magnetic, but generally still strongly magnetic; noticeably less pyrite and cpy than 42 to 54 m; 1 to 2% pyrite; 0.2 to 0.5% cpy. 64.8) (62.9 Andesite Med. V. fine Blotchy Andesite dyke; v. fine grain; med. grey-green with greyer Otz Grey-Chlorite Dyke gtz-rich patches; mod. to strong gtz alt; mafic Green Calcite

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DRILL HOLE NO. KL-7

component chloritized; minor calcite in stringers; pyrite

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\$s	ELCO	EXPLORATIO WESTERN CANA				DR	ILL		LD	G	HOLE NO KL-7
INTER	RVAL				DES	CRIPTION	4			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
				<u> </u>	<u> [</u>	<u> </u>		{		<l>, non magnetic, no cpy; =>)</l>	believe a dyke since non-
						<u> </u>		Ì	ſ	magnetic interval.	
			}				}			64.8 m) Back into the magnet	c tuff; all tuff strongly
										magnetic now and a bit more	cpy (0.5%) than the interval
						<u> </u>				from 57.7 to 62.9 m; pyrite	still 1 to 2%.
			_ <u></u>								
				<u> </u>						68.6 m) Magnetite content dro	ps suddenly; only weakly
										magnetic now; rock med. grey	-green; cpy 0.2 to 0.5%.
					<u> </u>	<u> </u>				72.5 m) Magnetite disappears;	as does cpy.
	 									<u> </u>	
72.5	90.0	Andesite	Med. to	V. fine	Mottled	Qtz	Сру		-	Andesitic tuff; med. to light	grey-green; very mottled and
		Tuff	Light	to		Chlorite				blotchy due to variable qtz al	t.; some areas have speckled
			Grey-Gree	n fine		Sericite				darker green chlorite particle	<pre>s ⇒ altered mafics probably;</pre>
	[<u> </u>	_{		ļ	ļ				rock highly altered and any or	iginal texture lost; mod. to
										strong qtz alt.; mafic compone	ent chloritized; very minor
	<u> </u>					<u> </u>				calcite; no hematite left; 1 t	o 2% diss. pyrite; trace
										diss cpy; except for a few wea	kly magnetic spots; non-
										magnetic.	
	<u> </u>	· · · · · · · · · · · · · · · · · · ·								Note \Rightarrow this may be the same or	Iginal rock as the darker-
	_								_	grey-green magnetic and	lesite of darker core with-
	ſ				} <u>.</u>					out the magnetite alt.	
			<u> </u>							- Very minor qtz, sringers;	do not get the grey gtz
			ļ							'alt.' stringers of the last u	nit.

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DRILL HOLE NO. KL-7

<u>Ş</u> =	ELCO	EXPLORATIO WESTERN CAN			DR	ILL		LD	G	носе но,
INTER	IVA C				DESCRIPTIO	-			STRUCTURE	REMARKS
FROM	τo	ROCK TYPE	COLOUR	GRAIN <u>SIZE</u>	TEXTURE ALTERATIO	N MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION
(79.5	81.5}		Brownish		Qtz]			- Rock is a light brownish	-grey with streaky green
			Green-		Sericit	3			(chlorite); looking somewhat	dacitic again; streaky
			Grey		Chlorit	•{}]	Foliation	chlorite specks outline a wea	k foliation at 30° to C.A.;
								30 ⁰	still mod. to strongly siliic	ic; some softer rock probabl
									due to seritized feld. compon	ent; pyrite 2% finely diss.
•									⇒ This rock is probably an	alteration of surrounding
						1			tuff unit; (possibly a leachi	ng of mafic component with
							1		minor shear). At 81.5 m rock	
							1		again; still a weak foliation	at low L's to C.A. shown by
									streaky chlorite; pyrite 1% o	f rock; no cpy observed.
								Py-MGT	83.8 m) A 4 mm pyrite-MGT ve	in cuts core at 60° to C.A.
						1		vein 60 ⁰		
								{	86 m) Start getting minor Ø-	B weathering qtz-carb, veins
									and stringers; most are dis	continuous and of highly
		• • •							variable thickness and dire	
	. 1	· · · · · · · · · · · · · · · · · · ·							occasionally slightly magne	
]		minor MGT-pyrite stringers;	
									increased (rock a bit softe	r and whole) but still mod.
						1	1		to strong qtz alt.	· · · · · · · · · · · · · · · · · · ·
									Note: from 85 m on rock not p	reviously split or sampled.
]			
									⇒ This unit is close to the	e andesitic to dacitic alter
·•· ·									tuff but is still andesitic ()	not as altered as some to
							L		dacitic looking rock)	

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DRILL HOLE NO. KL-7

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S₂	ELCO	EXPLORATION WESTERN CANAL				DR	ILL		LO	G	ROLE NOKL-7		
1NIE8	RVAL	}				RIPIION				STAUCTURE	REMARKS		
804	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ÖŘE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIO		
0.0	107.3	Sheared	Light	V. fine	Foliation	Qtz		100-500	<u> </u>	Sheared andesitic to dacitic a	altered tuff; possibly tuff-		
		Altered and	green-	to fine	Shear	Chlorite		{	[aceous argillite; light grey-	green to brownish green; v.		
		to Dacitic	grey to		Alt.	Sericite				fine to occasionally fine grain	in; moderately sheared and		
		Tuff	brown-			Kaolinit	2		Foliation	foliated; highly altered (and	thus original textures ob-		
	<u> </u>		grey		<u>_</u>				60 ⁰	literated); foliation is at 60	0 ⁰ to C.A. at 90 m.		
										- Mod. qtz alt.; strong per	rvasive pale green-grey		
								¦ [chlorite; variable sericitic a	alt. resulting in softer com		
										in places; a few places have n	ninor kaolinite; v. minor		
							<u> </u>			calcite.	· · · · · · · · · · · · · · · · · · ·		
		[_							- Minor Ø-B weathering stri	Minor Ø-B weathering stringers to 99 m; v.yminor		
										qtz veining (white, barren).			
	 									- Pyrite, fairly coarse gra	in, disseminated 1 to 2%;		
	}									no cpy observed.			
		· · · ·· · ···								- A few rare cpy-MGT string	jers.		
				-						Rock varies from a mottled gre	y-green andesitic rock to a		
					[pale brownish-grey, silicic da	cite. The dacite		
				· · · · · · ·						looking rock has more pyrite;	contacts between intervals		
		{								of these rock types are gradat	ional, the dacitic is more		
			_							sheared . believe that these a	are just alt. of original		
		¢	_							andesitic tuffs (sheared, sili	cified and mafics leached).		
			.	·			;			- Possibly the original roc	ck was an andesitic tuff-		
										aceous argillite?			

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Şsi	ELCO	EXPLORATION WESTERN CANA				DR			LD	G	HOLE NO. KL-7
INTER	VAL					CRIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	{	(FRACTURES, FAULTS, FOLDING, BECOING, ETC):	MINERALIZATION, TYPE, AGE RELAT
								ļ	f	(92.85 m) 3 cm of mildly cla	y rich fault gouge at
						}				high < to C.A.	
								}			
						<u> </u>				(97 to 103 m) Rock a bit gre	ener than rock in this inte
										to each side (looks andesit	ic; very mottled; foliatio
					<u> </u>	ļ				less distinct but still des	cernable, especially on en
					}	<u> </u>				of core pieces (shown by el	ongated chlorite flakes).
					. <u> </u>						
										103.4 m) Kaolinite in rock;	mod. amnts for a few cm, t
									shear	. minor amnts till the end of	
									<u>30 to 40°</u>	sheared again; at lower L's	to C.A. $(30 \text{ to } 40^{\circ})$ than
			-							before; some microfolds in	shears (tight to isoclinal
						[drag folds).	
					ļ	ļ				- Pyrite is generally cubic	, not sheared is post or :
										shearing. A few places have	sheared pyrite; indicating
		.				 				later shearing (or earlier py	rite) than most of rock.
				··· · · · · · · ·	[· · •
			1	<u> </u>	[107.31 END OF HOLE	
									·		
	[
1			1 (· · · · ·	

PAGE 10 OF 10

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ORILL HOLE NO. KL-7

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≶೯	LCO	EXPL WESTE	OR ATION RN CANADA			DR			······································		ampl	ec	lata	
	S A	MPLE			CORE	RECOVERY	VISUAL ESTIMATES			EOCHEM	RESULI	rs		
NUMBER	FROM	۲O	TOTAL METRES	Sp. Gr	%	AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)				
871226	83.0	86.0	3.0		100	Nil	Previously unsplit	30	95	0,1				
871227	86.0	89.0	3.0		100	12	('s split) "	80	726	0.5				
871228	89.0	92.0	3.0		100	11	Unsplit	245	585	2.3			1	
871229	92.0	95.0	3.0		100	14	11	120	597	1.1				
871230	95.0	98.0	3.0		100	. 41	h	70	313	0.3			1	
871231	98.0	101.0	3.0		100	"	1f	60	291	0.2			1	
871232	101.0	104.0	3.0		100	"	+1	45	181	0.2			1	
871233	104.0	107.3	3.3		100	U.	11	95	378	1.1				1
						END OF HO	.Б							
						·		1		 				
	-†		}		∦ ·									+

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PREVIOUSLY	SPLIT

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<u>Sse</u>	LCO		LORATION RN CANADA			DR		DG		S	ample	data
	S A I	MPLE			CORE	RECOVERY	VISUAL ESTIMATES		GEC	CHEM	RESULTS	
NUMBER	FROM	ΥO	TOTAL METRES	Sp Gr	7.	AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)		
871201	7.92	1110	3.08		87	13	4 split	50	480	0.5		
871202	11.0	14.0	3.0		41	59	1)	80	704	0.6		
871203	14.0	17.0	3.0		75	25	И	65	765	0.6		
871204	17.0	20.0	3.0		100	Nil		135	1312	0.8		
871205	20.0	23.0	3.0		82	18		375	3165	2.1		
871206	23.0	26.0	3.0		100	Nil		280	1496	1.5		
871207	26.0	29.0	3.0		100	-11		290	1602	1.9		
871208	29.0	32.0	3.0		100	0		220	1093	1.3		
871209	32.0	35.0	3.0		100	р		450	1690	1.8		
871210	35.0	38.0	3.0		100	v		2780	905	1.7		
871211	38.0	41.0	3.0		100	16		2100	2068	3.9		
871212	41.0	44.0	3.0		100	le .		2000	1036	1.1		
871213	44.0	47.0	3.0		100	41		540	1927	1.6		
871214	47.0	50.0	3.0		100	51		850	2895	2.8		
871215	50.0	53.0	3.0		100	51		2210	3611	3.3		
871216	53.0	56.0	3.0		100	47		6160	2910	7.8		
871217	56.0	59.0	3.0		100	2)		320	538	1.8		
871218	59.0	62.0	3.0		100	ŋ		275	972	1.0		
871219	62.0	65.0	3.0		100	Ð		225	632	0.7		
871220	65.0	68.0	3.0		100	13	,	640	2033	1.5		
871221	68.0	71.0	3.0		100	0		490	684	0.7		
871222	71.0	74.0	3.0		100	U		95	270	0.7		
871223	74.0	77.0	3.0		100	ь ×		60	343	0.4		
871224	77.0	80.0	3.0		100	U		70	328	Q.5		
871225	80.0	83.0	3.0		100	a	·	90	416	0.9		

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\$s	ELCO	EXPLORATION WESTERN CANAL				DR			LD	G		HOLE NOKL-8
AILLING CO) .	LOCATION SKET	сн	0597	H D	TESTS	AZIMUTI	TAD I	E STARTED:	August 11, 1984	PROJEC	T: KL1
			-	A- COLLA		- 50 [°]	330	O DAT	E COMPLETED		N. T. S. I	940/8
				133	.8	- 57 ⁰	1	ĊŎĿ	AR ELEV.	1737.4 m	LOCATIO	KL-4
		1					1	NOR	THING -	0+47S 59+17N	1	
							}	EAS	TING: 13	3+52W 64+41E		
							1	AZIA	IUTH:	3300		
	•							DE P		133.8 m	DATE LO	GGED: September 6, 1984
DLE TYPE								COR	E SIZE:	B.Q.	LOGGED	BY Hans Smit
INTE	RVAL		1		OESCR	1 P T 1 O N				STRUCTURE		REMARKS
FROM	ΙO	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BE	DDING,	MINERALIZATION, TYPE, AGE RELATIO
0	6.4	Overburden									-	
	}											
6.4	10.7	And./Dacitic	Light	V. fine	Veining	Sericite		50-100	Foliation	Andesitic/Dacitic tuff;	; light	brownish-grey to grey-green
		Tuff	Brownish	to fine	Foliatio	n Qtz			15 to 50 ⁰	mostly very fine grain	but som	e distinctive, highly elong
			Grey		Alt.	Calcite			veining	ated mafic and lesser	feldspar	grains; foliated (outlined
			to Light			Chlorite				by elongated xtls) 45 t	:0 50° t	o C.A.; qtz (with minor
			Grey-Gree	n			-			calcite) veining, moder	ate to	strong intensity at first,
										dropping in intensity d	lown cor	e; Ø-B weathering on veins,
]					- Pock becomes green	ner down	wards,
•										- rock moderately so	oft (ser	icitic), mafics chloritized
					1					- pyrite diss. in mi	nor amo	unts.
										(8.0 to 8.1 m) Darker,	, magnet	ic rock (rest of rock not
				_						magnetic).		
										Note: - this unit looks	s the sa	me as the first unit in KL-
											-	
									1			

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چ ء	ELCO	EXPLORATION WESTERN CANA		-		DR			LD	G	HOLE NO. KL-B
INTE	RVAL		1		DES	CRIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATION
10.8	58.0	Andesite	Med,	Medium	Рру	Qtz		50-100		Andesite feldspar ppy; medium	grain, med. grey-green colo
·		Feld-Ppy	Grey-			Chlorite				- white to v. pale green f	eld. make up 60 to 70% of ro
			Green			Sericite				rest is fine grained green ma	trix.
				1		Calcite				- mafics chloritized; feld	spars somewhat soft so weak
						Epidote				sericite alt.;	· · · · ·
]		1		- rock is massive, unfolia	teđ.
										- weak to moderate silicic	alt. (occasionally strong
]						over a few cm), minor qtz and	calcite stringers.
										- weak calcite alt.	
										- very minor epidote.	
										- minor diss. MGP results	in weakly magnetic core.
					}					- py~l% diss. in rock and	along fractures; rare traces
					{					of cpy (i.e. 13.51 m).	
										(14.05 to 14.35 m) Zone of st	rong silicic alt. that has
	{									5% diss. pyrite.	
			_								
			_		[(16.52 to 16.62 m) Similar zo	one, 5 to 10% pyrite.
				 						1	
										18.2 m) Pyrite and chlorite :	In a fractured grey qtz vein
			<u>.</u>							(replaces the gtz).	
			1								
										- 18.0 m get very minor hema	tite staining on fracture
	ļ				Į					surfaces.	
	<u> </u>									- getting slightly more maf:	c rock and some ((5%)
	<u>}</u>				l					chloritized mafic phenocrysts	(augite?) that are 1-2 mm lo

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DRILL HOLE NO. KL-8

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S si	ELCO	EXPLORATION WESTERN CANAD				DR	LL		LO	G	HOLE NO. KL-8
INTER	VAL		[οες	RIPTION	N			STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEODING, ETC):	MINERALIZATION, TYPE, AGE RELATION
						ļ				(22.0 to 24.3 m) Somewhat mo:	re epidote, but still minor.
				·		<u> </u>				25 m Getting some elongated	chloritized crystals up to
										1 mm which are probably held	:~2% of rock, still some
										less elongated which may be an	
					<u> </u>	· [<u> </u>		28.35 5 mm cpy bleb in gtz al	t.
						ļ				⇒ still traces of cpy in roo	
			-					-		37.3 m Epidote stringers and	alteration increase in
			1							intensity some, (up to occas	sionaly moderate) no longer
							·			hematite on any fractures.	······································
									Qtz/cpy	38.6 m 2~4 mm qtz veins with	25% cpy cut core at 40° to (
					}	[ļ	-	veins 400		
						{				39.52 m \Rightarrow From here on core has	as been previously split
										and sampled pyrite (disseming	nated) sometimes up to 2% of
										rock now; still traces of di	iss, cpy,
									Qtz vein	40.6 m Another qtz vein with	n~15% cpy; >5 mm; cuts C.A.
									75 [°]	at 75 ⁰ .	
										52.4 m Rock becomes finer gra	*ined.
								· · · · · · · · · · · · · · · · · · ·			
			<u> </u>							56.4 m A few widely spaced py increases to 3 to 5% of rock	

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ا ک	ELCO	EXPLORATION WESTERN CANAD	Λ			DR			ΓD	G	HOLE NO. XL-8
INTE	RVAL				DESC	RIPTION	· ·			STRUCTURE	REMARXS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE	FRAGTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
58.0	128.3	Andesite	Dark	Fine to	sometime: Ppy,	Qtz	Сру	50-100		Andesite Tuff;	
		Tuff	Grey-	1	<u>} </u>	Epidote				- v. fine to fine grain dar	k green grey andesite tuff;
· · ··-			Green		Veining	Magnetit			-	varies from occasional and. f	eld ppy to an a very fine
-					Alt.	Chlorite		•		grain andesite; highly variab	le rock, i suspect a tuff;
		<u>.</u>			ĺ	Calcite				rock is mottled due to variab	le mode rate to pervasive
-	1				·					qtz alt.; feldspars weakly se	ritized, mafics chloritized;
]			- rock is moderately to str	ongly magnetic, mostly due to
	1									very fine MGT diss. thru rock	
										- moderate intensity of qtz	and, 'qtz alt.', stringers
										- weak epidote alt. (but in	creases further down)
										- rare calcareous fractures	
										- very minor hematite stain	ing on fractures
										- pyrite 3 to 4% diss. in r	ock, along fractures and
										especially in areas of pervas	ive silicic alt.
							_	}		- cpy 1%, generally assoc.	with high silicic alt.
										- some minor possible pyrrh	otite
										Note: This unit is same as Mo	GT rich silic and. tuff
		3								found in other holes.	
										- 62 m Some drop in cpy conta	ent (0.5 to 1%).
						}				- 64 m Increase in epidote a	lteration from v. weak to
										weak.	
						3			Qtz vein	- 70.05 m 2 cm of ~60% pyrite	; qtz vein 1 cm below, gets
									600	cut by pyrite, qtz vein is	light grey, only∼60% gtz.
						}	· ·	ļ		rest is host rock (alt. vei	<u>n); more pyrite veins in next</u>
	1. 1					<u> </u>				metre, resulting in a pyrite	e content of ~10% over 1 m.

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DRILL HOLE NO. KL-8

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<u>Ş</u> =	ELCO	EXPLORATION WESTERN CANA		DRILL LO						G	HOLE NO KL-8.			
INTER	RVAL	ROCK TYPE		OESCRIPTION						STRUCTURE	REMARKS			
FROM	το		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	C.A.	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC):	MINERALIZATION, TYPE, AGE RELATION			
				 						~ getting more pyrite strin	gers, some with cpy			
										- also cpy in gtz stringers	and fractures 0.5 to 1%			
										in rock.				
	1									70.5 m Epidote content decre	ases again, only v. weak			
										epidote stringers remain.				
			1		1	<u> </u>								
										72.8 m Rubble of coarse crys	talline pyrite with cpy			
-		• •			1					between the crystals in mucky guartz.				
			- ···		1.									
									· · · · ·	(72 to 73 m) Cpy 1%.				
									·	(73 to 75 m) Cpy 1 to 2%.	· · · · · · · · · · · · · · · · · · ·			
							•			(75 to 80 m) Cpy 1%.				
	<u></u> + {		1				····			(77.8 to 78.35 m) Rubbly core	. with high purity contact			
	· · · ·									(25%); rest very siliceous,				
						{}					light grey colour; only			
	<u> </u>									<pre>slightly magnetic. (80 to 93.6 m) Cpy 2%, along</pre>	6			
		· · · · · · · · · · · · · · · · · · ·				}								
										and alt zones and rarely in	cpy stringers with minor of			
			-							and epidote. ⇒ py 3 to 5%.	0			
			-{						Qtz vein					
	<u> </u>				· · · · · ·				40 ⁰	(92.4 to 92.9 m) Highly stlid	cic (60-70% qtz) interval;			
		· ·····						;		ру 10%; сру 3%.	<u>. </u>			
			-{			-								
			-	- · · ·						(93.6 to 109 m) Problems with	· · · · · · · · · · · · · · · · · · ·			
	1				I				4	interval covered by one box	(#15) which would mean 55			

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DRUT HOLE NO К**L-**8

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EXPLORATION SELCO DRILL LOG WESTERN CANADA HOLE NO ... KL-8 INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC) TEXTURE ALTERATION MINERALS PER METRE GRAIN MINERALIZATION, TYPE, AGE RELATIONS FROM τо COLOUR recovery. No such recovery reported and there is no box #16, while box #17 fits behind #15. \Rightarrow May be that core in this interval was used for the mineralogical tests done on the core of KL-8 in 1980 and then core remaining was put into 1 box instead of previous 2. ⇒ Numbers somewhat mixed up so hard to determine intervals. \Rightarrow Interval is all same unit as before; cpy 1 to 2%. 109 m Rock becoming less magnetic; softer (less gtz alt.); cpy 1%, py 2%. Basaltic V. fine (112.85 113.5) Dark Chlorite -Basaltic dyke; dark green, very fine grain rock, very Dyke Green chloritic; non-mineralized; last 20 cm have a bit qtz veining, rest minor. (113.5 to 114.0 m) A bit lighter more silicic rock with 2% cpy. (114.0 114.7) Basaltic Dark V. fine Chlorite Basaltic dyke again; as in 112.85 to 113.5 m, v. weak -Dyke Green magnetic. (114.7 to 115.2 m) Cpy rock again; 1% decreasing down interval; magnetic,

PAGE _____ OF ____8____

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DRILL HOLE NO. KL-B

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\$s	ELCO	EXPLORATION WESTERN CANA				DR			LO	G	HOLE NO		
זאז או	IVAL			DESCRIPTION						STRUCTURE	REMARKS		
FROM	TO	ROCX TYPE	COLOUR	GRAIN TEXTURE		ALTERATION	ORE FRACTURES		L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS		
(115.2 116.6)		Basaltic	Dark	V. fine		Qtz	Сру			Basaltic dyke rock again; not	magnetic except a few spots;		
		Dyke	Green	<u> </u>		Chlorite		}	[not very mineralized; top 30 c	ot very mineralized; top 30 cm is 40% qtz veining; veining		
					<u> </u>	Sericite		}		is not in distint veins but in	discontinuous, irregular,		
				<u> </u>		l				serrated patches that are elor	ngated in weak foliation~85°		
				<u> </u>					Foliation	to core axis; trace cpy in gta	; some sericite with qtz.		
					<u> </u>				85 ⁰				
				ļ		ļ	<u> </u>	<u> </u>		116.6 m Core becomes very rul	bly, rounded and small		
			_	<u> </u>	<u> </u>			 			oor recovery (and some may		
	.						<u> </u>			be removed for mineralogical	testing.		
										(166.6 to 122.22 m) More and	sitic rock again: 44%		
	1		• ·····	1	1					recovery; minor cpy till 116			
-	1 1		-					—		minor till 122.22; moderatel			
			_	ļ <u> </u>						to non-magnetic by 122 m; no			
			-	[
	<u>├</u> }			<u> </u>	<u> </u>					(122.22 to 127.4 m) 37% recov			
			- <u> </u>		· · ·					light grey, then light green			
				<u> </u>						silicic; also seems to be so			
	(-						<u></u>	light grey rock; only a few			
		· · · <u>- · · · · · · · · · · · · · · · ·</u>		<u> </u>	· · ·					calcite; trace diss. cpy, py	18.		
(127.4	128.3)	Andesite	Light	V. fine	Alt.	Sericite		>1000	Poliation	(127.4 to 128.3 m) Good core	recovery for this interval;		
		Dyke (7)	Grey~		Foliation	Chlorite			700	somewhat less broken, non ro	unded core. V. fine grain		
·		· · · · ·	Green			Qtz				andesite with strong gtz ser	icitic alt. resulting in		
	.	<u></u>			l					irregular pale cream coloure	d patches elongated and		
			}	}						serrated with weak foliation	at 70° to C.A. resemble		

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ORILL HOLE NO. KL-8

EXPLORATION DRILL SELCO LOG HOLE NO. KL-8 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARXS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): MINERALIZATION, TYPE, AGE RELATIONS GRAIN TEXTURE ALTERATION ORE FRACTURES COLOUR FROM τо those of the interval (115.2 to 116.6 m) but softer and yellower (more sericite); non-sericitic rock is light to med. grey-green, highly chloritic and mod. to strongly calcareous; py ~1% increasing to 2% at end of interval; also minor qtz veining. 128.3 133.B Andesite Grey-Fine (128.3 to 133.8 m) Only about 20% of rock in box. Сру ----Green - very rubbly core again - fine grain grey-green andesite; chloritized; occasionaly magnetic; minor py, trace cpy; core too rubbly to see much else. 133,8 m END OF HOLE

62.

SELCO		EXPLOR ATION WESTERN CANADA				DR		LOG		s	ample	data
S A		AMPLE			CORE	RECOVERY			GEO	CHEM	RESULTS	
NUMBER	FROM	το	TOTAL	Sp. Gr	٧.	AMT. LOST	VISUAL ESTIMATE (% ORE MINERALS		Cu (ppm)	Ag (ppm)		
871089	6.4	9.0	2.6		80	20		200	264	0.8		·····
871090	9.0	12.0	3.0		100	Nil		50	154	0.2		
871091	12.0	15.0	3.0		100			55	196	0.5		
871092	15.0	18.0	3.0		100	44		35	241	0.2		
871093	18.0	21.0	3.0	1	100	14		20	284	0.2		
871094	21.0	24.0	3.0		100	"		25	152	0.2		
871095	24.0	27.0	3.0		100	31		30	94	0.2		
871096	27.0	30.0	3.0		100	U		25	124	0.2		
871097	30.0	33.0	3.0		100	19		30	112	0.3		
871098	33.0	36.0	3.0		100	* I]	60	186	0.5		
871099	36.0	39.0	3.0		100	u		25	201	0.4		
871100	39.0	42.0	3.0		100	15		M Í	ssing			
<u> </u>		[· · · · · · ·					.		
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	ļ	Į	ļ	 	Į							
		1		Į	 		<u> </u>					
		<u> </u>		 							<u> </u>	
				· · · · · · ·							[
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		· 		.		, <u> </u>		·				
			1 I	1	11				{		1 1	1

Ss	ELCO	EXPLORATION WESTERN CANA		DRILL LOG								HOLE NOKL-9		
RILLING CO.		LOCATION SKETCH		06.91	н р	TESTS IP ANGLE	AZIMUT	H DA	DATE STARIED: August 20, 1984		st 20, 1984	PROJECT : KL1		
			- 1	COLL		- 90	· _ · · -	DA	E COMPLETED		st 21, 1984	N. T. S. 1	· •	94D08
								CO	LAR ELEV.			LOCATI	DN 2	KL1-17 claim
								NO	RTHING	8	+00S			
								EA	IT ING:	:	+80E			
								AZ	MUTH-	ve	rtical			
									*TH:	47	.8 m		OGGEDt	September 22, 1984
OLE TYPE								COI	CORE SIZE: B,Q.			LOGGED BY Hans Smit		
INTE	RVAL		COLOUR	DESCR		1PTION					STRUCTURE		ł	REMARKS
FROM	70	ROCK TYPE		GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURE PER METR	S	(FRACTU EIC)	RES, FAUL TS, FOLDING, B	BEDDING, MINERALIZ		ZATION, TYPE, AGE RELATION
	1							}		Note:	core in plastic	boxes;	still f	airly good preservati
								1						ervation in 2nd half;
				·			••••				up to 23.5 m (7	7 ft) p	reviousl	y split.
										1				
0	7.3	Overburden						1	1					
			· · · · · ·					1	-	1	· · · · · · · · · · · · · · · · · · ·			
7.3	22.5	Altered	Light to	Fine	Mottled	Quartz		> 500		Andesi	te; fine grain,	light g	reenish	grey at first to late
		Andesite	Med.	•	1	Sericite				med, g	reen-grey; highl	y alter	ed; crum	bly core in small
	1		Green-			Kaolinite				pieces.				
			Grey		1	Calcite		1		– a	few pieces that	are a b	it large	r are feld ppy but
	<u> </u>	<u> </u>		· · · ·		Chlorite	·		1	most c	of core is in too	small p	ieces an	d too altered to say
•						1		1		if entire unit is:			······	
								1		- mc	d. pale green-gr	ey chlo	rite alt	
	<u>↓</u> _		†			† · · -			-	- mod. qtz-sericite alt.				·· · · · · · · · · · ·
	<u>}</u>	· · · · · · · · · · · · · · · · · · ·			<u> </u>			1	{	- earthy smell to core shows weak kaolinite alt.			aolinite alt.	
			• ·					1		· /				d in crumbly core
	<u> · −</u>		++		<u> </u>					-{	diss. pyrite, o			· · · · · · · · · · · · · · · · · · ·
			-1		<u>}</u>	-{}				- mi	aras. birres o	ccaston	TTA OF	

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PAGE _____ OF ____

DRALL HOLE NO. ____KL-9

ப EXPLORATION SELCO DRILL LOG HOLE NO. KL-9 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS FRACTURES, FAULTS, FOLDING, BEDDING, ROCK TYPE MINERALIZATION, TYPE, AGE RELATIONS GRAIN TEXTURE ALTERATION ORE FRACTURES COLOUR FROM τo - a few qtz stringers visible in small bits of core - non-magentic. (7.3 to 9 m) Fe staining on fractures ⇒ oxidation zone. - some pieces show evidence of shearing (minor). 16.5 m) Alt. decreases; rock becomes more green-grey; a bit bigger core pieces (still small) and less crumbly core, - still same alt, minerals but now weak to mod. intensity ~ pyrite 2 to 3% - somewhat larger pieces show that rock is a fine grain, non porphyritic, mafic poor (or leathered) andesite. 22.5 Andesite Chlorite Сру 50-100 Andesite feld ppy; med. green-grey; med. grain; up to 30.6 Med. Ppy 4 mm feld xtls make up to 60% of rock; euhedral to mostly Feld-Ppy Green-Veining Epidote somewhat rounded ⇒ compact fairly homoceneous rock; xtls Grey Calcite Sericite do not appear broken so probably flow or dyke, not tuff, (likely a dyke), Qtz - mafics \Rightarrow fine grain, green-grey - feldspars pale green and a bit soft (seritized); very minor qtz stringers/alt. - mafic component chloritized - minor very fine grain epidote alt. gives some of the

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DRILL HOLE NO. ____KL-9

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EXPLORATION DRILL Serco LOG HOLE NO. KL-8 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION ORE FRACTURES L with (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE COLOUR FROM тο core a lighter, greener, colour - minor to occasionally moderate calcite stringers and calcite plus chlorite fracture coatings - very minor hematite on fractures - minor (<0.5%) diss. pyrite - weakly magnetic - traces of cpy - core is very blocky; larger pieces than intervals to each side. (22.5 to 23.5 m) 0.5% cpy in this interval, diss. in rock and along fractures with calcite, dark green chlorite and gtz. Otz-carb (23.65 to 24.1 m) A 2 to 5 mm qtz-carb vein at 5° to C.A. vein 5° runs through core, traces of diss. cpy; minor light yellow-brown weathering. (26 to 27 m) Mod. intensity of off-white calcite stringers at varying orientation; discontinuous; - fractures also are at different L's to C.A., though low L's predominate.

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DRILL HOLE NO. ____KL-B_____

INTERV		WESTERN CANAD	A			DR			LO	G	HOLE NO. KL-9
	VAL		<u> </u>	B	OESC	RIPTION	!			STRUCIURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		(FRACTURES, FAULTS, FOLDING, BEDDING, EIC):	MINERALIZATION, TYPE, AGE RELATION
30,6	47.0	Andesite	Med.	Fine	Mottled	Quartz		> 500		Andesite tuff; fine grain, med	. green to grey-green; 1 mm
		Tuff	Green to			Sericite				and smaller feld xtls sometime	
			Grey-			Chlorite				fine grained and/or altered to	
			Green			Calcite				mottled looking,	
										- mod. pervasive qtz-sericit	e alt. has resulted in
										crumbly, altered core, breaks	into 1 cm and smaller piece
				•••				1		Rather poor core preservation	
										plastic trays.	
					}					- mafic component chloritize	d
										- very minor calcareous area	s
]	- very minor qtz and calcite	stringers at low L's to
										C.A. mostly	
										- broken surfaces sometimes	show a weak foliation which
										is at low L's to C.A. to paral	
										- pyrite 3% diss. in rock ⇒	sometimes helps outline wea
										foliation	
										- non-magnetic, no cpy obser	ved.
			,								
(32.1	32.8)	Andesitic to	Dark	V. fine		Chlorite		50-100		Andesitic to basaltic dyke, ve	ry fine grain, dark green,
		Basaltic Dyke	Green			Calcite				- mafic component chloritize	d
										- minor calcite stringers at	various orientations
					_					- no pyrite, no qtz-sericite	alt.
										- rubble of a 1 to 2 cm qtz	vein (white barren) at
									• [lower end.	

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DRILL HOLE NO. KL-9

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Ş si	ELCO	EXPLORATION WESTERN CANAD	A.			DR			LO	G	HOLE NO. KL-9
INTER	VAL					4 0 I 7 4 I A				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										41.5 m) Rock gets greyer; fol	liation more pronounced due
										to streaky, green chlorite i	in the greyer matrix; still
	}									at low L's to C.A.; pyrite i	s concentrated in the
										chlorite streaks, which make	up 20% of the rock.
										45.0 m) Rock greener again.	
										(45.5 to 47.8 m) Last box of	core, hardly anything left
										in it, either poor recovery	or else lost; what is left
										is same rock type plus a bit	of highly silicified light
										grey rock.	
										47.8 ⇒ END OF HOLE	
											······································
		· · · - · · · · · · · · · · · · · · · ·									
										· · · · · · · · · · · · · · · · · · ·	······································
	· ·	·									
										······································	

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\$se	LCO	EXPL WESTE	OR ATION RIL CANADA			DR		OG		S	ample	data	
· · · · · · · · · · · · · · · · · · ·	S A I	WPLE	*		CORE	RECOVERY	VISUAL ESTIMATES		GE	CHEM	RESULTS		
NUMBER	FROM	τo	TOTAL METRES	Sp. Gr	%	ANT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)			
871261	23.5	26.6		Box #5	100	Nil		10	24	0.3			
871262	26.6	31.4	1	#6	100	"		5	254	0.1]	
871263	31.4	36,8		# 7	100	11		15	459	0.3			
871264	36.0	42.5	1	#8	100	44 -		85	662	1:9			—
871265	42.5	47.85		#9	100	**		45	834	1.3			Į.
	·												-
			0 to 23.5	m Previ	ously s	ampled							
			- samples	871261 t	o 265 a	e from 1 box	each					1	
			- 15 cm s	wath take	n 30 cm	in from each	end					1	
			of a 12	0 cm (41)	box.					3			
								_					1
	1												
		[·····											
	<u> </u>		1										-
		1											
		{						-					
••]				r				÷			-
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		[·	<u> </u>		†"				
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\$s	ELCO	E XPLONATION WESTERN CANAL				DR			LD	G		HOLE NO
DRILLING CO) .	LOCATION SKET		DEPT	н	TESTS DIP ANGLE	AZIMUTI	OATE	STARIED:	August 23, 1984	PROJEC	CT (KL1
		Note: core boxes = poo			AR	- 50 ⁰	1800	DATE	COMPLETED		N. T. S.	
		vation; cor	e movement						AR ELEV.	171.9 m	LOCATIO	N: KL1-19 Claim
		between row							HING	8+00S		
		out of place		ļ				EAST		17+00E		
				L				AZ1M		1800		
				ļ				0591		91.4 m	1	OGGED: September 10, 1984
HOLE TYPE		<u></u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>			1	CORE	SłŻE:	B.Q.	LOGGEC	D 8Y: Hans Smit
INTE	RVAL	ROCK TYPE		_	DESCR	IPTION				STRUCTURE		REMARKS
FROM	τo		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		(FRACTURES, FAUL TS, FOLDING, BE	DDING,	MINERALIZATION, TYPE, AGE RELATION
0	6	Casing	ļ		·				·			···
5	11.0	Andesite	Med.	V. fine	λlt.	Qtz	-	25-50		Andesite; very fine gra	tinėd (a	almost aphanitic); med. grey
			Grey		Amygda-	Chlorite				colour; rounded to oblo	ong up t	to 6 mm blebs with altered
					loids?	Sericite				feldspar (soft, white)	and les	sser epidote and qtz may rep-
										resent amygdaloids 🖈	flow ro	ock; they make up
										~10% of the rock,		
				-						- rock is highly chlo	oritized	d and has mod. to strong
	-									silicic alt. which has	obscure	ed to some extent any texture
										(such as the possible a	amyg.)	
										- non-calcareous and	non-mag	Jnetic
						[- blocky core; fractu	ires at	various orientations to C.A.
<u> </u>		<u> </u>	.[]	<u> </u>	 				i			
			- 		ļ	<u> </u>			<u> </u>	(6 to 9.4 m) Fe staini	ing alor	ng fractures
			<u> </u>		 					⇒oxidizing zone,		
		<u> </u>			 			· ·	<u> </u>			but only a surface coating
			·		 					and probably stain from	a exteri	ior sources during core
]					I				storage.		

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Ssi	ELCO	EXPLORATION WESTERN CANADA	1			DR			LO	G	HOLE NO. KL-10		
INTER	Ιναι					RIPTION				STRUCTURE	REMARKS		
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATION		
11.0	21.0	Altered Andesitic	Light	V, fine	Veining,			100500		Altered andesitic tuff; xtl-1	ithic with ash layers; highl		
		Tuff	Grey	to fine	Blotchy,	Sericite				altered (looks almost dacitic	at times);		
	[Alt.	Kaolinite				- crystals are feldspar 1 to	o rarely 3 mm in an ashy		
	<u> </u>	· · · · · · · · · · · · · · · · · · ·		1		Chlorite				matrix; high alt. has made it	hard to see the crystals in		
										most of the rock; lithic frag	ments are generally 1 cm 7		
	1									less and of similar composition	on as the matrix; there are		
				[1			1		some larger 'fragments?' dist	inguishable as well but		
]	{	}			suspect these are alt. phenome	enon, not original texture		
										- high alt. masks original	texture to a great deal;		
	1									resulting in a mottled/blotch	Iting in a mottled/blotchy texture to the interval;		
							,			there is moderate to strong p	ervasive qtz alt.; moderate		
]		qtz-sericite and ash layers a	re clay (kaolinite) rich;		
		4		[}			mafic material \Rightarrow (minor) is s	o fine grained that it can r		
							<u> </u>			be distinguished easily but a	ppears to be chloritized.		
									<u> </u>	- alt. results in crumbly c	ore		
									Veins	- qtz stringers and veining	is of moderate intensity;		
									40 to 45 ⁰				
										is 40 to 45°; py diss. 2 to 3	8.		
	[11.5 m) 6 cm ash layer; whit			
		·	-							13.1 m) 1 cm gtz veins mucky	white; barren; cut core a 4		
										to C.A.			
										(13.22 to 13.5 m) Ash rich 1	ayer; strong qtz-sericite-		
										chlorite alt.	· · · · · · · · · · · · · · · · ·		
									<u> </u>	15.1 m) Distinct up to 1 cm	lapilli over 30 cm.		

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Ş=	ELCO	EXHLORATION WESTERN CANAL				DR			LD	G	HOLE NO. KL-10
t N T E F	IVAL		1		DES	CRIPTION	<u></u>			STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION
				1			ĺ	Į		17 m) Rock becomes less cru	mbly; seems to be less ash
					1			1		content; some increase in t	he amnt. of light brown
									[staining on the core = prob	ably post drilling oxid. of
										pyrite in the core due to t	he presence of sericite and
							· - ·			clays which will decompose	readily.
21.0	21.6	Feld Ppy	Light	Fine	Рру	Qtz;	Сру	50~100		Feld. ppy dyke; 1 to 4 mm sub	hadral plan with 1908 of
		Dyke	Grey	grain		Sericite	` ₽₽			rock), in a fine grain matrix	
									ţ	alt.; mask much of original t	····
					1					weathering stain; 3% diss. py	
										сру.	
											<u></u>
21.6	39.2	Tuffaceous	Lt. Grey	Fine	Alt.	Qtz		500-1000	·	Tuffaceous argillite; mottled	
	 	Argillite	w.Majenta	<u>; </u>	Mottled	Sericite			Foliation		
	· · ·		Lt.Yellow			Kaolinite	2		60-80 [°]	flakes up to 4 mm (sheared ma:	fic crystals?); weathers
			-brown			Chlorite				light yellowish-brown; rock h	as weak foliation at high L
	<u>}</u>		weatherin	g						to C.A.	
				·-						(60 to 80°); not always observ	vable;
					<u> </u>					- core very broken and cram	ply
							_	<u> </u>		- mod. to strong gtz alt.;]	plus some sericite alt;
										weak to occasionally mod. kao:	linite alt. results in soft
	,									clayey zones and an 'earthy'	smell to core
										- ру 3%	
						ļ				- non-calcareous and non-mag	metic

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Sei	ELCO	EXPLORATION WESTERN CANAG				DR			LO	G	HOLE NOKL-10
INTER	VAL				DESC	8191101	4			STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	L with	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATION
			1		1					21.5 m 2 cm of clay rich fau	lt gouge.
							· ·			28.4 m Pyrite streaked along	shear/foliation direct.
							ļ			33.6 m) Start getting minor	dark reddish-brown calcareou
										stringers (hematite + claci	te?) with 10 to 70% pyrite a
										various L's to C.A.	
_		<u> </u>								 rock has less yellow-brows 	n weathering; less majenta
										colour on fresh surfaces.	
								<u> </u>		} 	
(36.3	37.1)	Diorite	Med.	Fine		Chlorite		25-50		Diorite dyke; fine grain; 1 to	o 2 mm feld (75%); 25% mafic
			Grey		Į	Sericite				(Hbld. and lesser augite; med	. grey colour; interlocking,
					<u> </u>			[intrusive texture; mafics chlo	pritized; feld. weakly
										serificized; contacts with arc	gillite not preserved so
										orientation unknown; blocky co	ore.
					<u> </u>					37.1 m) Argillite later is no) longer brownish weathering
					}					looks completely recrystall:	ized; still mafid poor; stil
										a streaky foliation at high	
										of rock now; diss. within th	
			}	•				1		rock somewhat less crumbly t	than last interval. (more qu
									2tz vein	alt?)	
									15 ⁰	38.1 m) 1 cm qtz vein cuts co	ore at 15° to C.A.;
										- on bottom side get 3 cm of	f vuggy, calcareous alt. wit
	İ.				}					minor chlorite.	· · · · · · · · · · · · · · · · · · ·
			ļļ.							- 37.5 m start getting mod.	calcite alt.
										·	

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DRILL HOLE NO. KL-10

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\$si	ELCO	EXPLORATION WESTERN CANAD	A			DR	LL		LO	G	ROLE NO KL-10
INTER	VAL					RIPTION				STRUCTURE	REMARXS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATION
39.2	41.8	Andesite	Med.	Fine	Foliation	\$		25-50		Andesitic tuff; fine grain; so	ome relic xtls still dis-
		Tuff	Grey-		Veining,	Calcite		<u> </u>		cernable; med. grey-green cold	our; feld. and mafics
			Green	<u> </u>	Alt.	Chlorite				(stretched) in finer grain mat	rix, but indistinct due to
						Sericite		<u> </u> _	[strong qtz and chlorite alt.;	feldspar component sericiti:
						į			Stringer	mod. intensity of qtz stringer	
	-				}				40 ^{±10}	most common at 40 ^{±10} to C.A.	but other orientations found
			[too.	<u> </u>
									Foliation	- weak foliation occasional	ly visible at~60° to C.A.
				[60 ⁰	~ core blocky; many fracture	es have dark green chlorite
										and lesser calcite coatings	
									<u></u>	- only trace amounts of pyri	te
				[ļ	- (41.6 to 41.8) is slightly	magnetic due to finely
				<u> </u>	_					diss. MGT.	
									<u> </u>		
41.8	44.0	Tuffaceous	Light	Fine	Foliation	Qtz		100-500	} 	Tuffaceous argillite; same roo	k as unit in interval from
		Argillite	Grey		Alt.	Chlorite				21.6 to 39.2 m; ⇒ seem to be	getting interbedded andesit
						Sericite			<u>.</u>	tuffs and. tuffaceous argillit	es; rock does not have a
]	Kaolinite		 	<u> </u>	majenta colour as seen in last	tuff arg, interval and is
					<u> </u>	Calcite			}	light grey to greenish-grey in	colour; but similar to las
					<u> </u>				<u> </u>	interval it is highly altered	(strong qtz, mod. qt2-seric
					{ _					occasional Kaolinite); quite	pyritic (3 to 5%) and mafic
					l				 	poor; minor calcite alt.	
					ļ					- (42.0 to 42.5 m) Brownist	weathering; 2 fault gouge
				 				ļ		zones in interval; kaplinite a brown weathering and not kapli	
				† -	<u> </u>				 	- core too broken to determine	

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DRILL HOLE NO. _____KL-10

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\$s	ELCO	EXPLORATION WESTERN CANAD	۵			DR		Ļ	QG	HOLE NO. KL-10
INTE	RVAL]	r		DESC	RIPTION	4		STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
									foliation but it appears to)	pe at a mod. to high L to C.A.
44.0	49.4	Andesitic	Med.	Fine	Рру	Qtz		25-50	Andesitic xtl-lithic tuff; f:	ine grain with occasional up
		Tuff	Grey-		Stringer	Chlorit	ł		to 1 cm lithic frags; 40 to 5	50% feld xtls mostly 1 mm and
		(xtl-lithic)	Green			Calcite			smaller in a very fine grain	grey-green matrix plus minor
		{			<u> </u>	Epidote			chloritized mafics; lapilli a	are of similar comp. to main
									rock,	
	Į							}	- rock has mod. to strong a	silicic alt.; strong chlorite
									alt.; weak epidote alt.; weak	intensity of gtz stringers
									and calcite stringers; some e	pidote along fractures
									- trace pyrite at start of	interval; 1 to 2% at end
	ļ			{					(also more pervasive gtz alt.)
									- a few slightly magnetic s	pots
					<u> </u>			<u> </u>	<u> </u>	
49.4	91,44	Altered Andesiti	c Light	Very	Mottled	Qtz		50-100	Andesitic to dacite tuff; fir	e grain; light grey; mafic
		(to dacite)	Grey	Fine		Sericite			poor ⇒ looks almost dacite bu	t this may be due to high alt
		Tuff	_			Kaolinite			\Rightarrow unit is close to the tuffac	cous argillite found earlier
		Ash to Fine Xtl				Chlorite			in core but now less argillic	: (no foliation; don't get
										mly minor brownish weathering
									along fractures; only minor k	aolinite; less flakey core),
	 _									to strong sericitic; occas-
	[]								ional kaolinite along fractur	es and in a few fault zones;
									5% diss. pyrite in rock; rare	
									chlorite,	
					<u> </u>				- can make out some feld xt	is (2 mm and less) but

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OBILL BOLE NO KL-10

Şs:	ELCO	EXPLORATION WESTERN CANAD	ά			DR			LO	G HOLE NO KL-10		
INTER	VAL		1			RIPTION				STRUCTURE	REMARKS	
FROM	τo	ROCK TYPE	COLOUR	GRÁIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
					}					generally rock is so altered	that any original texture	
										is lost \Rightarrow therefore unknown with	hether this is a dacite or a	
										highly altered andesite.		
	·			<u> </u>						⇒ a bit diss. pyrite; remna	t feld. xtls and alt. give	
•										the core a 'speckled to 'mottled' look.		
	<u>4</u>				<u> </u>					Note: ⇒ core is taking up to	2 x as much space as core	
									•	interval and boxes are become	ning increasingly messy with	
										most interval markers misple	aced so measurements are	
										somewhat estimated.		
					ļ							
									Fault	62.44 m 1 cm fault gouge (som		
					 				60 ⁰	- 3 cm interval before has a	weak foliation $\sim 60^{\circ}$ to C.A.	
										shown by pyrite; likely orient	ation of fault.	
				<u>_</u>						53.1 m Fracture filling that	weathers brown and is clay-	
										rich.	· · · ·	
								ļ		53.7 m) Feld crystals becomin	ng more discernable (up to 40	
									_	of rock); in fine grained to	glassy mottled pale greenis	
										grey matrix; starting to get	minor qtz and minor calcite	
										stringers.		
			·							55 m) Rock is going from ligh	nt grey to light green-grey:	
İ										more andesitic looking; pyri		
									· · · · · ·			
	[•		

 $(a_1,\ldots,a_{n-1}) \in \mathbb{R}^{n+1}$

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\$s	ELCO	EXPLORATION WESTERN CANAD				DR	┇┡╴┡	l	G	HOLE NO. KL-10	
INTE	RVAL	}]		OES	RIPTIO	4		STRUCTURE	REMARKS	
FROM	TO	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	 (FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
									58.3 m) Getting into a xtl t	uff that has up to 5% highly	
									chloritized up to 4 mm augi	te xtls; 40 to 60% less	
									distinct 1 to 3 mm feld xt1	s and a fine grain matrix -	
									 definite andesite,		
			}		1		[- very minor epidote.		
						}					
									60.2 m) 10 cm of fault gouge	; brown weathering; clay-rich.	
(61.5	62.8)		Brownish-	.				10-25	 Either a vein or a zone of ve	ry high siliceous alt, that	
	·[-	Grey			Pyrite			 is almost 704 greyish qtz and		
							[chlorite and sericite. Pyrite		
		· · · · · · · · · · · · · · · · · · ·				[<u></u>	<u>}</u>	fractures in the qtz; minor c		
						·	[- core is blocky and quite a		
									 - Fine grain, mottled looki	ng sitered greenich greu	
		e · · ·	4		· · · · · · · · · · · · · · · · · · ·				tuff continues after the above		
								<u> </u> · ·	 edit concentace after the above	e unic,	
(66.3	68.8)	Andesitic Augite	Med.	Medium	Рру	Qtz		10-25	Andesitic augite ppy dyke; me	dium grey-green; up to 5 mm	
	ļ	Ppy Dyke	Green⊷			Chlorite			 subeuhedral augite crystals ma	ake up 15 to 20% of the rock;	
	ļ		Grey			Epidote			matrix is fine grained, grey-	green, feld rich;	
								<u></u>	 - mafics chloritized		
						.			- v. minor epidote alt.		
									 - core v. hard mostly - sus	pect qtz alt.	
<u>-</u>					ļ	<u> </u>			 - blocky core		
	 	 							 - cpy 2%; one discontinuous	pyrite stringer at 68.2 m;	
	1	1	i			{	L		 rest diss. and along fractures.		

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DRILL HOLE NO. KL-10

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INTE	VAL.			[DESC					STRUCTURE	REMARXS
FROM	то	ROCK	τΥρε	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE		[FRACTURES, FAULTS, FOLDING, BEDDING, ETC]	MINERALIZATION, TYPE, AGE RELATIONS
										• •	- non-calcareous and non-mag	gnetic.
					<u>}</u>						At 68.8 m get back into light	grey to grey-green tuff which
(68.8 91.44) Altered Andesi to Dacite Tuff					Ì	<u> </u>			continues to end of hole; core	e is broken into small angular		
									pieces and the core has been]	badly messed up between rows		
	ļ										in the plastic boxes (+ some)	movement between boxes)
						ļ					therefore only a quick observe	ation was made of the 20 cm of
							(ļ			core.	
]				I]				
(68.8	91.44)	Altered	Andesitio	Light	V. fine	Mottled	Qtz	1	500-1000		Andesitic to dacitic tuff; mo:	stly ash; v. fine grain;
		t	<u>כ</u>	Grey to		Alt.	Sericite]			light grey to grey-green; light	ht grey looks dacitic
		Dacite	Tuff	Grey-			Chlorite				(altered and?); mod. to strong	g qtz-sericite alt.; kaolinite
to				Green			Kaolinit	e			in occasional fault gouges; or	ccasionally mod. calcite alt.
										minor gtz stringers in first	few metres but not later,	
	}									pyrite 2 to 3% diss. throughout	ut; not magnetic,	
									- this is a continuation of	f the fine tuff unit found		
										in most of this hole		
										- generally v. fine to aph	anitic; completely recrystal-	
						1					ized; occasionally pale green	chlorite flakes (altered
		-]						mafics?).	
							[}				
]		1	1			80 m) Start getting up to 4 m	nm dark green chloritic
		1		-			1]			grains (up to 10% of rock)	- altered augite probably;
											less sericite in rock but st	till high qtz alt; can some-
											times make out 1 to 2 mm fe	ld. crystals as well ~
											getting into a crystal tuff	(aug-feld xtl tuff);

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<u>S</u> si	ELCO		EXPLORATION ESTERN CANAD	A			DR			LO	G	HOLE NO KL+10
INTER	VAL			}		DESC	RIPTIO	· ·			STRUCTURE	REMARKS
FRON	70	ROCK	TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION
				ļ	_	[· · ·	83.5 m) Getting weak epidote	alt.
				}	[- core goes to about 86 m,	therefore 5 m or 1 to 2 boxe
] 					are missing.	
		· · ·										
											91.4 m END OF HOLE	
												·····
									}			
									<u> </u>			······
												· · · ·
												· • • • • • • • • • • •
											* 	
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											····	
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DRILL HOLE NO. KL-10

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\$SE	LCO		ORATION IN CANADA			DR	ILL L	ØG		S	ampl	e	data	
<u> </u>	S A I	N P L E			CORE	RECOVERY	VISUAL ESTIMATES]	ì	GEOCHEM	RESUL	T S		
NUMBER	FROM	TO	METRES	Sp. Gr	7.	SAMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)) Ag (ppm)		ľ		
				NOTE : -	Each is	s sample is con	posed of a 15 cm wide z	cine taken	ocross					
				1	a box	foot from eac	b end.				[
				[- Boxes	(plastic) are	4 foot long resulting	in each sa	mple					
	· · · ·				bein	the 5 split of	f h of the core in each	box.						
871163	6.0	12.22	6.22	Box #1	100	Nil		43	162	0.2				
871164	. 12.22	17.26	5.04	#2	100	r+		60	63	0.1				
871165	17.26	21.60	5.34	#3	100	"		25	176	0.1				
871166	21.60	24.15	2.55	#4	100			15	100	0.1				
871167	24.15	28.93	5,78	#5	100	10		5	30	0.1				
871168	28.93	36.5	7.57	#6	80	20		5	17	0.1				
871169	36,5	38.0	1.5	#7	100	Nil		100	20	1.5				
871170	38.0	42.7	4.7	#8	100	. u	· · · · · · · ·	40	133	0.5				
871171	42.7	49.5	6.8	#9	85	15		35	164	0.1				
871172	49.5	51.4	1.9	#10	100	Nil		, 15	114	0.1				
871173	51.4	55.2	3.8	#11	100	11		5	33	0.1				
871174	55.2	58.9	3.7	#12	100	11		85	364	0.4				
871175	58.9	62.1	2.2	#13	100			5	36	0.2				
871176	62.1	66.1	4.0	#14	100	41		15	89	0.2				
871177	66.1	70.2	4.1	#15	100	tt.	· · · · · · · · · · · · · · · · · · ·	45	191	0.1				
871178	70.2	73.1	2.9	#16	100	υ		25	128	0.1				
871179	73.1	77.3	14.2	#17	100	11		5	20	0.1				
871180	77.3	80.3	3.0	#18	100	۹E		3	24	0.1				
871181	80.3	83.1	2.8	#19	100	I.	·	5	102	0.1				
871182	83.1	86,5	3.4	#20	100		IND. UV WHOLE	5	39	0.1				

EXPLORATION DRILL LOG SELCO HOLE NO. KL-11 WESTERN CANADA TESTS DIP ANGLE LOCATION SKETCH DRILLING CO. DATE STARTED: PROJECT DEPTH AZIMUTH KL1 N. T. S. I DATE COMPLETED 225⁰ COLLAR Aug. 26, 1974 -S0 94 008 COLLAR ELEV. LOCATION KL1-14 CLAIM Aug. 28, 1974 NORTHING : EASTING: AZIMUTH: DEPTH DATE LOGGED 96.6m Sept. 12, 1984 LOGGED BY . HOLE TYPE CORE SIZE: 73 Q Hans Smit STAUCTURE REMARXS INTERVAL DESCRIPTION ROCK TYPE (FRACTURES, FAUL IS, FOLDING, BEDDING, ETC): GRAIN ORE FRACTURES L to C.D MINERALIZATION, TYPE, AGE RELATIONS FROM тο COLOUR TEXTURE ALTERATION 0 11.4 Overburden Fractures Augite ppy, (basaltic); 60% generally 2 mm and smaller; 14.2 Augite Ppy Med. Med. Рру Qtz 10-25 11.4 50⁰ Grey-Veining Epiodote occassionally up to 3 mm stubby augite crystals in a fine Chlorite Stringers grain matrix; last [m of interval is much finer grained Green (contact effect?); mafics chloritized Calcite 50. 30 - weakly magnetic - due to finely diss. mgt. - matrix epidotized in first half of unit (moderate intensity) + minor epid. stringers - minor (at first), to moderate (at end) qtz stringers; mod. calcite stringers after R.S.M. - hematite staining on some fractures - main fractures direct approx. $\geq 50^{\circ}$ to C.A. - stringers at 50° to C.A. and 30° to C.A predominately. - cross cutting calcite fractures observed - core relatively unfractured and blocky - non pyritic.

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82 EXPLORATION DRILL LOG SELCO HOLE NO. KL-11 WESTERN CANADA REMARKS OESCRIPTION STRUCTURE INTERVAL (FRACTURES, FAULTS, FOLDING, BEDDING, ETC) ROCK TYPE MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE TEXTURE ALTERATION MINERALS PER METRE FROM то COLOUR (10.4 to 14.2) Fe staining on fractures Doxidizing zone. 13.8m minor malachite staining along a calcareous. fracture. 14.2 17.9 Andesite Ash Light v. fine Blotchy Qtz 100-500 Andesitic ash tuff: light grey to greenish grey; very Tuff veining Chlorite blotchy looking due to mod. to strong qtz alt \simeq (looks grey to completely re-crystallized) w blotchy pale green greenish. Alt (chlorite?) intermixed. grey - calcite on fractures and occassionally moderate calcite altrin rock. - pyrite 1 to 2% ; non magnetic. - minor hematite on fractures - 15.1 small amount of clay-rich, brownish weathering fault gouge. Med.grey Med. to ppy 17.9 26.7 Andesite Andesitic feld, ppy; mod. grain to sometimes course qtz Сру 50-100 Feld ppy green coarse veining calcite grain; up to 4 mm feld phenocrysts make up soto 70% of (possibly diorite) chlorite therock; remainder is fine grained feld. and~15 to 20% sericite mafics. occassional mafic crystals (avaite?) Up to Smm but not common; massive nature and course

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EXPLORATION DRILL SELCO LOG HOLE NO. KL-11 WESTERN CANADA STRUCTURE REMARXS INTERVAL DESCRIPTION (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): ROCK TYPE MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE TEXTURE ALTERATION ORE FRACTURES τo COLOUR FROM Grain of rock suggests that rock is possibly a diorite. not an andesite. - mafics_chloritized - feldspars serificized - minor qtz_stringers_and_alt 🛩 - weak to occassionally mod. calcite alt. ; mod. intensity of calcite stringers. - a few Ø-B weathering qtz-carb stringers - fractures usually have chlorite - calcite coatings - 1-2% pyrite, diss, in rock and esp, along fractures coatings: decreases down interval. - minor hematite on fractures: abut. in interval_18.3_____ to 18.6 m. - non magnetic____ - minor cpy; found on a few widely spaced fractures. - a few clay-rich fault gouge zones 23.3m - 3 cm of fault gouge; clay-rich; 1-B weathering veins above and below. 24.3 m - 1.2 m darker green fine

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DRILL HOLE NO. ____ KL-II

ELCO					DR	L. L.		LO	G		HOLE NO. KL-11
RVAL				DESC	AIPTION	1			STRUCTURE		REMARXS
TO	ROCK TYPE	COLQUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	PER METRE		(FRACTURES, FAULTS, FOLDING, B	EDDING,	MINERALIZATION, TYPE, AGE RELATIONS
			ļ						Grain mafic inclusion;	also c	py on a fracture surface.
<u>_</u> .	<u> </u>			<u> </u>	[<u> </u>	·	24.71 another 3 cm fau	lt_zone	to_Ø-B_weathering,
				<u></u>	ļ .==				26.1) 8 cm of clayey f	ault go	uge: 15 cm before are
ļ			ļ	<u></u>	ļ		ļ	 	partially_bleached,qt	z rich:	and have a fair bit
				} 	<u>}</u>				of Ø-B color ⇒ seems £	<u>-B_weat</u>	hering alt≍is fault
<u> </u>	4			ļ					controlled *>only_mino	r <u>alt.</u>	in_footwall
 					<u> </u>		j 		- orientation of fault		n
		·	· ·	 							
31.2	Andesitic	Med.	Lapilli	 	Calcite		50-100		Andesitic lapilli tuff	; matri;	x supported; 1 cm and
ļ	Lapilli Tuff	Grey		- -	Chlorite				_smaller; (rarely large	r)_lapi	lli_in_a_fine_graine_med,_to
		Green			<u> </u>		ļ.,		dark grey-green matrix	: lapil	li_are white (feld XTLS;
ļ	<u> </u>		ļ	ļ			.]_]	ļ	_euhedral_to_hroken_shr	ards, u	p_to_4_mm_long); light
		<u> </u>	<u> </u>	 					green (very fine grain	to gla:	ssy); and med. grey-green
<u> </u>					· · · - ·				(similar to matrix of	tuff);	feld_XTLS_dominate_in_the
ļ			ļ						upper part; lithic fra	ls_in_t	he_lower_part
		<u> </u>	ļ						- weak to moderate per	vasive	<u>calcite alt ≃ : minor</u>
											····
 	ļ .										<u> </u>
<u> </u>	l					· · · ·					
· · -		<u> </u>							<u></u>	_	
<u> </u>									 	-	
<u> </u>			··	į		· · ·	[······		 		· · · ·
	·{	·					-		· · · · · · · · · · · · · · · · · · ·		
		ELCO WESTERN CANA	TO ROCK TYPE TO ROCK TYPE COLOUR	ELCO WESTERN CANADA TO ROCK TYPE COLOUR GRAIN SIZE TO Image: Size Image: Size Image: Size Image: Size Imag	ELCO WESTERN CANADA TO DESC TO ROCK TYPE DESC COLQUR GRAIN SIZE TEXTURE Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image:	ELCO WESTERN CANADA DESCRIPTION TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION	ELCO WESTERN CANADA DESCRIPTION TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION MINERALS Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size	ELCO WESTERN CANADA DESCRIPTION TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION ORE MINERALS FRACTURES PERMETRE Image:	ELCO WESTERN CANADA DESCRIPTION TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION MINERALS FRACTURES PER METRE TO COLOUR GRAIN SIZE TEXTURE ALTERATION MINERALS FRACTURES PER METRE Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Siz	ELCO WESTERN CANADA DESCRIPTION STRUCTURE TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION MINERALS OPE FRACTURES	ELCO WESTERN CANADA DERILL LOG NYAL ROCK TYPE DESCAIPTION STAUCTURES, FAUCTS, FOLDING, BEDDING, COLOUR GRAIM SIZE TEXTURE ALTERATION STAUCTURES, FAUCTS, FOLDING, BEDDING, FTG) TO SIZE TEXTURE ALTERATION STAUCTURES, FAUCTS, FOLDING, BEDDING, FTG) Grain mafic inclusion: also c 24.71 another 3 cm fault zone Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size Image: Size

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INTE	RVAL					RIPTION				STRUCTURE	REMARXS
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L TO G.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
-						<u> </u>		<u> </u>	L	- minor hematite staining on	fractures
						<u> </u>				- non magnetic; little qtz a	lt⊄
				l	<u> </u>					- chlorite and calcite along	fractures; chlorite
										<u>alt∝in matrix</u>	· · · · ·
			-		İ					- very minor finely diss. py	rite
									fault		
								}	65 ⁰	28,6 m) a few mun of brownish	clay rich fault gouge
•										at 65° to C.A.	
						<u> </u>	 		Possible	<u>29.4 m) в 3 cm lighter, qtz</u>	altered (hard) zone cuts
							[ser directly below than
	.					} 			<u>85-90⁰</u>	directly above possible tuf	
31.2	63.9	Andesitic	Med.grey	Fine	Alt ⋍	Calcite		100-500	· · · · · · · · · · · · · · · · · · ·	Andesitic tuff; fine grain w	
	ļ	Tuff	green		veining	Chlorite				in a fine grain matrix; feld	-rich; calcareous; variable
		Fine Grain	to light			Epidote				in texture and appearance.	<u> </u>
	. 	to Lapilli	green	ļ	ļ	Qtz				- weak to moderately calcare	
			grey		 	Sericite				to strong calcite stringer	s; blebs and veins; various
										orientations.	
			_							- mostly too fine grained or	too altered to see any
	<u> </u>				ļ					original texture.	
	┨─────		_	·····=	<u> </u>			<u> </u>		[
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Ss	ELCO	EXPLORATION WESTERN CANAC				DR			LD	G	HOLE NO. KL-11
INTER	VAL		1	<u></u>	DESC	RIPTION	м ————————————————————————————————————	_		STRUCTURE	REMARKS
FROM	τO	ROCK TYPE	COLOUR	GRAIN T	EXTURE	ALTERATION	MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDOING, ETC)	MINERALIZATION, TYPE, AGE RELATION
										- strong chlorite alt 🗐 light	to pale green
							<u> </u>			- occassional qtz altered are	as
										- non magnetic	
										- minor diss. pyrite	
							.[- occassionally shows foliati	on
			<u> </u>				<u> </u>			- first metre has 5 to 10% epi	dote blebs up to 3mm
			<u> </u>	<u> </u>				[long (altered mafics?), the	n no more epidote
			<u> </u>							- feld spar crystals visible	are pale green and partly
			ļ				<u> </u>			seriticized.	
		·									· · · · · · · · · · · · · · · · · · ·
							ļ		Shear	33.5 m) weak shear foliation	at 35 ⁶ to C.A. for 10 cm.
									.35°	34.5 m) 1 cm qtz-carb vein;	<u>barren, white cuts C.A.</u>
				-			ļ		<u>qtz car</u> l	at 45 ⁰	
			ļ					-		<u>36.6 m) Shear foliation at 7</u>	0 ⁰ to C.A. for 25 cm.
									shear	37.1) 10 cm of strongly sq	t altered rock w 3%
			<u> </u>				· · ·		70 ⁰	diss. pyrite	
<u></u> ,			<u> </u>							37.9) 1 to 2 mm feld. crys	tals make up 40% of the
			.[_	rock for 20 cm; euhe	dral to subhedral; no
	<u></u>		<u> </u>							contacts visible to	surrounding dyke but
			<u> </u>							<u>may be a small dyke.</u>	• • • • • • • • • • • • • • • • • • •
<u> </u>				_		···· -				41.0) epidote blebs up to	3mm for 1 m
									· · · · · · · · · · · · · · · · · · ·		

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Ş٩	ELCO	EXPLORATION WESTERN CANAD				DR			LO	G	HOLE NO. KL-11
1 N T E	RVAL		1		DES	C R 1 P T 1 O I	4			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		[FRACTURES, FAULTS, FOLDING, BEDDING, ETC]:	MINERALIZATION, TYPE, AGE RELATIONS
										again; rock is coarser graine	d now and can pick out
·]		1			1	individual crystals (mostly f	eld)
									İ	- highly variable nature of r	ock indicates that it is
									<u> </u>	still tuff (andesitic XTL)	and not flow rock
]	1		[- getting minor hematite stai	ning on fractures again.
					<u> </u>					42.5 M) getting a few up to	3 mm cpy blebs; widely
							<u> </u>	<u> </u>		spaced diss in rock	and in small cavities
		<u>-</u>		<u> </u>		<u> </u>			L		
					<u></u>	ļ		ļ	Alt 20	46,9 M) a 2 cm band of high	gtz and mod, calcite alt 🗠
								<u> </u>	cpy	w 15% pyrite and 10	<u>\$ cpy cuts core at 50⁰</u>
			[ļ	<u></u>	1	 	50 ⁰	to C.A.: get 2% cpy	for 10 cm below that
			<u> </u>			ļ	<u> </u>			and then only v. mi	nor ampts after that.
	<u> </u>					[<u> </u>	1			
	 				<u> </u>	<u> </u>	Į	ļ		-	
46_9	47.9	Andesitic	Med	Fine	I	calcite	сру	25-50	<u> </u>	andesitic XTL-lithic tuff in	this internal to up to
	1	XTL-lithic	grey	to	į	chlorite]		2 cm. Slightly lighter but si	milar comp. fragments
	· ·	tuff	green	lapelli						in the fine to med. grain tuf	f matrix and smaller
								ļ		darker and finer grained lapi	111
					ļ	ļ		ļ		- then back to finer grained	tuffs
				<u> </u>		<u> </u>					
			<u> </u>		<u> </u>	<u> </u>		<u> </u>			
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DRILL HOLE NO. __KL-11

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EXFLORATION SELCO DRILL LOG HOLE NO. KL-11 WESTERN CANADA DESCRIPTION STRUCTURE INTERVAL REMARKS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC) GRAIN SIZE TEXTURE ALTERATION ORE FRACTURES MINERALIZATION, TYPE, AGE RELATIONS FROM COLOUR тο foliation 48.0) starting to get a foliation shown foliation by elongated darker (mafics) fragments 30⁰ from 1 to 5 cm long which make up 10% of rock; it is at 30° to C.A. Foliation is only sometimes visible and is not always at same orientation further down hole; no longer any hematite staining. (51 to 52 m) more lapilli evident, 'cm and less; 2 to 3% pyrite in this area seems to post date deposit as all lapilli equally pyritized as is matrix. (50.5 to 52) 2 to 3% pyrite in this interval 51.3) what appears to be a contact between very fine tuff above and lapilli tuff below runs at high --angle to C.A.; not planar_contacted however as lapilli tuff in next piece of core upwards as well believe the fine graine is a>4 cm lithic fragment. 52,27-52.35) Rock is 50% altered to milky white qtz; rest still fine grain. Country rock and minor calcite: generally more qtz stringers and alt wow but still minor.

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ORILL HOLE NO. KL-11

\$s	ELCO	EXPLORATEX WESTERN CANA				DR			LD	G	HOLE NO. KL-11.
INTER	RVAL		1	-	DESC	RIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L TO CA	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									L	- below get fine grain tuff w	weak foliation shown
				<u> </u>	<u> </u>	<u> </u>		İ	Foliatio	n by discontinuous slighly di	fferent color 1 mm layers;
				} <u>-</u> -				ļ	55°	at 55° to C.A.	
.		· · · · · · · · · · · · · · · · · · ·	_		<u> </u>					(53 to 54.5) Coarser XTL tuf	
			_	· ·						10% chloritized	I, indistinct mafics.
					Į			l		- below more fine	graint to occassional
										lapilli, calcit	e stringers and also;
					<u> </u>					minor feld crys	stals and minor pyrite;
	<u> </u>	} 	. <u> </u>					<u> </u>		core has a blot	chy texture.
		[· · · · ·		58.8 m) clay-rich fault goug	ge for 10 cm.
			-					[ata aarl	63.71) 1.5 cm gtz and minor	carly veint note dul
			-						vein	weathering cuts core_	
			_						40 ⁰	40° to C.A.	
							<u> </u>				· · · · · · · · · · · · · · · · ·
(63.9	83.0)	Fault Zone	Med.	varies	breccia	qtz				a major fault zone is trasect	ed by the core in this
			Grey		foliatio	<u>calcite</u>				interval. It is a zone of sh	nearing, brecclation and
	ļ	<u></u>	Green		<u> </u>	<u>chlorit</u>				highly altered rock; the zon	e is cut by a non-
	ļ	{	to orang	ļ	ļ	clay				brecciated or foliated Dyke.	
	 	<u>.</u>	brown		-					<u> </u>	<u> </u>
	t									······	

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DRILL HOLE NO. ________

چ ء	ELCO	EXPLORATIO WESTERN CAN/				DR			LD	G	ROLE NO. KL-11
INTE	RVAL		1		DESC	AUPTION	4			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	MINERALS	FRACTURES	1	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
					<u> </u>	ļ	ļ		<u> </u>	- andesitic tuff occurs below	and above the zone
	<u> </u>			 				}		so rock within it is probab	oly former tuff as well.
		Altered							[
(63.9 .	65_7)	Andesite_tuff	Specked	Lapilli_	Foliatio	Qtz		10-25	Foliation	Rock is composed of 1 to 4 mm	n green to grey angular
			dark to		<u> </u>	Calcite			40 ⁰	fragments_in_a_lighter_qtz-ri	
	ļ	}	pale_gre;	ł			ļ			somewhat to give a foliation	at 40° to C.A.; varies some;
	ļ	\$	_				[ļ		calcite_alt & along_fractures	and v. minor calcite
	- <u></u> .			· · · · ·	ļ		<u> </u>]		_stringers	
				}				{		Unknown if frags are origina	<u>ll (i.e. lapilli tuff)</u>
			_				¦	<u></u>		2	ion.
	_					j]	_	- rock weakly magnetic	
	ļ			}				ļ		64.6) rock no longer magnet	
		ļ					<u> </u>	į		broken and decomposed; gett	
		-				·	[{ 	· · · · · · · · · · · · · · · · · · ·	greenish grey matrix to any	ular clasts within
										foliation distorted.	
(65.7	73.3)	Lamprophyre	Light	ррү	ррү	chlorite		10-25		(exact contact within 50 cm o	of mush)
(05.7	73.31	Dyke	Brown	, , , , , , , , , , , , , , , , , , ,		ed serici		10-25		- lamprophyre dyke; light bro	
	1				1929-201223	clay	<u></u>	[feld XTLS (sub to euixedral	
										tock; 1 mm and smaller	·····
		· · · · · · · · · · · · · · · · · · ·	_		<u></u>			<u> </u>			
		<u> </u>								۰	
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EXPLORATION DRILL LOG SSELCO HOLE NO. KL-11 WESTERN CANADA DESCRIPTION STRUCTURE REMARKS INTERVAL ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, ORE FRACTURES MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE TEXTURE ALTERATION FROM то COLOUR . needle-like Hold, make up 2-3% and 1 mm and smaller biotite make up 1-2%, rest is a light brown aphanitic matrix. - mafics are chloritized; feldspars are seritized - close to half of the core in this unit is fine rubble to Sst (\overline{w} some clay) due to decomposition of the rock. - last 4 cm has rounded clasts of the dyke rock in matrix of same; up to 1.5 cm. sas rest of dyke not brecciated or foliated suspect this is due to brecciation along dyke contacts, not fault Brxx. (73.3 75.0) Altered Med. Med. to Foliation Qtz 50-100 Med. grey-green altered, foliated andesitic tuff; Andesite Tuff Chlorite Green Lapilli abundant discontinuous and distorted atz and Calcite Grey calcite stringers lapiili or brx clasts plus elongated med. grain feld and mafic crystals - occassionally weakly magnetic. Light lapilli Breccia Otz 50-100 Foliation Fault breccia; matrix supported; 2 cm and smaller light (75.0 82.0) Fault 40-500 Breccia Foliation Calcite green to med. grey green angular clasts aligned in a orange. Alt ~ Chlorite foliated light orangish brown to green matrix; brown_to Sericite green

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EXFLORATION DRILL SELCO LOG HOLE NO. KL-11 WESTERN CANADA STRUCTURE REMARKS INTERVAL DESCRIPTION (FRACTURES, FAULTS, FOLDING, BEDDING, ETC) ROCK TYPE MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE TEXTURE ALTERATION MINERALS PER METRE COLOUR FROM τо foliation is distorted and contorted but most commonly is 40 to 50° to C.A.; 1 regular qtz and lesser calcite stringers, both distorted by foliation and some later cross-cutting foliation: - some Ø-B weathering qtz-carb stringers; - clasts and matrix highly altered to strong____ gtz. chlorite and some sericite and calcite alt : all_original_textures_are_lost. - first 50 cm of unit are darker brown and very decomposed. ⇒only a few cm preserved which have angular clasts (not decomposed) in a soft, brown matrix..... v. fine foliation sericite >1000 foliafoliated; sheared, largely decomposed rock probably Alt. and esite light (82.0 83.0).. originally andesite; too fine grained, sheared and shearing clay tion hrownish grey calcite altered to see any original texture; minor calcite.

DRILL HOLE NO. KL-11

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\$s	ELCO	EXPLORATION WESTERN CANAC				DR			LO	G	HOLE NO. KL-11
INTE	RVAL		{			RIPTIO				STAUCTURE	REMARXS
FROM	то	воск туре	RUGIOS	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATION
83.0	96.6	Andesitic Tuff	Med. to	V. fine	veining	Calcite	2 	25-50_		Andesitic tuff; ash to Xtl la	pilli; med. dark grey green;
			dark	to	alt ⊥	Chlorit	¢		ļ	mod. calcite alt≃ and veining	; minor qtz alt≃and
			grey-	lapilli		QL2				veining; highly chloritic.	
			green			 	[{		Weak foliation at first (40°	to C.A.) but loose this
							 	ļ	[later on;	
	<u> </u>					 		<u> </u>		- trace disseminated pyrite	
									} <u>.</u>	- non-magnetic	
(83.0	88.7)	Andesitic	Dark	V. fine		··			Layering	occassionally can see layerin	<u>g, at</u>
		Ash Tuff	Grey-						40 ⁰ -50 ⁰	87.6) 40° to C.A.⇒ looks lik	e thin
			Green				L		ļ	laminae	
	<u> </u>							ļ		88.7) at 55° to C.A.> change	toabit lighter.
										coarser tuff	
(88.7	96.6)	Andesitic		<u>Lapilli </u>	<u> </u>	 		<u> </u>		Andesitic crystal-lithic tuff	
		XTL-Lithic_Tuff_	Grey Green							fragments up to 2 cm of fine med. to dark grey-green; but :	
			SA 0 011							a fine grain matrix; (not hig	hly visible) plus 5 to 10%
		l · · · · · · · · · · · · · · · · · · ·					i	-		chloritized, broken mafic cry	stals usually 2 mm and
										less and occassionally up to	20% plag. crystals > appears
	1	•					1			to be mostly fine grain to la	pilli lithic fragments and
										only minor crystal frags.	
	<u> </u>	·									
	1							1	i i	<u> </u>	

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ORILL HOLE NO. KL-11

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\$si	ELCO	EXPLORATION WESTERN CANA				DR			LO	G	HOLE NO. KL-11
INTER	VAL					RIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	PER METRE	L to C./	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
									Dyke	90.3m) A 31 m feld ppy dyke	(sill 7) cuts core at
	1				1				450	45° to C.A.	
	· · · · ·				1	1				- it has 30% rounded to subeu	hedral 1 to 2 mm feld
					1	1		1	1	crystals in a fine grain me	
										possibility it could be a f	
			1		<u> </u>	 					
			<u> </u>		<u> </u>				Qtz	- 94.1 m) 1 cm barren white	gtz vein cuts core at 30 ⁰
			_				ļ		vein 30 [°]		
			_			<u> </u>	<u> </u>				
						<u> </u>					• • • ma
			-			·		· · ·		96.6 m End of Hole	
							<u> </u>				··
						{	<u>}</u>				
					·	}					
									· · · · ·	· · · · · ·	
			-		·{	<u> </u>					
				-		1		1			
						[· · · · · · · · · · · · · · · · · · ·	1			
						1		1			· · · · · · · · · · · · · · · · · · ·
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								<u> </u>	<u> </u>	·	
							l	l			

		WESTER	RN CANADA			DR		OG		S	ample	data	
	S A I	4 P L E			CORE	RECOVERY	VISUAL ESTIMATES	1	GE	OCHEM	RESULTS		
NUMBER	FROM	то	TOTAL METRES	Sp Gr	7.	SAMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)			
871183	10.3	15.4	5.1	Box #1	100	Nil	"-composite sample of	5	86	0.1			
871184	15.4	19.6	4.2	#2	100	14	4 of box. Sample	10	182	0.3			1
071185	19.6	24.3	4.7	#3	100		taken in six inch	5	299	0.2			1
871186	24.3	29.3	5.0	#4	100	10	swaths one foot	5	226	0.1			1
871187	29.3	34.3	5.0	# 5	100	1+	from each end of	5	96	0.2			1
871188	34.3	39.0	4.7	#6	100	Je .	four foot boxes.	5	456	0.3			
871189	39.0	42.8	3.8	#7	100	a		5	639	0.3]
971190	42.8	47.4	4.6	#3	100	u u		5	298	0.3			
971191	47.4	52.0	4.6	∦9	100	"		5	43	0.2			
971192	52.0	56.6	4.6	#10	100	11		5	52	0.1			
371193	56.6	61.9	5.3	#11	100	0		5	35	0.1			
371194	61.9	64.5	2.6	#12	100			5	11	0.1			
371195	64.5	70.6	6.1	#13	90	10		5	11	0.1			
371196	70.6	74.6	4.0	#14	100	Nil		5	32	0,1			
371197	74.6	61.7	7.1	#15	85	15		5	57	0.1			
871198	81.7	87.0	5.3	#16	100	Nil		5	58	0.1			
871199	87.0	92.6	5.6	#17	100	15		5	78	0.1			
971200	92.6	96.6	4.0	#18	100	ų.		5	74	0.1			
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SELCO			EXPLORATION WESTERN CANADA			DRI	G	HOLE NO. KL-12					
RILLING CO.		LOCATION SKET	LOCATION SKETCH			TESTS	AZIMUT	DATE	DATE STARTED: Aug. 28, 1974		PROJECT - KL1		
			-	- COLLA		-50	2250	DATE	COMPLETER	D' Aug. 30, 1974	N. T. S. 1		
								COLL	AR ELEV.:	1720 m	LOCATIO		
		1						NONT		12 + 00S			
						•		EAST		42 + 001			
								AZIM		225			
								DEPT		100.6_m	DATE L	Sept. 19, 1984	
DLE TYPE								CORE SIZE B. Q.			LOGGEO	Hans Smit	
INTE	RVAL	- яосх түре			DESCR	IPTION				STAUCTURE		REMARKS	
FROM	то		COLOUR	GRAIN SIZE	TEXTURE	ALT ERATION	ORE MINERALS	FRACTURES	E. to	(FRACTURES, FAULTS, FOLDING, 81	EDDING,	MINERALIZATION, TYPE, AGE RELATIONS	
	ļ 		_						·	Note: Core stored in	plastic	<u>boxes; moderately well</u>	
	<u> </u>									preserved			
	<u> </u>				{							· · · ·	
						·							
	<u> </u>]	· ·							
	1				{								
]				[l			· · · · · · ·	
0	7.3	Overburden			[
		Altered			 								
7.3	48.0	Andesite to	Light	V. fine	sheared	Qtz	СРҮ	100-500		Altered andesite to d	acitic (tuff; mostly ash but	
		Dacitic	Grey	to fine	mottled_	Calcite				sometimes fine XTL; 1	ight gre	ey in color; mafic poor;	
	ļ	Tuff			altered	Chlorite				highly altered; moder	ately s	heared.	
			-			Sericite				- most of the rock is aphanitic and completely altere		tic and completely altered	
			_			Kaolinite	· · ·			(to pale chlorite,	(to pale chlorite, sericite and gtz w minor calcite)		
										Some of it look alm	ost trai	nslucent under hand lens;	
								<u> </u>		due to the lack of	mafics t	th <u>is rock looks quite</u>	
	ì									dacitic however, so	metimes	can	

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DRILL HOLE NO. KL-12

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\$s	ELCO	EXPLORATION WESTERN CANAD				DR			LO	G	HOLE NO. KL-12
INTER	VAŁ				DESC	REPTION	ŧ	-		STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	PER METRE	L to C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
			1		}					make out 1 mm, occassionally	up to 2 mm, feldspar
							ł			XTLS which sometimes make up 1	most of the rock so possibly
							}			this represents a highly alte	red andesite. It is
										similar to the altered andesi	te mapped north of camp
				ļ			ł			in fact.	
										- the rock has mod, occassion	ally strong, patchy
					}					dtz and qtz -sericite alt \simeq ,	and minor qtz stringers.
										- weak calcite alt and minor	calcite along fractures.
										- mod. to strong pale chlorit	e
			1		[= = = ========		1			1	

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	6	}							XTLS which sometimes make up most of the rock so possibly
						}			this represents a highly altered andesite. It is
						Į			similar to the altered andesite mapped north of camp
			ļ			ł			in fact.
-							l	}	- the rock has mod. occassionally strong, patchy
		-		}					<u>qtz and qtz-sericite alt≃, and minor qtz stringers.</u>
									- weak calcite alt ≃and minor calcite along fractures
								1	- mod, to strong pale chlorite
						,	[- pyrite 3 to occassionally 5% diss. throughout;
									trace of diss. cpy
									- non magnetic
						[- rock is variably sheared, about 1/2 being quite
								Shear	sheared and the other (more qtz_altered)_less_so
	 • · • • • • • • • • • • • • • • • • • •							20-300	Shear direct≃is 20 to 35° to C.A.
	 -				•		Í		- some of the pyrite is sheared along surfaces; but
						}	-		some is curic & possibly pyrite same time as shear
									or 2 times as shear and/or pyrite.
									- some of the fractures have a dusting of white "soapy"
		[
	· · · · · · · · · · · · · · · · · · ·	ļ						<u> </u>	
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		l							· · · · · · · · · · · · · · · · · · ·
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SELCO	EXPLORATION WESTERN CANAD	EXPLORATION DRILL WESTERN CANADA DRILL					LD	G	HOLE NO. KL-12	
INTERVAL		DESCRIPTION						STRUCTURE		REMARKS
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
	Size matchais (complete tro)		e)7 seem to be 							
			 				· · · · · · · · · · · · · · · · · · ·		6.0 to 6.6 m) high kaolinit core.	e content; very crumbly
									17.0} Rock getting abit gre predominately grey Less argillic alt.	
								<u>Shear</u> 30 ⁰ to 40 ⁰	Amt of shearing also decreas sheared (mostly weakly) She C.A.; more blocky core =>al	ar is at 30 to 40° to
								NStrin ger 45 ⁰	18.4) 3 mm pyrite string Rock 20 cm below i 9-10% diss, pyrite	er at 45 ⁰ to C.A. s.highly pyritic w
							 	45 ⁰	9-10% diss. pyrite 19.1) another pyrite_string	

SELCO		EXPLORATION WESTERN CANAL				G	HOLE NO. KL-12					
INTER	YAL					RIPTION		· · · · · · · · · · · · · · · · · · ·	STRUCTURE	REMARXS		
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS	
			 	ļ						21,6 m) A few minor darker	r green up to 8 mm	
	[lapilli		
				}						22.3 m) small vug w coarse (rystalline_pyrite_and	
									 	qtz growing into it.		
										24.3) <u>3 cm qtz_vein_at_15</u> qtz, chloritic_selve some molyb denite top_contact_of_a	iges; vein contains	
(24.4	25.0)	Andesite	Med.	Fine	Massive_	Chlorite		10-25		fine grain andesite dyke, med. grey-green; I - 2 mm		
• ••		Dyke	Grey	· · · · · · · · · · · · · · · · · · ·	- <u></u> -					feldspar w intergrown mafics;		
		· · · ·	Green	.		· · · · ·	_ .			approx. 25%, anhedral pyrite	2% diss.; minor calcite	
			<u> </u>			<u> </u>				on fractures		
				. <u>.</u>						(27.5 to 28.3) Rock is compo feld XTLS i	to 2 mm, rounded to	
										·	trix is grey, silicic	
) · · · · · · · · · · · · · · · · · · ·	ike rest of rock.	
		· · · · · · · · · · · · · · · · · · ·		·								

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\$s	ELCO	EXPLORATION WESTERN CANAD	۸			DR			LD	G	ноге ноKL-12	
INTERVAL		}	DESCRIPTION							STRUCTURE	REMARXS	
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	[(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
(32.0	35.4)	Andesite	Med.	fine	ррү	Qtz		50-100	}	Andesite dyke; med. green-gre	y w 2 to 6mm pale green	
		Dyke	green		Alt ≃	Epidote				blebs (partly epidote); some	of these are fairly	
		(Mecalrysitic	grey			Chlorite				rectangular and suspect that	they represent highly	
		feld?)		<u></u>		Calcite	.			altered feldspar phenocrysts	of a feld-megacrystic	
			<u> </u>		ļ	<u> </u>	<u></u>			PPY.; they comprise approx. 1	5% of rock.	
					<u> </u>	<u> </u>				- matrix is very fine grain, med. grey-green to w		
										to mod. intensity of qtz st	ringers and weak calcite	
	· · · · ·							 		alt_; 2% diss. pyrite; ma	fic component chloritized.	
(35.6	35,86)	Andesitic to	Dark	Fine	PPY	Chlorite		100-500	Dyke	Andesitic to basaltic dyke, f	ine grain, dark green w	
		Balsaltic	Green		Alt≆	Qtz			Contacts	s minor (5%) 1/mm light green epmotized feldspar		
		Dyke				Calcite			20 ⁰	phenocrysts; highly chloritiz	ed, minor calcite alt ~;	
						Epidote			Shear	moderately sheared at 20 to 3	0° to C.A.; mod. intensity	
									20-300	of discontinuous qtz stringer	s parallel shear.	
										- bottom contact at 20° to C.	A. 5 yr. qtz vein at	
										contact.		
										······		
										(35,86 to 36,1) Main unit bu	t minor light brown	
										weathering 7	contact effect.	
											······	
										· · ·	,	

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\$s∍	ELCO	EXPLORATIO WESTERN CANA				DRI	LL	LOG		HOLE NO. KL-12		
INTERVAL			DESCRIPTION						STRUCTURE	REMARXS		
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION M	ORE FRACTURE	5 (F) E E	RACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION		
{36.1	37.7)	andesitic	dark	fine	PPY	Chlorite	100-50	0 5	Same rock as in the interva	1 (35.6 to 35.86) but		
		to basaltic	green		A1t≃	Qtz			less sheared and less qtz stringers			
	_					Calcite						
					<u> </u>	Epidote		4				
			<u> </u>									
	£								(37,7 to 39,2) Rock (main	unit) has almost a "speckled"		
	ļ			<u> </u>					look because of high amnt.o	of remnant feld XTLS in grey		
			_ _	 	[.				matrix w darker pyrite spec	w darker pyrite specks. Pyrite quite high,		
								{	(S to occassionally 10%), weakly, but pervasively			
									sheared; rock quite grey again. Med. grain for this			
								(1				
	{											
	<u> </u>		_			[500		(39.2m) Rock becomes finer	grain again to only minor		
	Í								definite crystals left; she	aring increases to mod		
			1					· · ·	intensity (occassionally st			
	i 							1 1	•	mewhat_sheared_along_shears;		
								1 1		ite) increased again >> weak		
								{ {		y very minor calcite; still		
								1 1	strong qtz-sericite and chl			
			ç									
									· · · · · · · · ·			
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DRILL HOLE NO. ___KL-12

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a 😍	ELCO	EXPLORATION WESTERN CANA				DRILL	-	LO	G	HOLE NO. KL-12
INTER	VAL					RIPTION	· · ·		STRUCTURE	REMARKS
FROM	ro	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION MINERA	FRACTURES	LtoC.A.	(FRACTURES, FALLTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATION
	 				· ·				The core becomes quite brok	en_and_flakey
43.8	44,45)	Andesitic to	Dark	v. fine	Alt ≃	Chlorite	100-500		Very fine grain andesite to b	asalt_dyke; dark green;
		Basaltic Dyke	Green	ļ	Shearing	Calcite		ļ	highly chloritized; mod. calc	ite alt~and discontinuous
			ļ		Veining	ļļ		Shear	stringers; v. minor hematite	staining on a few
			-	<u> </u>		{		20-30°	fractures. Shear is at 20 to	
			• 	 					Hain_unit_again_after; a bi before; in very_small, shea	
8.0.56	_56_7	Andesite Tuff	Med.	V. Fine	<u>Shearing</u> Alt <i>≃</i>	Chlorite Quartz	100-500		<u>Fine grain andesite tuff; med</u>	
			Green			Edidote			occassional patches of 1mm an (pale green) feldspar Xtls, h	
	:								and altered to see original t	
			· · · · · · · · · · · · · · · · · · ·					Shear	- Highly chloritized; mod. qt	
			·}					20-30 ⁰	light grey quartz stringers	
									epidote_alt~and_stringers	
									- Rock weakly to occassionall mostly at 20 to 30° to C.A.	
			<u> </u>				<u>-</u>			
<u> </u>										

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EXPLORATION SELCO DRILL LDG HOLE NO. KL-12 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARXS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, FTC): MINERALIZATION, TYPE, AGE RELATIONS GRAIN TEXTURE ALTERATION MINERALS PERMETRE COLOUR FROM τo - Pyrite 2 - 3% diss in rock; also sheared where rest of rock is. Note: This was probably originally the same rock as the former and idac, tuff unit but less altered and mafics not leached. (52.3 53.0) Aug. Ppy Dark Fine Ppy Chlorite 10-25 Aug. Ppy. dyke, andesitic to basaltic, fine grain, Dyke Green Calcite dark green; 30% 1 mm and less chloritized augite Epidote in a very fine grain green matrix; minor calcite stringers; weak epidote alt ≈; no pyrite. (55.8 to 56.7) greyer tuff, sheared, dacitic unit ? small interval of dac. to and tuff unit found. in most of earlier core. \$6.7 71.0 Andesitic Greenish Med. Shearing Chlorite 100-500 Andesitic feldspar crystal tuff; light to med, XTL Tuff Grey Ppy Qtz greenish grey; med. grain: 40 to 60% rounded to Sericite occassionally_euthedral_feld_XTLS_up_to_3_mm_in_fine Epitode grain matrix; rock_sometimes_looks_ . •

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DRILL HOLE NO. ____KL-12

EXPLORATION DRILL LDG SELCO HOLE NO. KL-12 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS TEXTURE ALTERATION MINERALS PERMETAE GRAIN SIZE COLOUR FROM τо Flowlike (feld-ppy) but broken nature of many____ XTLS_indicates_tuff____ <u>- strong_chlorite_alt ~ (pale_grey-green_chlorite)_</u> - mod. qtz_alt ~: feld component seritized, minor ... qtz veins and stringers - v. minor epidote alt ≈ and stringers - pyrite 1 to 2% Diss. - weakly sheared; strong chlorite on shears (sometimes thin chlorite films) 58.4 m) variable width (5 mm to 2 cm) white gtz vein. with a 4 cm long pyrite bleb cuts core at low L's to. C.A.__ 63 m) Minor hematite on fracture surfaces starting _at 63 m rock becoming more sheared; XTLS often obscured Shear_ 40710⁰ by later alt ~, main shear at 40° (+ 10) to C.A. Gypsum 63.9 m) I mm thick gypsum film on a fracture at 5 to 10° to C.A. - runs thru core for 35 cm; also Stringer 5⁰to10⁰ highly chloritic along fracture. .

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Şs:	ELCO	EXPLORATIO WESTERN CANA				DR		i		3	HOLE NO. KL-12		
INTER	YAL					8191101				STRUCTURE	REMARKS		
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS		
_				<u>[</u>	<u> </u>	ļ				- very minor gypsum fracture	filling below this		
					} 			<u> </u>		- pyrite now∠1%.	<u></u>		
••	 			<u> </u>						(65.5 to 68) mod. to strong			
		· · · · · · · · · · · · · · · · · · ·						<u> · · · · </u>		core still fairly coherent	ly sheared, but		
-										,,,,,,,			
1.0		Andesitic	Group	V Pine		(h.)							
1.0		Tuff	Grey-	1	Altered,			100-500		Andesite tuff; variable and a			
	}	· · · · · · · · · · · · · · · · · · ·	Green	to	Blotchy		·		1	grey green to light greenish			
·		Ash to XTL	- <u> </u>	rarely	Sheared					tuff with some fine XTL (fel	d) tuff and rare med.		
				med.		<u>Sericite</u>	 · · · ···			grain feld XTL tuff			
	<u> </u>		_	ļ		Epidote				- variable original rock com	<u>pined with variable alt≃</u>		
	ļ			_		Gypsum		ļ		and shearing has resulted	in a very inhomogeneous,		
		· · · · · · · · · · · · · · · · · · ·								mottled to blotchy texture			
										<u>- strong_chlorite_alt≃; darl</u>	green and mostly pale		
			_[grey-green chlorite occur;	esp. along shears		
		}								<u>- occassional mod. qtz alt~</u>			
			_								· · · · · · · · · · · · · · · · · · ·		
										- minor calcite along shears			
				ļ						- minor epidote alt≚and v. r	ninor stringers		
) 	_	ļ						- mod, gypsum in stringers ar	id_shears		
· · ·			-							- minor hematite staining o	on fractures.		
									[-	•			

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\$s	ELCO	EXPLORATION WESTERN CANA				DR			LD	G	HOLE NO. KL-12
1978	RVAL					AIPTION				STRUCTURE	REMARKS
FROM	07	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	LtoC.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
									Shear 30to40 ⁰	- rock weakly to moderately; mostly 30 to 40° to C.A.	pervasively sheared;
-										- pyrite <18, diss. in rock sheared as well.	and along shears, it is
										 core has remained fairly c ⇒ perhaps gypsum and chlo 	
									[together.	<u>1100_10104.04</u>
			-						Contact	- feldspars sericitized & some	
			-						40 ⁰	72.5 m) contact between 2 1 (parallel shear)	ayers. at .40° to C.A.
									<u>Calcite</u> Vein-35 ⁰	75.3 m) 2 to 6 mm calcite y cuts core at 35° to C.A.	ein to minor gypsum
			-						· · · · · · · · · · · ·	75.5 to 75.8 m)_pyritic zon trated along_shear_direct∝	
8 <u>5.5</u>	87.7)					<u>Kaolinit</u>	2			[85.5_to_87.7] some light_y along shears; some clay_alt_	—
		·····								88.4 m) rock becomes_greene	
										end of core; mod. intensity (stringers (pale green)	of epid. alt \simeq and
			-								· · · · · · · · · · · · · · · · · · ·
										•	

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Şsi	ELCO	EXPLORATE WESTERN CAN	-			DR	ILL		LO	G	HOLE NO. KL-12
INTER	VAL					C R 1 P T 1 O P		••••		STRUCTURE	AEMARKS
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	LtoC.A.	(FRACTURES, FAULTS, FOLDING, BEDOING,	MINERALIZATION, TYPE, AGE RELATION
		· · · · · · · · · · · · · · · · · · ·		<u> </u>			4		Contact	- starts at a definite conta	ct which is a 40°
							· ·		40 ⁰	to C.A., still ash to fine	
]		_		 	<u> </u>	<u> </u>	<u> . </u>		- hematite more prevalent, b	<u>st still_minor</u>
					<u> </u>					88.7 m) 4 to 6 mm gypsum ve	in w hematite staining
										at 5 to 10° to C.A. for 30 c	
										89.5 m) rock becoming more	callaceous overall.
									-	Weak to mod. calcite alt and	
										mostly discontinuous and par-	
						[}			~40°).	
					[- <u>-</u>		· · ·				
						-				(94.1 to 95.0) strong inten:	ity of yellowish-brown
										qtz - carb stringers, highly	distorted and discontinuous
						<u> </u>				parallel to shear; shear is a	
										interval; plus minor microfau	elts.
			-				\$				<u> </u>
			_							(95,2 to 95.8) mod. hematite	staining gives rock
								<u></u>		a reddish hue.	······································
		······································									
				-							· · · · · · · · · · · · · · · · · · ·
									 ·		<u> </u>

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DRILL HOLE NO. KL-12

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				<u></u>	· · ·			· · ·			
\$s	ELCO	EXPLORATION WESTERN CANAD	4			DR	ILL		LO	G	HOLE NO. KL-12
INTER	VAL	ROCK TYPE	<u> </u>			RIPTION				STRUCTURE	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	10	AUCK 11FE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	MINERALS	PER METRE	LLOG.A.	ETC)	l
• • _ =				[<u> </u>	<u> </u>	[Contact		
			ļ	[<u></u>		[30°	XTL tuff; contacts at ~30° to	<u>C.A,</u>
									Qtz_vein 30 ⁰	96.8) 5 to 10 mm white barres to C.A. Gets cut nearly perp	
										a gypsum stringer.	•
								[<u>-</u>	- below get 20 cm of quite br	oken_rock_with_gypsum
					. 	<u> </u>		<u> </u>		in all the fractures, recem-	
]		together; calcite minor aga	in
	L <u></u>									<u></u>	
					<u> </u>				Qtz vein	99,3 m) another white barren	qtz yein; 6 to 8 mm
							Ì		40°	wide at 40° to C.A. 4 cm of	weakly magnetic rock
·					 		 	==		below ≥only magnetic rock in	
		<u> </u>	} 		·		<u> </u>			- 2 to 3% diss. pyrite for 30	
			<u> </u>		. <u> </u>				<u>} </u>		for 1st 4 cm.
	<u> </u>		{			 				- overall pyrite-1%.	
			<u> </u>	┨────────────────────────	<u> </u>	{				}	
			<u> </u>							100.6 m End of Hole	
							ļ	<u> </u>	[1 · · · · · · · · · · · · · · · · · · ·	
		 				ļ	}	ļ	ļ	\ <mark></mark>	
	 		<u> </u>		<u> </u>			 			
							· · · · -	} ———			
!_ _		<u>}</u>	<u>}</u>		1	1	1			· · · · · · · · · · · · · · · · · · ·	

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\$se	LCO		OR ATION RN CANADA			DA		DG		5	ample	e d	ata	
	S A	MPLE			CORE	RECOVERY	VISUAL ESTIMATES		G	EOCHEM	RESULT	s		
NUMBER	FROM	то	TOTAL	Sp Gr	%.	AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	(Ag (ppm)				T
871238	7.3	11.9	4.6	Box #1	100	Nil		20	117	0.1				
871239	11.9	16.2	4,3	#2	100	41		5	63	0.1				1
871240	16.2	20.9	4.7	#3	100	÷,		30	73	0.1				
871241	20.9	25.5	4.6	#4	100	÷1		25	94	0.2				1
871242	25,5	30.6	5.1	#5	100			35	112	0.1				
871243	30.6	35.5	4.9	#6	100	"		20	111	0,2				
871244	35.5	38.7	3.2	#7	100	14	1	10	75	0.1				
871245	38.7	42.4	3.7	#8	100		1	25	88	0.1				
871246	42.4	47.6	5.2	61	100	*1	1	20	97	0.1				1
871247	47.6	51.3	3.7	#10	100	11		50	719	0.3	- 1			
871248	51.3	55.8	4.5	#11	100			30	467	0.1				
871249	55.8	59.2	3.4	#12	100	"	· · · ···	20	231	0.1				
871250	59.2	63.4	4.2	#13	100	"		5	134	0.1				
871251	63.4	68.6	5.2	#14	100	} "		30	110	0.1				
871252	68,6	73.3	4.7	#15	100			20	107	0.1				
871253	73.3	79.0	5.7	#16	100	u		40	309	0.2				
871254	79.0	84.4	5.4	#17	100	U.		25	227	0.1				
871255	84.4	89.0	4.6	#18	100			50	784	0.4				
871256	89.0	95.5	6.5	#19	100	14		25	197	0.2				
871257	95.5	100.6	5.1	#20	100			40	257	0.3				
							END OF HOLE							1
						Note:- Each	sample represents 1 box,							[
						15 cm	taken 30 cm from each ea	nd of			}			·
				{		120 ci	(4') box across box.							
										•				
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\$s	ELCC		PLORATION ERN CANADA				DR			LO	G		HOLE NO XL-13
RILLING CO	D	LOCATI	ON SKETCH	Т	0E P T	н о	TESTS NP ANGLE	AZIMUT	н	ATE STARTED	λugust 18, 1984	PROJEC	t, KLl
					COLLA	····	- 45°	0000	0	ATE COMPLETED:		N. T. S. :	94D/8
				[C	DLLAR ELEV.	1748.03	LOCATIO	KL1-6 Claim
									N	DATHING	4+00S		
										ISTING:	10+75W		
										ZIMUTH:	0000		
									{	РТН	68.6 m	DATE LO	September 10, 1984
ÖLE TYPE		I						<u> </u>	[co	RE SIZE:	в.Q.	LOGGED	Ar Hans Smit
INTE	RVAL	- ROCK T	Y B C			DESCR	IPTION				STRUCIURE		REMARKS
F 80 M	τo		COLOUR	_ _ '	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTUR PER MET	RE	(FRACTURES, FAUL TS, FOLDING, B	EDDING,	MINERALIZATION, TYPE, AGE RELATIONS
						Į					Note: Core has been p	previousl	y split and sampled.
			1]			{				
0	6.4	Overburd	en										
	ł]									
6.4	21.8	Andesite F	eld Med.	1	Pine	Рру	Qtz		50-10)	Fine grain andesite fo	eld ppy;	medium grey-green; 2 mm and
		Рру	Grey~			Veining	Chlorite		[less pale green felds	par make	up 40 to 60% of rock; in a
			Green			Alt.	Epidote		}		v. fine grain grey-gre	een matri	x; mod. to strong silicic
						Mottled			}		alt. results in a mott	tled text	ure; mafics chloritized;
				1							feldspars partly serit	ticized;	minor qtz stringers (<1 mm
											wide); minor to modera	ate epido	te stringers and epidote alt.
•••		1			••						rock is weakly to occa	sionally	moderately magnetic due to
· · ·	[-									disseminated magnetite	e; minor	diss. pyrite; trace diss.
•	1	1									сру.	· ·	
		1		1			[
•											(6.4 - 12.9 m) Fe sta	aining an	d minor malachite staining
			· · ·								- oxidized zone.		
		1					<u> </u>				(6.4 - 6.9 m) Rock	very whi	te - bleached due to gtz
			— — — [¦∤		ļ — —		alt. and weathering.		

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Ş:	ELCO	EXPLORATEX WESTERN CANA				DRI	LL	L	DG	HOLE NO XL-13		
INTE	RVAL					NIPTION			STRUCTURE	REMARKS		
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEODING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS		
									19 m) Core becoming more bro	ken; ppy texture becoming		
					}			}	less distinct.			
21.8	39.0	Andesite	Dark	V. fine	Blotchy,	Qtz	Сру	50-100	Andesitic tuff; v. fine to fi	ne grain; dark grey-green;		
		Tuff	Grey-	to	Veining,	Chlorite			strong qtz alt. and a bit qtz	and 'qtz alt.' stringers		
			Green	fine	Alt.	Epidote			and veins; resulting in blotc	hy texture; minor to moderate		
						Magnetite			epidote veins; rock strongly	magnetic; pyrite 1%; diss.		
					<u>.</u> .				cpy and in stringers.			
					[Note:- same magnetic andesite tuff as seen in other holes.			
				· ·				<u> </u>	- very minor calcite veins			
									- cpy 1%.	• • •		
									28 m) Rock becomes somewhat	lighter overall; same only		
				ļ					moderately magnetic interva	ls; pyrtie increased to 2%		
				<u> </u>					to 3% of rock.			
									30.25 m) 4 cm core piece of a	greyish qtz with 30% diss.		
			·						pyrite and 0.5% diss. cpy.			
		·····			· · ·				32.8 m) Rest of core in hole	is in plastic trays. Do not		
									preserve core as well - some	core obviously moved betwee		
	[<u> </u>		<u> </u>						rows and many of the wooden	interval tags are misplaced		
			· · · · · · · · · · · · · · · · · · ·						or missing.			
									33.0 m) Cpy drops considerabl	ly after this point -~ 0.2%;		
									amount of qtz stringers and	alt. veins also decreasing;		

PAGE _____ OF ____

DRILL HOLE NO. KL-13

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	• •							•	· · · ·	112.
\$s	ELCO	EXPLORATION WESTERN CANAD			<u> </u>	DR	ILL		LOG HOLE NOKL-	13
INTES	VAL	ļ	<u> </u>			RIPTION			STRUCTURE REMARK	s
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	MINERALS	FRACTURES PER METRE	FRACTURES, FAULTS, FOLDING, BEDOING, MINERALIZATION, TYPE, A	GE RELATIONS
								-	still moderate amounts of epidote stringers.	Total
	-								magnetite also decreasing - mostly moderate in	stead of
									mostly strongly magnetic; core pieces becoming	smaller.
	1				{		{		38 m) Epidote minor now.	
		-	1		}	3	1			
39.0	45.1	Altered Andesite	Light	V. fine	Alt.	Qtz	1		Andesite tuff; v. fine to fine grain; light grey	-green to
	}	Tuff	Grey-Gree	n to fin	Veining	Sericite			brownish grey in colour; mostly too altered to m	ake out
			to Browni	sh-	Foliation	Calcite			any original texture but sometimes can make out	xtl shapes
		· · · ·	Grey			Chlorite		<u> </u>	(i.e. at 40.5 m can make out 1 to 2 mm chloritiz	ed, aligned
•									mafic crystals that make up 30% of rock for 20 c	m)
	-								~ moderate to strong qtz and qtz-sericite alt.	; weak to
]						occasionally strong calcite alt.; minor qtz-carb	veins with
]						Ø-B alt.	
									- weak foliation; very broken nature of core m	akes it
									hard to measure but it seems to be at moderate t	o hìgh
		ļ ¹ .							angles to C.A.	
									- pyrite is 1 to 5%; increasing with qtz-seric	ite alt.;
							}		occasionally magnetic	
									- still minor (<0.2% cpy diss. in rock	
									- alt. (qtz~sericite and light brown colour) t	o a fault
									zone at 43.5 m 4 cm of fault gouge; below alt. i	s less
									again - believe that this unit, which looks daci	tic from
									\sim 42 to 43.5 m, was originally an andesite which	has been
									altered by qtz-sericite alt, and probably leachi	ng in
	[fault zone - weak foliation not seen elsewhere s	upports
	1	1			ł			1	idea.	

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Ş,	ELCO	EXPLORATION WESTERN CANAD				DR	1 L L		LOG HOLE NO,, KL-13
INTE	AVAL		}		0 2 5 (RIPTION	4		STRUCTURE REMARKS
FROM	то	AOCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATION
45.1	53.64	Andesite					}		Andesite tuff - very poor core recovery; in this interval
		Tuff			Į		ļ		(254); no core was recovered from 52.12 to 53.64 m.
				1]	}		- from 45.1 to 62.48 m was not sampled - probably due
									to the poor core recovery
									- 45.1 to 53.64 m interval - andesitic tuff; fine grain;
								1 1	core with rounded chunks; medium grey~green; qtz alt.;
									minor epidote stringers and alt.; occasionally magnetic;
							}		minor cpy in magnetic zones; - possible that some of fine
					l				grain is a dyke not a tuff but too fine grained and too
				<u> </u>					small pieces to say for sure.
53.64	68.6	Andesite Feld	Medium	Fine to	Рру	Qtz		500-1000	Andesite Feld ppy; fine to occasionally medium grain; medi
		Рру	to Light	occas.	Alt.	Chlorite			to light grey-green; ppy texture often obscured by later
		· · · · ·	Grey-Gree	n med.		Sericite		1	alt. but rock is 40 to 60% feld with up to 5% mafic
		· · · · - ·]					phenocrysts in a finer matrix.
								1	- Rock is highly broken into flakes and looks to be
				·					similar to the first andesite ppy unit of KL-19.
]						- Qtz and lesser qtz-sericite alt.; mafics chloritized;
		• • •							minor calcareous spots; occasionally magnetic spots;
					1				pyrite 2 to 3%; minor epidote specks for the first 2 m's,
_									then no more epidote.
						}			- Traces of diss. cpy.
(58.75	61.5)		Pale Grey	- Fine	Alt.	Qtz	• • •	500-1000	Lighter colour due to argillic alt. in this zone; rock has
			Green			Kaolinite	· .		clay coatings; guite soft and friable; minor calcite alt.;
						Calcite			contacts with darker rock on each side are gradational

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DRILL HOLE NO. KL-13

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S ₂	ELCO	EXPLORATION WESTERN CANAD	٨			DR	ILL		LO	G	HOLE NO. KL-13	
INTER	VAL]		DESC	RIPTION	4			STRUCTURE	REMARKS	
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		FRACTURES, FAILTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION	
										over 10-20 cm.	· · · · · · · · · · · · · · · · · · ·	
							Į					
]		ļ 				6.15 m Back to qtz-sericite	alt.,	
				 				<u> </u>			<u></u>	
					[[]	. <u>.</u>	63 m Get v. minor epidote ag	······································	
						ļ				still only minor amounts; a	• • •	
										limited to occasional magnet	tic zones - appear to be	
			<u>.</u>							going back to lower temperature alt.		
							<u> </u>			- rock in very small, mostly angular bits now		
[<u> </u>	ļ			- appears to be fine grain ppy to the end of the hole.		
					ļ		ļ					
							_			68.68 m END OF HOLE		
									······			
				·;								
											· · · · · · · · · · · · · · · · · · ·	
											· · · · · · · · · · · · · · · · · · ·	
										<u>_</u>		
										- <u> </u>		
											······································	

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\$s	ELCO	E XPLOR AT KOR WESTERN CANA				DR	LL		LO	G		HOLE NO XL-14
RILLING CO).	LOCATION SKET	сн	DEPT	н с	TESTS	AZIMUTI	н О	ATE STARTED:	August 21, 1984	PROJEC	TT KLL
			-	- COLL		- 45 ⁰	1800	D	ATE COMPLETED:	August 22, 1984	N. T. S. 1	94008
								Ċ	DLLAR ELEV.	1737 m	LOCATIO	
								N	ORTHING :	8+005		· · · · · · ·
				ļ					STING	5+80E		
							<u> </u>	1_	ZIMUTH:	1800		
				<u> </u>				[- ·	EPTH +	60.0 m	DATE LO	September 22, 1984
OLE TYPE				<u> </u>	<u> </u>		<u> </u>		DRE SIZE	в.Q.	LOGGED	BY Hans Smit
INTE	RVAL	ROCK TYPE	ļ		DESCR	IPTION				STRUCTURE		REMARKS
FROM	τo		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	PER MET.	RE	{FRACTURES, FAULTS, FOLDING, BE	DDING,	MINERALIZATION, TYPE, AGE RELATION
			_ i ĺ.							Note: Hole previously	split a	and sampled to 46.3 m. Core
					Į			<u> </u>		stored in plast	ic boxes	; fairly good preservation.
					<u> </u>		••					
0	6.1	Overburden	-					 				
6.1	33.7	Andesite	Andesite Med.		Рру	Qtz		100-5	00	Medium grain andesite :	feld ppy	; medium greenish grey; 40
		Feld Ppy	Greenish			Calcite				to 60%, up to 4 mm feld	1 xtls;	sub-euhedral, in a fine grai
			Grey			Chlorite	•	1		matrix; compact texture	e sugges	ts magma rock and not a tuff
						Sericite		1		- chlorite alt. of ma	afic com	ponent, feldspars weakly
						·				seritized and now white	e to pal	e green
					Î					- minor qtz alt. and	stringe	ers and minor calcite along
										fractures and a few sti	ringers	
										- occasionally weakly	y magnet	ic
										- pyrite <1%, finely	dissemi	nated
]					- some shear along mo		
		· · · · · ·						-		X		
							• •			(6.1 to 18.0 m) Fe sta	aining o	n fractures; very minor
					1			1		malachite oxidat	tn. zone	•••••••••••••••••••••••••••••••••••••••

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ORILL HOLE NO. <u>KL-14</u>

EXPLC WESTER	ELCO	EXPLORATION WESTERN CANADA		DRIL	_ L	LO	G	HOLE NO XL-14
1	TVAL			CRIPTION			STRUCTURE	REMARKS
- 80CK TY	10	ROCK TYPE COLOUR	GRAIN TEXTURE	ALTERATION MI	ORE FRACTURE	SL with E C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
			Mottled				10 m) Core mostly in very sm	mall bits below here;
							- alt. increases and someti	imes get a mottled texture,
	····		1				obscuring ppy texture	
	<u> </u> [- moderate qtz alt. (varia)	ble)
-[-						~ v. minor epidote after 13	2.5 m
-			- <u> </u>	<u> </u>			- rock often quite crumbly	and has an earthy smell -
							appear to have weak argillic	alt. (also minor white
	<u>}</u>			- <u> </u>			powdery pyrophyllite on some	fractures.
-]	-						- Pyrite now~1% finely dis	5 5.
-	<u> </u> -			1				
Andesite t	18.0)	Andesite to Dark	Fine	Chlorite	Cpy 10-25		Andesite to basalt dyke, find	e grain, dark green;
Basalt Dyk		Basalt Dyke Green		Epidote			- weak calcite and epidote	alt.; mafics chloritized
· · · · · · · · · · · · · · · · · · ·				Calcite			- minor diss pyrite and a	trace of diss. cpy observed.
								······································
						Qtz-Epd	17.9 m) 1 cm gtz-epidote (ba	arren) cuts core at 30 ⁰ to C.J
						vein 30 ⁰	- Note: core is blocky in	dyke interval; return to
							small broken pieces of a	ndesite feld ppy after 18 cm.
						_	<u> </u>	
		ļ					(19 to 20 m) Traces of diss	. cpy observed very fine grain
							<0.5% at 20 m none of the re	ock magnetic anymore.
			<u> </u>	ļ ļ			ļ	
							22 m Core becomes a bit bloc	ckier and less crumbly and
			<u> </u>	<u> </u>			less mottled looking (weak	er alt.)
				<u> </u>				te and calcite alt., chlor-
			<u> </u>			_ _	itization of mafics; and still	
							- still weak gtz and epido	te and calcite 11 weak clay (a

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DRILL HOLE NO. _____ KL-14

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EXPLORATION DRILL LOG SELCO ROLE NO. KL-14 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION ORE FRACTURES (FRACTURES, FAULTS, FOLDING, BEODING, MINERALIZATION, TYPE, AGE RELATIONS GRAIN ŞIZE COLOUR FROM ΤQ - pyrite 0.5 to 1% finely diss. and in rare qtz stringers. - very minor epidote stringers occur as well. 27.3 m) Cpy specks for 15 cm in small bits of pyrite stringer. 28 m) Some increase in calcite; still minor amounts; also a bit more epidote (still minor). 33.7 44.0 Altered Andesite Med. Fine Mottled Qtz Сру 500 Andesite, fine to medium grain, medium green-grey; core Greyto Alt. Chlorite in small bits and rock quite altered so unknown if a flow Sericite or a tuff; some indistinct feld.xtls 1 to 2 mm long Green Med. Kaolinit discernable but mostly rock too mottled to see original texture. - strong light grey-green chlorite alt. - moderate intensity of qtz, sericite and kaolinite (quite earthy smell) results in crumbly core - minor calcite alt.; no epidote, no magnetite - pyrite 2% disseminated; minor disseminated cpy - no stringers visible 38 m) Getting up to 3 mm dark green chlorite patches; not really sharp boundaries but sometimes rectangular; these probably are altered augites and now getting into an aug ppy or aug tuff (still andesitic). Also smaller streakier dark chlorite specks (smaller xtls or xtl pieces);

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SSELC	CO EXALVATION WESTERN CAN				DR		L	DG	HOLE NO. KL-14
INTERVAL				DES	CREPTION	·····		STRUCTURE	REMARKS
ROM	O ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDIN ETC):	G, MINERALIZATION, TYPE, AGE RELATION
				1				5 to 10%, rarely up to 2	0% of rock composed darker
								chlorite;	· · · · · ·
								- other alt. weaker, cor	e a bit blockier but still in
				{				quite small pieces. (we	ak to moderate qtz-sericite,
								- weak kaolinite),	
								- diss. pyrite now 3%, s	till minor diss. cpy
								- can still sometimes ma	ke out feld xtls.
						`			
4.0 50.	4 Andesitic	Hed.	Med.	Рру	Chlorite	Сру	100-200	Andesitic feld-aug ppy; me	dium grain. Alt. has resulted
	Feld - Aug	Grey-		Alt.	Quartz			in a mottled texture with	former augites a dark green in
	Рру	Green		Mottled	Epidote			a grey-green matrix of fel	dspar xtls and v. fine grain xt
					Sericite			highly chloritized augite	up to 3 mm, but mostly 2 mm,
								make up 20% of rock; due t	o alt. their crystal boundaries
								are not distinct but shape	s vary from ~ rectangular to
{				Ì				highly anhedral and interl	ocked with feldspar;
				.				- feldspar xtls are also	fairly indistinct but are 1 to
								2 mm and appear to make up	40 to 50% of the rock, rest is
								fine grain matrix.	
					<u> </u>			- mafics chloritized; fe	ld weakly seritized
		_						- moderate qtz alt. and	a few qtz stringers
								- minor to moderate epid	ote alt. and stringers, a few
				ļ				qtz-epidote stringers	
		_						- non-calcareous, non-ma	gnetic
		-							k; very minor disseminated cpy.
								Note:- this unit could be	considered to start at 38 m in

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\$s∍	ELCO	EXPLORATION WESTERN CANAD	A			DR			LO	G	HOLE NO
INTE	TVAL					RIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	L with C.A.	(FRACTURES FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
50.4	60.0	Andesite	Med.	Hed.	Рру	Qtz		50-100		Andesite feld-ppy; medium gra	in; medium grey-green; up to
		Feld Ppy	Grey-		Veining	Chlorite				3 mm euhedral to sub-euhedral	feld. crystals make up 40 to
			Green			Epidote				50% of rock, rest fine grain	green-grey matrix;
						Sericite				- mafics chloritized; feld	weakly seritized
						Calcite				- moderate gtz alt.	
										- moderate intensity of qtz	-chlorite-calcite-pyrite veins
										- weak to moderate epidote	alt. and stringers
										- minor disseminated pyrite	
										- core blocky	
					ł					(50.4 to 51.4 m) Fine graine	d with few feld phenocrysts -
										contact zone.	
									veins	51.3 m) 2 sub-parallel qtz-c	alcite, chlorite veins 1 cm
									45 ⁰	apart; minor diss. pyrite;	veins 2 to 8 mm wide; at
										\sim 45 [°] to C.A. chlorite is dar	k green.
										(54 to 54.4 m) Rubble of a g	tz-chlorite vein with minor
										calcite and pyrite; qtz whi	te; chlorite dark green.
									· · · ·	(54.6 to 55.1) Crumbly qtz-c	hlorite and epidote rich core.
											····
							· · · ·				
									·	60.0 m END OF HOLE	
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DRILL HOLE NO. _____ KL-14

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\$ SE	LCO	EXPL WESTE	LORATION ERN CANADA			DR		OG		S	amp	le c	data	
	S A /	MPLE			CORE	RECOVERY	VISUAL ESTIMATES		G	EOCHEM	RESU	LTS		
NUMBER	FROM	то	TOTAL METRES	Sp. Gr	70	AMT. LOST	(% ORE MINERALS)	λu (ppb)	Cu {ppm}	Vd (bbw)				
871258	47.5	51.9	4.4		100	Nil		55	645	0.2				
871259	51.9	54.5	2.6		100	۶۹ 		20	17	0.4	[
871260	54.5	57.9	3.4		100	li		25	322	0.3	1			
		<u> </u>	ENC	OF HOI	8							<u> </u>		<u> </u>
		<u> </u>												
		1		5 m Prev	<u> </u>	3'				ļ		·	·	4
	ļ	ļ		1	1	ugh 260 is 5	split of 4		}		<u> </u>	<u> </u>		
			of roc	kina 4'	box.		<u></u>		[¢ •				
											<u>}</u>		1	}
														1
					[!					ļ				
	<u> </u>	<u> </u>		<u> </u>	 !	: 			ļ				_}	<u>_</u>
	<u> </u>		4	}	∦┦	<u> </u>			}		ļ	- 		
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<u>-</u>		+		<u>{</u>	 	İ								
		·		<u> </u>				<u> </u>	}	·	<u>↓</u>			
		+	+						·		·			+
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		1	1 1		 	[1			1		1
									ĺ			<u> </u>		1
		<u> </u>		<u> </u>								ļ		<u> </u>
	<u>ε_1</u>	<u> </u>			1	l	<u> </u>	[<u> </u>	<u> </u>	1		KL-14	

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\$s	ELCO	E XALORATIKA WESTERN CANA				DRI	LL.		LO	G		KOL	E NO
RILLING CO		LOCATION SKET	(CH	DEPT	н (TESTS	AZIMUTH	DAT	E STARTED	August 31, 1984	PROJEC	T 7	XLl
			-	- COLLA		- 45°	000		E COMPLETED		N. T. S. 1		94D08
				121	.9	~ 50°	0000	<u> </u>	LAR ELEV.	1745 m	LOCATIO)N :	KL1-17 Claim
								NO	THING	10+005			
								EAS	TING	11+45E			
								AZI	MUTH:	000°	- <u> </u>		
								DEI	181	121.9 m	DATE LO	09950	September 23, 1984
OLE TYPE								705	ESIZE	в.ჹ.	LOGGED	19 Y I	Hans Smit
INTE	AV AL		1		DESCR	IPTION				STRUCTURE			RÉMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURE PER METRI	\$	(FRACTURES, FAUL IS, FOLDING, BI	EDDING,	MINERALIZ	ATION, TYPE, AGE RELATIONS
					}					Note:- Core stored in	plastic	boxes.	Fairly good
									1	preservation ~			
				•						and sampled.			
0	15.2	Overburden								-			
					1								
15.2	72.5	Altered	Light	V. fine	Alt.	Qtz		> 500		Altered andesite, very	fine gr	ain to d	occasionally fine
		Andesite	Grey-	to fine	Mottled	Sericite				grain with visible, al	tered re	lic feld	d. xtls; probably an
			Green			Chlorite				altered ash to fine xt	1 tuff;	light g	rey-green in colour,
						Kaolinite				strongly altered resul	ting in	crumbly	core, mottled texture
						Calcite				- core in small, ang	ular pie	ces	
										- strong pervasive q	tz-seric	ite alt	
					}					- mafic component ch	loritize	d; light	green-grey chlorite
										on moderately spaced	weakly	sheared	fractures.
										- minor calcareous p	atches		-
										- a few weakly kaoli		nes	
							ł		1	- pyrite v. fine to			lium grain 3% to
									· [· · · · ·	occasionally 5% di	ss. in r	ock	· · · · · · · · · · · · · · · · · · ·

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							· · ·		122.
Ss.	ELCO		DRATION N CANADA			DR	LL		LOG HOLE NO,KL-15
13T NI	IVAL		<u> </u>		0 E S (···· · · · · · · · · · · · · · · · · ·		STRUCTURE REMARXS
FROM	то	ROCK TY	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	(FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS
									- non-magnetic, no cpy observed
									- very minor qtz stringers
									- there is a weak foliation and most common fracture
									direct. in core of the rock. Appears to be at low <
			1]		1		to C.λ. However highly broken nature of rock makes
				1					it impossible to say if this is always so.
				1			-		(24.5 - 25.0 m) Very sericitic, soft core layered ~
						1			parallel C.A.; pulverizes into soft mush; not as pyritic
									as main part of unit.
					<u>}</u>				28.0 m) A decrease in alt.; moderate qtz-sericite, still
				ĺ					minor calcite plus moderate pale chlorite;
									- rock a little less broken and crumbly
	L [- pyrite 2 to 3%
	[]			Į	[32 m) _Alt. back to original strength.
				}				. <u></u>	
33.7	35.0)	Andesite	Med.	V. fine	Stringer	s Qtz		50-100	Very fine grain andesitic dyke; medium greenish grey;
	l	Dyke	Greenis	h		Calcite			silicic alt. makes it quite hard; mafic component
		<u>.</u>	Grey		1	Chlorite		· ·	chloritized; minor discontinuous calcite stringers at
				1	{				various orientations; minor diss. pyrite.

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DRILL HOLE NO. _____KL-15

35 m) Return to a thick section of the altered andesite; pale grey-green, strong gtz-sericite alt. minor pale chloritic shears; minor calcite; 3% diss. pyrite;

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Ş=	ELCO	EXPLONATION WESTERN CANA				DR	ILL		LOG	HOLE NO		
INTER	IVAL					RIPTION			STRUCTURE	REMARKS		
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDI ETC):	NG, MINERALIZATION, TYPE, AGE RELATIONS		
									occasional weak kaolini	te,		
]		- highly altered, crumb	ly rock in small angular pieces		
							* *		- very minor qtz string	ers		
									- occasionally can make	out 1 to 1.5 mm feld xtls but		
		· · · · · ·							mostly too altered of texture.	fine grain to see original		
_									47.4 m) Rock becomes a b	it darker, greener;		
						[ļ <u>.</u>	- less qtz-sericite alt	; old log reports magnetite		
									• around 48.5 m but non	e was detected so any MGT is		
	[<u> </u>	very minor, pyrite 2	very minor, pyrite 2 to 3%; a few tiny specks of cp		
			}					<u> </u>	found at 49.0 m.			
			-						- core a little less cr	umbly and broken.		
									52.2 m) Qtz-sericite alt	. increases again and is strong		
								·	to very strong by 54 m.	Rock pale grey-green again,		
									shearing also increases	, mostly parallel to subparallel		
					····				C.A.; pyrite 2 to 3%,			
									- occasionally get mino	r kaolinite again.		
	·								(57.5 to 60.5 m) Zone of	highly sheared rock strong alt;		
			·					-	crumbly, flakey rock ve	ry sericitic, minor kaolinite.		
	_								62.8 m) A few pyrite-stz	stringers with minor cpy - old		
•••• . ••••								- -	logs mention clay and p	yrite banding here - only minor		
	├───		·	····			<u> </u>	┝━━━━-┼╸	cpy, a few stringers, n	ot panding.		

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PAGE 3. OF 7

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ORALL HOLE NO. KL-15

\$s	ELCO	EXPLORATION WESTERN CANAD	4	•		DR		Ľ	OG	HOLE NO. KL-15		
INTE	RVAL		T		OESO	REPTION			STRUCTURE	REMARKS		
FROM	TO	AOCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS		
(63.8	64.3)	Andesite	Dark		Veining	Chlorite		50-100	Very fine grain andesitic to	basaltic dyke, mafic		
		to Basaltic	Green	1	{	Qtz			component chloritized; broken	core with 8 mm gtz-carb		
		Dyke				Calcite			vein; only a trace of pyrite.			
	 	······································		· · · · · · · · · · · · · · · · · · ·			- <u>-</u>		64.3 m) Alt. decreasing in m	ain altered andesite unit.		
									68.1 m) Further decrease in	alt.; rock now fairly green,		
		· · · · · · · · · · · · · · · · · · ·							only minor sericite, pyrite	~2%;		
				}					- from here to end of unit at 72.3 m get 20 to 40 cm			
									intervals of quite green, blocky core, interspersed			
					· · · · · · · · · · · · · · · · · · ·				in more altered, greyer and more crumbly core.			
72.5	92.1	Hornblende	Međ.	V. fine	Рру	Chlorite	Сру	50-100	Hornblende diorite; v. fine t	o medium grain, medium grey-		
· ·		Diorite	Green-	to fine		Quartz			green.			
·			Grey	to med.		Calcite			- Up to 73.5 m the rock is	very fine grain and textures		
				ľ					not easily discernable bu	t at 73.5 m it gets up to		
									fine grain and can see eu	hedral Hold. in a feld-rich		
				1					matrix with minor augite.	By about 82 m the rock		
									becomes medium to fine gr	ain and the Hbld-ppy texture		
				ļ					is quite distinctive.			
									- Get 25 to 30% fairly eube	dral hbld crystals, majority		
									i mm but commonly 1 to 2	mm and occasionally larger		
									(up to 10 mm observed); d	ark green, chloritized,		
			}					 	- in a white, feldspar-rich	matrix		
			Į	ļ		ļ			- <5% 1 to 2mm, more equipm			
	ł ł]			<u>}</u>			highly elongated to needlelike			

PAGE _____ OF ____

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DRILL HOLE ND. KL-15

\$s	ELCO	EXPLORATIC WESTERN CAN				DR			LΟ	G	HOLE NO
INTER	VAL				DESC	RIPTION	r	<u> </u>		STRUCTURE	REMARKS
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										- mafics chloritized; chlor	ite on moderate spaced
										fractures,	
										- minor calcite stringers,	generally discontinuous at
										moderate to high L's to C	.A.,
										- very minor qtz-carb strin	gers and veins,
							:			- very minor hematite on fr	actures,
					l					- minor ((0.5%) diss. pyrit	e,
									- trace of diss. cpy along	fractures observed.	
			· · · ·						Note:- This unit was called	a basaltic andesite in old	
										log; core of this uni	t was not previously split,
										except for one sample	taken from the entire
										interval of 72.2 to 9	6.6 m.
										(- An outcrop of simi	lar hold diorite is found
				-			• ··· ·			along creek below cam	p).
										(79.8 to 80.3 m) Quite sílic	ified; core pieces somewhat
					1					rounded.	_
		_								80.7 m) 5 cm of rubbly calca	reous core - small fault
		·								probably.	· · · · · · · · · · · · · · · · · · ·
		·								(85.1 - 85.6 m) Lighter grey	-green, silicified, moderatel
										sericitic, 2% pyrite; highl	y altered, mottled rock;
										weak foliation at 30 to 400	
								ļ	- either highly altered hbl	d diorite or else a short	

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PAGE <u>5</u> OF <u>7</u>

ا	ELCO	EXPLORATION WESTERN CANAD				DR			LDG	HOLE NO. KL-15
INTE	RVAL		}			RIPTION			STRUCTURE	REMARKS
FROM	το	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTER AT ION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
	}	2 			<u> </u>				interval of the main alte	ered andesite unit.
92.1	101	Altered Andesite	Pale to	V. fine	Mottled	Qtz		500	Altered andesite; same unit a	s beginning of hole; pale to
			Light		Sheared	Sericite		1	light grey-green; moderately	to strong gtz-sericite alt.;
			Grey-		Altered	Chlorite			pale grey-green chlorite alor	g shears; minor calcite;
		······································	Green			<u> </u>			pyrite 3% diss. in rock,	······································
									- rock too fine grained and	/or altered to see original
]		1	-	texture,	
				••••	1				- minor kaolinite	
· ·					<u>}</u>	1			- weak to moderately sheare	d at low L's to parallel to
					1		·		C.A.,	
							ļ		- core brittle and crumbly.	
							 		(92.1 - 94.0 m) Minor diss o	py; trace cpy after that
								<u> -</u>	(100.5 to 101) Very strongly	altered, strongly sheared;
									rock quite pale coloured; s	ome of core quite disinteg-
					}				rated.	
101	121.9	Andesitic	Med. to	Fine	Nottled	Qtz	Сру	100-500	Andesitic augite crystal tuff	; fine grain, medium to dark
		Augite Xtl	Dark		Altered	Sericite			green. Quite altered and she	ared but can still make out
		Tuff	Green			Chlorite		-	some chloritized augite cryst	als; generally too altered
						Calcite	}		and mottled to make out origi	nal texture,
									- mafics chloritized plus d	ark green chlorite along
				••••	1				fractures,	
									- moderate intensity of per	vasive qtz-sericite alt.,

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SHILL HOLE NO. KL-15

EXFLORATION DRILL LOG SELCO HOLE NO. . KL-10 WESTERN CANADA STRUCTURE REMARXS INTERVAL DESCRIPTION ROCK TYPE (FRACTURES, FAULTS, FOLDING, BEODING, ETC): MINERALIZATION, TYPE, AGE RELATIONS TEXTURE ALTERATION MINERALS PER METRE GRAIN COLOUR то FROM - minor calcareous fractures, - rock somewhat brittle; fractures at low L's to C.A.; some weak to moderate shearing, - pyrite 3% to 104 m, 1 to 2% after that, - occasionally weakly magnetic due to very fine grain MGT along fractures, - minor diss. cpy along fractures (sporadic occurences), - core in angular, generally less than 3 cm long, often flakey pieces. 110.5 m) A 5 cm block of less altered core shows original textures; 1 to 3 mm augite crystals, dark green, chloritized; stretched out at low L to C.A. make up ~3% of the rock; pyrite now mostly 1% and less; occasionally 2%. Still minor sporadic cpy. 116 m) Rock a bit more pyritic again (1 to 2%). 120.3 m) 20 cm interval, highly siliceous, with 3 to 4% cpy diss. in rock. 121.9 m END OF HOLE

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\$SE	LCO	EXP. WESTE	, or ation RN Canada			DR		OG		S	ample	data
	S A .	H P L E			CORE	RECOVERY	VISUAL ESTIMATES		GE	OCHEM	RESULTS	
NUMBER	FROM	то	TOTAL	Sp Gr	٧.	AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)		
871266	72,8	78.6	5.8	Box #15	100	Nil		5	42	0.4		
871267	78.6	84.7	6.1	#16	100	u		5	37	0.1		
871268	84.7	88.6	3.9	#17	100	14	·	5	69	0.1		
B71269	88.6	93.7	5.1	#18	100	la 1		5	262	0.2		
				End of s	ample i	nterval!!			}	-		
	1		1		∦				1			
-		-					· _ 					
		<u> </u>	-	0 to 72.	8 m and	93.7 to 121.9	m Previously sampled					
		1		·	<u> </u>	to 269 are of			1			
					<u>н </u>	of the rock in	· · · ·			1		
	 	1		}	fí — · — — — — — — — — — — — — — — — — —	ł — — — — — — — — — — — — — — — — — — —	m in from each		1	·		
				1		a (4') box.			-			
		<u>†</u>		<u> </u>					-			
· · · · ·		<u> </u>					·····					
		1		¦		İ				1		
	-	1							1.	1		
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	1		1	· ·		t		_	-			
		1	1		1				1			
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		1		<u> </u>	¥		· · · · ·	-	1	1	<u> </u> · · · − •	
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\$s	ELCO	EXPLORATION WESTERN CANAD				DR			LO	G		HOLE NO KL-16
DRILLING CO) .	LOCATION SKETC	ж	DEPT	и р	TESTS P ANGLE	AZIMUT	H DAT	E STARTED:	August 1984	PROJEC	T: KL1
			-1	- COLL		- 600	240	DAT	E COMPLETED:		N. T. S. (
				·				cou	LAR ELEV.	Auguat 1704	LOCATIC	
				}		•• •••		NO	THING: 40			
							1	EAS	TING: 107		-!	
								AZI	MUTH	2400		
							1	DEP	·T H :	163.4 m	DATE LO	DGGED: August 30, 1984
HOLE TYPE							1	ČÓF	E SIZE:	N.Q.	LOGGEO	BY Hans Smit
INTE	RVAL]		DESCR	PTION				STRUCTURE	<u></u>	REMARKS
FROM	10	ROCK TYPE	COLOUR	GRÁIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURE	S L with	{FRACTURES, FAUL TS, FOLDING, BI	EDDING,	MINERALIZATION, TYPE, AGE RELATIONS
0	9.14	Casing			1			1				<u></u>
	1	[···· ·	· · · · · · · · · · · · · · · · · · ·
9,14	14.0	Andesitic	Med.	Fine	Lappilli	Epidote	-	50-100	Fractures	Andesitic xtl-lithic	tuff; 1	to 2 -m pale green
		Crystal-Lithic	Grey-		Рру	Chlorite		1-	45°, 20°	·-·····		an aphanitic grey-green
	<u> </u>	Tuff	Green		1	Qtz				matrix with rare dark		
				-	1		·	1	-	- up to 2 mm wide r		······································
······································					-[1	-			4 mm a 45° to C.A.,
					·†							ely magnetic; <1% finely diss.
					+			<u> </u>		pyrite,		
		[·				- minor broken augi	te cryst	als.
		· · .			1					- mafics chloritize		
						· · · - · -		1			·	20° and 45° to C.A.
					<u> </u>			·				
14.0	70.2	Andesitic Feld	Med.	Fine	Рру	Epidote	-	50-100	Fractures	Andesitic feld ppy; 1	ose lapi	lli and tuff texture but
		Рру	Grey-	•••••		Chlorite			45°, 20°	similar rock; at (15.	0 - 16.5	m) rock is more mottled
			Green		1	Qtz				textured; irregular w	hite mas	ses constitute up to 30%
						<u>~</u>		1		of the core surface with porphyritic texture for rest -		
• • • •	····-· -·-·				† --			<u> </u>		alt, by silica result	s in bar	d rock; rock appears more

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DRILL HOLE NO. _____XL-16

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SELCO		EXPLORATION WESTERN CANAD	A	DRIL			ILL		LD	G	HOLE NO. KL-16	
11178	RVAL .				0 E S C	RIPTION				STRUCTURE	REMARKS	
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
										flow-like (more euhedral feldspar and no lapilli) but		
<u> </u>							l			contact with tuff seen. Rare	qtz stringer still; some	
			<u> </u>					<u> </u>		cocks-comb texture and open sp	aces; core more magnetic;	
				l				L	<u></u>	trace diss. MGT in core and M	GT along fractures and	
				ļ						stringers with epidote; pyrite	e constitutes up to 5% of	
			<u> </u>	} 		l	·		<u> </u>	some epidote stringers but is	<1% of total rock; vug at	
										18.0 m that has qtz enveloped	with fine xtl epidote inside	
					ļ					and pyrite coating the epidote	coating the epidote, showing relationships;	
	[Сру			 	trace cpy in stringers; moder:	ate to weak stringer intensity	
(20.2	20.53)	Andesite		Very	Fine					Far less feld xtls, fine grain tuff layer or non-ppyit:		
				Fine	Grained		}			flow (top ?); top contact in broken rock but bottom conta		
										visible; runs~20° to core axi	is; no contact metamorphic	
	}									effects; qtz stringer covers s	some of contact; minor calcite	
	{									blebs in this unit.		
										- At 21.95 there is a 4 cm 1	highly pyritic zone; stringers	
				-				-		of pyrite up to 3 mm; ~ 10	D% of rock is py over 4 cm.	
									Fractures	- At 22.75 m chlorite and eg	pidote plus striations along	
									10 °-20°	fractures that are 10° to	20° from core axis.	
(23.90	24.28)	Contact			<u> </u>					Contact between medium fine for	ald porphyritic apdesite and	
					<u> </u>					a fine grain and. runs ~ 11 to		
					<u> </u>	· ·				fracture running 020° to C.A.		
										flow contact or else subvolcar		
					· · · · · · · · · · · · · · · · · · ·					110% CONCUCE OF ET36 30DWICE	140 W 1141 W 1	

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a 🗘	ELCO	EXPLORATION WESTERN CANAL				DR			LO	G	HOLE NO. KL-16	
INTER	VAL		DESCRIPTION							STRUCTURE	REMARKS	
FROM	τo	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE			(FRACTURES, FAULTS, FOLDING, BEDOING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
(24.28	24.58)	Shear Zone	-			Argilli	1	> 100	20-30°	Zone of strong shearing; argillic alt. in shears; py 1%;		
						Sericit				minor carbonate; epidote; below the zone there is # 40 cm		
								ļ		of fairly strong epidote stri	ingering; some calcite;	
(26.42	29.40)		Med.		}					Core very broken, rounded, or	nly 37% recovery; some of it	
			Grey							it is softer (sericitic alt.?) and paler grey with 1 to 3%		
			-			[· – –			1	diss. py throughout (~1/3 is, but likely much of this roc		
			-							type is lost).		
(29.40	32.26)			Fine to	······		 	>100	<u> </u>	Core more blocky again; medium grey-green andesite; fine		
				V. fine				1	<u> </u>	grain; still porphyritic; mod	lerate epidote stringers;	
			-				[1		minor epidote stringers; mino	or qtz with envelopes up to	
								1		4 cm that contain 5-15% pyrit	e (fine xtline); rock gets	
									1	more rounded by 32.26.		
(32,46	32,76)	·····	Light	V. fine		Sericiti	¢ .			Small rounded core; light gre	ey; soft; suspect an altered	
			Grey				[1		feld-rich dyke; no contacts ;	preserved cut by minor	
										silicic and pyritic stringers	s. Not magnetic.	
				·			Сру			Core adjacent downwards is 1:	ighter grey-green and. and	
			1			<u> </u>		1		grades to medium colour over	~40 cm. Traces of cpy in-	
	<u> </u>					[1	-	cluding one 3 mm bleb; still	generally quite broken but	
		·····								more angular; minor calcite,	chlorite along slickenslides.	
(35.51	36,40)		Lt. Grey	V. fine				<u> </u>		Another light grey unit 28 cm	n long followed by light grey	
			to Green Grey	- to fine					<u> </u>	green fine grain and. for 35 more light and.; core very by not magnetic	cm, 10 cm of grey and then roken so no contacts observable;	

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SELCO		EXPLORATION WESTERN CANA		DRILL LDG						NOLE NO		
	VAL		1			RIPTIO			STRUCTURE	REMARKS .		
FROM	10	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
(36.42	39.60)	Andesite	Med. to	Fine to	Porph.	Qtz		50-100		Fine to medium fine grain mas	ssive andesite; trace diss.	
			Light	(occas-		Epidote				py within; less stringers that	in before; now only minor qtz	
-			Grey- Green	ionally medium						and epidote stringers; qtz alt. pyrite up to 5% in alt. zones a few mm wide; rock only slightly magnetic to nor magnetic; appears to be some weak alignment of feld xtl		
				1			{					
			1	1			1					
_	l 									some carbonate along a few sp	poradic shears (<l m).<="" td=""></l>	
(39,60	41.18)	Andesite/Dacite	Light		Pine					Lighter less green rock; poss	sibly more dacite layer or	
			Grey		Grain			1		possibly silica altered andesite no contact preserv		
										2% pyrite; harder than the gr	rey unit of 35.51-36.42 m.	
(41.18	60.75)				Porph.					After get back into fine grad	n feld ppy andesite. A few	
								ĺ		dark green highly chloritic h	ands up to 3 mm (only one	
								<u> </u>		side preserved) with up to 2	cm lighter alt. in andesite	
										along them (depletion phenome	non??); rock only occasional	
										magnetic; only minor qtz and	epidote; trace calcite in	
		-							ļ	shears with chlorite; core qu	lite broken but not very	
					8					sheared.		
									Comp. o bands 30	~At 48.75 m get a few faint ba		
_									Fracture	are 30° to C.A. some calcite	in fracture All to C.A.	
									70 ⁰ , 45 ⁰	before this rock 48.75 m to ~	49 m is greyer, 2 to 3% pyri	
				}						then back into grey-green roo	ck. At about 53 m rock gets	
										a bit darker colour but for t		
									Fault 45	-At 56.9 m there is a fault zo	one with fault gouge at 45° t	
							<u> </u>			C.A.; 10 cm of greyer pyritic	rock below; fault gouge and	
		ŧ								a few spots below are calcare	eous;	

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\$s	ELCO	EXPLORATIK WESTERN CAN		DRILL LO						G	HOLE NOKL-16	
INTEF	VAL	ROCK TYPE	1		DES	C R I P T 1 O J	N			STRUCTURE	REMARKS	
FROM	то		COLOUR	GRAIN	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
			-			1				-At 59.9 m there is a > 2 cm qtz-epidote and pyrite alt.		
							}		Alt. yein	envelope that is at 35° to C	.Λ.	
(60.75	61.86)		Med.Grey	- Fine	Mottled				Fracture	Rock has a distinctive mottl	ed texture with dark blebs	
			Green		1		· · · · ·	-i	70°, 40°	up to 1 cm across in light greenish rock; finely diss.		
	{				•					pyrite throughout; (<i); equigranular,="" fine<="" more="" td="" xock=""></i);>		
						1				grain; cause of mottled texture uncertain; rock moderate		
]		soft; light green due to epidote; darker colour uncert		
										(chlorite??)		
										- occasionally slightly magn	etic.	
(61.86	62.65)	Andesite	Light			<u> </u>				Rock becomes lighter colour, still mottled; occasional		
		Feld Ppy	Grey-		1			[·		calcite altered fractures wi	th some chlorite; calcareous	
			Green							fault gouge at 62.26 m, 3-5%	py in rock, especially along	
										fractures; rock harder; gree	n (darker) patches appear to	
										be due to very fine chlorite	in rock,	
					}					- still rare magnetic pieces	(weak).	
(62.65	64.2)		Med.					> 100		Medium grey-green colour to	rock again same as unit from	
			Grey-							60.75 m to 61.86 m, except m	ore py (1 to 2%); epidote as	
			Green			<u> </u>	[fracture coating and some wi	thin rock, but not many	
					_		 			stringers left.		
			-[-At about 64.2 m mottled text	ure becomes less prominent.	
(64.2	70.2)		Grey-	Fine	Рру	Epidote	 	100	Fract.	Back into a fine grain andes	ite feld ppy; grades from	
			Green			Chlorite		•	90°, 45°,	medium grey-green to light g	rey green over~40 cm.	
					1				65°, 20°	- pyrite 2 to 3% diss. and	in stringers; not magnetic;	

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DRILL HOLE NO. ____ KL-16

.

SELCO			EXPLORATION WESTERN CANADA			DRILL LDG					NOLE NO. KL-16	
INTERVAL						RIPTIO				STRUCIURE	REMARXS	
FROM	το	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L WIEN C.A.	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
		l						Ì.	Í	More calcite along fractures now than before; but stil		
							1			only weak amounts; some minor	chlorite along shears as well	
										but generally core is quite h	ard and mafics do not appear	
·									-	to be highly altered. At the	bottom of this unit is a	
	-				<u> </u>					broken 1 cm barren qtz vein.		
70.2	137	Andesite	Med. Grey	- Fine	Foliation	Chlorit	е Сру	> 100	Shear	Marked difference in core appearance; no longer porphyritic		
	1	Tuff	Green to		Shearing	Calcite	1		Calcite Str.	rock much softer (altered); chlorite alt. and moderately		
			Green		Stringers	Qtz	1	-	40 ⁰	to occasionally strong calcite alt.; calcite stringers o		
					1	Sericit	• · · ·		Fractures	moderate/intensity; somewhat less pyrite (1 to 2%); grad		
						Epidote		1	90,55,45,	from a medium to dark grey-gr	een at 70.2 to a light green-	
		-		· · ·					20,700	ish grey at 72.2 m; lighter colour has more mottled		
]					-		-	texture; only trace amounts o	f epidote; in darker core	
					}				-	lighter calcareous blebs up to	o 2 mm outline foliation;	
	1									after 71.3 m core becomes ver	y broken; a few zones	
									-	(i.e. 74.4 to 74.6 m) are lig	ht green-grey ppy as seen	
		[above - possibly interbedded	flows and tuffs; minor qtz	
							[stringers (discontinuous), es	pecially after 76.4 m,	
										 occasionally weakly magne 	tic.	
(75,9	79.8)	Andesite	Med.	Fine	Рру	Saussurt	zed			Another larger ppy unit within	n the tuffs; feld sauss.;	
		Feld Ppy	Grey-			Epidote	Сру	>100	Stringer≤			
			Green			- Chlorite	· · · · · · · · · · · · · · · · · · ·	1	40-45	appears some as upper andesit	es; py < 1%, (rarely up to	
		·			1						in this unit but do get calcit	
								[stringers at 40-45° (minor, <		
		<u> </u>								some along fracture at 79.6 m		

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\$\$₅	ELCO	EXPLORATION WESTERN CANAD	LA.			DR	ILL		LO	Ġ	HOLE NO. KL-16		
INTERVAL					DESC	RIPTION	*			STRUCTURE	REMARXS		
FROM	το	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with	FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION		
			Med. to	Fine		Calcite	ł	> 100	[- At 79,8 m start back into tu	iffs; gradational contact;		
			Light	to med.	Shearing	Chlorite	[· · · ·		foliation shown by mafics at	10 to 20° to C.A.		
			Grey- Green		Alt.		Сру	1	Foliatior	- At 84.0 m start getting pale	orange-brown coatings on		
			1	1	1				10-20 ⁰	calcite stringers, which bec	come moderately abundant belo		
					1	· ·		·		(probably post-drilling oxid	1.) trace cpy found except fo		
							[1		a few places such as 84.05 m	where the rock is~1% cpy		
							i	1		over 4 cm; cpy is diss. along foliation, concentrate			
			1		1			·		mafic grains; at 83.25 get o	alcareous fault gouge at 10		
	1									to core axis, continues till 83.55 m.			
					<u> </u>			1	Veins	- Sometimes some qtz in stringers such as a variable width			
					ľ		[mostly	(up to 8 mm) gtz-carb one at	: 87.02 m with abundant pyrit		
								1	10-20 ⁰	but most stringers are soft,	white (Ø-B weathering) and		
										calcareous - not all are 100	0% calcite - possibly a lot		
										of host rock still, or possi	bly some albite with stringe		
										- By 08.5 m alt. halos around	the stringers become more		
										pronounced and the rock some	times has a patchy appearance		
										with the rock a light browni	sh light grey in patches and		
										grey-green for the rest; the	brownish-grey patches are		
										soft and occasionally mildly	calcareous - sericitic??		
]	MGT band	- At 89.5 m a 1 cm wide MGT ba	and cuts the core at 30° to C		
									30 ⁰	cut off by fracture running	10° to C.A.		
										- mafics are highly chlorit	ized, elongated with foliati		
										up to 2 mm long; foliatio	on angle seems to change but		
										most often 40-45°; someti	mes less by 90 m.		
		• • •											
								}	1	Į			

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DRILL HOLE NO. __ KL-16

135.

EXPLORATION DRILL SELCO LDG HOLE NO. KL-16 WE STERN CANADA DESCRIPTION INTERVAL STRUCTURE REMARKS HEMARKS (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS ETC): ROCK TYPE TEXTURE ALTERATION ORE FRACTURES L with GRAIN COLOUR F 8 0 M то At 91.90 m another 5 mm MGT/py vein cuts core at 35°, Andesitic MGT/py 350 - around 93.3 m get up to 1 cm elongated dark green Tuff blebs - possibly mafic lapilli elongated along foliation minor to trace cpy in core. 95.60) Light Foliated Chlorite > 1000 (95.32 Shear Zone Fine Shear Shear zone; fault gouge; highly broken; moderately calcar-450 Sheared Calcite Greyeous; some qtz veins (up to 1 cm). Green Faulted Sericite (95.60 106.0) Med. Fine to Chlorite Core goes from light to medium grey-green; fewer \emptyset -B Calcite > 500 Grey-V. fine weathering stringers; a bit harder rock; only very slightly Сру calcareous except for a few stringers, <1% diss py, except Green for occasionally stringers; still a weak foliation present at first but lose it as rock becomes very fine grained and very recrystallized looking; amount of deformation increases, get multi-directional fractures; non-linear shears and stringers; still a few calcite stringers; trace cpy in in diss. blebs. Light Fine Foliated Calcite Paulting Rock becomes lighter again; increase in pale Ø-B weathering; (106.0 118.9) Andesite-Dacite 600 Folded Greenish Chlorite rock intensily deformed; foliations with some compositional Ash Tuff Grey Sheared Sericite banding deformed in multi-direct., small (1 to 3 mm) gtz banding (rare); fault gouge zones up to 2 cm wide preser-Faulted Qtz ved; seem to be $\sim 60^{\circ}$ to C.A.; py ~1%; rock appears to be completely recrystallized.

\$s	ELCO	EXPLORATIO WESTERN CAN		DRILL LOG						Ġ	HOLE NO. KL-16
INTER	IVAL				DES	CRIPTION	,			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	OR E MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
(108.6	(108.6 108.85)	Gabbro	Med. to	Fine	Рру	-	-	>100		Rounded core of a medium to d	ark green gabbro dyke with
			Dark	1	1		ľ		ļ	1.5 mm rounded feld phenocrys	ts in a fine grain matrix;
	}		Green							trace diss. pyrite; contacts	not preserved; not sheared
			_							or altered.	
	 				Shear			<u> </u>	<u> </u>	(109.1 - 109.5 m) Fault zone	, at least 3 fault cut through
			_		Faulting			·[2 at 60°, other unknown, co	
					Foliated			1			
										-After about 5 m foliation bec	omes less pronounced, but unit
										continues till 118.9 m (with	some foliation areas and
					{	qtz		l		microfaulting still prevalent); some qtz alt., especially
			_					_		115.6 - 115.8 m.	
(118.9	126)	Xtl-lithic	Međ.	Fine		Chlorite		>100		Not a sharp contact but rock	becomes darker green~grey
(110)		Tuff	Green≁	-		Sericite			2	over 10 cm; don't see good c	
·			Grey					·	}	Looks more xtline - xtl tuff;	still somewhat deformed but
									1	less so; at 121.75 get highly	elongated lapilli up to 2 cm,
· · · ·			1						Foliation	foliation running 45° to C.A.	; not multi-deformed anymore
					[45 ⁰	by this point; py 1-3%; minor	calcareous stringers; py
								[diss, throughout rock and in	thin diss. stringers; unit
					ļ					grades into more ppy looking	unit.
(126	131.70)	Andesite	Međ.	Fine to	Рру	Chlorite	Сру	50-100	Fractures	Contact with overlying xtl-li	thic tuff taken as the point
		Feld Ppy	Green-	Med.	Massive	Sericite			15,45,70	where pale green feld phenocr	ysts become prevalent for an
			Grey							extended length; get anhedral	to subhedral feld up to 4 mm,
						i				saussuritized; generally coar	ser grained feldspar than

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DRILL HOLE NO. KL-16

\$ ₅	ELCO	EXPLORATION WESTERN CANAD	A			DR			LO	G	HOLE NO
INTER	RVAL				DESO	CRIPTION	1			STAUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									1	earlier andesite; massive; som	me fractures have chlorite/
]									calcite coating and slickensid	les; at 127.8 m there is a
						1			ļ	1 cm wide chlorite vein within	a qtz envelope.
	[<u> </u>			1					Dtz vein 300	-At 128.5 m 1 cm qtz vein runni	ing 30° to C.A. with a few
		<u></u>]					1		blebs of cpy up to 1 cm big; ;	cock quite hard so not highly
			[Ï		altered; pyrite <1%, finely di	isseminated.
									{		
(130	140.3)	Andesite						ļ		Hematite staining along modera	stely spaced fractures, some
		-							-	with calcite; rock still weak]	ly alt., not very much
										hematite generally;	
										- another 1 cm qtz vein with	cpy at 131.6 m, some
										chlorite in vein as well.	
(132.3	137)	Andesite	Med.			Chlorite	Сру			Once again contact between thi	is unit and overlying not
	l	Xtl Tuff	Grey-	<u> </u>		Epidote				definite, but ppy text becomes	
			Green	[Sericite				more broken, areas where no xt	ls evident; minor epidote
					İ					stringers; chlorite alt. of ma	fics; minor diss. cpy; and
)									minor cpy along fractures with	epidote, chlorite and
										calcite; core quite broken and	i rounded near end of this un
						}				•••••	
137	163.4	Andesite Tuff	Med.	V. fine	Veining	Gypsum	Сру		Fractures	Most notable feature is qualit	y of core; long, unbroken
		(Ash to	Grey-	to fine	massive	Epidote			70, 30	pieces.	
		fine Xtl)	Green		<u> </u>	Calcite				-Andesitic ash tuff, massive; n	Medium green grey; fine
					.	Chlorite			35-45°	grained; some feld xtls up to	1 mm
!			<u> </u>		}			J i		•	

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DRILL HOLE NO. ____KL-16

EXPLORATION DRILL. LÖG SELCO HOLE NO. KL-16 WESTERN CANADA BESCRIPTION STRUCTURE INTERVAL REMARKS ROCK TYPE ORE FRACTURES I. with (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALS PER METRE C.A. (FRC): MINERALIZATION, TYPE, AGE RELATIONS GRAIN SIZE TEXTURE ALTERATION COLOUR FROM τо Make up to 2% of rock; also rare darker green lapilli up Quartz Calcite to 0.5 cm; - abundant (1 to 5 mm (mostly (1 mm) calcite stringers, moderately spaced up to 5 mm epidote stringers and occasional gypsum stringers; a few zones up to 10 cm wide have abundant stringers, pale brownish-grey colour and sometimes qtz-sericite alt; mafic chlorite; - diss. py (1 to 2%) and minor cpy plus some diss. cpy in calcite stringers; only minor amounts; a few qtz stringers with cpy as well; occasionally weakly magentic - fractures are moderately to closely spaced; 30° and 70° to C.A. are predominant direct. Fault Fault zone; rock disintegrates into small bits; no apparent (138.1 139.84) Fault Zone zone 50⁰ increase in mineralization; traces of hematite staining; top is at 50° to C.A.; bottom not preserved; core rubbly for next 40 cm after, then less broken again. Fault 15 A fault gouge zone runs 15 from C.A.; bottom half side (139.44 139.78) Fault Zone of core is much; gypsum, minor calcite in zone. By 143.5 m qtz stringers and alt. becomes more common, and calcite somewhat less, still minor epidote and gypsum; some fine xtl tuff layers (144 m to 145 m; 147 to 148 m) but no definite contact. .

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ORILL HOLE NO. _____XL-16

Ss	ELCO	EXPLURATION WESTERN CANA				DR			LD	G	HOLE NO. KL-16
INTER	VAL		}		OESC	RIPTION	<u>ч</u>			STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
·							1		Otz yein	145.48 m - 1 cm wide white, ba	arren qtz-gypsum vein at 25°
			1			{	1	<u> </u>		to C.A.; chloritic shear runs	parallel to it 1 cm below;
					1	[1		some qtz alt. for 6 cm below;	rock occasionally magnetic.
{146.6	146.82)	Fault Zone			<u> </u>	1		·		Fault zone; core breaks into	small bits, soft; minor
		· · _ · _ · _					1	1		gypsum.	
						†]				
(149.53	149.6>		Lt. Grey			Qtz	<u> </u> − − − −			Rock is light grey due to gtz	alt. some gypsum stringers.
-					1						
(150.07	150.20)				1	Qtz			Alt.	13 cm zone of strong gypsum,	qtz alt.; lies 60° to C.A.,
					1	Gypsum	ļ		Zone - 60 ⁰	weak layering~ parallel to th	is; may be due to alt. but
		····					[—	1		may be original composition -	if is possibly qtz and gypsu
								1		is chemical sed, not alt.	
					- <u> </u>	}	}				
					1		[1	contacti	-At 150.63 possible tuff conta	ct, not planar, runs 40 to 60
		•• •• •• •• •• ••			1				40°-60°	to C.A.	
					1		· [1			
(150.95	151.85)	Xtl Tuff			1		ļ — — — — — — — — — — — — — — — — — — —			Fine xtl tuff with~5% aug xt	ls, minor diss. MGT, contact
						[1		gradational on each side.	
		<u> </u>									
							· - · · · · · · · · · · · · · · · · · · ·	j. –	Qtz vein	-154.53 m - 1.5 cm qtz vein ru	ns 30° to C.A.; milky white,
					1			·	300	barren.	
							1				
					1				Alt. 60°	-154.04 m - 5 cm wide zone wit	h~15% gypsum, 15% pyrite -
					1					highly fractured.	
											······································
_				i		ł	}			· · · · · · · · · · · · · · · · · · ·	

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EXPLORATION S SELCO DRILL LOG HOLE NO. KL-16 WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARXS ROCK TYPE FRACTURES L with (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS GRAIN TEXTURE ALTERATION MINERALS FROM то COLOUR (156.54 157) Andesite Med. Fine Epidote Сру 50~100 contacts Andesite feld ppy dyke; fine grained, feld ppy with 30 to Рру 600 Chlorite 40 to 1 mm feld pheno in fine matrix with < 5% augite; Feld Ppy Greyepidote, chlorite alt. (moderate to weak); minor epidote Dyke Green and gypsum stringers; slightly magnetic, trace cpy, minor py, both diss.; contacts above and below at 60° to C.A., no contact mmf effects. -At 159.7 m start getting an increase in fracturing (>100), epidote stringering and gypsum; including a 1.5 cm gypsum vein at 160.04 m and at 160.3 rock starts to look almost shattered, but core is still largely coherent. -At 161.2 m core becomes much more broken; recovery is much poorer. 163.4 m END OF HOLE

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DRILL HOLE NO. ________

<u>Sse</u>	LCO	EXPL WESTE	Loration Ign Canada			D R	ILL L	OG		san	nple	data	
	S A I	νριε			CORE	RECOVERY	VISUAL ESTIMATES		(GEOCHEM R E	SULTS		
NUWBER	FROM	то	TOTAL METRES	Sp. Gr	9.	& AHT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)			
871001	9.14	12.0	2.86		100			65	320	0.3			
871002	12.0	15.0	3.0		100		· · · · · · · · · · · · · · · · · · ·	45	728	0.4			
871003	15.0	18.0	3.0		100	• • • • • • • • • • • • • • • • • • •		150	1862	1.3			
871004	18.0	21.0	3.0		83	17		110	535	0.8			
871005	21.0	24.0	3.0		95	5	· · · · · · · · · · · · · · · · · · ·	985	1630	3.8			
871006	24.0	27.0	3.0		95	5		245	846	1.6			-
871007	27.0	30.0	3.0		20	80	· · · · ·	65	538	0.6			
871008	30.0	33.0	3.0		85	15	· · · · · · · · · · · · · · · · · · ·	125	873	1.0			
871009	33.0	36.0	3.0		100			30	439	0.3			
871010	36.0	39.0	3.0		100			40	394	0.3			
871011	39.0	42.0	3.0		100			35	347	0.4			
871012	42.0	45.0	3.0		72	28		15	277	0.2			-
871013	45.0	48.0	3.0		100			85	212	0.2			
871014	48.0	51.0	3.0		100			20	185	0.3			
871015	51.0	54.0	3.0		100	}		15	180	0.1			
871016	54.0	57.0	3.0		100			5	100	0.2			
871017	57.0	60.0	3.0		100			15	216	0.3			
871018	60.0	63.0	3.0		100			60	634	0.8			_
871019	63.0	66.0	3.0		100			20	192	0.3			
871020	66.0	69.0	3.0		100			60	903	0.7			
871021	69.0	72.0	3.0		100			5	244	0.3			
871022	72.0	75.0	3.0		100	1		20	122	0.2			-
871023	75.0	78.0	3.0		100			30	404	0.3			
871024	78.0	81.0	3.0		100			60	653	0.6			
871025	81.0	84.0	3.0		100			175	586	1.7			1

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DRILL HOLE NO ____ KL-16 .

142.

\$se	LCO		OR ATION RN: CANADA			DF		OG		5	amp	le d	lata	
	S A I	MPLE			CORE	RECOVERY	VISUAL ESTIMATES		GE	OCHEM	RESUL	T S		;
NUNBER	FROM	TO	TOTAL	Sp. Gr	%	*AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)			1	
871026	84.0	87.0	3.0		100	Nil		105	707	0.7	<u>-</u>	-		
871027	87.0	90.0	3.0		100	It.	1% calcopyrite	265	1934	1.6				
871028	90.0	93.0	3.0	{	100			60	423	0.7			1	1-
871029	93.0	96.0	3.0		100	"		45	274	0.7			}	
871030	96.0	99.0	3,0		100	۹r		75	543	0.6				1
871031	99.0	102.0	3.0		100	U:		95	824	0.7				1
871032	102.0	105.0	3.0		100			60	274	0.3				1
871033	105.0	108.0	3.0	-	100	"		55	284	0.7				1
871034	108.0	111.0	3.0		100	17		210	307	1.1				1
871035	111.0	114.0	3.0		100	\$1		80	387	0.6				1
871036	114.0	117.0	3.0		100			150	408	1.8				1
871037	117.0	120.0	3.0		100	‡J		75	465	0.9				1
871038	120.0	123.0	3.0		100	0		30	241	0.2				1-
871039	123.0	126.0	3.0		100	ə1		30	153	0.1				
871040	126.0	129.0	3.0		100	÷t -	Trace calcopyrite	5	58	0.1			1	1
871041	129.0	132.0	3.0	}	100	15		5	142	0.1				1
871042	132.0	135.0	3.0		85	15		20	217	0.1				1
871043	135.0	138.0	3.0		85	15		30	312	0.1				1
B71044	138.0	141.0	3.0		100	Nil		25	204	0.1			1	
871045	141.0	144.0	3.0		100	±1		55	254	0.4	· · · ·		1	-
871046	144.0	147.0	3.0		100	IT		80	323	0.2			1	1
871047	147.0	150.0	3.0		100	71	Trace calcopyrite	190	319	0.3			1	1
371048	150,0	153.0	3.0		100	**		50	443	0.3			1	1
371049	153.0	156.0	3.0		100	(†		130	606	0.3				1
871050	156.0	159.0	3.0		100	*1		55	481	0.3				

588

0.3

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PAGE ____ 2____ OF ____

161.0

3.0

100

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159.0

871051

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144.

\$ SEI	LCO	EXPLO WESTER	DRATION IN CANADA			DA		OG		5	ample	data	
	S A A	4 P L E			CORE	RECOVERY	VIGUAL ESTIMATES		GI	EOCHEM	RESULTS	· ·····	
NUMBER	FROM	TO	TOTAL	Sp. 6+	*/.	AMT. LOST	VISUAL ESTIMATES {% ORE MINERALS}	Au (ppb)	Cu (ppm)	Ag (ppm)			
871052	161.3	163.27	1.9	}	NA (7)	(?)	Previously split	160	905	0.4			
_							END OF HOLE						1
					1			[····				1—
			2	·	-h		· • • • • • • • • • • • • • • • • • • •						
	-	} ·			.								\uparrow
	-	{	<u> </u>			· · ·	····					•••	
			<u> </u>	<u> </u>		· —··-	· · · · ·						†
					-#								
									+				t—
		}		_		— · · · · · · · · ·			· · · · · · · · · · · · · · · · · · · ·	 .	┟╍┄╴╴╏╴╴╼		┨
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ELCO					DR				LD	G		HOLE NO XL-17
).	LOCATION SKE	тсн	DEP	ти с	TESTS	AZIMUT	н 1	DATE	STARTED:	August 15, 1981	PROJEC	t: KLl
			COLL		900	240	5	DATE	COMPLETED		N. T. S. *	94/8
	ļ										LOCATIO	N' KL1 6 Claim
			ļ							400S 59+70N		
							1			1075W 64+90E		
						ļ	. 1			2400	0.175 1.0	
			<u> </u>				1			54.6 m		September 1, 1984
	<u></u>					<u> </u>	<u> </u>			<u>N.Q.</u>	1000020	Hans Smit
	ROCK TYPE		GRAIN			ÓRÉ	FRACT	URĖŠ	I. with		DDIN G	REMARKS
10	<u>}</u>	COLOGN	SIZE	TEXIONE	ALIENAIKN	MINERAL	S PER ME	TRE		ETC}		l
<u> </u>		_ }				<u> </u>		•	·	j <u> </u>	·· · ·	
										} <u></u>	ied at 1	79 IL. due to caving and
}							+			poor recovery.	•	
61	Casing		<u> </u>				┼──	-				
		-	<u> </u>			· · · · · · -	- 					
39,15	Andesite	Med.	Fine	Ррү	Chlorite	Сру	50-14	00	Fractures	Fine grain feld-ppy and	lesite; (medium grey-green colour;
	feld Ppy	Grey-	<u> </u>		Calcite		1		Stringers	generally∧l mm but up	to 2 mm	light greenish white feld-
		Green	}		Epidote				80, 45 ⁰	spar xtls make up~30%	of rock	, subhedral; to anhedral;
					Sericite					rest is matrix of very	fine to	aphanitic slightly chlorit-
		· · · · · · · · · · · · · · · · · · ·			Qtz		Į			ized mafics and probabl	y more	feldspar.
ļ										- Minor epidote strir	ngers, v	. minor calcite on fracture
							<u> </u>			surfaces; mafics we	akly ch	loritized; feldspar saussur-
			}				ļ			itized; most of roc	k is we	akly magnetic, rarely mod.
		-	<u> </u>	ļ	<u> </u>		<u> </u>			magnetic, minor pyr	ite dis	s. throughout, and with epide
		1]			stringers; trace di	ss. cpy	; blocky core.
	RVAL TO 6.1	ELCO EXPLORATIO WESTERN CAN LOCATION SKE	ELCO EXPLORATION WESTERN CANADA	ELCO EXPLORATION WESTERN CANAGA	ELCO EXPLORATION WESTERN CANADA	ELCO EXPLORATION WESTERN CAMADA DE PTH DP ANGLE COLLAR 90° RVAL ROCK TYPE COLOUR GRAIN TO ROCK TYPE COLOUR GRAIN SIZE TEXTURE ALTERATION GRAIN SIZE TEXTURE ALTERATION SIZE TEXTURE ALTERATION G.1 Casing G.1 Casing G.1 Casing G.1 Casing Green Colour Grey- Colour Calcite Feld Ppy Grey- Green Colour Calcite	ELCO EXPLORATION WESTERNICAMADA DEPTH DIPANGLE AZIMUT LOCATION SKETCH N. COLLAR 90° 2400 	ELCO EXPLORATION WESTERN CANADA DEPIH DIPILL LOCATION SKETCH JEPTH JEPTH JEPTH AZUMUTH COLLAR 90° 240° COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL COLLAR 90° 240° RVAL ROCK TYPE DESCRIPTION COLOUR GRAIN TEXTURE ALTERATION MINERALS FRACT FRACT GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERATION GOLOUR GRAIN TEXTURE ALTERAT	ELCO ENTERICATION WESTERI CAMADA DE PTH DE PTH DIP ANGLE AZIMUTH DATE LOCATION SKETCH I DE PTH DIP ANGLE AZIMUTH DATE COLLAR 90° 240° DATE COLLAR 90° 240° DATE COLLAR 90° 240° DATE COLLAR 90° 240° DATE COLLAR 90° 240° COLLAR NORT EASTI COLLAR 90° 240° COLLAR NORT COLLAR 90° 240° COLLAR 90° 240° COLLAR NORT COLLAR 90° 240° COLLAR 90° 240° COLLAR NORT COLLAR 90° 240° COLLAR 90° 240° COLLAR 90° 240° COLLAR 90° COLLAR 90° 240° COLLAR 90° COL	ELCO ENFLORATION WESTERN CMMODA DEPTH DEPTH DIP ANGLE AZIMUTH DATE STARTED: DATE COMPLETED: COLLAR I LOCATION SKETCH I DEPTH DIP ANGLE AZIMUTH DATE COMPLETED: COLLAR OATE COMPLETED: DATE COMPLETED: COLLAR I I COLLAR 90° 240° DATE COMPLETED: COLLAR ELEV. I I I I COLLAR 90° 240° DATE COMPLETED: COLLAR ELEV. I I I I I I I COLLAR 90° 240° DATE COMPLETED: I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <td< td=""><td>ELCO ENCONTON WESTER CAMOA DEPILL LDG ICATOR SETCH ICATOR SETCH ICOLAR DIFFTS ATMUTH DATE STATECH August 15, 1981 ICATOR SETCH ICOLAR DIFFTS DIFFTS ATMUTH DATE STATECH August 17, 1981 ICOLAR SO^O 2400 MATE GAURETED August 17, 1981 August 17, 1981 ICOLAR SO^O 2400 COLAR CEV. MORTHING 4005 S9+70N ICOLAR ICOLAR SO^O 2400 COLAR CEV. NO. S9+70N ICOLAR ICOLAR ICOLAR ICOLAR CEV. NORTHING 4005 S9+70N ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR</td></td<> <td>ELCO ESPECIATION WESTERN CANAGA DRILL LDG LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 15, 1981 RTOJEC LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 17, 1981 RTOJEC LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 17, 1981 RTS.F LOCATEM SKETCH LOCATEM SKETCH JP ATM 1 ACOMPTANAGE 400S S9+70H LOCATEM LOCATEM SKETCH <</td>	ELCO ENCONTON WESTER CAMOA DEPILL LDG ICATOR SETCH ICATOR SETCH ICOLAR DIFFTS ATMUTH DATE STATECH August 15, 1981 ICATOR SETCH ICOLAR DIFFTS DIFFTS ATMUTH DATE STATECH August 17, 1981 ICOLAR SO ^O 2400 MATE GAURETED August 17, 1981 August 17, 1981 ICOLAR SO ^O 2400 COLAR CEV. MORTHING 4005 S9+70N ICOLAR ICOLAR SO ^O 2400 COLAR CEV. NO. S9+70N ICOLAR ICOLAR ICOLAR ICOLAR CEV. NORTHING 4005 S9+70N ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR ICOLAR	ELCO ESPECIATION WESTERN CANAGA DRILL LDG LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 15, 1981 RTOJEC LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 17, 1981 RTOJEC LOCATEM SKETCH JP PTH DP ATM 1 AZMUTH DATE STATEO August 17, 1981 RTS.F LOCATEM SKETCH LOCATEM SKETCH JP ATM 1 ACOMPTANAGE 400S S9+70H LOCATEM LOCATEM SKETCH <

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DRALL HOLE NO. _______

\$s	ELCO	EXPLORATION WESTERN CANADA	A			DR	ILL		LO	G	HOLE NO
1 N T E 4	RVAL				0 E \$ (RIPTION	1		·	STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
(6.1	14.33)	Oxidation Zone			Iron					From the casing to 14.33 m ge	t iron oxide staining and
					Staining					minor malachite staining - ox	idat. zone.
(7.6	33.0)				Blotchy	Qtz	<u> </u>			Moderate to strong quartz alt	. that affects about 10 to 15%
								1		of the rock results in a 'blo	tchy' appearance due to its
	1									lighter green colour than non	-qtz altered rock - Note: only
			· · · · ·							rare qtz stringers.	
(12.6	15.0)							>1000		Core is very broken; mostly ~	l cm rounded pebbles -
										same rock as blocky core so r	eason for core disintegration
										unknown.	· · · · · · · · · · · · · · · · · · ·
(15.45	15.75)	Andesite	Med.	V. fine						Very fine grain andesite, not	porphyritic; contacts with
			Grey~	Grain						ppy not preserved so unknown	if dyke or possibly a flow
			Greén							top	······································
									MGT/Epid	At 17.0 m a 2 mm MGT/epidote	vein runs at 30° to C.A.;
			}						vein 300	some MGT found with epidote in	
									Ŧ	thickness or MGT content are	rare.
										- Fractures have up to 3 to	5% py coating, but total
										py still <14.	······································
(19.0	21.05)		·		Breccia.			> 1000		Around 19 m the rock becomes	much more broken; ppy texture
									 .	largely masked by irregular 1	
										rock after this is slightly d	
			[than preceding rock suspect t	hat this is a flow top breccia

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DRALL HOLE NO. ____KL-17

\$°5	ELCO	EXPLORATIO WESTERN CAN				DR	ILL	Ĭ		G	HOLE NO. KL-17
INTER	VAL					RIPTION				STRUCTURE	REMARKS
FROM	10	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		{FRACTURES, FAULTS, FOLDING, BEDDING, ETG }:	MINERALIZATION, TYPE, AGE RELATIONS
					ĺ					zone; the last 20 cm or so o	of this interval contain
										abundant pyrite (5%) in asso	ociation with epidote fairly
								<u> </u>		magnetic.	
(21.05	32.8)	Andesite	Ltmed.	Fine	Рру	Epidote				A lighter andesite feld ppy.	, also fine grain, feld pheno-
		Feld Ppy	Green Grey to		Veining;	Chlorite				crysts not as visible but a	ctually more abundant than
			MedDk.		Alt.	Magnetit	e			before (~50%); still minor (pidote stringers, rare calcite
			Grey- Green	•••		}				and qtz epidote stringers,	mare calcite and qtz stringers;
-										minor pyrite stringers and o	liss. pyrite (<1%); less
										magnetic than previous inter	rval at first but as go down
										get increasing magnetism, e	pidote and magnetite stringers;
			_							rock gets blotchy dark gree	n patches within are more
			_							magnetic - (appear to be mag	netite and some chlorite alt.);
			_							fracture controlled, up to 4	10% of rock altered in some
										spots; fractures and MGT/epi	dote stringers are closely
		· · · · · ·								spaced, multi-directional;)	cock gets more 'shattered'
					{					looking and by 25.8 m most	fracture spacings 41 cm in any
										direction.	
			_		ļ					- Traces to minor amounts	of cpy and minor pyrite
										stringers also occur.	
	· · · · · ·		_							- Rock looks darker green-	grey much of the time but
										believe this is a produc	t of later alt., not original
			.jļ							composition.	
										- Amount of cpy higher in	this zone than before but
				• • •• •				·		still much < 1% of rock.	· · · · · · · · · · · · · · · · · · ·
			}			L		I Į	1	Note:- pyrite/epidote vein,	non magnetic, cuts altered rock

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\$s	ELCO	EXPLORATION WESTERN CANA				DRI	LL		LO	G	HOLE NO	
INTE	RVAL									STRUCTURE	REMARKS	
FROM	TO	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS	
(32.0	33.95)	Andesite	Med.	Fine	Рру	Epidote	Сру	100-500	Qtz	At 32.0 m there is a 2 mm qtz	stringer running 30° to C.A.	
		• ···•	Grey-			Qtz			30 ⁰	below the stringer rock is muc	ch less fractured, less	
			Green			Magnetite	!			magnetic (but still moderately	and more homogeneous	
								1		looking (not mottled or blotch	y). Fine grain feld ppy	
				[texture like that in begin of	core is found; minor qtz	
										and epidote vein stringers; minor py, trace cpy.		
33.95	39.15	Andesite	MedDk.	V. fine	Alt.	Epidote	Сру	100-500		Andesite, very fine grain, med	lium to dark grey-green;	
		Tuff	Grey- Green		Veining	Magnetite	2			- ppy texture suddenly end;	colour darkens and magnetism	
			<u>6100</u>		·· -	Qtz				increases; possibly more a	iltered interval of above	
						Calcite		Ì──── {	- ·	layer that masks ppy text	ture but not sure - else	
						[finer grain andesite or ma	aybe andesitic tuff;	
										- moderate to minor epidote	veining, moderately spaced	
										qtz stringers often with 1	to 2 mm wide qtz alt.	
										envelopes; epidote veins o	bserved cutting qtz; v.	
					}					minor calcite sometimes wi	ith qtz; magnetite not readil	
										visible so most must be ve	ery fine grain within the roc	
										quite magnetic;		
							-			- pyrite (~1%) with epidote	in stringers and lesser	
										amounts in qtz stringers;	py/epidote stringers are	
	ļļ		<u> </u>							multi-directional; cut qt2	stringers; cross-cut each	
	ļ [other; they are generally	1 mm and less in thickness	
·	ļ		<u> </u>			 		·		and of weak to moderate in	tensity;	
	l				ļ	ļ			- -	- minor cpy is found associa	ited with both the quartz and	
	<u> </u>		ا ــــــــــــــــــــــــــــــــــــ		 _	├ <u>─</u> ─_}					in a few places it constitute	
										close to 1% of the rock ov	ver a few cm, but generally	

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DRILL HOLE NO. KL-17

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\$se	ELCO	EXPLORATION WESTERN CANAD				DR	LL		LO	G	HOLE NO. KL-17	
INTER	VAL		<u>_</u>			RIPTION				STRUCTURE	REMARKS	
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES		(FRACTURES, FAULTS, FOLDING, BEDOING,	MINERALIZATION, TYPE, AGE RELATIONS	
										is much 1% of rock; v. minor	hematite staining on	
		· · · · · · · · · · · · · · · · · · ·								fractures.	· · · · · · · · · · · · · · · · · · ·	
(39.15	49.4)	Andesite	Med.	Fine to	Рру	Epidote	Сру	> 1000		Medium grey-green fine to med.	ium grain andesite, feld 60	
		Feld-Ppy	Grey-	Med.	Alt.	Qtz				to 70%, mafics 30 to 40%; core	e is largely in small chunks	
[(Diorite?)	Green		Veining	Chlorite				2 cm and less in size; increas	singly poor core recovery was	
		· -								obtained from here to end of)	hole.	
										- Generally more intrusive	looking (diorite?) than	
										previous andesite and feld	ppy, interlocking xtls,	
										'grainy' texture (from 6.1 to 39.15 m).		
										- Minor epidote stringers a	nd minor qtz stringers,	
										sometimes with qtz alt. en	nvelopes; except for a few	
									:	small zones, rock only ver	ry slightly magnetic; pyrite	
										(1 to 2t) diss. in rock al	long fractures, and in	
										epidote stringers; minor «	cpy found - seems to be most	
										commonly assoc. with qtz	stringers and alt; minor	
										MGT concentrated in a few	1 to 2 cm zones.	
(48.5	48.95)	Diorite	Med. to	V. fine	Massive	Calcite		500-1000	••••••••	A 45 cm diorite to basalt dyke	e that is darker grey-green and	
		to Basalt	Dark			Chlorite				much finer grained than main a	andesite diorite; no contacts	
			Grey- Green							preserved; weak calcite and c	hlorite alt.; minor calcite	
										stringers; no pyrite or cpy.	······································	
										- Main and/diorite is on eac	ch side.	
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EXPLORATION DRILL SSELCO LDG WESTERN CANADA INTERVAL DESCRIPTION STRUCTURE REMARKS ROCK TYPE ORE FRACTURES GRAIN SIZE TEXTURE ALTERATION (FRACTURES, FAULTS, FOLDING, BEDDING, FTC): MINERALIZATION, TYPE, AGE RELATIONS COLOUR FROM то 48.4 49.70 Andesite Med. to Fine Рру Epidote 500-1000 Fine grain medium grey-green andesite feld-ppy; this unit Сру Feld-Ppy Alt. Magnetit Dark resembles other andesite feld-ppy higher in hole (30% feld Grey-Veining Qtz phenodryst generally, 1 mm long, saussuritized, in an Green aphanitic medium to dark grey-green matrix); upper contact with overlying andesite not preserved; by bottom contact there is 3 cm of sheared looking chlorite/calcite/gtz suspect this interval is a fault slice of andesite within the dioritic andesite. Rock is guite magnetic; epidote/pyrite stringers of moderate intensity; also moderate amounts of gtz stringers and gtz alt.; pyrite ~3 to 4%; trace cpy; Note: rock less broken than above and./diorite unit: - epidote/pyrite cuts qtz, - a few zones (i.e. at 48.9 m) where get high alt, over a few cm with rock 10-15% pyrite and 1 to 2% cpy. 49.70 54.6 And./Diorite Med. Grev Fine Fine grain and./diorite feld-ppy; same rock as that of Qtz >1000 Ppy Cpy interval between 39.15 m and 48.4 m; in the last 2 to 3 m Feld-Ppy -Green Alt. Epidote to Light Stringers Magnetite mafics become up to 10% of rock; core pieces become in-Greenish creasiningly smaller; (caving of hole and only 60 to 70% Chlorite Grey recovery achieved); only slightly magnetic; minor epidote and minor atz stringers; a few zones up to 2 cm of high magnetism; pyrite 1 to 2%, cpy (trace) but much could have been lost.

54.6 m

END OF HOLE

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E XPLORATION DRILL LOG SELCO HOLE NO. ... XL-18 WESTERN CANADA TESTS DIP ANGLE DATE STARTED. DRILLING CO. LOCATION SKETCH PROJECT DEPTH AZIMUTH August 21, 1981 KLI 150 DATE COMPLETED - 50 N. T. S. : COLLAR Т August 25, 1981 94D/8 COLLAR ELEV. LOCATION KLL 4 Claim NORTHING 380s 59+66N EASTING 1240% 64+40E AZIMUTH 150° T DEPTH DATE LOGGED September 3, 1984 142.3 m ROLE TYPE CORE SIZE LOGGED BY 1 Hans Smit N.Q. DESCRIPTION STRUCTURE INTERVAL REMARKS ROCK TYPE ORE FRACTURES L with MINERALS PER METRE C.A. MINERALIZATION, TYPE, AGE RELATIONS FRACTURES FAULTS FOLDING, BEDDING. GRAIN FROM τo COLOUR TEXTURE ALTERATION E TC] 0 6.4 Casing 6.4 16.1 Altered Light Alt. Fine grained altered andesitic/dacitic tuff; ash to fine Fine Qtz 100 Foliation Cpy 450 xtl; mostly feldspar (~70-80%); minor qtz, rest very fine And./Dacitic Veining Brownish Carbonat mafics, appear to be chloritized; rare lapilli up to 0.5 cm Tuff Grey Foliation Sericit Fractures rock sometimes shows weak foliation at 45° to C.A.; 5.70.20° Chlorite - qtz-carb:stringers up to 3 mm of moderate intensity Stringers are found in various directions but 45° and 20° to C.A. 45,20⁰ predominate; ~1% py diss. throughout rock, trace of diss, cpy; - core generally blocky - a few spots are weakly magnetic - qtz-carb veins have light Ø-B colour; this combined with the brownish colour and tuffaceous nature of the rock make it a likely equivalent of the 106.0 to 118.9 m interval in KL-16, though it is less deformed. - Bottom contact is not sharp; rock becomes greener over a metre or so, and the distinctive \emptyset -B weathering

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EXPLORATION DRILL LOG SSELCO HOLE NO. KL-18 WESTERN CANADA OESCRIPTION STRUCTURE REMARXS INTERVAL (FRACTURES, FAULTS, FOLDING, BEDDING, ROCK TYPE ORE FRACTURES MINERALIZATION, TYPE, AGE RELATIONS GRAIN TEXTURE ALTERATION COLOUR FROM ۲٥ qtz-carb stringers desappear. Note:- There is some possibility that the paler, more dacitic look to this unit is more due to pervasive alt. than original compositional differences. 50-100 A breccia; up to 5 cm angular clasts of the dacitic to Breccia Qtz (7.8 8.72) Breccia Light Greyandesitic light brownish grey tuff unit and about 20% Alt. Calcite Green white barren gtz clasts; in a matrix of fine bits of Chlorite similar composition and fine grain chloritized mafics; Sericite clast supported; last 3 cm is a qtz vein (white, barren) suspect a fault brxx; clasts show some alignment but direction variable. Calcite 500-1000 Fine grain andesite, possibly xtl tuff; 40 to 60% feld 16.1 28.0 Andesite Med. Fine Ppy Сру Grey-Chlorite xtls in a matrix of more feld that is finer grained; mafics Green Sericite and feld; also occasional aug xtls up to 2 mm; some qtz seen (< 5%);Qtz - mafics are chloritized; feldspars are somewhat soft, therefore probably sericitized; rock mildly to moderated calcareous; minor qtz and calcite stringers; py diss. throughout rock (1 to 2%), trace diss. magnetite and trace cpy; minor epidote alt. in a few places: - core is much more broken than previous interval.

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ORAL HOLE NO. KL-18

\$s	ELCO	EXPLORATION WESTERN CANAG				DR	ILL		LO	G	HOLE NO KL-18	
INTES	₹VAL		1		DESO	RIPTION				STRUCTURE	REMARKS	
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
28.0	41.15	Andesite or	Light to	Fine to		Calcite		1	1	Rock has become slightly less	mafic, abundant, coarser	
		Diorite?	Med.	Med.		Chlorite			• • • • • • • • • • • • • • • • • • •	grained and more 'intrusive'	looking, (interlocking crysta	
		Feld-Ppy	Grey- Green			Sericite				homogeneous) may still be and	esite, but definately not	
				1		Qtz	· · · ·			tuff;		
					1					- no definite contact with overlying unit so may be		
										or else possibly subvolca	nic dyke that does not show	
										good contacts; still slig	htly calcareous, minor qtz	
		·								alt.; mafics chloritized,	l to 2% pyrite; a bit more	
										cpy but still only trace a	amounts (diss, and a bit in	
										rare qtz-carb stringers).		
										Note:- Feldspars subhedral to	o euherral, mafics anhedral.	
- · · · ·	L	. <u> </u>		} 						At 40.0 m start getting minor	qtz-carb stringers ((1 mm)	
			[[_			with $Ø-B$ weathering. A few h	ave qtz alt. envelopes up to	
				 						4 mm wide, minor hematite sta	ining on fractures.	
(41.15	45.30)	Altered And./	Light	Fine	Foliatio	ı Qtz	Сру	100	Stretch	Ø-B weathering, foliated ander	site/dacite tuff originally	
		Dacite Tuff	Brown	to Med.	Veining	Carbonat	3		Lineation	slightly darker green than pro	eceding unit; fewer feldspar;	
			to Med.		Alt.	Chlorite			450	now highly altered by qtz-carl	b. alt.; qtz-carb stringers	
			Grey- Green							increase in number towards upp	per contact and then become	
										very abundant within this uni	t, and alt. guite widespread;	
										foliation appears - stretching	g foliation (and lineation)	
										outlined by highly elongated :	feldspars, most common at	
										45° to core axis; but sometime		
										carb) stringers up to 5 mm th		
					ļ					but most commonly~45° - they		
							أ			2% diss. pyrite throughout; to	race cpy; minor mariposite	

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EXPLORATION DRILL Sselco LOG WESTERN CANADA HOLE NO. KL-18 DESCRIPTION INTERVAL STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION ORE FRACTURES L. WITH MINERALS PERMETRE C.A. (FRACTURES, FAULTS, FOLDING, BEDOING, ETC): GRAIN SIZE MINERALIZATION, TYPE, AGE RELATIONS COLOUR FROM то around 42.8 m. - (42.3 to 42.6 m) highly deformed zone with abundant qtz-carb alt., 5% pyrite; very soft and broken carb; - Amount of qtz alt. gets less towards the lower contact of this unit and does not continue below. Contact - Lower contact is at 40° to C.A.; and distinct. 40° - Rock finer grained for last 5 cm (contact mmf effect?) Calcite 100-500 45.30 90.53 Andesite Med. Fine Сру Fine grain andesite feld ppy; a bit more mafics but other-Grey-Otz Feld-Ppv wise similar to unit before last; (may be a diorite as well), Green to Med. Chlorite feldspar xtls up to 60% of rock (1 to 2 mm); in a matrix Sericite Grey of finer feld and mafics; rare zones of gtz alt, are Epidote lighter coloured; mafics chloritized, feldspars soft so suspect sericite; weakly to occasionally moderately calcareous; py ~1% diss. throughout; trace diss. cpy, in this and earlier feld units in this hole the feldspar phenocrysts do not stand out as readily as those in some of the feld-and, of other holes. - Minor calcite and qtz stringers. Note:- At 48.7 m start on split core (sampled in 1981 to end of hole from here). At 49.5 m rock becomes a bit lighter, contact runs ~30° to Contact 300 C.A., 2 mm gtz stringer by contact, seems to be some increase in gtz alt. and some increase in pyrite but hard

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DRILL HOLE NO. KL-18

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\$s	ELCO	EXALORATION WESTERN CANA				DR	ILL		LOG	HOLE NO
INTE	RVAL		1		DES	C A P T O	N		STAUCTURE	REMARKS
FRÓM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDOING, ETC):	
									to say for sure due to high	ly broken core; basically same
		·	<u> </u>						as previous unit except les	s mafics - different flows?
									By 53 m rock is medium dark	-green again, no contact visible
		·				-			At 55.8 m get minor epidote	; a few minor pyrite stringers.
					ļ	ļ	[Occasionally getting a 'blo	tchy' texture due to greyer alt.
		· • • • • • • • • • • • • • • • • • • •						[]	in the rock (probably qtz-se	ericite) that is only in
	ļ į								patches.	
	<u> </u>		ļ						Rock only calcareous on occa	asional fracture surfaces now.
	ļ		[Fine to very fine medium gro	y-green to medium grey andesite
			[]					<u> </u>	with occasional 'blotchy' al	
									distance; occasionally dist	
						ļ	ļ	l	often fine grain nature of a	
	.		[<u>.</u>		textures. Possible that the	ese are fine grain tuffs and not
	<u> </u>								flow rocks.	· · · · · · · · · · · · ·
(67.6	69.3}	Andesite	Med.	Fine	Рру	Qtz	Сру	50-100	Andesite feld ppy, grey-gree	m; fine grained;
		Feld-Ppy	Grey- Green			Epidote				mut still fine grained; what
	[Sericite				m preceding unit is the dis-
										dspar phenocrysts (saussuritize
										generally (1 mm, occasionally
										s in a finer grained medium
										r core pieces than preceding
									and succeeding units.	
	l ł				[_		- minor (<5% augite xtls).	·

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EXELOBATION DRILL Sselco LOG WESTERN CANADA KOLE NO. KL-18 DESCRIPTION INTERVAL STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION MINERALS PERMETRE C.A. GRAIN SIZE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC): MINERALIZATION, TYPE, AGE RELATIONS FROM τo COLOUR - Crystals are not very euhedral but compact nature of rock indicates flow rock, not a tuff. After this get back into slightly greyer rock with less distinct feld phenocrysts; still minor epidote/pyrite stringers; occasionally rock has 2 to 3% pyrite; grain size about same as previous interval; trace diss. pyrite cpy. Fine to Enidote 50-100 Andesite feld ppy; rock becomes greener, coarser grained (73.5 90.53) Andesite Med. Ppy Cpy Grevagain - seems to be dealing with a succession of flow units; Feld-Ppv Med. 0tz Green Sericite no good flow contacts observed however; Chlorite - feldspar xtls generally <2 mm, occasionally up to 3 mm make up 40 to 50% of rock; rest is fine grained greenish matrix; - feldspars pale green (saussuritized); mafics fairly soft (chloritized) and minor epidote in rock - rock only weakly altered looking though; - minor epidote and rare calcite and rare qtz stringers; <1% pyrite diss. throughout and some pyrite/epidote stringers trace to occasionally minor diss. cpy. Practures Note:- 2 boxes (76.2 to 87.9 m) were not split in 1981 for 70,15,90 some reason. - Rare zones of qtz alt. (i.e. at 75.9 to 76.05 m) which have very small rubbly core; rest of core quite blocky.

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\$s	ELCO	EXPLORATIO WESTERN CAN				DR	LL		LD	G	HOLE NO. KL-18
INTES	RVAL				0 6 5 0	RIPTION				STRUCTURE	REMARKS
FROM	то	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
										- Unit continues for some d	
					1			-	Qtz vein	At 80.2 m get a 1 cm gtz vein	at 45° to C.A.; milky white;
						1 -				trace diss. pyrite; minor ass	oc. chlorite; 2 cm of qtz
					1]				alt. above it, but nothing be	low.
					1	}]		At 80.5 m start getting trace	disseminated magnetite; a
										few cpy blebs in a gtz string	er here as well.
										(82.4 to 82.8 m) ~ Aphanitic	to fine grained light grey
• • • • • •]						rock, moderately soft - textu	res either too fine or masked
-				}						by rextlization; a few feld x	tls visible at beginning of
										unit - perhaps an ash tuff Ia	yer? - more of previous rock
-										after it, no contacts preserv	ed.
			_	<u> </u>						<u> </u>	
	}			i	ļ					- Core tending to be less b	locky; broken, rounded
						[sections more prevalent.	
				ļ	-	}i					
		·		[£		 		(87.5 to 87.65 m); fine grain	rock with ppy on both sides;
			· · · ·	} 	ļ					somewhat blotchy appearance d	ue to qtz alt.; 2 to 3% py,
					ļ		u 	Į		suspect flow contact (no flow	brxx though).
90.53	121.4	Andesitic	Med. to	V. fine	Veining	Otz	Сру	50-100		Andesitic ash to fine xtl tuf	f occasional xtl-lithic tuff:
30.33	141.4	Tuff	Dk. Grey	<u> </u>	Alt.	Calcite	<u>P</u> J			ppy texture disappears, rock	
			Green to		<u> </u>	Chlorite	·	<u> </u>	 	homogeneous, more altered; ra	
			Brownish			Sericite		}		minor epidote remains; gtz-st	
			Grey		· -	aer rorte	-	}		intensity; more calcareous th	······································
	• -						· · · · ·	<u> </u>		· · · · · · · · · · · · · · · · · · ·	s; colour varies from a medium
					1					dark grey green to a brownish	

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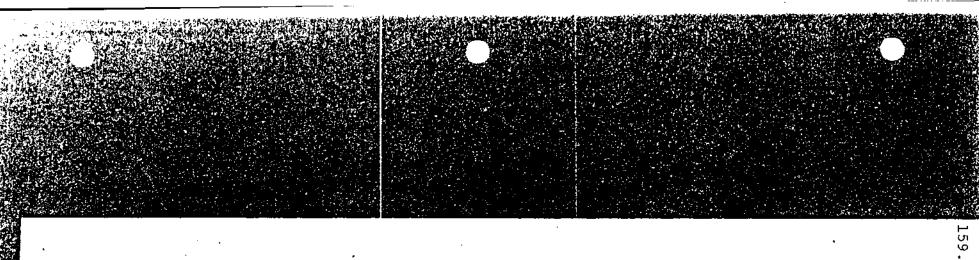
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\$s₅	ELCO	EXPLORATION WESTERN CANA				ÜR			LD	G	HOLE NO KL-18
INTER	VAL				DESC	RIPTION	{ {			STRUCTURE	REMARXS
FROM	10	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
	 			ļ						magnetic (slightly up to occe	sionally strongly).
(90.53	91.29)	<u> </u>	Light to	¦				<u> </u>		Contact zone - broken core, c	nly 80% recovery; quite
			Med. Grey]	·	calcareous; rock too broken t	o see good contact but must
•			Green			-			. 	be in this zone somewhere.	
(91.29	96.9)	Andesitic Xtl	Med. to	V. fine	Veining	Qtz	Сру	50-100		Fine grain andesitic xtl tuff	, medium dark grey-green; 10%
		Tuff	Dk. Grey	to fine	Alt.	Calcite		ļ		feld xtls up to 1 mm, rest ve	ry fine grain feld and mafic
			Green			Sericite		·····		crystals;	
			-			Chlorite		}	1	- intensity of qtz stringer	s and alt. increases down-
									[wards (gets to moderate i	ntensity); weak, to occasion-
		·								ally moderate over a few	cm, calcite stringers.
		·							-	- Rock fairly magnetic due	to diss. magnetite and rare
			<u> </u>							MGT stringers.	
				<u> </u>						- A few fractures and up to	4 mm wide zones of abundant
		l								py and up to 5% cpy (i.e.	at 91.4 m); overall: py
										1 to 2%, cpy minor; mino	r hematite staining on fract-
								{ 	ļ 	ures.	
·									Qtz vein	At 96.65 m get a 5mm qtg vein	with 5% cpy at 45° to C.A.
			ļ						45 ⁰		
(96.9	98.95)	Andesite	Light	Fine	Alt.	Qtz				Brownish grey fine grain xtl	tuff with occasional dark
	_	Xtl-Lithic Tuff	Brownish		Veining	Carbonat	e			green mafic lapilli up to 1 c	m long; once again unknown
_			Grey	inal		Sericite		<u>.</u>		if colour change due to origi	nal compositional difference
	. <u>-</u>		- 	Lapilli)		Chlorite				or to later alt.; moderate in	
			 							stringers; some with pale Ø-E still minor hematite staining opy trace.	weathering; slightly magnetic along fractures; by (1%;

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NO. KL-18	
REMARXS ION, TYPE, AGE REL	AŤ

\$s	ELCO	EXPLORATION WESTERN CANAL				DR	ILL		LÖ	G	ROLE NO
INTER	YAL .]		0 5 5 0	RIPTION	+			STRUCTURE	REMARKS
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES	L with	(FRACTURES, FAULTS, FOLDING, BEDDING, EIC)	MINERALIZATION, TYPE, AGE RELATION
(97.9	98.05)	Breccia	Grey-	{	Brx					(97.9 m - 98.05 m), Highly ve	ined and brecciated rock;
			Green		Veining					greener than surrounding rock	; angular blocks up to 7 cm
						{		-		- possible fault breccia rece	mented by qtz; general align-
										ment of darker and lighter ba	nds at 30° to C.A.; py 1 to
	[]					}				2%; cpy minor.	· · · · · · · · · · · · · · · · · · ·
(98.4	98.8)	Breccia	Grey-		Brx	_			Qtz-carb	(98.4 m - 98.8 m) Similar zo	ne with a 2 cm wide qtz-carb
			Green	}	Veining			}	vein 30°	(milky white) vein with green	angular pièces up to 1 cm
										cutting the brxx and 5 cm of	gabbroic looking rock in
										centre - possibly a fault cau	sing brxx, basaltic intrusion
			Į							within; and then gtz-carb vei	ning.
										At 98.95 all rock becomes gree	ener; very mottled looking
		<u> </u>	<u> </u>	} 	 _		ļ			due to spotty qtz alt.	
			[}					Note:- from 96.62 m to 101.5	m not previously sampled.
(98.95	117.7)	Andesite Tuff	Med.	V. fine	'Blotchy	Qtz	Сру •	100-500		Fine grain andesitic tuff; med	lium; occasionally light
			Green-	to fine	Alt.	Calcite	_			grey-green; most noticeable for	eature is a blotchy to
			Grey		Veining	Chlorite				mottled texture - due to varia	able alt.;
	(<u> </u>		Magnetit	2			- moderate to strong qtz al	; weak to moderate calcite
				Í						alt.; mafics chloritized;	minor qtz and calcite
					. <u> </u>					stringers get some Ø-B we	thering of stringers till
										99.7 m; but not below;	
	{			 	·					 get a few zones with anguing 	lar clasts in more altered
				<u> </u>						matrix (i.e. 104.1 m) and	discontinuous, irregular
	l		İ	ŧ			i			altveins	

\$s∍	ELCO	EXPLORATION WESTERN CANAL				DR	i I I		LO	G	HOLE NO
14 TES	IVAL		}	<u></u>	DES	R 1 P T 101	v:			STRUCTURE	REMARKS
FROM	τo	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES		FRACTURES FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATIONS
										105.1 m 4 m carbonate vein wi	th MGT in the middle and
										chlorite selvages; cut by a c	hlorite filled fracture.
	[<u>. </u>				<u> </u>			Nagnetite in rare stringers a	nd diss. in rock; py 1%,
			3		1		1			cpy in minor amounts; rock mo	derately to occasionally
										strongly magnetic.	······································
										- Very minor epidote observ	ed; minor hematite staining
·										on fractures.	
					·}					- The amount of qtz alt. de	creases down hole while the
]					amount of calcite alt. in	creases.
					·					- Get a few spots where MGT	is > 50% of rock over a few cr
										- a bit more cpy down hold	e as well but still well
						<u> </u>				below 1%.	
(117.7	121.4)	Altered Andesit	Dk. Grey	Fine	Shearing	Calcite	Сру	100-500		Shear zone in andesitic tuff;	colour varies from light
		Tuff	Green to		Foliatio	n Qtz				grey-green with light Ø-B wear	thering calcite and qtz-carb
			Lt. Grey		Veining	Magnetit	e .			stringers to dark grey-green	of MGT-rich, less sheared
			Green		Alt.					rock of previous unit; foliat	ion 50 to 70° to C.A, in
										some zones.	
										Note:- Pyrite smeared along	foliation so it was there
		· · · · · · · · · · · · · · · · · · ·						 .		before.	
										- Strong calcite alt.; wea	k to moderate qtz alt.
										- Py 2 to 5%, cpy ~1%, loc.	ally up to 5%, >10 cm qtz
										vein at 121 m with 2% cp to bottom of zone (121.4 - Minor specular hematite	y; then abundant qtz alt. m).

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\$s	ELCO	EXPLORATION WESTERN CANAD				DR	LL		LOC	3	HOLE NO KL-18
INTE	RVAL				DESC	RIPTION				STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	PER METRE	1	FRACTURES FAULTS, FOLDING, BEDOING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
121.4	142.34	Andesitic Ash	Med.	V. fine	Mottled	Calcite	Сру	100		Andesitic ash tuff; medium gr	ey-green; mottled texture
		Tuff	Grey-	to fine	Veining	Qtz		1		due to variation in alt. and,	for composition.
	1		Green		Alt.	Chlorite		1		Very fine to fine grain; occa	sional feldspar xtls seen
· · · · ·	<u> </u>		1		1	Gypsum			1 1	but generally too fine graine	ed and altered to see original
			1			Epidote	==	1		texture.	
					1				<u>∤</u>	- Weak to moderate gtz alt.	occasionally strong over a
			[[<u> </u>	few cm, weak to moderate	calcite alt., also concen-
	<u>+</u>		{	<u> </u>	}			· · · · · ·		trated in occasional zone	s or bands.
			[.				1	<u>}</u>	- Discontinuous calcite str	ingers of moderate intensity
· · · · · · · · · · · · · · · · · · ·								1		and minor gtz stringers.	
		· <u> </u>								- Notable feature is gypsum	weining of minor, occasionall
					<u> </u>					moderate intensity - gyps	sum stringers in and. ash tuff
		· · · · · · · · · · · · · · · · · · ·	<u> </u>		[makes this probably same	unit as 137 to 163.4 m
										(end of hole) in KL-16.	
										<u> </u>	<u> </u>
			ł							- Moderately magnetic; amou	int decreases down hole.
	·							<u> </u>	<u> </u>	Somewhat - due to finely	disseminated magnetite.
	<u> </u>	·	<u> </u>	 	<u> </u>			 			
			l						<u>}</u> [- Unsplit core fractured bu	it still coherent.
			- -		<u> </u> 				╞╴╺╴┠	- To 124 m get some Ø-B v	weathering on qtz-carb alt.,
	·]		ļ - ···	1	1			1	i – i	but not below.	
		· · · · · · · · · · · · · · · · · · ·	· [ĺ	· · ·				{	- Still hematite staining of	on fractures (minor).
•	1			1	- · · · ·	-		1		- Py <1%, cpy trace.	
										Note:- 125.8 to 127.3 m not	split,
	[1		}					- fractures and stringers in	various orientations but

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Ş٩	ELCO		LURATION				DR			LO	G	HOLE NO
INTE	RVAL			1			RIPTION	4			STRUCTURE	REMARKS
FROM	то	ROCK TI	YPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
	}						 				40 to 60° to C.A. predominate	• · · · · · · · · · · · · · · · · · · ·
			•				· · ·		 		127.7 m - start getting minor	epidote stringers.
							[(130 - 130.5 m) - fine feld x	tl tuff, no good contacts
						}	1				visible.	
											132.4 m - minor cpy stringers	•
		•									By 133 m calcite alt. only we	ak, qtz alt. increasing in
])				amount, as are gtz stringers,	still only weak to moderate
	-						1				with intensity; in a few plac	es get gypsum stringers up to
											4 mm in a qtz envelope.	
						{					Note:- From 136.25 m to 142.	34 m (end of hole) not
]							previously split.	
											136.5 - a few lapilli (darker	green) up to 1 cm visible.
											(137 - 137.15 m) A chiorite	and lesser gtz zone cuts
			_								side of core; has up to 4 mm	pyritic crystal and up to
											4 mon cpy blebs.	
										Alt. veim	At 137.20 a 4 cm wide qtz-cal	cite-gypsum band cuts core
			-					_		45 ⁰	at 45°; has minor py, cpy.	······································
139	142.34										One box (last one) appears to	be missing (3.35 m of core)
											142.3 END OF HOLE.	
				ļ				· _				
				<u> </u>								
				I. İ							•	

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\$SE	LCO	EXP WEST	LOR ATION IRNI CANADA	· _ · · · ·		DF	HLL L	OG		S	ampi	e	data	
	S A	MPLE			CORE	RECOVERY	VISUAL ESTIMATES		G	EOCHEM	RESUL	тs		
NUMBER	FROM	70	TOTAL METRES	50. G+	%.	SAMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Ag (ppm)				1
871053	6.4	9.0	2.6		87	13		350	390	1.4				1
871054	9.0	12.0	3.0		97	3	,	150	216	0.7				1
871055	12.0	15.0	3.0		100	Nil		60	282	0.3				1
871056	15.0	18.0	3.0		92	8		70	344	0.3				1
871057	18.0	21.0	3.0		80	20	· · · · · · · · · · · · · · · · · · ·	65	312	0,2				1
871058	21.0	24.0	3.0		53	47		30	144	0.1				1
871059	24.0	28.8	4.8		50	50		35	136	0.1	1			
871060	28.9	30.0	1.2		100	Nil		25	185	0.2	1			1
871061	30.0	33.0	3.0	1	100	91		50	233	0.1				1
871062	33.0	36.0	3.0		100			55	274	0.2				1
871063	36.0	39.0	3.0		100	u u		140	505	0,5		-	1	1
871064	39.0	42.0	3.0		100			80	524	0.5				1
871065	42.0	45.0	3.0		100	0		170	174	1.6				1
871066	45.0	48.7	3.3		100	18		5	71	0.2				1
871067	48.7	51.0	3.0		100	41	Previously split	165	303	1.5			-	1
871068	51.0	54.0	3.0		100	91	‡J 14	40	83	0.1				
871069	54.0	57.0	3.0		100	71	4 a	50	521	0.4				
871070	57.0	60.0	3.0		100	n	49 az	45	145	0.4		••		
871071	60.0	63.0	3.0	[100	u	0 u	50	179	1.4				1
871072	63.0	65.0	3.0		63	37	14 41	90	264	0.4				
871073	66.0	69.0	3.0		100	N11	*1 *1	40	269	0.2				
871074	69.0	72.0	3.0		100		0 н	120	1298	0.9				
871075	72.0	75.0	3.0		100	11	40 50	45	268	0.2		••		1
871076	75.0	76.6	1.6		100	19	\$1 (r	175	1513	1.2				1
871077	76.6	78.0	1.4		100	*	Unsplit	40	120	.0.1				
871078	78.0	81.0	3.0		100	n	14	55	253	0.2				

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SELCO EXPLOR ATION DRILL LOG sample data WESTERN CANADA CORE RECOVERY GEOCHEM SAMPLE RESULTS VISUAL ESTIMATES TOTAL Au (ppb) Cu (ppm) Ag (ppm) NUMBER FROM то Sp Gr *. AMT. LOST (% ORE MINERALS) 871079 81.30 84.00 2.70 61 19 Previously split 60 259 0.1 871080 87.00 93 7 . 21 84.00 3.00 40 222 0.1 48 871081 87.00 87.90 0.90 100 Nil ... 55 456 0.2 ** 871082 87.90 2.10 100 90.00 Previously unsplit 175 1569 0.9 *1 ... 871083 90.00 93.45 3.45 72 28 370 1314 0,8 93.45 96.62 3.17 94 871084 6 Previously split 630 2071 1.4 14 871085 96.62 99.10 2.48 100 NİI 70 388 0.4 871086 99.10 93.00 2.90 88 12 Previously unsplit 60 623 0.6 871087 93.00 96.14 100 Nil 0 3.14 50 348 0.3 ... 871088 136.25 2.43 11 +1 138.68 100 285 1093 0.6 END OF HOLE KL-18 ٠

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DRILL HOLE NO. ____ KL-19

\$s	ELCO	EXPLORATION WESTERN CANAL				DR	LL		LO	G		HOLE NO KL-19
RILLING CO),	LOCATION SKET	СН	DEPT	н о	TESTS	AZIMUTI	H DAT	E STARTED:	August 27, 1981	PROJEC	
			-	COLL		- 719	1	DA,T	E COMPLETED	August 30, 1981	N. T. S.	KL1 94D/8
			•					COL	LAR ELEV.	NUQUAC 307_1301	LOCATIO	
							1	HOP	THING	245S 60+06N	-	
							1	EAS	TING:	1680W 63+02E	-	·
								AZI	MUTH	130 ⁰ T	1	
								DEP	18:	242.9 m	DATE LO	September 7, 1984
ŌLE TYPE								COR	E SIZE:	N.Q.	LOGGED	BY Hans Smit
1111	RVAL	ROCK TYPE			DESCR	IPTION				STRUCTURE		REMARKS
FROM	то	ROCK TIPE	COLOUR	G R AIN 51 <u>7</u> E	TEXTURE	ALTERATION	ORĒ MINERALS	FRACTURE	S L with C.A.	(FRACTURES, FAUL TS, FOLDING, BI	EDDING,	MINERALIZATION, TYPE, AGE RELATIONS
0	6.1	Casing								Casing		
6.1	6.25	Overburden							1	· · · ·		
						1						
6.25	128	Andesite Feld-	Med.	Med.	Рру	Qtz	Сру	100-500		Andesite feldspar porp	hyry; me	dium green-grey, medium
-		Рру	Grey-			Sericite			Fractures	grain; 40 to 50% pale	green 1	to 2 mm feld xtls in a fine
			Green			Epidote			30-400	grain medium green-gre	y matrix	and up to 5% up to 2 mm
						Chlorite			}	· · · · · · · · · · · · · · · · · · ·		stals; rare dark green
					1	Kaolinite	•			chloritized mafic incl	usions u	p to 1 cm; varaible qtz-
,					1					sericite alt. results	in light	er (and softer) zones in
					1					rock;		
_ ·					{					- very minor epidote	along fr	actures
-												zones of qtz-sericite alt.
			1		[-··-				and with minor qtz		
			1		1	[]				- traces of diss. cp	y blebs	<u> </u>
			1						1	· · · · · · · · · · · · · · · · · · ·	-	t frequently at ~30° to
		· - · · · · · · · · · · · · · · · · · ·			· · · - ·				1	(less often) 45° to		·····
_	· · · • • • • • • • • • • • • • • • • •	·····							-}			weak to strong with about 10%

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\$ SE	LCO	EXPLORATION WESTERN CANAD			DR			LO	G	HOLE NO. KL-19
INTERV	AL		1	DE 5	CRIPTION				STAUCTURE	RÉMARKS
ROM	τo	АОСК ТУРЕ	COLOUR	GRAIN TEXTUR	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION
										(in zones up to 10 cm wide;
									which are lighter grey)	
									- rock is now magnetic and	now calcareous
		·					┨		14 m Rock becoming even more	fractured, submaralial
									fractures results in 'flake	
			<u> </u>						15.85 m Very crumbled rock -	(2 mm hits) purite 3 to 4%
									fault zone; only B3% recover	
									which this occurs so may have	
							-		pyrite up to 2% of rock.	
									(19.2 to 20.42 m) Only 40% re	ecover; rounded pebbly core;
								• • •	some is quite hard and silic	· · · · · · · · · · · · · · · · · · ·
									crumbly core on both sides m	
		Andesite		Mottled					20 m A few minor chlorite str	ringers and alt. patches ove
				Alt.		•			10 cm. Variable chlorite al	lt. and qtz-sericite alt. is
									resulting in a mottled to bl	lotchy texture in core; muc
									of original texture is become	ming masked by later alt.
									-Alt. is becoming stronger as	nd even more pervasive; core
									getting even more broken (fr	rom flakes to 1 to 2 cm
			} _ [1				angular bits); pyrite also i	· · · · · · · · · · · · · · · · · · ·

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DRILL HOLE NO. _____KL-19____

24.3 m Pyrite stringers with crystalline pyrite begin to occur (weak intensity). Core recovery becoming very poor (60% in interval 24 to 32 m).

no cpy observed anymore. .Ppy texture mostly masked.

EXPLORATION DRILL SELCO LOG HOLE NO. KL-19 WESTERN CANADA DESCRIPTION STRUCTURE REMARKS INTERVAL ROCK TYPE FRACTURES L WICH TEXTURE ALTERATION MINERALS (FRACTURES, FAULTS, FOLDING, BEDDING, MINERALIZATION, TYPE, AGE RELATIONS GRAIN τо COLOUR FROM C.A. Light to Argillic (27.5)37.0) Argillic Alt. 27.5 m Getting increasing 'soapy' feel to rock; white Med. Kaolinit soft coating, crumbly qtz - argillic alt. weak for a few Grey-Green metres before (but this zone high in qtz-sericite); now pyropyllite) strong argillic alt. till 31.4 m. 30.75 m 1 cm grey qtz vein with 30% pyrite and highly sericitic selvage. (30.95 - 30.15 m) Qtz pyrite veins cut C.A. at 65⁰; Qtz-py veins 65 abundant py in surrounding rock (5%). (132 - 35m) Some improvement in recovery to 83%; seems to be still some kaolinite as well as qtz-sericite. 31.4 m Argillic alt. decrease in intensity (rock harder). 32.0 m - ?? 30 cm of rounded pebbly core - a lot probably lost. (32.48 - 33.28 m) Strong argillic alt. again. 33.6 m 10 cm of moderately calcareous rock - pyrite now ~2 to 3%. 37 m Traces of finely diss. cpy (35 - 39) better (95%) recovery.

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DRILL HOLE NO. KL-19

EXPLORATION SELCO DRILL LOG HOLE NO. KL-19 WESTERN CANADA OFSCRIPTION STRUCTURE REMARKS INTERVAL ROCK TYPE MINERALIZATION, TYPE, AGE RELATIONS TEXTURE ALTERATION ORE FRACTURES (FRACTURES, FAULTS, FOLDING, BEDDING, GRAIN COLOUR FROM то (39 - 51 m) Only 63% recovery core in small bits for most part. - By 37 m appear to be more or less out of the argillic alt, and into moderate to strong phyllic alt. (gtzser cite) rock is harder and a bit darker than the argillic intervals. - Still v. minor epidote; strong chlorite (now largely replaced by later qtz-sericite alt.). (43.9 - 44.65 m) Very silicic rock; light grey, pyrite 5 to 10%. 46 m Rock becomes a bit greener; slight increase in the amount of epidote. 100-500 Magnetic interval (weak at first, moderate at end); rock is (46.83 47.85) Magnetic Med. to Fine Alt. Qtz medium grey-green; minor epidote; less broken than core Mottled Chlorite Dark Greyfollowing (which is non-magnetic and small bits); quite Sericite Green strong qtz-chlorite alt. 47.85 m) Since about 46 m quality of core has been improving somewhat (back to flakes from small bits); next 30 cm is very small rounded pebbles again however) greyish gtz-sericite rock, possibly argillic; then more light to medium grey-green andesite with moderate to strong qtz (qtz-sericite) alt.

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DRILL HOLE NO. KL-19

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<u>ې</u> ء	ELCO	EXPLORATIO WESTERN CAN				DR	1 L L		LOC	G	HOLE NO
INTE	TAL					8 1 P T 1 O P				STRUCTURE	REMARKS
FROM	τo	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										(51 - 57 m) 95% core recover	·
			-							- Rare qtz stringers and up	to 1 cm qtz veins which are
		-								light grey and contain up	to 25% pyrite; frequently
										grade into the surrounding	g qtz altered rock with no
									i	definite boundary.	
										- Pyrite 3 to 5% of rock; s	till a few discontinuous
										pyrite stringers.	
										- Can still occasionally see	ppy texture; original rock
						1	1			is now fine grained feld-	ppy, but generally alt. masks
			1							texture.	
						{				(57 - 63 m) Recovery is only	50%; most of core is in
										flakes except (57.5 - 57.8	m) and (60.0 - 60.8 m) which
								 		are composed of rounded, pe	bbly core; to clayey white
										coatings - probably argilli	c zones in which most of the
										rock was very soft and lost	; and only silicic bits are
						1				left.	
		· · · · · · · · · · · · · · · · · · ·									
(58.6	63.2)	Magnetic	Med. to	Fine	λ1t.	Chlorite		100-500		Magnetic interval again; qtz-	chlorite alt. results in
			Dk. Grey-		Mottled	Qtz				darker colour in core, still	sericitic; v. weak epidote;
			Green			Sericite				mottled texture.	
						{					
				i					}	(63.2 - ?) 25 cm of very bro	ken, rounded core; only 42%
										recovery in 3 m interval it	is in so probably represents
<u> </u>				- · ·							rock; lighter colour; harder
		{					1		1	than magnetite section; but	probably only siliceous bits

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											· · · ·		
Ş ei	ELCO	EXPLORATION WESTERN CANA				DRI	LL		LO	G	HOLE NO, KL-19		
INTER	VAL					RIPTION		<u> </u>	.	STRUCTURE	REMARXS		
FROM	то	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES		(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELATION		
										left; rest lost.			
		· · · · · · · · · · · · · · · · · · ·		{		·				(63 to 72 m) Only 50% recover	ery - medium to medium-dark		
				<u> </u>						grey-green; flakey to pebb	ty (rounded) core; occasional		
										weakly to moderate magnetic	; lighter core more rounded;		
										strong chlorite-qtz, some	sericite in darker, more		
										angular core; rounded core	has some whitish coating -		
			_						_	may be remains of argillication	ally altered rock; 20% of roc		
										is rounded like this - but	may have 50% or so orignally		
			_					<u> </u>		with rest lost during drill	lling; pyrite 1 to 2%, but me		
			<u> </u>							is probably lost; a bit mon	ecpy in this section than		
		<u> </u>	_		}					before (still v. minor amou	ints).		
(73	75)		-							(73 - 75 m) 95% core recover	ry, rock is mostly slightly		
										magnetic chl-qtz-sericite :	ltered rock - indicating this		
			<u> </u>	<u> </u>						is more resistant rock (st	11 highly broken but very		
			-							angular).	<u></u>		
(75	84)					·		<u> </u>		(75 - 84 m) 53% recovery, ro	ock mostly same except get so		
										rounded, pabbly core which	is moderate magnetic; medium		
				-]		grey with pyrite (3%) and	epidote (4%).		
										- Epidote increasing to not	v minor amounts.		
										- Cpy has also increased an	nd is now 0.2 to 0.5%.		
(80.67	81.09)	Basalt	Med.	Fine		Chlorite				Basalt Dyke; fine grain, non-			
		Dyke	Green			Epidote				lesser epidote alt.; better (may be post-mineralization,	core recovery than rest of roo		

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SELCO		EXPLORATION WESTERN CANAL	A	DRILL LOG							HOLE NO
INTERVAL			DESCRIPTION						··· · ·	STRUCTURE	REMARXS
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	-	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
(81.68	81.28)	Basalt?	Dark	V. fine		Chlorite	Сру			Dark green v. fine grain rock	; chloritized; moderately
			Green							magnetic; trace cpy - may be	another basic dyke that
-				[doesn't have much epidote but	does have some mineralization
			<u> </u>	_						(pre mineralization).	
		Andesite			[······	┢╼──┤੶	<u>-</u> _	Afterwards back to gtz-sericite altered andesite that is	
							· · · · · · · · · · · · · · · · · · ·			slightly to moderately magnet	ic; minor pyrite stringers;
					<u>}</u>					(83.7 to 84.43) Rock is dark	grey, very siliceous; qtz-
					}					pyrite stringers common; mi	nor epidote stringers cut the
										gtz stringers; pyrite 3 to 1	5%, cpy 0.5%; rock moderate
										to strongly magnetic.	
(84	99.67)		}						• .	(84 - 99.67 m) Only 20% reco	very; rounded pebbles; weakly
										to moderate magnetic; minor	epidote; medium grey green to
										medlum grey; last 15 cm in :	interval is sand (fault zone?)
(99.67	112)	Andesite	·							33% recovery; rounded core til	11 107 m, then small chips till
										112 m; rock is medium grey-green	een; qtz-sericite and chlorite
		·····								alt.; occasionally magnetic; r	ninor epiodte; minor py and
										v. minor cpy remain (assoc. w	ith qtz commonly).
(112	121)				· · · · · · · · · · · · · · · · · · ·					Recovery 50%; more and larger	flakes; still pebbly rubble
										between; now to slightly magnet	etic; minor to moderate .
						_				epidote alt.; between 112 and	114 m get fine grain medium
		. <u> </u>		L					-	green grey andesite feld-ppy	epidote, chlorite alt.;

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SELCO		EXPLORATION WESTERN CANAC	DRILL LO					LO	G	ноле NO KI-19		
					DESC	C R I P T I O N			STRUCTURE	REMARKS		
FROM TO		ROCK TYPE	COLOUR	GRAIN SIZE		ALTERATION		FRACTURES	L with	(FRACTURES, FAULTS, FOLDING, BEDDING,	MINERALIZATION, TYPE, AGE RELAT	
					<u> </u>	Į	MALLALS		<u></u>	1% py; 0.29 to 0.5% cpy; flal	ev fracturing.	
(117.5	120.7)	Andesite Dyke				• •				(117.5 - 120.7 m) Very fine		
				} <u> </u>	[green; very hard; blocky co	ore with pieces up to 5 cm	
			<u> </u>							long; slightly megnetic - :	suspect a dyke; only 50%	
· · ·			-{							recovery in interval it is	in but lost core may be in	
_ · ·			·{							small (in box) distance be	fore this.	
				∮	<u> </u>			1				
(121	128)	·	┟╾╾╍╴┈╸					1		19% recovery; core in small ;	pebbles again; medium grey-	
			1		 	├── ──				grey and. fine grain; occasie	onally magnetic; few cpy bl	
		· · · · ·				<u> </u>				still left; minor pyrite; min	nor epidote.	
					1							
128	171.8	Andesite	Light to	V. fine	Blotchy	Chlorite	Сру	1		Andesitic ash tuff; medium to		
		Ash Tuff	Med .		Veining	Gypsum		100-500	Stringer			
		-	Green-			Epidote		{	15,40°	chlorite (pale translucent green) alt.; rock generally		
			to Light			Qtz				somewhat soft, suggesting feldspar component		
		<u> </u>	Grey			Sericite			}	is seritized; occasionally harder strong qtz-alt, zones		
			1			Calcite				mostly weak to moderate qtz alt.; abundant gypsum in		
									{	stringers and fractures; ver	y minor epidote alt.; rare	
							}			calcite alt.		
			1				}			Note:- Same unit as seen in	KL-16 and KL-10.	
										Rock is highly fractured but	has remained coherent (i.e	
										long unbroken pieces, good r	ecovery) - possibly gypsum	
}						{			}	is holding core together.		
										- Most common stringer dir		
				1		1	{	·	 	- Pyrite 2 to 3% diss. in	rock and in pyrite stringer	
1		ļ	1	1	1		}	1	1	+ some pyrite-gypsum str	ingers.	

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SELCO		EXPLORATION WESTERN CANAL	DRILL LO					LO	G	HOLE NO		
INTERVAL			DESCRIPTION							STAUCTURE	REMARKS	
FROM	70	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE	FRACTURES PER METRE	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEDOING,	MINERALIZATION, TYPE, AGE RELATION	
-, .,					†					- Rare magnetic zones.	· · · · · · · · · · · · · · · · · · ·	
			-							- Traces of diss. chalcopy:	tite within pyrite veins.	
										132.95 m; 4 cm wide magnetic	band; fair bit of epidote in	
		· · · · · · · · · · · · · · · · · · ·	-		{····-					zone.		
					·{	<u> </u>						
				· · · · - ·	·{				Py vein	136.85 m 1 cm wide vein of v	very fine pyrite cuts core a	
			-}		{	{· · · ·			45 ⁰	40° to C.A. Gypsum vein se		
										in surrounding rock.		
					-{			{	<u> </u>			
	<u> </u>		·		+	$\left\{ \cdot \cdot \cdot \cdot \right\}$		1		(138.95 - 139.31 m) Greenis	h, silicic altered rock is	
	}				{····	<u> </u> }				fractured into small angual		
	<u> </u>	 _								gypsum-pyrite-qtz stringer:	and irregular veins holdin	
						<u> </u>			}- -	the rock together.		
			- <u> </u>		{			+ • • • • •	[
		<u></u>						<u> </u>	···	139.4 m Rock is 10 to 15% p	y over 15 cm, disseminated	
						·		1		In rock with moderate qtz :		
					{·····			1		the pyrite. Rock is now 3	to 5% of total rock overall	
					- <u> </u>	<u> </u>			[higher in zones of high qt		
	 					<u>}</u> {			ţ			
	} -					{		1		(148.3 - 149.2 m) Pyrite/qt:	z vein subparallel to core	
	·}	Į				{		1			f core; vein is 50% pyrite,	
		<u></u>			1			1		20% white to grey qtz and		
					{					(154.83 - 155.18 m) Interva		
	1			{		1 !		}		a 1.5 cm white aphanitic g	ypsum vein that cuts paralle	

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DAILL HOLE NO. KL-19

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EXPLORATION DRILL SELCO LOG HOLE NO. KL-19 WESTERN CANADA OESCRIPTION INTERVAL STRUCTURE REMARKS ROCK TYPE TEXTURE ALTERATION ORE FRACTURES MINERALIZATION, TYPE, AGE RELATIONS (FRACTURES, FAULTS, FOLDING, BEDDING, GRAIN COLOUR FROM тο to core and then gets sheared and disappears at upper end; ~ 3% pyrite within the vein. - Abundant pyrite stringers (with some gypsum) below for 2 m. 160.2 m 10 cm of strong qtz alt. that has 30% pyrite. 161.5 m 1/3 of core is a piece of feld ppy, fine grain; greener than rock around it; has diss. pyrite (3%) whether it is a bit of dyke or part of a large brxx block is unknown; about 15 cm long. (163.5 - 165.1 m) Strong qtz alt.; 5 to 10% diss. pyrite (164.1 to 164.6 m has 10% gypsum). (165.1 169.0> Med. Rock becomes greener; more epidote (now weak to moderate Greyishamounts); more magnetic (occasional MGT stringers and Green magnetic bands up to 46 m wide); pyrite 2 to 3% of rock. 166.5) Get faint outlines of altered feld xtls over 20 cm -~20% of rock - possibly some xtl in ash tuff?? (169.0 | 169.72) Andesite Ash Med. Grev Greyer rock as before last interval. Tuff

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DRILL HOLE NO. ____KL-19____

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Sa	ELCO	EXPLORATION WESTERN CANAL				DR	յ Լ․ Լ․		Lΰ	G	HOLE NO. KL-19
INTER	VAL		1		0£5 (RIPTIO	N	i		STRUCTURE	REMARKS
FROM	10	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIO
(169.72	171.38)	Basalt (?)	Dark	V. fine	Alt.	Qtz			50-100	Dark green-grey rock, possibl	y a basalt; a few minor up
			Green-		Veining	Calcite			Į	to 7 mm darker fragments sugg	est a tuff; rock is chlorit
						Gypsum	}			has moderate qtz alt. with d	iscontinuous qtz stringers
]			Chlorite				and minor veining; minor to m	oderate calcite alt. and
										calcite stringer; notable fea	ture are 1 to 6 mm subangu
							,			to rounded creamy white blebs	which are composed of qtz
			1	1]				and sometimes some softer min	eral (sericite?) - suspect
										that these are altered feldsp	ar xtls; make up 5% of roc
			1]	1				[in Interval.	
										~ Could be that this is a fe	ld-ppy dyke and that darke
					1					'fragments' are poorly formed	mafic xtls.
										- In first half of the inter	val fractures have calcare
					1	{				coatings with 2 mm reddish br	own spots (soft) - unknown
			L			}				cause, possibly from oxide of	some sort?
		·		[{		<u> </u>			- Minor gypsum in fractures	•
) ·	}		}				
(171.38	171.8)			l	Alt.	Gypsum				At bottom of last interval ge	t 40 cm of gypsum-pyrite-q
			[Qtz				layered in zone, but highly v	ariable layering; bottom 5
										is mostly gtz and original ro	ck; top part mostly gypsu
										and pyrite - fault zone?	
				[<u> </u>]	
171.8	182.16	Andesite Xtl	Medium	Pine	Alt.	Qtz	Сру	100-500		Andesite xtl tuff; medium gre	yish-green colour; varies
(Tuff	Greyish		Veining	chlorite				from fine grain to fine grain	with up to 3 mm 'phenocry
			Green		Mottled	Gypsum				moderate epidote alt. and str	ingers; occasional qtz
		 			<u> </u>	Epidote				stringers (usually with pyri	te) and occasional calcite
		<u> </u>	1		Įi	Calcite				stringers; minor - to moderat	e gypsum in stringers and a

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DRILL HOLE NO. ____ KL-19

\$s	ELCO	EXPLORATIO WESTERN CANA				DR	LL	·	LO	G	HOLE NO KL-19
INTE	RVAL .				DESC	RIPTION		·	<u> </u>	STRUCTURE	REMARKS
FROM	10	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEODING,	MINERALIZATION, TYPE, AGE RELATIONS
								T		few brecciated zones; about 3	O% of rock is weakly to
			1							moderately magnetic due to fi	nely diss. MGT and rare MGT in
							-			stringers; traces of cpy in a	few places (i.e. 174.8 m).
		· · ·			1					Note:- Rock is very variable	in this interval due to alt.
										and variation in phenocrysts;	phenocrysts are generally
										<2 mm, rarely up to 3 mm, ver	y pale to light green -
										altered feldspar; about 40% o	f the rock in the interval
					<u> </u>	1				has these phenocrysts in amount	ats from 20 to 40%; no sharp
									1	contact between parts with phe	enocrysts usually anhedral
										and often not very distinct.	
	· · · · ·		<u> </u>]	L		
					<u> </u>				Fault	173.0 4 cm wide zone with bro	ecciated rock that are :
									Brx 55 ⁰	cemented together with gypsum	and lesser epidote; just
								 		before this get 6 cm of core t	that is composed 50% gypsum.
187.16	184.9	Feld Ppy	Med.	Med.	Рру	Sericite		25-50		Feld ppy dyke; very pale green	n feld crystals up to 6 mm
·		Dyke	Grey			Chlorite			/	in a fine grained medium grey	matrix; phenocrysts make up
						Calcite				30 to 40% of the rock; they a:	ce mostly subhedral.
										- First 50 cm has 5 to 10%	mafic phenocrysts (augite7)
										up to 2 mm, but these inc:	rease afterwards; top 10 cm
. —								[and bottom 20 cm have few	phenocrysts - contact zones
										(may be partly altered hos	st rock making up these zones
										that now is greyer due to	contact effects.
										- Feldspars are partly seri	tized; mafics are chloritized;
					·					moderate intensity of qtz	stringers in fractures; rock
	i						-		ĺ	weakly magnetic; minor py	rite diss. in rock; stringers

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DRILL HOLE NO. KL-19

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S si	ELCO	EXPLORATION WESTERN CANAD			<u></u>	DR			LO	G	HOLE NO. KL-19
INTER	VAL		1		DESC	RIPTION	4			STRUCTURE	REMARKS
FROM	70	ROCK TYPE	COLOUR	G RAIN SIZE	TEXTURE	ALTERATION		FRACTURES PER METRE	Į	(FRACTURES, FAULTS, FOLDING, BEODING,	MINERALIZATION, TYPE, AGE RELAT
		• · ·							<u>† </u>	vary in orientation but	calcite ones are generally
						· ·				······································	um filled fractures are 45
				i			· ·		 	70° to C.A.	
							j				
184.9	215.6	Andesitic Tuff	Med.	V. fine	Mottled	Qtz	Сру	50-100	1	Andesitic tuff; ash to crysta	al; medium grey-green; mott
			Grey-	to fine	Stringer	• Calcite				texture; mostly very fine gra	ained but can sometimes dis
			Green		Alt.	Chlorite				tinguish feld xtls - some xt	1 tuff may be too altered t
						Epidote				see xtls anymore.	
			<u>}</u>			Gypsum				- Weak to moderate calcite	stringers and occasional
			}							weak calcite alt.; minor	greyish qtz (tpyrite)
										stringers; weak to modera	ate epidote stringers and a
										- About 40% of rock is weal	kly to moderately magnetic.
			} 							- Variable qtz alt., chlori	ite alt. and epidote alt.
		·								results in mottled and b	lotchy texture.
		·								- Minor gypsum on fracture	surfaces and rare thicker,
		· · · · · · · · · · · · · · · · · · ·								non-continuous bits; roc)	k much less fractured than
										earlier and. as h tuff ur	nit - may account for less
										gypsum as gypsum appears	to be later filling of
										fractures.	
										- Py 1% diss. in rock and i	in stringer with qtz and wi
										calcite.	
		·								- Cpy 0.2 to 0.5% diss. in	rock and in stringers asso
									· · · · · ·	with calcite.	
·							· · ·			190.8 m) Rest of core has be	en previously split and
		i	L	_]					sampled.	

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DRILL HOLE NO. ____KL-19

Ss	ELCO	EXPLORATION WESTERN CANADA	1			DR	ILL		LD	G	HOLE NOKL-19
<u></u>	VAL					RIPTION				STRUCTURE	REMARXS
FROM	T0	ROCK TYPE	COLOUR	GRAIN	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES	L with C.A.	(FRACTURES, FAULTS, FOLDING, BEODING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
				/	1				Qtz-MGT	190.95 m 8 mm vein cuts core	at 50° to C.A.; gtz with
								1	vein 50°	minor py on outside; 2 mm o	f MGT with very minor cpy in
						 	· · · · ·		_	middle.	
								ļ	·	191.85 m 8 cm wide brecciated	zone with inter clast spaces
										filled with epidote, and the	en (later) gypsum; diss.
										pyrite (3%) within.	
									· · · · ·	192.5 m Clear gtz in a frac	ture parallel C.A. with ~5%
	 		·							cpy on fracture surface.	
(193.17	195.02)	Augite Ppy	Dark	Med.	Рру	Epidote		10-25		Andesitic to basaltic augite ;	ppy dyke, dark green; 50 to
		Dyke	Green			Chlorite		1	_	60% augite xtls up to 8 mm bu	t generally 1 to 2 mm in a
										very fine grain matrix; minor	diss. MGT; minor epidote alt
					Į	1				and veining, minor gtz string	ers; a few fractures have
										gypsum coatings; contacts are	2 to 3 cm, fine grained.
						<u></u>	[Otz Stringers		195.02 m) Back into the and.	tuff; rock is getting very
				1	}					mottled and blotchy; qtz al	t. is increasing; getting
					·			1		discontinuous, irregular MG	T veins (usually with some
					1			1		cpy), plus moderate but hig	hly irregular epidote alt.
]			and stringers; py 2%, cpy 1	% with qtz stringers and
					1					MGT stringers.	
					1					- Continues to be minor gyp	sum along fractures.
					<u> </u>					- Rock has become harder an	d less fractured - possibly
	l									due to higher qtz alt. an	d stringers.

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DRILL HOLE NO. KL-19

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Ş=	ELCO	EXPLORATION WESTERN CANAD		·		DR	ILL	L	ÖG	HOLE NO. KL-19
ΙΝΤΕΡ	RVAL	· · ·			DESC	RIPTION			STRUCTURE	REMARKS
FROM	TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, 8EDDING,	MINERALIZATION, TYPE, AGE RELATION
									- Most common stringer dire	ction is 50 to 75°; but
							ļ		shallower L's also found.	
					ļ	}			- Can sometimes make out re	lic feld xtls.
							[]]		200.5 m) 4 mm Qtz stringer w	ith MGT in centre cuts core
									at 75° to C.A. cpy now less	(0.5 to 1%).
									208.0 m) Can make out a few	relic augite xtls up to 3 mm
									long.	
									- Epidote alt. and stringer	s have decreased (now minor)
	 	·							qtz alt. still strong,	
				·					209.0 m) Hematite staining or	n a fracture; (does not
									persist).	
									Note:- Epidote stringers of	bserved cutting qtz stringer
									- gypsum filled fractures c	ut both.
									211.3 m) A few more fracture	s with hematite.
_ · _· ,			[· · · ·			215.6 m) End of available com	
									- unknown where 215.6 - 242	
i								<u> </u>		
								-		

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\$SE	LCO		, OR ATION RN CANADA			DR	ILL L	OG		Ş	ample	data	
·	5 A .	N P L E			CORE	RECOVÉRY	VISUAL ESTIMATES		GEA	OCHEM	RESULTS		
NUMBER	FROM	то	TOTAL METRES	Sp. Gr	%	& AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	Λg (ppm)			T
871101	6.1	9.0	2.9		100	Nil		15	93	0.2			
871102	9.0	12.0	3.0		100			10	111	0.2			
871103	12.0	15.0	3.0		85	15		5	70	0.1		-	ļ
871104	15.0	18.0	3.0		95	5		10	101	0.2		}	
871105	18.0	21.0	3.0		55	45) · · · · · · · · · · · · · · · · · · ·	5	63	0.2			
871106	21.0	24.0	3.0		71	29		5	129	0.1			
971107	24.0	27.0	3.0		42	58		5	128	0.2			}
871108	27.0	30.0	3.0		76	24		15	182	0.3			
871109	30.0	33.0	3.0		84	16		40	205	0.3		1	
871110	33.0	36.0	3.0		63	37		5	128	0.1			1
871111	36.0	39.0	3.0		83	17		45	535	0.3			1
871112	39.0	42.0	3.0		55	45		45	479	0.2			1
871113	42.0	45.0	3.0	-	63	37		80	1073	0.7			1
871114	45.0	48.0	3.0		60	40		35	524	0.1			1
871115	48.0	51.0	3.0	1	46	54		5	352	0.1			
871116	51.0	54.0	3.0	1	100	Nil		5	216	0.1	<u> </u>		1
871117	54.0	57.0	3.0		90	10		5	355	0.2			
871118	57.0	60.0	3.0	ļ	68	32		5	527	0.1			1
871119	60.0	63.0	3.0	1	32	69	· · · · · · · · · · · · · · · · · · ·	90	950	0.2			1
871120	63.0	66.0	3.0	1	39	61		75	889	0.1			1
871121	66.0	69.0	3.0	1	57	43		170	1193	0.2			
671122	69.0	72.0	3.0	1	55	45		210	1580	0.5		``	1
871123	72.70	75.0	3.0	1	82	18		490	2508	0.7			
871124	75.0	78.0	3.0	1	75	25 .		505	1577	0.0	-		
871125	78.0	81.0	3.0	1	49	51		205	726	0.8			
871126	81.0	84.0	3.0		47	53	1	230	654	0.5			

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\$ SE	LCO		OR ATION RN CANADA		•	DR		OG		S	ample	data	
	S A I	H P L E			CORE	RECOVERY	VISUAL ESTIMATES		G	EOCHEM	RESULTS		
NUMBER	FROM	ΥO	TOTAL	Sp. 6+	7.	& AMT. LOST	(% ORE MINERALS)	Au (ppb)	Cu (ppm)	yg (bbw)			1
871127	84.0	87.0	3.0		30	70		305	952	0.3			1
871128	87.0	90.0	3.0	[21	79		175	661	0.1			1
871129	90.0	93.0	3.0	}	11	89		15	587	0.2			1
871130	93.0	96.0	3.0	[16	84		490	1942	1.0			1
871131	96.0	99.0	3.0		19	81	,	190	1023	0.6			1-
871132	99.0	102.0	3.0		23	77		155	878	0.5			
871133	102.0	105.0	3.0		37	63		890	1925	1.0			1
871134	105.0	108.0	3.0		55	45	· · · · · · · · · · · · · · · · · · ·	240	2266	1.2			1-
871135	108.0	111.0	3.0		5	95		120	2109	1.2			1
871136	111.0	114.0	3.0		50	50		30	881	0.5			1
871137	114.0	117.0	3.0		45	55		60	721	0.5			1
871138	117.0	120.0	3.0		48	52		5	213	0.2			
871139	120.0	123.0	3.0		24	76		30	678	0.1			1
871140	123.0	126.0	3.0	[15	85		35	691	0.1			1
871141	126.0	129.0	3.0		35	65		25	462	0.2	· · · · · · · · · · · · · · · · · · ·		1.
871142	129.0	132.0	3.0		100	Nil		15	492	0.4	[] ·		1
871143	132.0	135.0	3.0		100	н ¹		5	579	0.2			1
871144	135.0	138.0	3.0		100	ài		5	240	0.2			-f
871145	139.0	141.0	3.0		100			5	278	0.3			1
871146	141.0	144.0	3.0	1	100	*1		5	155	0.2			1
871147	144.0	147.0	3.0		100	41		15	279	0.3			
871148	147.0	150.0	3.0		100	н		5	261	0.3			-
871149	150.0	153.0	3.0		100	15		20	187	0.1			-1
871150	153.0	156.0	3.0		100	lif		25	384	0.2			1-
871151	156.0	159.0	3.0		100			. 5	250	0.1			
871152	159.0	162.0	3.0		100	<u> </u>		20	322	0.1	}		1

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KL-19 DRUT HOLE NO.

											EOCREM	RESUL			
NUN	858	FROM	то	TOTAL	Sp. Gr	7.	ZANT. LOST	VISUAL ESTIMATES {% ORE MINERALS}	Au (ppb)	Cu (ppm)	T	<u> </u>	r	1	r;
8-	3	162.0	165.0	3.0		100	NII	·	25	271	0.2		<u>}</u>		·
871	154	165.0	168.0	3.0		100	*1	· · · · · · · · · · · · · · · · · · ·	35	319	0.2		· · ·	i	
8711	155	168.0	171.0	3.0		100	11		55	187	0.1		 		
8711	156	171.0	174.0	3.0		100	11		80	654	0.5				
8711	57	174.0	177.0	3.0	[100	\$9		45	525	0.2	[
8711	58	177.0	180.0	3.0		100	13		135	939	0.4				
8711	59	180.0	183.0	3.0		100	11		60	431	0.2	-			
8711	60	183.0	186.0	3.0		100	£1		145	132	0.7				,
_ 8711	61	186.0	189.0	3.0		100	31		150	1236	0.4		<u> </u>		
8711	62	189.0	190.8	1.8		100	13		50	586	0.2				;
	_							Rest of hole							!
								previously sampled.							
<u>]</u>							· · · · · · · · · · · · · · · · · · ·		<u> </u>]	
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PRUT HOLE NO __ KL-19

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APPENDIX 2

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GEOCHEMICAL PREPARATION AND ANALYTICAL PROCEDURES

184. ACME ANALYTICAL LABORATORIES LTD. Assaying & Trace Analysis 852 E. Harrings St., Vancouver, B.C., VEA 1R6 Telephone: 253 - 3158 GEOCHEMICAL LABORATORY METHODOLOGY - 1984 Sample Preparation Soil samples are dried at 60°C and sieved to -80 mesh. 2. Rock samples are pulverized to -100 mesh. Geochemical Analysis (AA and ICP) 0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 mL with demineralized water. Extracted metals are determined by : A. Atomic Absorption (AA) Ag*, 8i*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, Y, Zn (* denotes with background correction.) 8. Inductively Coupled Argon Plasma (ICP) Ag, Al, As, Au, 8, 8a, 8i, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mo, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, Y, W, Zn. Geochemical Analysis for Au* 10.0 gram samples that have been ignited overnite at 600°C are digested with .st dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Katone. Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = S ppb direct AA and 1 ppb graphite AA.) Geochemical Analysis for Au**, Pd, Pt, Rh 10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads. The silver beads are dissolved and Au, Pd, Pt and Rh are determined in the solution by graphite furnace Atomic Absorption. r Geochemical Analysis for As and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) prop by Inductively Coupled Argon Plasma (ICP). Geochemical Analysis for Barium les are die 0.1 gram samples are digested with hot NaOH and EDTA solution, and diluted to 10 ml. say is as Ba is determined in the solution by Atomic Absorption or HCP. Geochemical Analysis for Tungsten ... J the fusions are leached with 20 ml water. W in the solution determined by ICP with a detection of 1 ppm.

ACME ANALYTICAL LABORATORIES LTD. Assaying & Trace Analysis 252 E. Harrings Sc., Vancouver, S.C., V6A 1R6 Telephone; 253-3158

Geochemical Analysis for Uranium

0.5 gram samples are digested with hot aqua regia and diluted to 10 ml.

Aliquots of the acid extract are solvent extracted using a salting agent and aliquots of the solvent extract are fused with NaF, K_2CO_3 and Na_2CO_3 flux in a platinum dish.

The fluorescence of the pellet is determined on the Jarrel Ash Fluorometer. Geochemical Analysis for Fluorine

0.25 gram samples are fused with sodium hydroxide and leached with 10 ml water. The solution is neutralized, buffered, adjusted to pH 7.8 and diluted to 100 ml.

Fluorine is determined by Specific Ion Electrode using an Orion Model 404 meter.

-Geochemical Analysis for Tin

1.0 gram samples are fused with ammonium iodide in a test tube. The sublimed iodine is leached with dilute hydrochloric acid.

The solution is extracted with MI8K and tin is determined in the extract by Atomic Absorption.

Geochemical Analysis for Chromium

0.1 gram samples are fused with Na_2O_2 . The melt is leached with HCl and analysed by AA or ICP.

Geochemical Analysis for Hg

0.5 gram samples is digested with aqua regia and diluted with 20% HCl.

Hg in the solution is determined by cold vapour AA using a F & J Scientific Hg assembly. An aliquot of the extract is added to a stannous chloride / hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

g dra Geochemical Analysis for Ga & Ge 🖄

0.5 gram samples are digested with hot aqua regia with HF in pressure bombs.

Geochemical Analysis for Tl (Thallium)

extract by graphite AA.

Seochemical Analysis for Te (Tellurium)

0.5 gram samples are digested with hot aqua regia. The Te extracted in MIBK is analysed by AA graphite furnace.

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APPENDIX 3

LIST OF ANALYTICAL DATA

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10114 $\mathbb{R}\mathbb{P}$ ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. VAA 184 PHONE 2 z51-1b11 GEOCHEMICAL ICP ANALYSIS OCT 111984 . SOO GRAK SAMPLE IS DIGESTED WITH 3HL 3-1-3 HCL-HKO3-H20 AT 95 DEG. C FOR DNE HOUR AND IS DILUTED TO ID NL WITH WATER. THIS LEACH IS PARTIAL FOR MR.FE. CA.P.CR. NO. 84, 11. B. AL. HA.K.N. SI. ZR. CE. SN. Y. NB AND TA. AU DETECTION LIMIT BY ICP II 3 PEELCO - BP RESOURCES SAMPLE TYPE: P1-SOILS P2-3 ROCKS P4-11 DRILL CORES - AUM ANALYSIS BY AA FROM 10 GRAM SAMPLE. VANDOUVER, B.C. ASSAYER, A Stell, DEAN TOYE. CENTIFIED B.C. ASSAYER DATE RECEIVED: OUT I THE DATE REPORT MAILED: Soils SELCO - A DIVISION OF BP PROJECT # 560 FILE # 84-2847 PAGE 1 SAMPLET 50 Cυ AG XL C0 HN. FE ľΚ PR 18 AS - 11 AU SR C D 58 81 ¥. CA LA CR ЖG X AUL BÁ T AL PPM PPN 298 РРЛ PPX P?N PPN PPK ĩ PPN <u></u>ΡΡΜ PPX PPK PPK 292 PPN PPN PPN PPN PPX 2 1 1 PPH T PPN T 7 I PPN PPB 5084560 873033 5 155 70 .5 11 425 0.12 -19 9 2 24 53 5 2 7 .14 .13 . 25 . 90 6B .09 4 1.73 .01 2 55 . 07 3084560 873034 725 4.75 5 185 70 15 13 1.1 .1 ٨ 5 ND 2 27 ŧ 2 2 64 .07 .15 30 1.05 118 . 10 . 5 2.13 .01 2 85 .13

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ROCK CHIP

8184560 873036

8184560 873037

SID C/AU-0.5

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PAGE 2 SELCO - A DIVISION OF BP FROJECT # 550 FILE # 84-2847 SAMPLES 28 **#6** C0 MO CU FB N RR FE AS U AU 18 SR £D SB £5 AUL 81 ų. 2 ŁA ĈŔ 85 26 11 3 AL XA £ ¥ : PEN PFN FPN 853 25H FPN 25M FFM 264 ppn FPN 633 PPK PPM 9FN PPH PFX : 2 PPN P₽N 1 PEN 1 PPN 1 2 1 PPN FPB 8184580 872001 2 231 7 48.6 ł 3 123 4.27 5 5 30 10 12 23 .13 .02 .12 58 .03 2 .31 .03 .11 167 36600 Ł 2 2 2 -5 1 2 8184550 872002 Т 11 4 St 1.3 b 10 743 3.13 8 5 ĸъ 2 35 3 52 .70 .09 65 1 2 8 1.36 .18 2 2.22 .17 1.02 à 750 19 58 6.6 73 28 1077 3.82 38 17 7 39 50 15 510 C ł0 -128 17 22 á0 .42 .15 38 61 .89 180 .08 35 1.72 .06 .13 17 . 2 82 5.3 2 101 J.8B 7 5 8184550 970001 1 11 3 3 2 4 1. 2 2 10 .03 .03 \$. 37 82 4 . 18 13 3800 3 .02 .01 .11 8184560 873002 2 51 1 45 1,1 \$2 10 542 3.71 15 5 ЖØ 2 łá 2 35 .72 .15 3 18 .07 375 Т 2 1.40 62 4 1.85 .12 .08 4 8184550 873003 1 57 9 54 .1 -5 B 130 4.01 10 -5 ΗÔ -2 69 1 - 2 2 35 .51 .17 2 8 1.24 56 .10 2 1.55 .09 .08 2 5 B184560 873004 39 31 .2 304 3.90 S .92 2 ó ó 9 RÐ 2 31 2 2 41 .26 .12 42 .03 .08 .04 1 т . 13 2 1.44 2 5 8184560 873005 2 15 5 3 .2 2 3 25 1.81 51 S ЯD 2 14 1 2 2 .05 .08 3 .10 56 .01 3.41 .05 .09 2 b 1 5 6184560 873006 2 18 5 23 3 328 2.38 6 5 ND 16 2 2 20 .12 .05 .59 35 .02 .1 4 2 1 3 3 2 .82 .09 2 .04 5 25 8184560 873007 38 207 2 3 9 .1 9 4 4.40 5 NØ 2 47 1 2 2 26 .08 .08 2 23 .98 69 .03 4 1.0B .05 .07 2 5 8184560 873008 3 7á 3 18 .2 19 ٤ 224 3.18 NO 18 2 35 .07 .06 27 . 97 39 9 5 3 2 3 . Őł 4 1.22 .04 .10 2 - 5 8184560 873009 22 1.99 1 A 70 .2 44 15 930 3.25 2 \$ NÐ 2 69 1 2 2 79 1.07 .15 -2 58 122 . 16 2 2.12 . 97 .75 2 35 8184560 873010 55 1 25 3 .2 36 12 967 3.01 12 \$ NÐ 23 3 2 63 1.03 .16 46 1.47 68 4 1.72 . 69 2 35 2 1 3 .10 .08 67 8184560 873011 t 135 .3 25 12 833 3.06 4 5 XO 49 2 2 75 3 1 2 L .79 .17 47 1.62 184 .15 2 1.92 , 08 , 62 2 5 8184560 873012 1 63 4 76 .1 21 15 615 3.20 2 5 NĎ 2 51 2 2 86 .80 .14 212 4 1.78 .07 . 38 2 5 4 51 1.49 .19 1 8184550 873013 24 71 .1 14 12 583 3.08 50 7 .75 - t 5 2 5 XD 2 1 3 73 .15 4 95 1.70 349 .20 2 1.70 .05 . 19 2 5 8184550 873014 757 3.47 1 21 ŧ 78 1 67 15 3 5 HÐ 2 78 1 2 2 58 .76 .20 57 2.47 147 .15 2 2.36 .39 2 5 4 .06 8184560 873015 3 L 84 f 61 .1 47 15 732 3.46 5 ЯQ 2 45 1 2 2 55 .72 .17 2 70 7.26 159 , 15 2 2.21 .05 . 18 2 5 8184560 873016 54 5 55 .1 48 12 595 3.02 7 5 НD 34 2 5 ٤ 2 1 2 54 .61 .16 2 66 1.90 1B4 .14 2 2.01 .07 .43 2 B184560 873017 29 17 7 5 174 4.27 10 1 9 .1 5 ЖĎ 1 Ł Т 2 Z 15 .10 .10 . 8 . 19 38 .07 2 .65 .01 .13 2 5 8184560 873018 22 1 LQ 29 ... 19 2 370 3.77 .03 2 7 5 HØ 2 * 1 2 1 38 .11 3 42 1.24 30 .65 3 1.25 .01 .10 -5 8184560 873019 1 95 2 53 .3 11 12 B14 4.53 7 5 MØ 2 76 1 2 2 99 . 48 . 08 2 19 1.84 85 .19 2 2.07 .06 .57 2 5 B184560 873020 53 12 11 603 3.42 9 5 NØ. 29 δl ŧ. .1 2 7 94 . 60 .07 183 1 1 2 3 13 1.42 .18 4 1.75 .10 .56 2 5 8184550 873021 1 98 4 -54 .2 14 13 **383 3.45** 8 5 NØ 2 38 1 2 2 102 . 64 .08 2 24 1.47 214 .19 2 1.91 .14 .B1 2 5 8184560 873022 671 3.68 80 6 49 10 15 6 5 34 88 .B2 2 1 .1 RÞ 2 1 3 2 .10 9 1.50 184 .19 2 2.33 .20 .80 2 5 8184560 873023 38 1 4 -35 .1 9 10 487 2.40 9 -5 22 2 2 67 .74 .08 2 16 1.08 87 . 18 3 1.44 .09 .31 2 -5 ΗЛ 2 5 39 8184560 873024 42 t. 18 12 534 3.50 3 5 32 2 96 .57 .08 1 .1 нD 2 Т 2 2 33 1.50 120 .18 2 1.65 .07 .45 5 - 5 8184560 873025 1 111 3 39 .1 11 14 575 3.66 9 5 KD 2 45 1 1 2 108 . 52 .09 2 25 1.48 78 .17 4 1.59 .05 .23 2 5 8184560 873026 19B 70 13 3 198 2.55 10 5 ЮK 10 25 B 1.1 4 2 2 2 .03 .01 3 .40 706 . 35 .02 2 1 1 .03 5 . 02 375 30 8184560 873027 £. 30 13 88 .2 4 950 1.31 37 5 ND 2 217 2 2 2 37 23,19 .13 4 25 . 39 45 .02 3 . 50 .01 .08 2 -5 8184560 873028 2 88 44 .3 26 16 413 3.67 60 2.33 7 9 5 XD 2 99 2 2 .09 1 44 .85 65 .17 4 2.23 . 28 . 05 2 -5 8184530 873029 77 15 176 . t 10 10 684 3.45 12 5 42 2 2 42 .5t .18 .12 5 1.51 1 KD 3 1 8 9 1.19 57 .03 .09 - 2 5 **{5** RE 8184560 873015 Т 38 60 47 15 723 3.39 5 5 2 2 55 .13 .17 159 4 2.23 3 .1 нD L 2 3 65 2.21 .16 .07 . 18 3 5 8184560 873030 Ь 327 10 219 1.6 10 4 551 5.40 11 5 NĎ 3 12 ĩ 2 2 39 ,25 .12 4 22 1.51 38 .09 4 5.94 .02 .12 2 375 8184560 873031 2 25 42 .5 5 190 3.17 11 5 2 3 2 1 7 .13 .08 23 5 -5 ŧD 3 .10 .01 3 .24 .02 . 09 2 -55 t 5 8184550 873032 115 70 1.40 12 9 5 3 ЖD 3 15 . 03 2 25 1 .1 -5 2 .01 .07 2 - 7 .10 .01 2 . 19 .07 - 6 - 2 1 8 8184560 873035 7 27 1.95 10 4 7 3 1.9 3 ą. 5 1XD .08 .04 28 2 4 1 2 3 -5 .0. - 3 t .01 3 .21 .02 .15 2 435

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SELCO - A DIVISION OF BP PROJECT # 550 P'AGE 🛛 😳 FILE # 84-2847 SARFLEI HЗ េរ FB 711 AБ NI 60 ЦN ₽E AG. U AU TR SE CD SB 81 - CA CR tua x ¥ ₽ Lâ MG 86 11 AL. NA ĸ 6 PEN PPN PPN PFN PPN FPM 2 PPX FPN PPN **9**98 P26 PEN FEN PFX PPM PPB PPN . : 888 PPA : PPK 2 PPN . : 2 рри рев STD C 18 59 40 122 8.5 69 27 1105 3,82 39 17 7 35 49 11 15 19 57 .44 .14 39 57 .88 183 .07 37 1.61 .07 18 -14 . 8184550 873038 3 25 5 73 .2 3 400 4,83 8 5 80 2 Ż 56 2 9 L 2 .07 88 5 .09 10 9 1.42 .13 3 1.28 . 34 .05 2 8:84580 873039 2 76 10 70 .2 5 3 515.4.88 5 5 HD 2 11 1 2 2 55 .12 .09 8 7 1.44 30 .11 2 1.57 .05 .03 2 S 3 2 .35 B1B4560 873040 2 35 а 87 .1 5 ŧ. 719 5.07 5 ЮK 15 1 1 2 2 44 . 10 12 10 1.49 71 .67 2 1.64 .08 .07 2 5 4 2 8164560 B73041 2 29 10 B2 .1 914 5.07 5 5 ND 8 2 2 40 .14 5 1 . 10 10 \$ 1.85 67 .03 2 1.89 .04 .07 2 5 8184560 373042 54 12 67 .3 481 1.10 6 4 5 5 ND 2 2 2 21 .13 .08 1.27 . 99 2 1.17 5 4 1 -7 44 .01 .09 2 8184560 873043 19 B 96 781 ,09 1 .4 3 2 4.14 8 6 ND 2 Ł 1 2 2 45 .12 4 6 1,78 34 .17 2 1.58 .03 .09 2 -5 7 83 553 6.33 5 ХĐ 2 8194550 873044 ı 52 .1 4 2 4 13 1 Z 2 60 .13 . 09 4 7 1.84 19 .06 2 2.13 30. 2 25 .04 8184560 873045 1 39 9 93 .1 3 710 5.84 é 5 НĎ 2 14 2 3 1 2 έ0 .14 .08 ŧ. 3 1.84 20 .09 2 2.08 .06 .03 2 15 2 8184580 873045 1 07 12 120 3 802 6.26 .1 ٩. - 3 5 XĐ 2 12 1 2 52 .11 .08 3 11 1.63 21 .15 2 1.93 .01 .03 2 -15 8184560 873047 1 3785 5 108 .1 6 11 868 3.44 5 ЯÐ 2 74 28 1.52 .15 3 1 2 2 11 6 .97 111 .02 3 1.68 .06 .07 2 15 8184560 873048 1 322 6 1279 .4 35 17 2685 4.16 5 ND 2 131 2 2 .05 85 2.45

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SELCO - A DIVISION OF BP PROJECT # 550 FILE # 84-2847

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SELCO - A DIVISION OF BP PROJECT # 530 FILE # 84-2847

SAMPLE#	MO PPH	CU PFM	РБ РРН	in Ppn	86 PPN	K1 PFK	CO PPM	mn Pfm	FE I	AS PPN	u Pf1	AU Pfri	ኘት የቶቶ	SR PPM	CD FPN	59 PP7.	81 PPN	7 795	CA I	P I	LA PPM	CR PPN	N5 1	BA PFM	11 1	B PP3	AL T	KA 2	K 1	W P£M	AU1 Pfb
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#### SELCO - A DIVISION OF BP PROJECT # 560 FILE # 84-2847

SAMPLE:	KO PPK	CU FPM	89 K79	ln Pfk	ag Ppm	NI FFX	00 к99	NH FPN	FE Z	AS PFN	U 267	AU PPH	тн Ргл	SR PPM	CD FPN	55 PPH	BI FPM	V FPN	CA I	f I	LA PPN	90 1995	X6 2	FA PPN	זז ג	B PFM	AL T	84 2	к 1	N PPM	AU: PPB
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8484560 871196 8484560 871197 8484560 871199 8484560 871199 8484560 871200	1 2 2 3	32 57 58 78 74	10 17 8 7 7	48 68 62 65 56	.1 .1 .1 .1	729 281 53 70 56	18 25 16 17 15	908 954 991	2.80 1.29 1.99 1.99 1.80 1.13	4 2 7 4 6	5 5 5 5	HD ND ND ND ND	2 2 2 2 2 2	224 288 80 44 58	5 1 1 1 1	3 2 2 2 2	5 4 3 2	80 84 101	4.49 7.11 4.57 3.12 3.60	.18 .19 .04 .04	8 4 5 4 4	377 467 137 187 108	3,80 6,52 3,43 3,59 3,11	220 613 178 56 49	.01 .01 .01 .10 .12	517 14 24	2.02 1.79 2.50 3.34 2.69	.02 .01 .02 .02 .01	.10 .01 .04 .01 .03	2 2 2 2 2 2	5 5 5 5
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#### APPENDIX 4

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#### STATEMENT OF COSTS

## KLI 84-1 ASSESSMENT REPORT

#### STATEMENT OF COSTS

ANALYTICAL COSTS	
275 Drill core samples @ \$13.10 49 Rock chip samples @ \$13.10 2 Soil samples @ \$10.95	\$ 3,602.50 641.90 21.90
326 Samples	\$ 4,266.30
Data Processing @ \$2.00/sample	652.00
Interpretation, S.J. Hoffman, Geochemist (1 day)	300.00
TOTAL ANALYTICAL COSTS	\$5,218.30
FIELD LABOUR COSTS	
Project Geologist -4 days @ \$141.13 Geologist -32 days @ \$89.24 Geologist -8 days @ \$99.00 Field Assistant -32 days @ \$55.17 Geological Assistant -3 days @ \$55.00 Supervisory Visit - 1 day @ \$200.00	\$ 564.52 2,855.68 792.00 1,765.44 165.00 200.00
TOTAL FIELD LABOUR	\$6,342.64
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TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day	\$6,342.64
TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day 2 men, 28 days @ \$ 50/man/day	\$6,342.64 \$800.00 2,800.00
TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day 2 men, 28 days @ \$ 50/man/day TOTAL CAMP COSTS	\$6,342.64 \$800.00 2,800.00
TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day 2 men, 28 days @ \$ 50/man/day TOTAL CAMP COSTS AIR CHARTERS Helicopter 13.5 hours @ \$486.00	\$6,342.64 \$ 800.00 <u>2,800.00</u> \$3,600.00 \$6,561.00
TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day 2 men, 28 days @ \$ 50/man/day TOTAL CAMP COSTS AIR CHARTERS Helicopter 13.5 hours @ \$486.00 Fixed Wing (Share of 3 flights)	\$6,342.64 \$ 800.00 <u>2,800.00</u> \$3,600.00 \$6,561.00 <u>1,000.00</u>
TOTAL FIELD LABOUR CAMP COSTS 4 men, 4 days @ \$50/man/day 2 men, 28 days @ \$ 50/man/day TOTAL CAMP COSTS AIR CHARTERS Helicopter 13.5 hours @ \$486.00 Fixed Wing (Share of 3 flights) TOTAL AIR CHARGES	\$6,342.64 \$ 800.00 <u>2,800.00</u> \$3,600.00 \$6,561.00 <u>1,000.00</u>

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TRANSPORTATION Truck rental - 1 month @ \$900 Haulage (camp mob., demob.) Fuel		
	300.00	\$1,900.00
MAPS AND REPORT PREPARATION		
Project Geologist -5 days @ \$141.13 Drafting -15 hours @ \$18.00 Materials	\$ 705.65 270.00 100.00	
TOTAL		\$ 1,075.65
TOTAL ASSESSMENT COSTS		\$26,592.59

	AF	PORTIONN	AENT OF COSTS	
CLAIM	RECORD NOS.	UNITS	APPLIED TO EACH CLA	IM
KLI 1-8	89985-89992	8	l YR. @ \$200.00	\$1,600.00
KLI 11-15	89995-89999	5	l YR. @ \$200.00	1,000.00
KLI 17,19	90001,90003	2	I YR. @ \$200.00	400.00
CHRIS 1-2	4855-4856	40	2 YRS. @ \$100.00	8,000.00
CHRIS 3-5	6220-6222	45	2 YRS. @ \$100.00	9,000.00
			TOTAL	\$20,000.00

Applied to PAC account, BP Resources Canada limited \$6,592.59

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## APPENDIX 5

# STATEMENTS OF QUALIFICATION

#### STATEMENT OF QUALIFICATIONS - H.Q. SMIT

B.Sc. (Hons.) Geology, 1984 - University of British Columbia, Vancouver.

H.Q. Smit was employed as an exploration geologist with BP Resources Canada Limited from May to November, 1984. Prior to this he was employed for two field seasons with the Geological Survey of Canada and has held field assistant positions with various mining and exploration companies in Western Canada.

#### STATEMENT OF QUALIFICATIONS - R.E. MEYERS

B.Sc. (Hons.) Geology, 1974 - Carleton University, Ottawa M.Sc. Economic Geology, 1980 - McGill University, Montreal Associate Member of the Geological Association of Canada (1974) Member of the Canadian Institute of Mining and Metallurgy

I have practised my profession continuously since graduation in 1974, as a Mine.Geologist (1974-1977); in Economic Geology research (1977-1979); and in mineral exploration (1979-present).



