MineQuest Report #215 Ref. No. RM5302

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GEOPHYSICS, TRENCHING AND REVERSE CIRCULATION DRILLING on the ASTRO 1 GROUP

Osoyoos Mining Division

N.T.S. 82E/5W

Latitude 49° 22' N Longitude 119° 48' W

> by Tim Sandberg and Linda J. Lee

MineQuest Exploration Associates Ltd.

for QPX Minerals Inc.

Astro 1 Group		
Ford 2 3002	18	02 Sept 1988
Akira I 2912	3	14 June 1988
Akira II Fr 2913	1	14 June 1988
Astro 1 213	12	09 Mar. 1977
Astro 33 245	20	09 Mar. 1977
Astro 34 246	20	09 Mar. 1977

MineQuest Exploration Associates Ltd.

February, 1989

Off Confidential: 90.02.28 District Geologist, Nelson ASSESSMENT REPORT 18527 MINING DIVISION: Osoyoos PROPERTY: Astro LAT 49 22 00 119 48 00 LONG LOCATION: 11 5471769 296714 UTM NTS 082E05W CLAIM(S): Astro 34 OPERATOR(S): OPX Min. AUTHOR(S): Sandberg, T.;Lee, L.J. 1989, 95 Pages **REPORT YEAR:** COMMODITIES SEARCHED FOR: Gold, Silver Paleozoic, Marron Formation, Kitley Lake Member, Andesite **KEYWORDS:** Feldspar Porphyry, Conglomerate, Chalcedony, Pyrite Argillic Alteration WORK Geophysical, Drilling, Physical, Geochemical DONE: EMGR 5.0 km;VLF Map(s) - 1; Scale(s) - 1:20005.0 km LINE MAGG 5.0 km Map(s) - 2; Scale(s) - 1:2000248.0 m 5 hole(s) PERD Map(s) - 1; Scale(s) - 1:5000.6 km ROAD 177 sample(s) ;AU,ME SAMP Map(s) - 2; Scale(s) - 1:200, 1:1000SCGR 0.6 km Map(s) - 1; Scale(s) - 1:500150.0 m TREN 5 trench(es) RELATED 13199,14062,16674,18284 **REPORTS:** 082ESW190 MINFILE:

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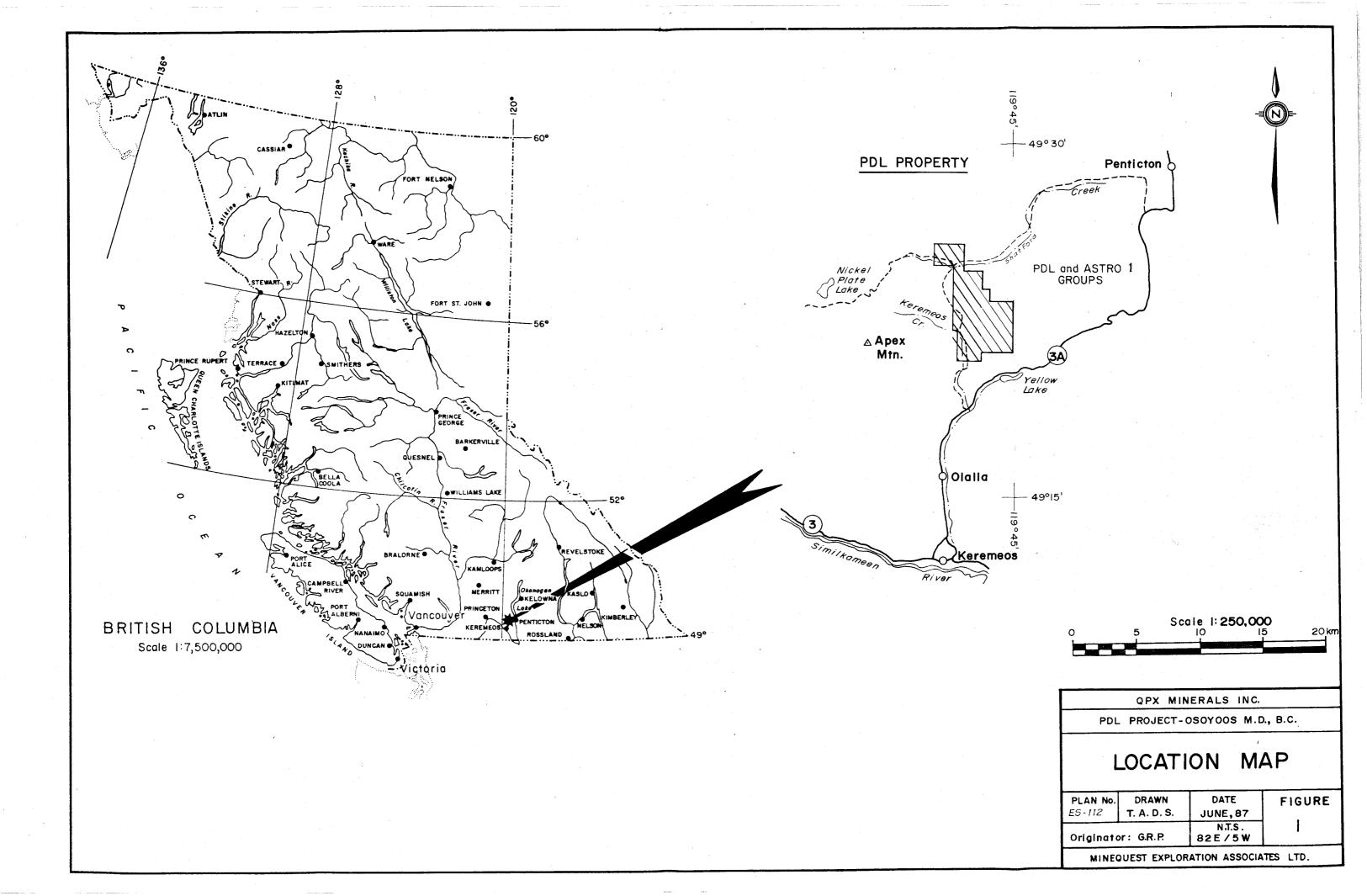
1.1 Location, Access and Terrain

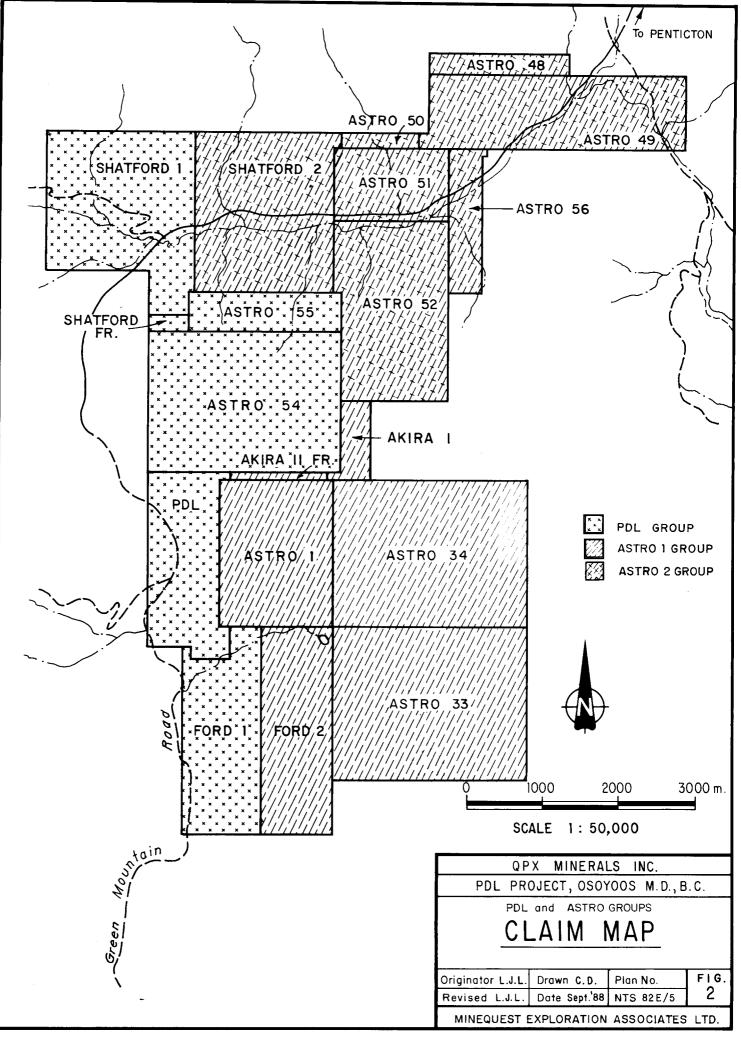
The PDL and Astro Groups are located near Ford (Fish) Lake which lies about 4 km east of Dividend Mountain in the Keremeos Creek valley (see Figure 1). The property is centered at about 49°22' N, 119°48'W, in NTS 82E/5W. Access to the property is good. The Green Mountain Road, a major gravel road, passes through the PDL claim near its western edge. The road can be reached from Highway 3A, about 13 km north of Keremeos. The property is located about 7.5 km by road from this intersection. Alternately, the property can be reached by following the Apex Alpine Ski Resort road west from Penticton, a distance of about 20 The eastern portion of the property can also km. be accessed by a network of four-wheel drive roads, which lead northwest from Highway 3A, between Yellow Lake and Trout Lake. The southern and eastern portions of the Ford 1 and 2 claims can be reached by the B.C. Hydro access road which heads west from Highway 3A, a short distance south of Yellow Lake.

The topography on the PDL property is generally rugged. Western portions of the claims consist of near vertical cliffs and steep talus slopes. To the east the topography is somewhat more subdued, with moderate to gentle slopes.

1.2 Claim Status

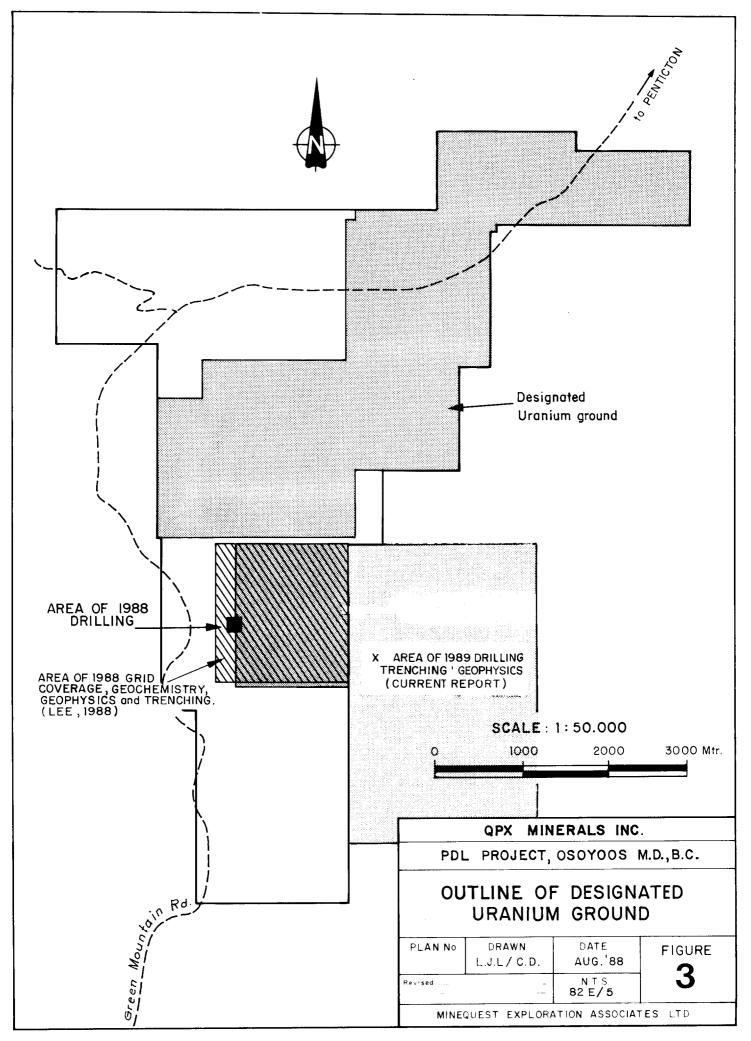
The PDL and Astro Groups collectively consist of 19 mineral claims held by QPX Minerals Inc. as shown in Figure 2 and listed below. The claims are controlled in part by an option agreement with Placer Development Limited and in part by an option agreement with Petro-Canada Inc. The area of interest clause of the Placer Option incorporates a portion of the Petro-Canada claims. A number of additional claims were acquired by QPX Minerals Inc. by staking. Several of these claims lie within the Area of Interest subject to the Placer Development Limited option while others are controlled entirely by QPX Minerals Inc. The following table summaries the ownership of the claims.





Claim Name	Record Number	Number o Units	f Record Date	Due Date befor Submission of this Report	e Agreements Controlling Claims
PDL Group					
Ford 1	2639	14	06 July 1987	06 July 1992	QPX/Placer Dev.
PDL	1963	15	23 Dec. 1983	23 Dec. 1992	Placer Dev.
Astro 54	618	20	05 Jan. 1979	05 Jan. 1991	Petro-Canada/ Placer Dev.
Astro 55	619	4	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Shatford Fr	2758	1	09 Nov. 1987	09 Nov. 1992	QPX Minerals
Shatford 1	2756	20	09 Nov. 1987	09 Nov. 1992	QPX Minerals
Astro 1 Grou	<u>ip</u>				
Ford 2	3002	18	02 Sep. 1988	02 Sept 1992	OPX/Placer Dev.
Akira I	2912	3	14 June 1988	14 June 1992	QPX/Placer Dev.
Akira II Fr	2913	1	14 June 1988	14 June 1992	QPX/Placer Dev.
Astro I	213	12	09 Mar. 1977	09 Mar. 1991	Petro-Canada/ Placer Dev.
Astro 33	245	20	09 Mar. 1977	09 Mar. 1991	Petro-Canada
Astro 34	246	20	09 Mar. 1977	09 Mar. 1991	Petro-Canada
Astro 2 Grou	<u>ip</u>				
Astro 48	612	04	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Astro 49	613	14	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Astro 50	614	02	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Astro 51	615	06	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Astro 52	616	15	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Astro 56	620	04	05 Jan. 1979	05 Jan. 1991	Petro-Canada
Shatford 2	2757	20	09 Nov. 1987	09 Nov. 1991	QPX Minerals
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were originally staked during the period 1977 -1979. At this time, exploration on the claims was directed towards uranium and thorium. Although no uranium or thorium was found, the claims were classed as designated uranium ground under the Uranium Moratorium. Since the termination of the Moratorium in February of 1987, the claims remain classed as designated uranium ground even though exploration is presently directed towards precious metals. As a result, all exploration on these claims (outlined in Figure 3) is governed by the Exploration Regulation - Uranium and Thorium (Order in Council No. 335).



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1.3 Property Definition and History

The PDL property is located in an area which has been extensively explored for a number of different minerals since the late 1800's. There have been many significant deposits in the region, the largest of these being the Giant Mascot gold mine and related deposits at Hedley (MinFile 92HSE 36,38,144). Gold was also discovered on nearby Dividend and Apex Mountains in the early 1900's. Some production has been recorded from these showings which are primarily hosted in Triassic or older skarn bodies (MinFile 82 ESW 47,48,124). Numerous other gold showings are located in the area, including the Reno and Star of Hope/Yuniman properties (MinFile 82ESW 123,51). In these deposits gold occurs in pyrite/arsenopyrite stringers in east-west and northeast trending fracture systems (Exploration in B.C., 1985; Di Spirito, et al, 1985). Several deposits from which a significant amount of gold, silver and molybdenum was shipped were discovered at Olalla in the 1920's (MinFile 82ESW 15, 16; Little, 1961). These deposits are related to guartz veining in the large pyroxenite intrusion at Olalla. In the late 1960's there was renewed interest in the area for copper exploration in particular on the Papex/Kopr/Paychex showings (MinFile 82ESW 49,50; Exploration in B.C., Here, sulphide mineralization is primarily 1967). disseminated, although some sulphides occur with quartz as fracture fillings. Mineralization is hosted in metasediments of the Paleozoic Old Tom and Shoemaker Formations.

On the PDL claim, there is evidence of previous work in the Pre-Tertiary rocks but no published record of this work exists. A short (about 10m) adit at the base of the cliffs cross-cuts a small massive sulphide lens. According to a local prospector (L. Reichert, personal communication), this adit was dug in the 1930's. Near the adit, a casing with flowing water marks the position of an inclined diamond drill hole. Above this, at the top of the cliffs, several bulldozer trenches were excavated some years ago. One of these exposes another small massive sulphide pod. The diamond drilling and bulldozer work are believed to have both been done in 1971 (L. Reichert, personal communication) however, this work was not filed for assessment credit.

The PDL claim was staked in 1983 by Placer Development Ltd. In 1984 and 1985 Placer established a grid on the property, collected soil samples and ran geophysics (magnetometry and VLF-EM) over the grid. The geophysics was largely unsuccessful but several strong gold anomalies resulted from the geochemical program. The property was optioned to QPX Minerals Inc. in The 1987 work program by QPX was directed 1987. towards following up geochemical anomalies defined by Placer. In addition, geological mapping of the property was done. This work program, described in detail by Lee (1987), attributed previous geochemical anomalies to narrow gold bearing pyrite/arsenopyrite stringers found to outcrop on the property. Geological mapping and geochemical sampling suggested mineralization could be controlled by major N-S trending structures and that the ground to the north, south and east of the PDL claim was potentially of interest. As a result, several claims were staked and the Astro 1, 48-52 and 54-56 claims were acquired from Petro-Canada Inc.

The Astro claims were staked in 1977 and 1979 by Pacific Petroleum Ltd., now Petro-Canada Inc. Exploration was directed towards uranium and thorium and consisted of geological mapping, geochemistry, geophysics, and both diamond and rotary drilling. This work is described in Salazar (1979) and Racicot and Salazar (1980). Several generations of old claim posts have been discovered on ground underlain by Tertiary rocks on the Astro l claim. With the exception of a single diamond drill hole drilled in 1979 by Pacific Petroleum, no workings in these rocks have been found.

In the summer of 1988, QPX conducted a major work program on the PDL and Astro Groups. This work included geological mapping, soil sampling, geophysics and diamond drilling. The details of this program are described in Lee (1988). Drilling was successful in confirming an episode of Tertiary mineralization but did not encounter any economic gold values. A number of geochemical anomalies (coincident gold, arsenic, copper and silver) with values to 780 ppb gold, were defined by the soil sampling program.

Regional work done during the 1988 summer program resulted in the discovery of an alteration system in the Marron volcanics on the Astro 34 claim adjacent to the then existing QPX property. As a result of this discovery two additional claims, the Astro 33 and 34, were optioned from Petro-Canada Inc. in November, 1988.

In the fall of 1988, a program of trenching and sampling was carried out to evaluate soil geochemical anomalies identified by the summer 1988 program (Lee 1989). Twenty-three backhoe trenches were excavated, cleaned out, and sampled. Trenching did not locate any mineralization, and indicated that the majority of the anomalies are derived from glacial overburden.

In addition, the Astro 34 Showing was prospected and chip sampled (Lee, 1989). Twenty-seven rock chip samples were collected. Results indicated that anomalous gold values (up to 1030 ppb) with accompanying anomalous silver (up to 34.1 ppb) are associated with narrow chalcedonic veinlets in argillically altered Marron volcanics (see Figure 4).

1.4 Summary of Work, Current Program

This report covers linecutting, geophysics, trenching and reverse circulation drilling on the Astro 34 claim (Astro 2 Group) during the period December 1988 to February 1989.

In the late fall of 1988 a small grid was established over the Astro 34 showing by C. O'Neill and S. Handley. A 400 metre long north-south baseline was established, with 4.6 kilometres of crosslines. Magnetometer and VLF-EM surveys were then conducted and interpreted by Lloyd Geophysics of Vancouver, B.C. This work is summarized in the current report.

Trenching and drilling of the Astro 34 showing in January of 1989 is also covered in this report. Five trenches totalling 150 metres in length were excavated, mapped and sampled. A total of 98 trench samples were collected by C. O'Neill and C. Young. Trench mapping was done by T. Sandberg.

Five reverse circulation drill holes totalling 248.4 metres (815 feet) were drilled. Drill chips were logged by P. Conroy and samples were collected in 10 foot intervals by J. Caldwell. A total of 79 chip samples were collected.

All samples were shipped to Eco-Tech Laboratories in Kamloops and analyzed for gold and 30 element ICP. Because of the classification of this ground as "Designated Uranium Claims" analyses for uranium and thorium were done in accordance to government regulations.

Trenching and drilling necessitated the rehabilitation and construction of approximately 600 metres of road. All trenches and drill sites were reclaimed and seeded.

The area of the project is shown in Figure 5. The program of trenching and drilling described in this report was supervised by T. Sandberg under the direction of R.V. Longe. Field work was done from December 7-8 and December 16-18, 1988 and January 3-14, 1989.

GEOLOGY

2.1 Regional Geology

The Keremeos-Olalla area has been mapped at a regional scale by Bostock (1927) and Little (1961). The area of interest was covered more recently by Church (1982) in his map of the Penticton Tertiary Outlier.

The PDL property covers a portion of the western margin of the Penticton Tertiary Outlier. The western part of the property is underlain by rocks of the Triassic or older Shoemaker, Old Tom and Independence Formations. These rocks consist primarily of cherts and greenstones, with minor limestone and tuffs. To the east, the cherts and greenstones are overlain by the Lower Eocene Springbrook conglomerate, a polymictic pebble to boulder conglomerate with clasts composed mainly of the Triassic or older basement rocks. The conglomerate can exceed 100 metres in thickness and its distribution marks the margins of the Pre-Tertiary basin. Narrow quartz diorite to porphyritic latite dykes cut the Shoemaker and Old Tom Formations. Similar dykes cut rocks of the Springbrook Formation. Overlying the conglomerate to the east is a sequence of phonolitic, basaltic and trachytic lavas of the Lower to Mid Eocene Marron Formation. A series of north to north-east trending faults cut rocks of all the above mentioned units.

2.2 Property Geology

The geology of the PDL and Astro group is described in detail in Lee (1988).

The western portion of the property is underlain by rocks of the Triassic or older Shoemaker, Old Tom and Independence Formations which consist mainly of cherts and greenstones. Minor small limestone bodies are also present which may locally be skarnifed. In the area of the PDL and Astro 1 claims, where mapping to date has been concentrated, the basement rocks are predominately cherts. Commonly, these cherts are brecciated and may contain minor disseminated pyrite.

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The Paleozoic rocks, exposed in the west are in contact with rocks of the Lower Eocene Springbrook Formation to the east. In Pre-Tertiary time, the Paleozoic cherts and greenstones formed a large basin which was later infilled by Tertiary volcanics and sediments. The Pre-Tertiary/Tertiary contact is near vertical and striking north to northeast where exposed near the PDL-Astro 1 claim boundary. At this point the contact, which may be in part fault controlled, marks the western margin of the Pre-Tertiary basin. Drilling has indicated that east of here the basement contact dips shallowly to the east (Lee, 1988).

The Springbrook Formation is composed of talus, alluvium and tuffaceous materials that accumulated in the Pre-Tertiary basin before deposition of the Eocene Marron volcanics. The Springbrook Formation consists mainly of a polymictic pebble to boulder conglomerate with clasts composed primarily of Paleozoic cherts and greenstones in a sandy, locally tuffaceous matrix. Locally the matrix may be bleached or altered to clays. Narrow carbonate stringers are common cutting both clasts and matrix of the conglomerate. Minor narrow sandstone and tuffaceous sandstone interbeds also occur. Where intersected by diamond drilling, the Springbrook Formation exceeds 100 metres in thickness (Lee, 1988).

A number of narrow, medium to coarse grained dykes of quartz diorite, diorite or porphyritic latite composition cut the Triassic or older cherts and greenstones (Lee 1987). Clasts of these intrusives are also contained in the Springbrook conglomerate. A single outcrop exposure was mapped where a narrow dyke of similar composition intruded rocks of the Springbrook Formation. Whether the dykes represent a single intrusive episode, coeval with the deposition of the Springbrook Formation, or whether two episodes of intrusion occurred is unclear.

Overlying the Springbrook Formation to the east is a series of phonolitic, basaltic and andesitic flows of the Eocene Marron Formation. The lowermost four members of the Marron Formation, the Yellow Lake, Kitley Lake, Kearns Creek and Nimpit Lake members, are exposed on the property. Church (1973, 1982) describes each of these members in detail. Locally, very narrow quartz stringers are seen in the volcanics.

A conglomerate of uncertain age, but at least post-Marron is exposed in a number of trenches on the Astro 1 claim (Lee, 1989). This conglomerate consists of subround pebbles and rare boulders of Marron volcanics, Post-Triassic intrusions and Triassic or older basement rocks. The matrix is very fine grained with minor euhedral biotite and pyroxene crystals and up to 5 percent rounded quartz pebbles. The origin of this unit is somewhat uncertain. Topographically and stratigraphically, the conglomerate occurs several hundred metres above the basement rocks. Laterally, the nearest exposure of basement rocks is at least one kilometre away. It is difficult to envisage a process by which clasts of these rocks could be included in the conglomerate, unless the conglomerate is fault related. Where exposed the conglomerate is always in close proximity to a fault of regional importance, suggesting that this may be the case.

Finally, narrow coarse grained granodiorite dykes have been exposed in several trenches (Lee, 1989). These dykes are strongly weathered and cross-cut the post-Marron conglomerate, trending north-south. Narrow quartz stringers may occur in these dykes.

A series of north to northeast trending near vertical block faults occurs on the property. Information obtained from drilling suggests that movement on these faults is down to the east. A number of east-west faults have also been intersected by trenching. Faults are commonly marked by wide zones (up to 17 metres) of clay gouge (Lee, 1988).

In eastern portions of the claims outcrops are commonly smoothed as a result of glacial scouring. Striations indicate that the trend of the ice direction was 040°. Regional directions of glacial transport from Nasmith (1962) suggest that movement was towards 220°.

2.3 Alteration and Mineralization

The area trenched and drilled in the current program is underlain by the Kitley Lake Member of the Marron Formation. The Kitley Lake Member consists of brown to reddish coloured feldspar biotite porphyritic andesite, commonly containing zeolite filled amygdules. The Astro 34 showing is locally exposed in outcrop and consists of argillic alteration and silicification of these volcanics, with narrow chalcedonic veinlets. Previous sampling (Lee, 1989) returned values to 1229 ppb gold associated with these chalcedonic veinlets (Figure 4).

Trench geology is shown in Figure 6. Trenching exposes a north-south trending belt of clay alteration up to 20 metres wide over a strike length of 140 metres. The alteration zone is still strong where lost due to thick overburden. Minor amounts of propylitic alteration occur both marginal to, and within the clay altered zone.

Clay alteration surrounds a silicified core, up to three metres wide, well exposed in Trench 1. The core consists of brecciated clay-altered volcanics cut by a network of hairline chalcedonic veinlets with weak pervasive silicification.

Extensive limonite staining of altered rock and local pyrite boxwork indicate the presence of pyrite in the unweathered rock. This was confirmed by drilling, where quantities of 1% - 5% pyrite were observed in drill chips.

Drill data is presented in Figures 7, 8, 9 and 10. Drilling shows continuity of the zone of silicification to at least 47 metres below the elevation of the road, and a widening of the zone to approximately 14 metres true width. This may be due to a merging at depth of two smaller zones of silicification found in Trench 1. The zone appears to dip vertically to steep easterly. There is no sign that the zone is weakening with depth and the expectation is that it continues down dip for a substantial distance.

The distribution of alteration is probably controlled by a north-south striking fault, indicated by the VLF-EM survey (Figure 13). The presence of this fault is confirmed in trenches by zones where overburden could not be penetrated, and in drill holes by zones where squeezing of the rods occurred. This fault has been intruded by a post-alteration dyke containing 3-5 mm long hornblende phenocrysts in a dark green to black aphanitic matrix. Drilling indicates that the dyke dips 90° to 80° easterly.

Northeasterly trending fractures and small shears observed in the trenches may have served to further focus hydrothermal fluids.

GEOPHYSICS

3.1 Procedures

In the late fall of 1988 a small grid was established over the Astro 34 showing. A 400 metre long baseline was run at an azimuth of 360°, with 4.6 kilometres of crosslines. In the central portion of the grid the cross lines were spaced at 25 metre intervals. To the north and south, line spacing was 50 meters. Stations were flagged at 10 metre intervals.

Magnetometry and VLF-EM surveys were conducted by Lloyd Geophysics of Vancouver, B.C. using an EDA Omni Plus combination magnetometer - VLF-EM unit. An EDA Omni IV base station was used for the magnetic survey, while the Seattle transmitter station was used for the VLF-EM survey.

Geophysical data was interpreted by Lloyd Geophysics. This interpretation is contained in Appendix I.

3.2 Results and Interpretation

The results of the geophysical surveys are presented in Figures 11-14 and summarized below. A more detailed interpretation of the results is contained in Appendix 1.

Three very well defined, north-south trending conductors were identified by the VLF-EM survey, as shown on Figure 13. The central portion of the westernmost conductive lineament corresponds with the Astro 34 showing and has been tested by trenching and drilling. Trenching indicates that the conductors represent north-south striking faults. Except for the central portion of the westernmost conductor, the lineaments have not been tested by trenching, drilling or surface mapping. Follow-up of these conductors is strongly recommended.

Along portions of the strike length of the VLF-EM conductors there is excellent correlation with magnetic low zones (see Figure 11). These zones probably represent zones of alteration (silicification) and warrent testing (by drilling).

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TRENCHING PROGRAM

4.0

4.1 Trenching and Sampling Procedure

A John Deere 450 C mounted backhoe operated by David Lusted of Cawston, B.C. was used to evaluate the Astro 34 showing. Five trenches were excavated across the strike of the zone (see Figure 6). A total of 150 metres of trenching was done over a strike length of about 140 metres.

Of the 150 metre total length of trenches, 112 metres represented bedrock exposure. Trenches 1 and 3 exposed the full width of the altered zone at depths of 1 - 1.5 metres while Trench 2 lost bedrock near the eastern end. Trenches 4 and 5 exposed only the western edge of the clay alteration. Although the theoretical limit of the machine is 3 - 3.5 metres, it was defeated at 2 -2.5 metres by the blocky, compact nature of the overburden, and the fact that the machine is somewhat hydraulically underpowered.

Sample intervals of an average one metre length were marked out on geologically determined intervals and sampled using rock hammers, chisels and a two pound sledge. Every effort was made to obtain a continuous, representative chip sample. Samples were collected in 30 cm x 50 cm plastic sample bags. The average sample weight was approximately 2.5 kg.

4.2 Analytical Techniques

Samples were shipped to Eco-Tech Laboratories Ltd. in Kamloops, B.C. for preparation and analysis. Samples were dried, jaw-crushed and split to a 250 gram subsample which was then ring-pulverized to minus -140 mesh. One hour of digestion with hot aqua regia was followed by a 30 element ICP analysis. For gold, a 20 gram sample was concentrated by fire assay. The bead was digested for one hour in hot aqua regia and analysed by atomic absorption. Uranium and thorium were analysed colourimetrically.

4.3 Results and Interpretation

No economically significant gold or silver values were encountered in this trenching program. A number of sub-anomalous to anomalous metal values will be discussed on a trench by trench basis. Trench geology and sample results are shown on Figure 6. The geology is detailed in Appendix II and the analytical results for the trench samples are contained in Appendix III.

Trench 1

Trench 1 exposed a 19.4 metre wide zone of moderate to intensely clay-altered volcanics. Within this zone there were two short sections containing silica. Near the western end of the trench a 3 metre wide zone consisted of brecciated, heavily clay-altered volcanic with weak pervasive silicification and a network of fine chalcedonic quartz veinlets. Samples in this section returned values in the 20 to 60 ppb gold range with up to 1.8 ppm silver and 70 to 145 ppm arsenic.

Towards the eastern end of the trench a 2 metre wide zone of clay alteration and weak pervasive silicification with chalcendonic veinlets and up to 1% disseminated pyrite, gave values to 145 ppb gold, 6.0 ppm silver and 420 ppm arsenic. Adjacent to this zone, a value of 235 ppb gold was obtained from clay-altered volcanic.

Trench 2

Trench 2 exposed 18.5 metres of clay-altered volcanics, before losing bedrock at the eastern end of the trench. Samples TMS-89-011 and 012 consisted of weakly silicified, clay-altered volcanics and contained gold values of 95 ppb and 95 ppb, silver values of 5.2 ppm and 7.8 ppm, and arsenic values of 40 ppm and 30 ppm, respectively.

Trench 3

Trench 3 exposed 18 metres of clay altered volcanic with no silicification. Arsenic values up to 185 ppm and gold values in the 30 to 55 ppb range were associated with a clay shear zone trending 165°/90° and with northeasterly trending fractures in the western portion of the trench.

Trench 4

Trench 4 encountered mostly deep, blocky overburden. Two grab samples were taken from the overburden. Only 10 metres of bedrock was exposed at the western end of the 32.5 metre long trench. Two metres of clay alteration was exposed before bedrock plunged off to the east. One sample of relatively fresh volcanics gave a value of 55 ppb gold without corresponding anomalous silver or arsenic values.

Trench 5

Trench 5 also encountered problems with overburden. Sixteen metres of bedrock was exposed, most of it unaltered, except for weak clay alteration in the easternmost bedrock exposure. Three samples were taken of oxidized till, one of which gave a result of 205 ppb gold. The remaining 9 metres of trench consisted of till and was not sampled.

In summary, trenching was successful in exposing a zone of alteration in the vicinity of the original Astro 34 showing outcrops. The alteration zone ranged up to 20 metres in width and consisted of a silicified core surrounded by clay-altered volcanics. Deep overburden to the north and south prohibited further trenching along strike, although the alteration remained strong and VLF-EM suggested that the structure continued for a considerable distance. A larger backhoe might be successful in penetrating this overburden. No significantly anomalous gold values were obtained from trench samples.

5.0 REVERSE CIRCULATION DRILLING

5.1 Drilling and Sampling Procedure

Five reverse circulation drill holes totalling 248.3 metres were completed by Northspan Drilling Ltd. of Westbank, B.C. using a track mounted reverse circulation percussion drill. Drilling was done on an eight hour per day basis and was completed in four days. Water was supplied to the site by a five ton 4x4 truck with a 1,000 gallon water tank, operated by Leo Reichert of Keremeos, B.C.

Samples were collected in 10 foot intervals, with two or three duplicate samples from each hole for check assays. Drill return was run through a riffle splitter to reduce sample size to approximately 1/8 of original size. Samples were collected in plastic buckets. Both the splitter and buckets were cleaned with water or compressed air between samples to reduce contamination. Samples, averaging 4-5 kg in weight, were double bagged in 30 cm x 50 cm plastic sample bags, sealed with twist ties and stored in plastic buckets with lids. Ninety-eight samples including 19 duplicates were collected.

Chips were sieved from the reject portion and logged with a binocular microscope. Samples of these chips were saved in small plastic sample bags as witness samples.

Drill hole locations are shown on Figure 5. Specifications for the drill holes are listed below.

DRILL HOLE SEPCIFICATIONS				
Hole No.	Grid Co-Ordinates	Dip	Azimuth	Depth (metres)
PDL 89 RC-1 PDL 89 RC-2 PDL 89 RC-3 PDL 89 RC-3 PDL 89 RC-4 PDL 89 RC-5	100+33N 99+14E 100+54N 99+31E 100+04N 99+21E 100+01N 99+13E 100+04N 99+17E	-65 -45 -90 -45 -80	090 250 064 090	53.3 38.1 35.0 59.4 62.5

5.2 Analytical Techniques

Samples were shipped to Eco-Tech Laboratories Ltd. in Kamloops, B.C. for preparation and analysis. Samples were dried, jaw-crushed and split to a 250 gram subsample which was then ring-pulverized to minus -140 mesh. One hour of digestion with hot aqua regia was followed by a 30 element ICP analysis. For gold, a 20 gram sample was concentrated by fire assay. The bead was digested for one hour in hot aqua regia and analysed by atomic absorption. Uranium and thorium were analysed colourimetrically.

5.3 Results and Interpretation

Analytical data for the drill samples is contained in Appendix III. Drill logs are included in Appendix IV. A number of sub-anomalous to anomalous gold and silver values were obtained from drilling. These will be discussed on a hole by hole basis. Drill sections for each of the holes have been plotted on Figures 7-9 and a subsurface plan interpreting the down hole geology is shown in Figure 10.

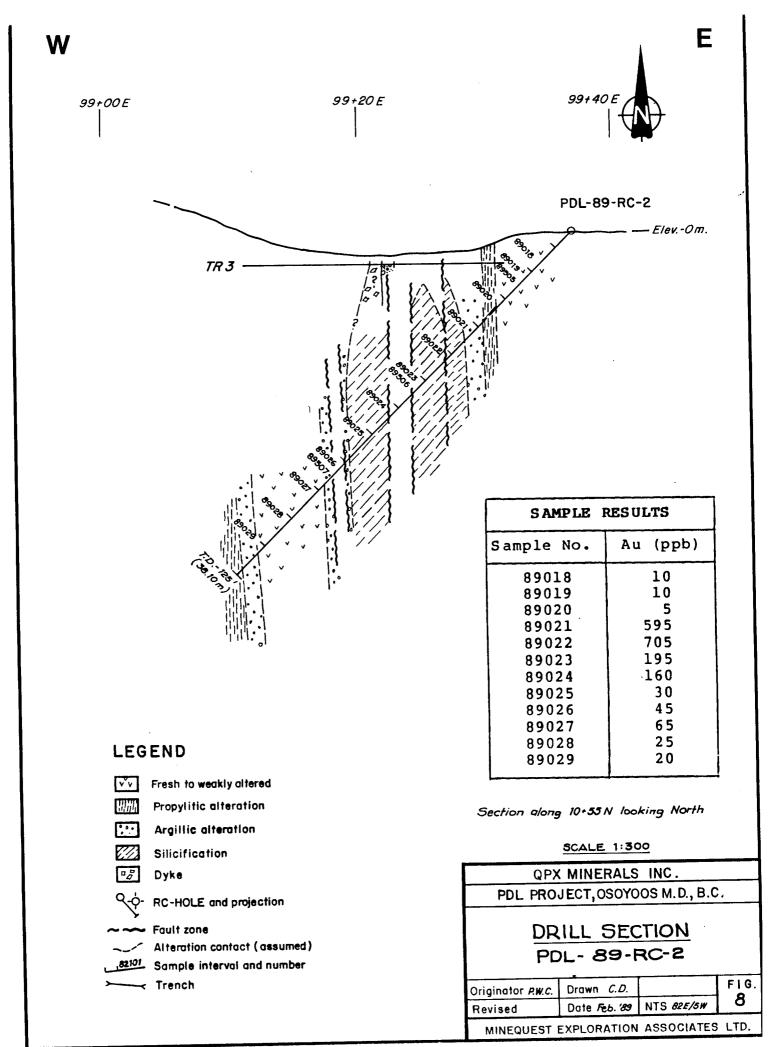
Hole PDL-89-RC-1 (Figure 7): This hole intersected mostly clay altered volcanics with only short sections of weak-moderate silicification. A hornblende porphyry dyke was intersected from approximately 14-15 metres and a zone of fault gouge from approximately 15-18 metres. From 20-26 metres the hole contained moderate silicification and up to 5% pyrite. The hole bottomed at 53.3 metres in red coloured volcanics.

The section from 41.1 to 44.2 metres returned a value of 75 ppb gold over 3.1 metres (10 feet). This section consisted of clay-altered volcanics with less than 5% quartz chips.

Hole PDL-89-RC-2 (Figure 8:) The second hole was collared in unaltered reddish volcanics and entered clay alteration at a depth of approximately 10.7 metres. Strong clay alteration with moderate to strong silicification continued to 29 metres. Only trace amounts of pyrite were found. Several possible faults were intersected and a probable dyke at about 29 metres. The hole bottomed at 38.1 metres in weakly altered volcanics.

w	99 +20 E	99+40 E	99+60 E
TR2	PDL-89-RC-1		
		S AMPLE	RESULTS
		Sample No.	Au (ppb)
		89001 89002 89003 89004 89005 89006 89007 89008 89009 89010 89011 89012 89013 89014 89015 89016 89017	20 20 15 25 45 30 30 30 15 20 10 55 30 75 20 20 20
	LEGEND	175'	
	Fresh to weakly altered (5) Fresh to weakly altered (5) Argillic alteration Silicification Dyke C	<u>sca</u> QPX N	g 100 + 35 N looking North LE 1: 300 MINERALS INC.
	Fault zone Alteration contact (assumed)	PDL PROJE	CT, OSOYOOS M.D., B.C.
	<u>ezioi</u> Sample interval and number Trench		- 89-RC-1
			rawn C.D. FIG. ate Feb.89 NTS 82E/SW 7

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This hole encountered anomalous gold values (160 to 705 ppb) in the interval of 10.7 to 22.9 metres. These anomalous values are associated with up to 14.8 ppm silver, 265 ppm arsenic, and 1513 ppm molybdenum. This section consisted of weakly to moderately silicified volcanics with traces of pyrite, adjacent to a fault.

Hole PDL-89-RC-3 (Figure 9): This hole was collared within the silicified zone in an attempt to follow it to depth. The hole was drilled vertically. Strong clay alteration with weak to moderate silicification and minor pyrite was encountered to a depth of 29 metres.

Samples from 2 to 4.5 metres and from 4.5 to 7.6 metres returned gold values of 120 ppb and 140 ppb from moderately silicified volcanics with traces of pyrite.

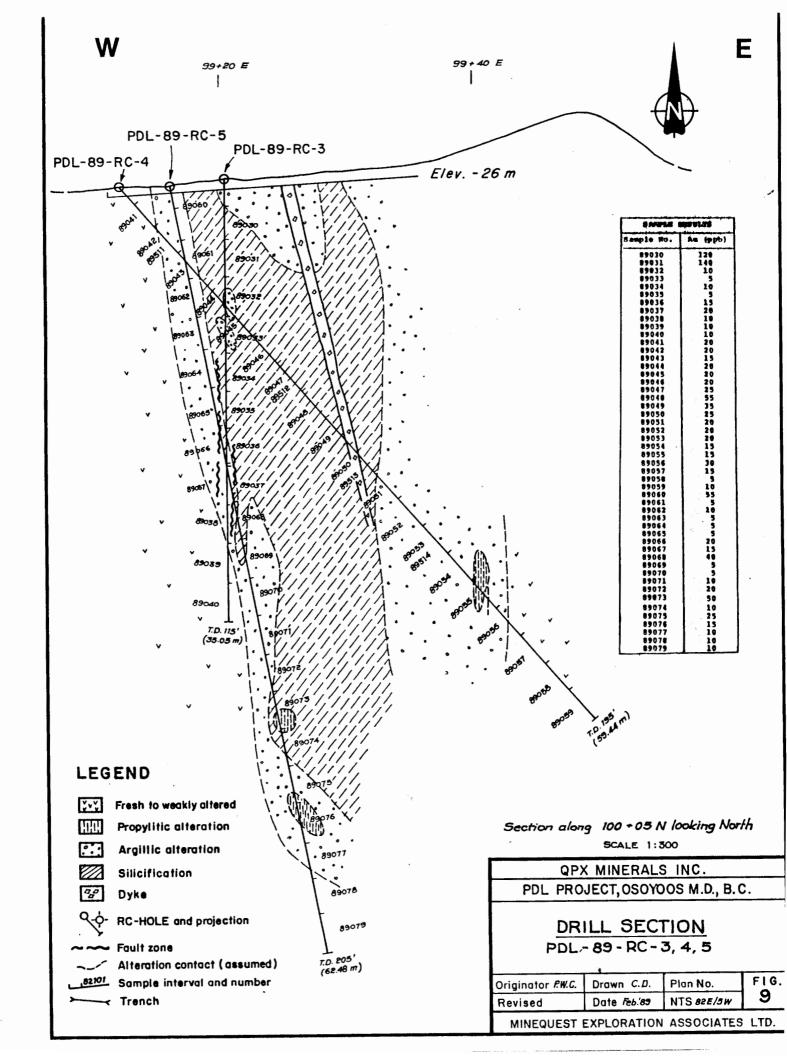
Hole PDL-89-RC-4 (Figure 9): Hole 4 was drilled to better define the dip of the alteration zone. The hole was collared in fairly fresh, brown volcanics. Moderate to strong silicification with up to 1% pyrite was intersected from 7.6 to 32 metres. The hole was drilled slightly off-section, which may account for the greater apparent width of the silicified zone.

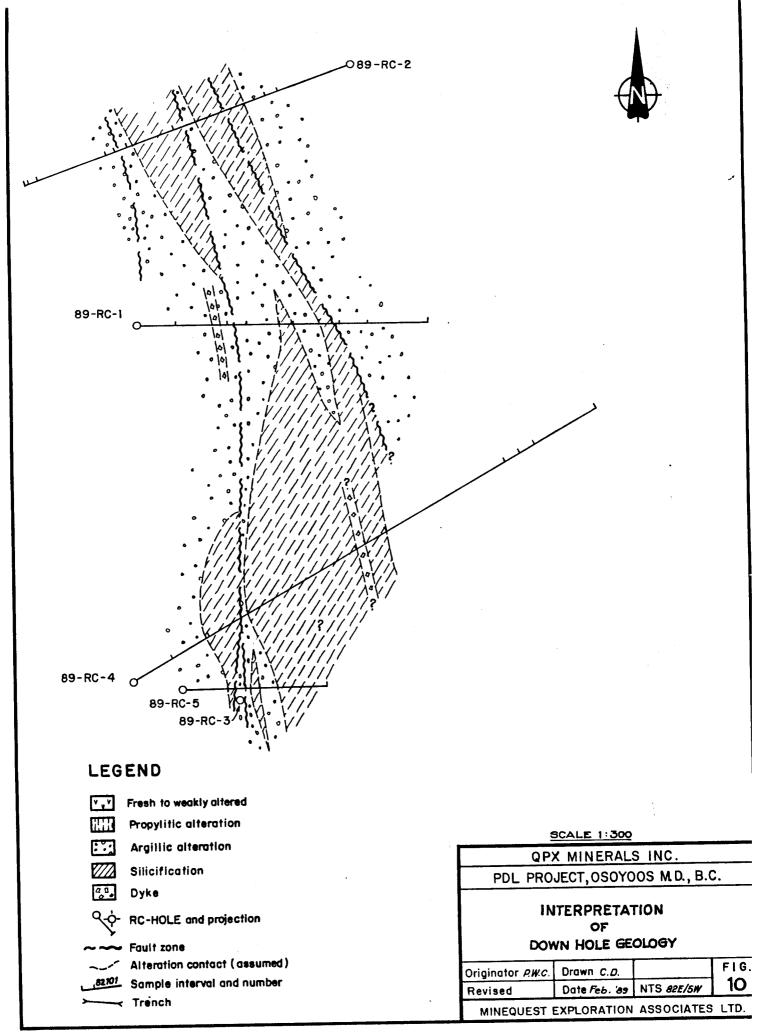
A section from 16.8 to 19.8 metres returned a gold value of 55 ppb, associated with strong clay alteration and patchy silicification.

Hole PDL-89-RC-5 (Figure 9): This hole attempted to drill down dip in the silicified core, but appears to have only skimmed the footwall, intersecting clay alteration with only local silicification and traces of pyrite.

A value of 55 ppb gold was obtained from 2 to 4.5 metres in a zone of patchy silicification, and a value of 50 ppb gold from 41 to 44 metres in a zone of weak clay alteration.

In summary, drilling was successful in tracing the alteration to a depth of 47 metres below surface with no indication that the system is weakening





with depth. Anomalous gold, silver, arsenic and molybdenum values were obtained from chip samples. One disadvantage to reverse circulation drilling is the dilution of grade caused by sampling standard 10 foot runs. The best gold value, obtained was 705 ppb over 10 feet (from Hole 2) or the equivalent to 7 grams/tonne over 1 foot. Similarly, a value of 14.8 ppm silver over 10 feet translates to almost 150 grams/tonne of silver over 1 foot. It is recommended that, in future, reverse circulation drilling be used only for prospecting and for initial testing of alteration system. Follow-up of this system should be done by diamond drilling. Drilling should be done both along strike and to greater depths.

SCINTILLOMETER DATA

6.1 Procedure

6.0

In order to comply with Order in Council No. 335 Exploration Regulation - Uranium and Thorium (see Appendix V) a series of scintillometer readings were taken over the course of the program.

Readings were taken before the ground was disturbed, after road building, in the excavated trenches, and over the backfilled trenches. Readings were also taken from drill chip samples. A McPhar TV-1A scintillometer was used and readings were taken at 5 metre intervals. The unit was calibrated in accordance with the instruction manual using the thorium source supplied by the manufacturer.

6.2 Results

No anomalous scintillometer readings occurred before, during, or after trench and road construction, or in any of the drill holes. The results of the scintillometer surveys are presented in Figure 15.

CONCLUSIONS

- 1.0 Magnetometry and VLF-EM are both very effective tools for locating alteration systems and the structures controlling the alteration. Three very well defined conductive lineaments with corresponding magnetic lows were identified in the small survey which was done. Testing by trenching and drilling was restricted in a small portion of one of these anomalies.
- 2.0 Trenching was successful in exposing a zone of silicified and argillically altered volvanics to twenty metres in width over a strike length of 140 metres. Deep overburden made it impossible to follow the zone along strike with equipment available. Only weakly anomalous gold values were obtained from trench samples.
- 3.0 Reverse circulation drilling followed the alteration to a depth of 47 metres below surface at which point there was no evidence of a decrease in the strength or size of the system. Anomalous gold and silver values were obtained from drill samples (to 705 ppb gold and 14.8 ppm silver over 10 foot runs).

- 1.0 Grid coverage should be extended to cover the Astro 33 and 34 claims.
- 2.0 Detailed geological mapping and rock chip sampling should be done over the entire grid. Particular emphasis should be placed on areas of known geophysical anomalies.
- 3.0 Geophysical coverage (magnetometry and VLF-EM) should be extended over the entire grid. Due to the success of this particular survey, it is recommended that the same contractor be employed and similar equipment be used. Geophysics should be rerun over the Astro 1 grid since the earlier survey was of poor quality (Lee, 1988).
- 4.0 Soil sampling should be done over a small test area covering the Astro 34 showing in order to test whether alteration can be traced by geochemistry. If the soil survey is successful, soil sampling should be done over geophysically anomalous areas defined by the above surveys in order to locate particular regions of these anomalies requiring follow-up by trenching or drilling.
- 5.0 Current geophysical anomalies and further geophysical or geochemical anomalies resulting from the above program should be explored by trenching or drilling. In particular, the large magnetic low on the westernmost conductive lineament should be tested. Diamond drilling is recommended to test this target.

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APPENDIX I

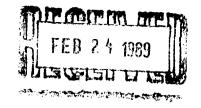
GEOPHYSICAL REPORT BY: JOHN LLOYD LLOYD GEOPHYSICS

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- MineQuest Exploration Associates Ltd.

Lloyd Geophysics Limited, 1110-625 Howe Street, Vancouver, B.C. V6C 2T6 / (604) 688-5813

JOHN LLOYD GEOPHYSICAL ENGINEER





February 24, 1989

Mr. Robert Longe MineQuest Exploration Associates Ltd. 5th floor - 164 Water Street Vancouver, B.C. V6B 1B8

RE: MAG. and VLF-EM Survey - ASTRO 34 Project

Dear Robert:

The following notes should help you with the geophysics section of your assessment report on the above captioned property.

Survey Date: December 17, 1988
 Surveyed By: Mr. David Hall, B.Sc.

2. Instrumentation

The equipment used was the OMNI PLUS combined magnetometer/ VLF-EM system manufactured by EDA INSTRUMENTS INC., Toronto, Canada.

The system is completely software/microprocessor controlled. A portable proton precession magnetometer measures and stores in memory the total earth's magnetic field at the touch of a key. It also identifies and stores the location and time of each measurement and computes the statistical error of the reading and stores the decay and strength of the signal being measured. Throughout each survey day a similar base station magnetometer measures and stores in memory the daily fluctuations of the earth's magnetic field. The use of two magnetometers eliminates the need for a network of base stations on the grid. At the end of each day the field data is merged with the base station data in the field computer and automatic diurnal corrections are applied to correct the field data.

The VLF-EM module of the OMNI PLUS system has the ability to measure, both the VLF-EM magnetic and electric fields from at least two different transmitting stations. The system requires no operator orientation of the sensor head towards the transmitting stations. This is achieved by the utilization of three orthognal sensor coils rather than the two sensor coils used in conventional systems.

Before describing the results from the VLF-EM survey, mention should be made of the limitations imposed upon the method arising from the use of a fixed location transmitting station.

The field generated by VLF transmitting stations is primarily horizontal and the direction of this horizontal field is perpendicular to the direction of the transmitting station. Therefore to obtain maximum coupling with a geological conductor it is necessary to select a transmitting station whose direction is co-linear with the geological strike of the conductor. FOR THIS PARTICULAR SURVEY THESE CRITERIA WERE ONLY REASONABLY WELL FULFILLED.



3. Data Presentation - We are providing the following maps:

- (a) Total Field Magnetic Contour Map (COLOUR)
- (b) VLF-EM Frazer Filter Map (COLOUR)
- (c) Total Field Magnetic Contour Map (MYLAR)
- (d) Total Field Magnetic Profile Map (MYLAR)
- (e) VLF-EM Profiles (MYLAR)
- (f) VLF-EM Frazer Filter Map (MYLAR)

I have outlined the VLF-EM conductors on a rough copy (Preliminary Copy) of the VLF-EM Frazer Filter map and the magnetic lows on a rough copy (Preliminary Copy) of the Total Field Magnetic Contours.

The geology/trenching/drilling plan which you provided for me is presently en route to Toronto for use at the Prospectors and Developers meeting in early March. Despite this I recall the results were fairly encouraging.

The survey outlined three well-defined conductors. In most part these conductors show excellent correlation with magnetic lows. Based on your trenching/drilling there is evidence of north-south faulting on the westernmost conductor.

Your work to date, based on these results, has been concentrated on a very small strike length of the central portion of the westernmost conductor.

Based mainly on the geophysics it is strongly recommended that additional trenching and/or drilling should be carried out on the westernmost conductor particularly to the south where the magnetic low is about 2000nT below background of slightly more than 3000nT.



Similarly, trenching and/or drilling is strongly recommended for the other two conductors. This work should commence on the most pronounced portion of the magnetic low, where alteration (destruction of the ferro-magnesium minerals) is expected to be more intense.

Both the westernmost and the easternmost conductors remain open along strike to the north and the south. In view of this additional magnetic/VLF-EM surveying is recommended to close-off these anomalies, land holdings permitting.

The centrally located conductor lies on the flank of a magnetic low and may be truncated by a fault near the centre of the grid. In spite of this, the magnetic low continues for over 200 metres to the north before petering out. The position of the conductor on the eastern flank of the magnetic low may indicate a structure which dips steeply to the west. If the overburden increases fairly rapidly to the north then the interpreted fault may not in fact exist. This conductor remains open to the south.

Although the direction of the transmitting station was certainly not optimal, the method appears to work very well for this type of target.

> Respectfully submitted, LLOYD GEOPHYSICS LIMITED

John hloyd

John Lloyd, M.Sc., P. Eng. Geophysicist



JL:jz

APPENDIX II

DETAILED TRENCH GEOLOGY

Detailed Trench Geology

- 1	•	n)		_	
Trench No.	From (West)	To (East)	Description	Sample No.	Widtl
140 •	(11030)	(Dast)	Description	1NO •	(m)
TR-1	0	2	Weak clay alteration - reddish		
			biotite feldspar porphyry	TMS-89-037	2.0
TR-1	2	3	Increasing clay alteration	-038	1.0
TR-1	3	3.8	Clay alteration	-039	0.8
TR-1	3.8	4.8	Limonitic clay alteration	-040	1.0
TR-1	4.8	5.8	Yellow clay alteration	-041	1.0
TR-1	5.8	6.8	Very limonitic brecciated clay alteration volcanic	-042	1.0
TR-1	6.8	7.8	Brecciated, silicificed volcanic yellow-green limonitic stain	-043	1.0
TR-1	7.8	8.8	Decreasing silificiation limonitic clay alteration	-044	1.0
TR-1	8.8	9.8	Bleached, limonitic fractures	-045	1.0
TR-1	9.8	10.8	Weak clay, minor limonite	-046	1.0
TR-1	10.8	11.8	Moderate clay and limonite	-047	1.0
TR-1	11.8	12.8	Friable limonitic clay alteration	-048	1.0
TR-1	12.8	13.8	Clay alteration, limonite	-049	1.0
TR-1	13.8	14.8	Massive grey volcanic	-050	1.0
TR-1	14.8	15.8	Black masive unaltered hornblende porphyry dyke N160/90???	-051	1.0
TR-1	15.8	16.8	Bleached limonite volcanic	-052	1.0
TR-1	16.8	18.4	Slightly bleached volcanic with MnO stain	-053	1.6
TR-1	18.4	19.4	Clay alteration, weak silicificati limonitic, fracture 080/90 @ 19.4	ion -054	1.0
TR-1	19.4	20.4	Clay altered, hairline chalcedonic Qv's, <1% dis py????	-055	1.0
TR-1	20.4	21.4	Bleached limonitic volcanic	-056	1.0
TR-1	21.4	22.4	Bleached limonitic volcanic	-057	1.0
TR-1	22.4	23.4	Bleached limonitic volcanic	-058	1.0
TR-1	23.4	24.4	Bleached limonitic volcanic	-059	1.0
TR-1	24.4	25.4	Bleached limonitic volcanic	-060	1.0
TR-1	25.4	26.8	Bleached limonitic volcanic	-061	1.4

Detailed Trench Geology (cont'd)

	,	n)			
Trench No.	From (West)	To (East)	Description	Sample No.	Width (m)
	(nese)	(Hube)		110 •	(111)
TR-2	0	1	Clay alteration biotite feldspar porphyry	TMS-89-001	1.0
TR-2	1	2	Crumbly clay alteration volcanic 1.3 - 1.8 shear 026/90	-002	1.0
TR-2	2	3	Clay alteration	-003	1.0
TR-2	3	4	Chlorite alteration	-004	1.0
TR-2	4	5	Same - minor MnO	-005	1.0
TR-2	5	6.3	Same, with increasing clay alteration	-006	1.3
TR-2	6.3	7.5	Crumbly clay altered volcanic	-007	1.2
TR-2	7.5	8.5	Clay alteration, minor MnO	-008	1.0
TR-2	8.5	9.8	Clay alteration, fracture 017/90	-009	1.0
TR-2	9.8	10.8	Clay alteration, weak pervasive silicification	-010	1.0
TR-2	10.8	11.6	Same	-011	0.8
TR-2	11.6	12.3	Clay alteration, limonite Mn0	-012	0.7
TR-2	12.3	13.4	OB	NS	
TR-2	13.4	14.3	Random chip sample - massive block hornblende porphyry dyke	-013	1.0
TR-2	14.3	15.2	OB	NS	
TR-2	15.2	16.0	Green hornblende porphyry	-014	0.8
TR-2	16.0	17	Clay alteration, limonite	-015	1.0
TR-2	17	18	Clay alteration, limonite	-016	1.0
TR-2	18	18.5	Clay alteration, limonite	-017	0.5
TR-2	18.5	24.5	OB	NS	

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Detailed Trench Geology (cont'd)

Trench	(r From	n) TO				Sample	Width
No.	(West)	(East)	Descrip	tion		No.	(m)
TR-3	0	1	Clay all	tered bfp		TMS-89-018	1.0
TR-3	1	1.7	-	cacture 016	/7 514	-019	0.7
			-			-019	0.7
TR-3	1.7	2.5	165/90	ceración, c	lay veinlets	-020	0.8
TR-3	2.5	3.5	Clay al		rregular clay	-021	1.0
TR-3	3.5	4.5	Clay/ch	lorite alte	eration	-022	1.0
TR-3	4.5	5.5	Friable	limonitic	clay alteration	-023	1.0
TR-3	5.5	6.5	Friable	limonitic	clay alteration	-024	1.0
TR-3	6.5	7.4	OB		-	NS	
TR-3	7.4	8.4	Friable	clay alter	ation, limonite	-025	1.0
'TR-3	8.4	9.2	Same			-026	0.8
TR-3	9.2	10.4	Hornble	nde porphyr	y dyke	-027	1.2
TR-3	10.4	11.3	OB			NS	
TR-3	11.3	12.3	Friable	limonitic	clay alteration	-028	1.0
TR-3	12.3	13.3	"	11	11	-029	1.0
TR-3	13.3	14.3	11	11	**	-030	1.0
TR-3	14.3	15.3	"	n	11	-031	1.0
TR-3	15.3	16.3	19	**	n	-032	1.0
TR-3	16.3	17.3	11	**	11	-033	1.0
TR-3	17.3	18.0	11	11	U	-034	1.0
TR-3	18.0	19.0	Chlorite	e alteratio	on, weak clay	-035	1.0
TR-3	19.0	21.0	Chlorit	ic bfp		-036	1.0
'IR-3				nonitic cla volcanic	y/silica	-062	
TR-3			Grab cla volcanie		e alteration ,	-063	

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Detailed Trench Geology (cont'd)

	(1	n)			
Trench	From	То		Sample	Width
No.	(West)	(East)	Description	No.	<u>(m)</u>
TR-4	0	2	Reddish bfp	TMS-89-064	2.0
TR-4	2	4	Reddish bfp	-065	2.0
TR-4	4	6	Reddish bfp	-066	2.0
TR-4	6	8	Chloritic bfp	-067	2.0
TR-4	8	10	Weak-moderate clay	-068	2.0
TR-4	10	32.5	OB	NS	
ТR-5	0	2	Massive weakly clay alteration b	ofp -069	2.0
TR-5	2	4	Massive weakly clay alteration b		2.0
TR-5	4	6	Massive weakly clay alteration h		2.0
TR-5	6	8	Massive weakly clay alteration b	_	2.0
TR-5	8	10	Massive weakly clay alteration k		2.0
TR-5	10	12	Massive weakly clay alteration k	-	2.0
TR-5	12	14	Massive weakly clay alteration b	-	2.0
TR-5	14	16	Weak clay alteration	-076	2.0
TR-5	16	17.5	OB	-077	1.5
TR-5	17.5	18.5	Red stained oxidized till	-078	1.0
TR-5	18.5	19.5	Red stained oxidized till	-079	1.0
TR-5	19.5	20.2	Red stained oxidized till	-080	0.7
TR-5	20.2	27.0	OB	NS	

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APPENDIX III

ANALYTICAL DATA

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ABBAYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamloope, B.C. V2C 2J3 (604) 673-6700 Fax 673-4657

JANUARY 17, 1909

CERTIFICATE OF ANALYSIS ETK 80/10

MINEQUEST EXPLORATION ASSOCIATES LTD. STH FLOOR, 164 WATER STREET VANCOUVER, D.C. V6B 105

ATTENTION: ROBERT LONGE

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Page 1



ABBAYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamloope, B.C. V2C 2J3 (604) 570-5700 Fax 573-4557

MINEQUEST EXPLORATION ASSOCIATES LTD.

JANUARY 17, 1909

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NOTE: < = LESS THAN

BORATORIES LTU. ECC DON ENDERS LABORATORY MANAGER

CC: LINDA LEE VANCOUVER, D.C. SC09/PDL

MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-10A

55 ROCK SAMPLES RECEIVED JAMBARY 11, 1939

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10041 EAST TRANS CANADA HAT. KARLOOPS, B.C. 920 233 PHONE - 604-573-5706 FAX - 604-573-4553 STAL FLOOR, 164 WATER STREET VINCOUVER, B.C. V68 185 ATTENTION: R. LONGE

PPRJECT: PDL

VALUES IN PPH UNLESS OTHERWISE REPORTED

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ETK		CRIPTIONS	AG AL(I)		3	BA	ĐI I	CA(I)	CD	3	CR		FE(1)			NG(I)	191	201	KA(Z)	Πĭ	P	78	58	SM		11(2)	U	7	¥	¥	2N	
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IANNARY 13, 1983

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FRUIT CLU-IELN

MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-10A

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ECO-TECH LABORATORIES LTD. Don Enders Laboratory Hamager

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ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamioops, B.C. V2C 2J3 (804) 573-5700 Fea 573-4557

JANUARY 24, 1989

CERTIFICATE OF ANALYSIS ETK 89-27

MINEQUEST EXPLORATION ASSOCIATES LTD. 5TH FLOOR, 164 WATER STREET VANCOUVER, B.C. V6B 1B5

ATTENTION: ROBERT LONGE

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ECO-TECH LABORATORIES LTD, DON ENDERS LABORATORY MANAGER

CC: LINDA LEE VANCOUVER, B.C. SC89/PDL

MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-27A

10 POCK SAMPLES RECEIVED JANUARY 18, 1989

10941 EAST TRAKS CANADA	HIT.
YANLOOPS, B.C. 920 233	
PROFE - 604-573-5700	
FAL - 604-173-4557	

STH. FLOOR, 164 BATER STREET VANCORVER, B.C. V6B 105 ATTENTION: R. LONGE

PROJECT: PR

JANSARY 23, 1989

VALLES IN PPH UNLESS OTHERWISE REPORTED PAGE 1

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CI: LINOA LEE VANCOUVEP, E.C.

FAL: YCR

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ECO-TECH LANORATORIES 170. Ban Enders Laboratory Namojer

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ECO-TECH LABORATORIES LTD. ASSAYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamloope, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557 1 1 1 Meles JANUARY 20, 1989 TCERTIFICATE OF ANALYSIS ETK 89-20 MINEQUEST EXPLORATION ASSOCIATES LTD. 5TH FLOOR, 164 WATER STREET VANCOUVER, B.C. V6B 185 ATTENTION: ROBERT LONGE SAMPLE IDENTIFICATION: 18 CORE samples received January 16, 1909 PROJECT: FDL AU ETH Description (ppb) 55 Tty TMS 02 65 20 .. 1 10 20 2 66 ---15 20 -З 67 20 4 68 20 5 69 10 20 ---TRS 70 15 20 _ 4 7 10 71 20 ---72 20 20 8 -73 10 20 -9 20 -- 10 74 15 25 20 20 11 15 - 12 76 20 5 13 77 20 205 20 - 14 78 25 20 - 15 79 <5 00 20 - 16 120 - 17 PDL 30 20 140 RC-3 20 - 18 31

NOTE: < # LESS THAN

ECO-TECH LABORATORIES LTD. DON ENDERS ABORATORY MANAGER

CC: LINDA LEE VANCOUVER, D.C. SC89/PDL

MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-20A

18 ROCK SAMPLES RECEIVED JANKINGY 16. 1989

10041 EAST TEAMS CARADA HEY. KANLOOPS, S.C. V2C 2J3 PHINE - 644-573-5700 FAI - 604-523-4557

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STIL FLOOR, 164 WATER SIREET VANCOUVER, B.C. WAR LES ATTENTION: 8. LONGE

FORJECT: PEL

JANRIARY 29, 1983

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VALUES TH PPH DIMESS OTHERWISE REPORTED PAGE 1

S2 TIO) đ ¥ 0 1 11 m #(1) \$(D) LA 1600 - 24 XI 14(T) 31 Ρ 摺 59 516 46 34 (7) RA 10 M II CD . œ 62 DESTRIPTIONS . ETK - SC --------------.11 (19 49 (19 12 :3 910 2.5 2250 25 13 (20 154 28 2.25 199 .80 2 S .95 12 74 .43 185 39 53 .5 1.79 - 29 <2 190 1 \$ 51 TRY \$ 2230 (20 :59 .65 (15 (16 10 :75 <5 1.62 1 10 44 21 3.33 . (5 190 .93 168: 3 .03 40 :0 65 .8 2.04 :5 (2 - 2 π -55 10 1120 42 10 (29 156 .05 (10 **40** (10 11 3 3 2.53 .37 200 991 1 .03 .6 1.22 (2 170 1 12 - 3 67 15 e 142 (10 42 (13 13 11 32 20 2.78 .41 200 .58 1975 2 .03 9 1326 æ 5 (23 .56 .8 1.33 :5 -12 195 65 1.19 4 83 - 1 (20 156 .06 (10 5 110 14 21 14 2.28 .22 160 .57 446 .05 5 :720 5 7 4 59 .6 1.05 :5 (2 105 3 -55 11 8 EI - 5 13 13 1.53 .25 160 .53 341 .07 5 :790 ŧ 5 (29 153 Ĵ, <10 54 {1¢ 36 139 (5 .61 11 2 11 6 .4 1.21 <2 - 5 70 10 12 -27 160 STE 5 1620 Į9 :20 137 .08 (19 61 <10 Σ 14 2.93 .51 8 . 36 4 71 .6 1.14 :5 <2 150 6 .55 a 10 53 - 7 10 (20 187 .09 (10 53 <10 12 26 **{**\$.60 1 9 117 12 2.73 .23 16.0 .62 \$34 8 .68 5 1520 10 .5 1.19 :5 \$2 180 - 4 7Z £ 12 91 :228 :45 110 12 2.23 .29 120 .55 752 5 .05 4 ċ 3 123 .11 < 10 - 9 73 .6 1.01 10 <2 185 <5 .53 1 10 50 (20 103 .14 (10 66 ::0 13 39 160 . ?! 5 .26 ¢ :630 É. 5 176 ÷S .57 ł 4 71 11 1.94 .28 1692 .5 1.12 :2 - 10 74 5 TRS 59 (10 13 86 5 3660 5 <20 125 .15 <18 75 .6 .34 10 :2 190 **ć**5 .50 1 10 112 11 2.58 .20 150 .54 129 . .01 3 - 11 35 (10 15 36 (20 334 . 35 <10 1 53 13 2.36 .22 200 .52 555 5 .07 1 :210 ٤ 5 12 160 (5 .56 8 - 17 76 4 . 97 15 66 197 (10 20 (10 14 .57 65 10 2.22 190 .48 469 8 -04 4 1730 :2 S +20 .04 77 10 (2 110 :5 (1 S - 13 .4 1.01 16 169 467 .03 <10 109 <1e .12 713 .85 19 3670 12 10 (20 71 28 4.61 .18 180 • - 14 78 .4 2.11 55 <2 175 (S 1.12 2 18 17 112 <10 167 29 4.75 .21 130 . S6 719 9 .07 17 3900 14 13 (20 824 .04 . 10 .4 2.12 (5 1.17 13 83 79 75 ₹2 220 1 - 15 15 72 :52 :10 4 <10 .28 5 (830 < (20 .04 54 10 2.50 130 .54 550 7 .05 9 88 .4 1.14 15 (2 :35 ÷S. . 56 **(1** 7 - 16 10 37 22 1 2.28 .22 :80 .25 102 62 .64 2 1300 21 5 :20 69 .03 -10 3 7 2 .6 .35 340 (2 155 -5 .14 - 17 30 1 261 RC-3 30 (10 12 138 13 3.37 .28 190 .55 249 (2¢ 53 .03 119 5 1640 14 10 .6 1.23 340 <2 55 -55 .50 1 1 - 39 29 .04 20 - 18 31

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CC: LINEA LEE VANCOUNCE, B.C. FAL: YOE

ECG-TECH SACRATORIES LTD. Des Enders Laboratory Banager

SCOM/PEL

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ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 873-8700 Fax 673-4567

JANUARY 26, 1989

CERTIFICATE OF ANALYSIS ETK 89-28

MINEQUEST EXPLORATION ASSOCIATES LTD. STH FLOOR, 164 WATER STREET VANCOUVER, D.C. VAB 185

ATTENTION: ROBERT LONGE

SAMPLE IDENTIFICATION: 77 ROCK CHIP samples received January 18, 1989 PROJECT: PDL

ET#	D	escription		۵۵ (ppb)
28 -	1	PDL 87 1	RC-1	20
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28 -	18	18	RC-2	10
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28 -	30	32	nc-3	10

Page 1

FROM ECO-TECH NAMEOUPS



ECO-TECH LABORATORIES LTD.

ASSAYING • ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamioops, B.C. V2C 2J3 (604) 873-8700 Fax 673-4657

MINEQUEST EXPLORATION ASSOCIATES LTD.

JANUARY 26, 1989

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Page 2



A88AYING - ENVIRONMENTAL TESTING 10041 East Trans Canada Hwy., Kamicops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

MINEQUEST EXPLORATION ASSOCIATES LTD.

JANUARY 26, 1989

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NOTE: < = LESS THAN

ECO-TECH LABORATORIES LID. DON ENDERS LABORATORY MANAGER

CC: LINDA LEE VANCOUVER, B.C. SC89/PDL

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MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-28A

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10441 EAST TRANS CAMARA HUY. KANLOOPS, B.C. V2C 2J3 PHONE - 694-573-5700 FA1 - 604-573-4557

VALUES IN PPN UNLESS OTHERWISE PEPORTED PAGE 1

JANUARY 25, 1969

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STR. FLOOR, 164 WATER STREET VANCOUVER, B.C. 968 195 ATTENTION: R. LENGE

PREJECT: POL 77 BOCK CRIP SAMPLES RECEIVED JANUARY 18, 1989

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28 -	11 39911	(.2 1.67	30	12	:40	(5 3.16	1	6	6	14 3.22	.22	160	.69	350	:07	.05	3	1930	28	19	<20	413	.03	(10	13	(10	10	168	
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28 -	23 69023	2.4 .53	155	2	195	(523	4	4	20	15 2.80	.36	160	.28	131	267	. 03	2	1280	36	10	(20	164	.04	(10	50	(10	8	70	
28 -	24 89024	3.2 .85	150	(2	140	(5 .51	4	:0	33	15 2.78	.34	219	.40	3:15	32	.04	-	1500	26	10	(20	10	.04	-10	EQ 00	(10	12	139	
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	29 83028	.2 1.68	15	- (2	540	(5 1.48	I	8	10	28 2.43	.37	200	.87	671	5	.05		1880	40	5	(20 (20	751	.02	<10	41	(10	i2 :3	73 72	26-2
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ECO-TECH LABORATORIES LTD. MINEQUEST EXPLORATION ASSOCIATES LTD. - ETK 89-284

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29	- '	52	89054	.6 .85				80	5.65	t	3	32	9 2.			50	.59	549	Ţ	.06	1	1380	12	2	(20	354	.15	(10	52	10	13	38	
28	- 5	53	E3622	.4 .76					(5 .64	1	9	41	11 2.			50	.51	205	- 5	.07	-	1470	14	5	(29	433	-14	(11)	49	10	!3	.16	
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28	- (51	89063	.2 1.58		- C	-		(5 2.34	1	6	I	10 [.			40		1157	- E	. ôS		1450	20	5	(29	361	. 94	(10	33	(10	12	62	
28	- 8	62	39064	.4 1.57	េរេ	- 0	23	ង	(5 1.80	1	1	17	12 2.			30	.74	6.6]	. 0£,		1460	13	5	(20	493		<1 0	37	(10	12	42	
28	- 6	ន	89065	.4 2.11	15	(7	- 66		(5 3.27	(1	7	16	12 2.				.75	842	2	. 29		1480	24	10	(20	605		(10	42	(10	10	78	
28	- 6	54	89065	.2 1.09	-	$\langle 0 \rangle$		-	(5 1.00	(1	4	7	7 L.				. 37	343	2	.11	2	810	18	5	(20	622		(10	23	(10	Ł	\$4	
28	- 6	55	89067	.2 2.29	10	<	22	5	(5 1.58	4	10	31	318 2.					496	1	. 94		990	32	10	:20	542	.05	(10	55	:10	14	33	
28	- 5	55	89968	.4 3.02	20	1	17	70	(5 1.32	ı	12	19	24 2.					1025		1.39		2110	10	15	(20	345	.11	(19	S	(10	12	86	
28	- 5	57	89069	.4 4.29	20	4	17	10	(5 1.10	ł	11	17	21 2.	42 .3	2 1	EQ	.69	650	2	3.92	Ŧ	.860	36	20	<20	541	.12	{10	57	(10	11	90	

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3 - 63	89079		4.58	22 25	4	180	G 1.	15 1	11	 !7	20.22			160	.50	635	3 4	4.7?	1	1940	40	15	(20	629	.13	(10	56	(10	10	91
7 - 69	81071	.1	4.09	:5	4	215	J 1.	92 1	11	Z :	16	1 2.10	.25	130	.43	606	5 3	3.86	6	1580	3	15	(20	633	.18	<10	33	(10	3	8
23 - 70	89072	.4	5.20	15	2	345	۲ 5 .	88 (1	11	25	25	1.73	.32	140	.48	521	1 1	2.71	7	1630	24	10	(20	654	. iS	(10	56	CĮQ.	10	8
8 - 11	83073	.4	2.27	20	4	310	51.	n a	10	31	21	2.09	.36	140	.53	514	2 1	1. 69	6	1490	26	10	{20	628	.01	(1)	47	{10	9	ā
3 - 12	89074	. 6	3.29	15	1	200	61.	51 1	11	15	21	1.57	.39	160	.77	765	3 :	C. (9	7	1819	35	10	(20	481	.17	<19	59	(19	ю	9
B - 73	89075	.6	4.25	20	4	205	6 1.	29 (L	13	13	- 29	2.24	.45	190	.ភ	711	2 3	1.57	6	1810	(8)	15	(20	314	. 18	(10	43	(10	11	8
8 - 74	89076	.6	4,00	20	2	170	(5 2.	4e (t	11	8	23	2.01	.39	159	.8!	659	1 3	1. 22	7	1860	4 6	20	(20	414	.14	<10	42	(10	10	
8 - 75	89077	٠,4	1.09	tS	2	200	S 1.	16 1	10	G	22	2.28	.33	160	. 56	673	2 !	. 35	6	1990	23	10	20	596	.12	<10	50	:10	10	ġ
49 - 76	89078	.5	2.55	15	2	E70	5 1.	34 1	13	18	33	2.26	.44	160	.65	164	3	.12	3	2390	19	i0	<20	692	. 18	10	54	<10	11	9
21 - 12	89079	.4	2.85	!5	(2	:45	(5 1.)	16 1	11	40	19	2.55	.38	220	.65	167	÷ 1	. 14	6	2050	24	19	(20	533	.20	{]3	72	(10	11	8

ECH-TECH LASORATORIES LTD.

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Laboratory Hanager

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NOTE: < = less than

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CC: LINEA LEE VANCOUVER, B.C. FAX: VCR

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APPENDIX IV

REVERSE CIRCULATION DRILL LOGS

											7			
MINE	QUEST EXF	PLORAT	TON	455	loci	ATES	т.т. 7	ח			HOLE		00 1	
PROPERTY: PDL		TOTEL						2.			FIL	87-	RC-1	
CLAIM BLOCK CODE: PDL	אם	ILL LOC	- (ORE			DRI	LLING	co.:/	lorn	19	AN.		
NTS: UTM:			- ·				STA	RTED	-41	19/9	6.8	9		
CLAIM NAME:									ED: V			<u> </u>		
LOCATION - GRID NAME:		SUR	VEY									ed 20	me si	Indur
GRID N: 100+33N GRID E: 99+14E	DEPTH AZIM	DIP	DEPTH	AZI	ML	DIP			u ce			تو ت		
SECTION: ELEV:					1		COI	RE RE	COVER	Y:				
AZIM: 090 LENGTH: #65'175'				1	1		LOC	GED	BY:	Paul	Con	ver/		
DIP: -65 CASING LEFT?:				1		<u> </u>	DAT	TE LO	GGED:	Jan 9	3+10.	198	9	
CORE SIZE:				1					BY:	Eu	otect	Lak	, KI	vs.
CORE STORAGE:				1					ORT N					
TENTURE ALTER'N.	L					1								
MINERALIZATION, GRAPH	CRIPTION			INTERV	/AL(ph) PT	RECY	EST.	SAM. No.			ASS	SAYS		
ETC. GEOL DESC			ſ	FROM	TO		GRAUE	NO.		1			Ī	1
			1					- <u></u>		1				1
	<u>.</u>									1				1
1 51				i		1				1				
			i i			1				1			Ī	
ANDERITE I VOI med to to dk make:	1 whe alt's with	inor sau	155-1	B	15	1	PDL	89001		1			Ī	1
All of Hall there				1		ļ				1				
ANDESITE # 10 med. bn to dk grbn; of H31 phinos f 115 dk gy bn to ~18;	mod hn to ~?	2 · both	ute.	151	25	1		See						
alid: med. av ble	achod N. more	Sausse	ritized	1		1		89501						1
201 Hsp, mod clay a	It's some Fealitis	tr PY	احتريت	1										1
			1	1										
al 251/t->mod ay w/wk->	mod clay alt'ng	+ sauss'd	fls:	25	35			89003						1 .
~15-20% tots strong	LI-tainine		/ 7/											
30	,	.												
at 35 med br. LI stained ma	+ day alt'n to.	~21:11	Fay	35	451			89004						
blch'd to ~42', wk	ly alt'd dr b	n. ando	ente											1
HOHO~44' med any wk	ly nornh (6bl).	hi silica												1
DYKE? 44'	1 p - 1 - 6 - 6 - 1 - 1 - 1													
a distance has a short to	~46' wed he	-med	ay !	451	55		PDL	තීත්						<u> </u>
ANDESTE 46 Strong clay alt'n w FAULT ZONEN 50 Sams'd; tault o	I tr PY, locin c	a. sho	rely											1
FAULTZONEN 50 sams'd: Fault o	~ 453	37202	37										<u> </u>	<u> </u>
53' 44													<u> </u>	<u> </u>
515													<u> </u>	<u> </u>
							1						<u> </u>	<u> </u>

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	MINEQUEST	EXPL	ORATION ASSOCIATES LTD. DRILL			1			IOLE No.,	POL 89-4	C-1 P	AGE No
	TEXTURE, ALTER'N, MINERALIZATION,	GRAPH	DESCRIPTION	DATES		RECY	EST.	SAM		A	SSAYS	
	ETC.	GEOL	DESCRIPTION	FROM	1 10		GUNDE	i na				
•		فتبطيعهم	fault gouge to ~62'; gy w/ hi clay alt's	1 55	165		PDL	89006				1
			tout gouse to ~62'; gy w/ h clony akt n, loc'y blue; some LI-staining	1	1			189502			<u> </u>	
	ANDESITE 62'	TGOI	locy but, and se somery	1	1	1						
•	AMACULICE			1	1					1	1	<u> </u>
• .		65	moderate - intense day altin w/ much blue	165	175			189007				<u> </u>
•	<u></u>		planed. 70-30% hi LI: ~5% cg PY; flap		1					<u> </u>	_	<u> </u>
1			phenos destroyed.	1	1				<u> </u>		<u> </u>	<u> </u>
		1 1 1 1		1	1							<u> </u>
• •	small chies as	J 4151	red mod sifd rock up flsp->day; due >	175	135			89008				<u> </u>
		1 1 1 1	wt day :5% mg PY: fr ~ 84 Green silied	!	<u> </u>			1			<u></u>	<u> </u>
		60	w/ tr PY, sec BT?	<u> </u>							<u> </u>	<u> </u>
		1.111	·. · · ·	1		<u> </u>						<u> </u>
•	S	851	red med sltd to ~ 90' as prev; blue to wit	185	195	!		89009		!	<u> </u>	<u> </u>
		1	intense day alt'n w ~11. PY, SI. CL; <11.	1	1							· <u></u>
•	a	1 19101	ate chips.	!							<u> </u>	1
				1								
	a	19151	It-med by strong clay auth w wk strn;	195	105			69010				
		1 1 1	N21. PY: track dive green EPalty	<u> </u>				895031				
		11dd	1041	<u> </u>	<u> </u>						_ 	
				1				<u></u>				
	a	1 11951	~10% str. clay at n to ~106; med gy mod	105	115			89011				<u> </u>
	S		sttd w/ secondary rd-bn BI, 55% gtz	1	·					·		
		1110	chips + <11. PY (ufg)									<u> -</u>
					1000		{					<u></u>
		111151	intense clay alt'n or tault to ~ 122!;	115	123	<u> </u>		5901Z			+	
·	+0~122'		rest med blay ± sife w/ some ZE ; // PY;</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td><u></u></td>								<u> </u>	<u></u>
·	l		some atz-CL fats.	<u> </u>								<u> </u>
	<u>a9</u>			125	170-1			890131			+	<u> </u>
	<u> </u>	12151	plive gn mod sltd + EP-alt'd w/ some ZE; tr	165	1551				; i			
			PY; ~ D%. gtz-carbonate chips; ~10%. clay					89504	<u> </u>			
•		130	<u>75+5</u>				. 				1	<u> </u>
				1135	140-1	10		89014				
	a	135	med ay, mod clay alt'd w/ some at = chips		172			1			1	ii
	· · · · · · · · · · · · · · · · · · ·	1401	(5%); some atz-carb-zeolito stars.						`		<u> </u>	·
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· ·	MINEQUEST	EXPL	ORATION	ASSOC	IATES	LTD.		DRILL	1		1 1	1 1	1	1	NoPOL	<u>- 89-</u> R	2C-1 P	AGE N	<u>o.3/</u>
• ·	TEXTURE ALTER'N, MINERALIZATION, ETC.		1	J	DESCRIP	TION		1	INTERV	VAL(20)	RECY	EST. GRADE	SAX No.			A'	SSAYS		
•	1	I ETI	}	· 7 6			0.04		I 1451		· <u>·</u> ··································	IPOLI	150-11		+	+			
•	ļť	<u>I AISI</u>	marcon w/	WR SIF	<u>n+sai</u>	ASSIC FIS	<u>s alco (</u>	NR	1271	-122	<u>'</u>	FUL	139013	<u> </u>		<u> </u>	+		<u> </u>
	ļ	1.19	clay alf'r	1; Some	<u>te sr</u>	<u> 915.77 P</u>	7, 5/7.		037	<u></u> '	<u> </u>	<u></u>		÷	÷	<u> </u>	- <u></u>		- <u>-</u>
	ļ	TISIC	gtz chij	25					- The second sec	·'	l	·		+	÷				<u> </u>
· .			as prev.		TILE	Nellar	-t-re		IES	165	·	;;	189016		÷	+			\
•	ft	1192	as prev.	w/ Ja	HA, 1-	Terras	22:0				 	`	1000	+	+			+	<u></u>
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	<u> </u>		<u></u>			<u>.</u>				,;		, 		+	1	1			1
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-	/									<u> </u>	<u>+</u>			<u>'</u>	<u> </u>	<u> </u>	1	<u></u>	+
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PROPERTY: PDL MINI	EQUEST EXPLORATION	AS	SOCI	ATE	S LI	TD.			DLE No. PDL	89-F	2-2
CLAIM BLOCK CODE: PDL	DRILL LOG -	CORI	2				<u> </u>)	
NTS: UTM:	•					ARTED	: <u>Jah</u> ED: Jah	$\frac{10}{2}$	<u>3837</u>		
CLAIM NAME: LOCATION - GRID NAME:	SURVEY					RPOST					. .
GRID N: 100+54 GRID E: 99+31	DEPTH AZIM DIP DEP1	H AZ	INC	DIP							
SECTION: ELEV:							COVERY				
AZIM: 250 LENGTH: 12.5	•						BY: PI			7	
DIP: -45 CASING LEFT?:	•						GGED:				
CORE STORAGE:	•						ORT NO				
TEXTURE ALTER'N, MINERALIZATION, GRAPH		INTER	VALLEN			SAM			ASSAYS		
ETC. GEOL	CRIPTION	_		RECY	GRADE	No.			1		
FT		FROM			<u> </u>		· · · · · ·	<u> </u>		+	
	· · · · · · · · · · · · · · · · · · ·	1	1	1		1					
ANDES TE 6 4 151 rel. unalted marcon ve	ok, wk causs' Hsp;	16	15		PPL	199018					
some LI-staining, +	rey, rare grz fots?	<u> ·</u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>				
			1	1	!	<u> </u>					
1 11 Stas previous	· · · · · · · · · · · · · · · · · · ·	$\frac{1}{1}$	125	1	1	89019					-
			1	1		89555					
20	·····	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-			<u> </u>	
	281 11-2	125	120-	1		890Z0					
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Bolatin	, mor - ciny (grey)										1
all											
at 35ft gy mad clay alt	d w/ poss. wk sign, tr PY	35	45			87021					
Alo	I-stained									+	1
	sur recas	.									
s Alsas above sl->mod	std? w/~ D%. near-	45	55		PDL	89022					1
FAULTA 71 White that Fa	ult ~ 47!						 				
50 at alta.											
65											
		†									

			ORATION ASSOCIATES LTD. DRILL	_					OLE No.	PUL 8	9-RC-2		10. 2 /
-	TEXTURE ALTER'N, MINERALIZATION,	GRAPH	DESCRIPTION	INTER	FT.	RECY	EST.	SAM			ASSAY	S	
	ETC.	GEOL		FROM	1 10](1	1
	S	55	It gy : gn str. sltd w/ tr py+AS; much CL;	1 55	65			89023					
		1 11 1	intense clay alt's or goinge (Fault) fr ~	1	I	<u> </u>		895d					
	FAULT 60'		100'		1	<u> </u> !							
-	to 70'		alta	<u> </u>		<u> </u>							
		65	fault gouse w/ much mixed types	165	175	1		89024	<u> </u>	<u> </u>			<u> </u>
		1	to ~ for; It grey str. slfd w/ tr PY,		<u> </u>	<u> </u>							
•	ANDESITE FO	's HOI	little reminent textures, few stars; su sec	<u>BI ?</u>	<u> </u>		<u> </u>		;				
				175	1			Cia: art					
	3	1 7151	It grey, mod - str. sitn w/ mod LI staming	175	185	<u> </u>		89025					
			to a 33' mod-+str chyaltin w/ w/k		<u> </u>	<u> </u>			i	·			
			a sith, NICH. gtz chips. 11. py assoc w) da</td <td>¥</td> <td>1</td> <td>·</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td>-<u></u></td>	¥	1	·				<u> </u>			- <u></u>
	0			150	195			89026			<u> </u>		+
			intense day to ~90' poss full; med	103	1.22			87507					
•	FULLT OF			1	;			0/30 1					<u> </u>
•	1 LAULI 00-0		Edion whalt'd wi hi LI	÷		1	<u>+</u>			i			<u> </u>
	<u> </u>	1 10-	mostly unalt'd to we clay + sanssente:	195	1105			370271	i				
	1		tr py + v. rare atz stars:~20%. tats	+				<u>- 12 00 0</u>		1	i		1
· ·			charty red ubl- porph dyke.	i		1	Ì	1		!			1
••			Charty rea war perpresente	1	1		1	1			1		T
~ .	P	105	deay. bn. v. we alten w/ <5% mod	Tras	115		ľ7	89028				1	
			clan alto fats.	1	1 ·			· ·					
		11110		1		1						ί.	1
_													<u> </u>
-	f	111156	60% red-bn we day alt'n; 30% It anay	1115	1251	1:	PDL	89029				<u> </u>	
			mod clay w tr PY: 10% rel unalt wit	1					<u> </u>				
	. ar	1120	EP+ZE patches.					·					
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PROPERTY: PDL MINI	EQUEST EXP	LORATI	ON A	ASSOC	IATE	S LTD	•		HOLE N	o. 89-1-	<u>२</u> ८
CLAIM BLOCK CODE: PDL	DR	ILL LOG	- co	ORE		STAR	TED: JA	: NORT	39	7	
CLAIM NAME:		SURVI	rv					JAN 11/8	189		~
LOCATION - GRID NAME: GRID N: 100+05 GRID E: 99+21	DEPTH AZIM			AZIM	DIP	PUR	POSE				
SECTION: ELEV:						CORE	RECOVE	ERY:		·	
AZIM: N/A LENGTH: 115'			i					PAUL	ONRO7	7	_
DIP: -90' CASING LEFT?:	1	1	1			DATE	LOGGEI	D: JAN	11/889	>	_
CORE SIZE:								ECOT	ECH (
CORE STORAGE:			<u> </u>			LAB	REPORT	NOS.:			
TEXTURE ALTER'N. MINERALIZATION. GRAPH ETC. GEOL	CRIPTION		M	TERVAL(;	REC'Y	EST. S GRADE	Na.		ASSAY	2	
I FTI			[F1	ROY TO		<u> </u>		_		<u> </u>	
						<u> </u>					
	I all all Pla	a abi	1	615	· 1	PDLIS	2020			<u> </u>	-
6'ANDESITE ISItized av (locy LI-strid) u SI trufs 24; <11/ atz cl	ine w/ ma et	K DICY Z	11552 1-21				X70.2				-
1/10/ D-11, STA-4124	ips of rare si	Jisjon s	<u></u>		1	1	1				
SI 1157 med ay, wk-> mod d	Fe w/ to ~1%.d	ssm PY, se	mel	15125	<u> </u>	8	2031				
sec. BI; U. rare at	- chips+stars	<u>; loc. h</u>	<u>vi</u>			ŀ <u> </u>			<u> </u>	<u> </u>	
ziollI-stra		-								<u> </u>	
3 25 as prev. w/ 31 >317	(DV: Nota	-		25135		8	20371				-
I I small day seam	heher 37/ + 37	cups,		<u></u>	1		1050				-
361					1						
SI 315 as pres w/ < str	to 38'; rel fre	wh reddi	sh 3	35145	5	18	2034				
fill w/ some sams in ticla	yaltin to-42	med an	.ay								_
s Holatz-CL-altid w/ to	<u>- PY</u>										_
	1 . 1 . 101.			1-1-			03				-
a med an av as last	above to ~48;	Tan w/		15 55		0	703 7				-
a med obtailth + poss 50 ay wk -> mod stop			<u> </u>		+			++			
SI Chips	w/ II C/ + ra	c qie									_
55		· · · ·			1						_
					1		1				

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	AINEQUEST		; - (HOLE NO. PU 89-RC-3 PAGE No. 2/2						
TE	AINEQUEST EXTURE ALTERN, ENERALIZATION, ETC.	GRAPE	DESCRIPTION	INTER	RVAL(m)	RECY	EST. GRADE	SAM No.	-	ASSAYS			
	Eiler -	FT		FROM			•	ł	1		<u> </u>		
	3		Flund any wind alter as ones to of the will we	155	165	<u> </u>	1 PDL	18903	15				
		TIT	clan + site alth, some # stors to 62'!	Ī				18950	9		<u> </u>		
			planet an ay we ston to PY		1	1	ľ						
·				1		1	<u> </u>						
	5	114	Jured may to 671 med pinkish w/ wk->mod	165	175			8903	an				
	<u>~</u>	in the second	Can bett + wik site to 73'; med snigy wik	1		1			T I				
,		the second s	SIFN with PY. loc'n his CL; rare local	ſ	1	1 '	1		T				
			I clan · n'ch.	1	1	1	1	1	1 1				
·				75	IST	1	1	18003	12	1			
		the second s	I mad clay altin to 82"; med.ay, wk simi		1	<u> </u>		م تعم نك. ا	1 1	1 1	1		
<u> </u>	<u> </u>	T RO		1 <u>.</u>	1	1		1	i i	TT	1	1	
·			W SI Con and the to the the content	<u> </u>		; 	, ,						
<u>├</u>			the state offly door the state	85	95		;i	8235	a				
· -	<u> </u>	142'	Thed man is nod clay alt a tar peno's;	<u></u>	12-1	 	 †	<u></u>	a	++			
·				·	 ;	 	;;		+	++	<u> </u>		
· -		1 90		, 		1 <u></u>							
·	<u> </u>					 +		Saure			<u>i</u>		
· –	<u> </u>		TV. tresh marcon anderite ut sev. carbonati-1	ا دچــا	105	;;		189039					
· ·				l	<u> </u>	 		189510	·				
		1100			<u> </u>	<u> </u>			<u></u>				
		1 1 1		!	<u></u>	<u> </u>	<u> </u>		<u></u>	_ <u>_</u>			
	f		15.a.R	1051		<u> </u>	PDLI	<u>8904</u>	<u> </u>	<u> </u>			
					<u> · </u>	<u> </u>			<u> </u>	_ <u>_</u>			
-		1 1110			<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>		
-		1			<u> </u>	<u> </u>	<u> </u>			<u> </u>			
		TIL	E.O.H.						1				
						<u> </u>							
	-	1 11 1											
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·		1117			, I	, 1							
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		; ; ; ;			1		1		1	1 1	1		
·		++++	<u></u>			T			1	1			
}									1	TI			
			<u></u>	+	<u> </u>	÷	<u> </u>	·	÷	+			

						DI	DRILLING CO .: NORTHSPAN STARTED: JAN 11/89									
CLAIM BLOCK CODE:	DRILL LOG - CORE															
NTS: UTV:		-							MPLET		N 12/					
CLAIM NAME: LOCATION - GRID NAME:		-		SURV	ÆY				JRPOSE		<u>no 121</u>	<u>e7</u>				
	DE: 99+13	DEPTH	17TV	DIP]		AZIN	DIF			*						
SECTION: ELL				<u> </u>		1000			रेट उदा	COVERY:						
	IGTH: 195'					<u> </u>	<u> </u>					- mip	$\overline{\gamma}$			
	LEFT?:	·							LOGGED BY: PAUL CONEOY DATE LOGGED: JAN 11+12/89							
CORE SIZE:		-				1	1		ASSAYED BY: ECOTECH							
CORE STORAGE:						[ORT NOS						
		• [!			1							
TEXTURE ALTER'N. MINERALIZATION, GRAPH	אזת	SCRIPTION			IL	TERVAL FT	L(mi) REC	GRAD	SIL		A	SSAYS				
ETC. GEOL		CRIPTION			F	ROX	10	GRAD.	E No.		1	1	ł	1		
						10-1		1			i			1		
		· · · · · · · · · · · · · · · · · · ·	······						1				1	ī		
								1	+					Ì		
7 ANDESITE I I INC.	maltid to by a	nderite into	saure'a	of He	0 fm 1	71	151	PhL	18904	1			1	T		
	de play when								1	j		1	1	Ţ		
	-p-gy war	~ congrait						1	1		1	1	1	1		
	okay w/ mod :	law alt's	Natel.	es into	10.00	1512	251	1	189042							
	atz-CL Fats.					<u> </u>	1	ŀ	89411		1			I		
20	7						1	1	1					I		
					<u> </u>				1		1					
a estas o	Nev to 28"; 1	ed-hn wh	clav a	It'n so	The T	253	51		189043		1					
	has + UNS EACL						1.									
20 5121																
	·····				1		1	1								
SD : 35 re-6	n we attrad A	145 40 42	; Lt.m	ed of	av 1	35 4	151		89044					I		
	icd->str clav						1							T		
407																
all														Ι		
	ed plegy as pr	ev to 47	1/>clar	y alt'n	.: 14	45 3	55	PDL	89045							
			· · · · · · · · · · · · · · · · · · ·							1				T		
d 1/4-m	od av us med	to locy s	tr Sta	n. 900	0	1								_		

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	MINEQUEST	EXPL	ORATION ASSOCIATES LTD. DRILL	LOG	<u> </u>	ORE		H	DLE No.A	DL 89-	RC.41P	AGE No	, 2
·	TEXTURE, ALTER'N, MINERALIZATION,	GRAPH		INTERVAL(Z)		rec'y	EST. GRADE	SALL No.	<u></u> _i	ASSAYS	- <u></u>		
	ETC.			FROM	10				1			<u>_!</u>	
		Ide	medalt gnigy, strilay alt'n u/ patchy nod-> stridtn; ~= // gtz chips, trito~ 1% PY	35	65		PPU	89046					1
	a+9	35	matic grigy or cay since to rive PY				1						
			some sec. BI?										
		60	Some Spc. 13L.									<u> </u>	
· .		115	as prev; sl >slfn, sl >cl; rare EP, trPY	65	75			89047				_	1
•	5		5-10% gtz chips; sec. BT?				}	89512		1	1		1
			= 10% giz rups; see. BE.	-									
		1 70									<u> </u>		
			1 -14 11/ PY 151/ 172	75	85			89048					ł
	4	45				1	i		t		1		ł
			chips; some red. ZE stars; flsp alt to stay							1	1	1	1
		1 80	some ec. BI?				1	1	1			I	
			·	85	95			89049	1			1	!
	्व	85	as prev: >70, mod sign w/~5%. UFB PY:	<u>_u</u>								1	T
•			5% gtz chips, sm stars; some sec BI; ~10%.						<u> </u>	1		1	ī
	DYKE? 99-97/	190	ol. an sife dyke? teatureless.									1	T
•				~	105			87050	1			1	T
		1 95	dan stad dyke? to ~97'; med = 14 gngy w/	-25	103							1	+
•	S		sife sife si > than preut; PY si <, sm stars,					89513				1	T
• •		1019	Satz chips.										Ť
••				100	1100						<u> </u>		+
- .	d	1 11015	med ay: an aik slfd w/~ 10%. Et gy gn str	105	ाड			89051			<u> </u>	+	+
			slfd: to vta PY ~5% of tats + some CL										;-
-		11110	10 , 1 , 3									- <u> -</u>	+
		111										<u> </u>	+
	a	11115	as prev, we stim wy >CL, mod clay altin	115	125			8905Z		<u> </u>	_ 		+
		1	w/ tr PY. 1% atz chips.</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td><u> </u></td> <td></td> <td>+</td>							<u> </u>	<u> </u>		+
		120											+
		1 11											┿
-	0	1125	as prev w ~20% for mod stry; mod clay	25	135			99053					+
•			WI mod at 2- ZE-CB stars w/ PY; 14. gt 2 chips					82.514			<u> </u>		+
			+ ~1%. PY										<u>+</u>
			· · · · · · · · · · · · · · · · · · ·				·						+-
		1125	as prov, sl < slfn, <py< td=""><td>135</td><td>145</td><td>1</td><td></td><td>89071</td><td></td><td></td><td></td><td></td><td>+</td></py<>	135	145	1		89071					+
			repair = page										+
		140											+
									i		<u> </u>	_!	

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	MINEQUEST	EXPL	ORATION ASSOCIATES LTD. DRILL	RILL LOG - CORE					HOLE NO. POL 89-PC-4 PAGE No. 3/3							
	MINEQUEST TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH	DESCRIPTION	INTER	EVAL(pd) FT REC		EST. CRADE	SAM.	ASSAYS							
•	EIU	FT		I FROM	1 10				,	<u> </u>	<u> </u>	<u> </u>		<u> </u>		
	2	145	Med-dk anay, we mod clay alth w patchy wk slfngt PT ~2% at 2 chips to ~ 150°; med by wk clay altid, flsy -> qtz-cL; tr PY.	145	155		POL	89055]			<u> </u>		<u> </u>		
			sign to pr ~2% at 2 chips to ~ 150'; med by			<u> </u>			<u> </u>			<u> </u>		<u> </u>		
		1219	we clay altid, #150-> at=-CL; tr PY		<u> </u>				 			<u> </u>				
· .								6	<u> </u>	+			+	<u> </u>		
	a	122	med an-gy as prev to-156'; elive on w/ SM EP-Sto.7E	155	165			89056	 			<u> </u>	+	<u> </u>		
	P		stort patches to ~ 160'; med an w/ wkomod						ł 	+		<u> </u>	+			
	a	1190	clay alt in + patchy wk sign; <11. gtz chips, tr PY; some				······		<u></u>	÷	1	1	+	<u> </u>		
			calcitet stars	11.5	20			89057				<u> </u>	1	+		
	a	165	med an as prev to ~170; marcon w/ wk chy	162	(7)			89515		<u> </u>	·	 	÷	<u>+</u>		
			alti, mod saussid flap.					07212				<u>.</u>	1			
	the second se	1770				1			;	1	·	í — — —	1	<u>†</u>		
			rely maltid marron w/ mod gaussid plan	125	185		<u> </u>	8905	 	<u> </u>	·	i	1			
•	T	-113	local wk day altin	(1)	1 1					1		<u></u>	1	1		
•	}	11801	local we day all h				1			1		1	1	1		
•					1	1	Ī			1)	1	1		
	£	ाह्यता	as prev, v. sl. alt'd.	185	1951	1	POU	89055		1			1	1		
•			spec, racard		1	1	1			1				1		
• •		INO			1	1	1						1	1		
• •	i	111			1	1	1			1	!		1			
		19151	E.O.H.	1							!		<u> </u>	<u> </u>		
·					· 1					1			1	<u> </u>		
						!							<u> .</u>	<u> </u>		
-													<u> </u>	<u> </u>		
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	· · · · · · · · · · · · · · · · · · ·	+++											į	;		
		+++		¦	<u>+</u>	<u>+</u>		!		<u>i i</u>	;			<u>†</u>		
					ŕ		<u> </u>	i			i		1	1		

PROPERTY: DDL M	INEQUEST EXPLORATION	I AS	SOCIA	res l	TD.		hole <i>Pl</i>	No. X 8	9-RC-5		
CLAIM BLOCK CODE: PDL	DRILL LOG -	COR	7	Ē	RILLING	co.: NO	RTHER	PAN			
NTS: UTM:		COIG	<u>ل</u> ن		TARTED:		12/89				
CLAIM NAME:				C	COMPLETED: JAN 12/89						
LOCATION - GRID NAME:	SURVEY				URPOSE						
GRID N: 100+04 GRID E: 99+17	DEPTH AZIM DIP DEP	TH AZ	IN. DI	<u>P</u>					<u></u>		
SECTION: ELEV:						COVERY:					
AZIM: 090 LENGTH: 2051	——				OGGED		IL CON				
DIP: -80' CASING LEFT?:						GED: JA/					
CORE SIZE:		<u> </u>			SSAYED	BI: E	COTEC	4			
CORE STORAGE: TEXTURE, ALTER'N,		<u></u>			AB REF	IRI NUS.:					
MINERALIZATION GRAPH	DESCRIPTION	INTER	VAL(pr)	ECT EST GRAI	. SAV		ASS	AYS			
ETC. GZCL	DESCRIPTION	FROM	I TO	GRAI	E No.		1 1		1		
		1		1	1 1		1 1				
	· ·	1	1 1	1	1 1	1	1				
6 INDESITE 151 sample contam. by	out: tock the an we chelan	16	15	FD	189060	1			ł		
fail altid w/ we sanssin	:40% fr slfd fam ->14 bn w/	1									
I HOLFPY		1		<u> </u>			1		<u> </u>		
		1									
a 11151 de bri to med ayt	njusk-mod clay alt d w/ mod		25		89061						
to str sauss'n c7 fl	10, pass. we stin; som clay seam	s!			89576	<u></u>					
20											
25 4 42 - 4 - 22(.	11	125	25-		Isoaz	<u> </u>					
a going pres to 27 ;	dk gn-gy med clay. CL att duy. Hap -> atz+CL	102			Build		++				
30	Tig and the comment										
		1					+				
a 35 dk an av as preu	w) accil u. uns atzto~37';	135	1451	1	89063			İ			
11 mairoon we day	alt'd, loc'y strong; fly mod										
40 saussid											
	······································	1			<u> </u>						
+ 5 Chr.cl alth, wk	to ~49'; dk gn. gy w/ mod_	45	55	POL	89064		+				
	mod sign; some gtz chips,				<u> </u>		┿╾╌╌┼				
- So tr Py					┼╌╌┼		+				
							+				
1 5151											

	MINEQUEST	EXPL	ORATION ASSOCIATES LTD.	DRILL	LOG	(CORE		H	DLE No.,	PDL 89	-RESP.	AGE No	,2/3
	TEVTTIDE ALTER'N	1 1	DESCRIPTION				1 1	EST.	1			SSAYS		
	ETC.	GEOL FT	DESCRIPTION		FROM	_	G.	RADE	NO				1	1
			de an av as prev to ~591; marcon u	1/wk	55	165		PDUS	9013					
		IIII	de gn gy as prev to ~69'; marcon u clay alt'n to~63'; it gn gy str slf;	1 w/										<u> </u>
		1 1601	Whe clay attin, tr PY, few att chips.			<u> </u>							<u> </u>	<u> </u>
•	2	<u></u>		<u> </u>		1	1 1			<u> </u>		_		<u> </u>
•	FAULT 65-67	1 165	It by to rear wit clay to ~67 (fourt?) ; no		105	13	<u> </u>		2066				1	<u> </u>
	a		not clay altid, whe ston to ~72' it and	y str				18	227				<u> </u>	1
•			SIFA of to PY to 74'; marcon whatti	(clay).				- <u></u>						<u> </u>
, ·	8			$\frac{1}{2}$,70	S.			2017				<u> </u>	<u> </u>
: .	FAULT 75-851?	<u> </u>	tanit zone with tats marcion unaltid (2	DI. CRYON		05			Non	1			1	<u>}</u>
		1 1810	1k gn. gy (30%). (t gn.gy 3/fd(20%) in ch	aug MITX			1 1					1	1	i
•			· · · · · · · · · · · · · · · · · · ·	1					i			1	1	1
•	In the 2	50	uproon unalt'd to ~85' red, stry stifd with	hurle	84	95	1	18	200	1		1	1	
•	a		+2 + HE to 88' dk - and an wist car	altinta	~~		1		- 9	1			1	Г
		bhi	tz + HE to 88'; dk -medgy wy str chy hgl'; marcon + str. s/fd?	1	1		J						1	
	<u>-</u>	i Ti i						Ĩ						
· •	a	1 951	de m mod clay altid, flip we stild	?+saussid	95	105		15	219				<u> </u>	1
							i						<u> </u>	<u> </u>
• •		11001										1		<u> </u>
•••										!			<u> </u>	<u> </u>
	a	1 11051	med but to maroon we clay alt & wy,	patchy!	105	115 1		6	20201				<u> </u>	<u> </u>
· .:			wk stfn					<u> </u>	<u> </u>					;
		1110												<u></u>
-				0 1	1	1000			0-11	<u> </u>				
••	<u>ats</u>	1115	ned by we clay alt d w/ some need si	m, rr	<u> </u>	125			<u>2071 </u> 2578	<u> </u>				
·	a		H'd, whiston; tr PY	I CIAY				- 18	101-	<u>I</u>		1		
			Vid, WK SIM, TT FI	;							<u>_</u>	1		
		100	ued as to as prest to ~133'; medick gy,	mad	125	1351		18	2072			1	1	
	<u> </u>		Itd? Hop infact?	1		1	<u>i</u>							
		130	Train Fest Miller			1	í	1						,
•			· · ·	1	T			1		1		!		
	<u>~</u> <u>~</u>	1351	med the ay as pres to ~141'; clive on w/ w	k chay 1	1351	145 1		8	243			1		
			et'n mot EP of much CB-ZE fats; flap	->								1		
	0		Jay or ZE.			Ī						1		
				1	1	1	1	- 1			1	1		

								ţ	
	MINEQUEST EXPLORATION ASSOCIATES LTD. DRI	LL LOG	 ; - (CORE		HOLE No	POL 89-RC	-5 PAGE	: No. 3/a
•	TEXTURE ALTER'N, MINERALIZATION, GRAPH	INTER	RVAL(#)	RECYCE	ST. SA			SSAYS	
•	ETC. GEOL DESCRIPTION	FROM	(1 TO		DL 1890				
	3 1451 med zy, we clay alt's mod sift to ~151's Marcon w/ str clay-HEalt'n, v frable		102	+	1				
	allsig								
-			+		1600			+	<u> </u>
•	al 155 marcon as prev to -164'; dk marcon w/		165	++-	890				
. i	1 SOI		<u>†</u>						
			1.00	<u> </u>	6.	1 1		<u> </u>	
	f 1651 dk marcon an prev to 172; marcon HE-cla	× 1 165	175	 -	1890	6	<u> </u>	+	
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APPENDIX V

ORDER IN COUNCIL NO. 335 EXPLORATION REGULATION URANIUM AND THORIUM

-MineQuest Exploration Associates Ltd.

PROVINCE OF BRITISH COLUMBIA

ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No.

335, Approved and Ordered ILB. 27. 1987

Lieutenant Governor

Executive Council Chambers, Victoria 118.26.1987

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that, effective March 1, 1987, the regulation set out in the attached Schedule be made and B.C. Reg. 154/80 be repealed.

TEB 27 1987 R.C. RIG 59/87	1
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Davies	
Minister of Enorgy; Mines and Petroleum Repources	Presiding Member of the Executive Counci
(This part is for the records of the Office of Legislative Co	ounsel, and is not part of the Order.)
Authority under which Order is made:	
Act and section:	
Other (specify):	
Examined by:Elizabeth King (Attorney General examiner)	tang.
February 17, 1987	/ 357/87/cnc

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SCHEDULE

EXPLORATION REGULATION - URANIUM AND THORIUM

Interpretation

1. In this regulation

"Act" means the Mines Act;

"chief inspector" means the Chief Inspector of Mines under the Mines Act; "designated area" means an area of the Province that

(a) is subject to a mineral claim under the Mineral Act, or

(b) is subject to a lease under the Mining (Placer) Act

referred to in Schedule A;

"designated site" means a site in the Province referred to in a notice sent to the chief inspector under section 2;

"exploration" means the search for coal, minerals, rock, limestone, earth, clay, sand or gravel by drilling, trenching, excavation, blasting or other disturbance of the ground by mechanical means, including underground work;

"inspector" means an inspector designated under section 2 (1) of the Act.

Designated site

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2. (1) Where a person intends

- (a) to commence exploration or cause exploration to be commenced for uranium, thorium or both, or
- (b) to commence exploration or cause exploration to be commenced in a designated area

he shall notify the chief inspector of his intention by filing the form set out in Schedule B at least 30 days before commencing exploration.

(2) A person who notifies the chief inspector under subsection (1) shall, forthwith after filing that information with the chief inspector, cause a notice of the location of the intended exploration to be published in the Gazette and in a newspaper that circulates in the area close to the designated site.

Baseline survey

3. In addition to all the requirements of the Act and the Mines Regulation, B.C. Reg. 227/83, and the Coal Mines Regulation, B.C. Reg. 226/83, no person shall commence exploration or cause exploration to be commenced at a designated site until

- (a) a baseline survey of the designated site has been conducted in accordance with the requirements of Schedule C to this regulation,
- (b) a copy of the results of that baseline survey has been filed with the chief inspector, and
- (c) the chief inspector has given his written approval for the intended exploration at that designated site.

Testing for uranium and thorium

4. Every owner, agent and manager of a mine at a designated site shall, during exploration at the designated site,

- (a) ensure that all drill cores taken during exploration and other excavated or disturbed materials resulting from exploration at that site are tested as soon as practicable,
 - (i) in the case of a drill core, after the drill core is removed from the ground, and
 - (ii) in the case of materials excavated or disturbed, after the materials are excavated or disturbed, as the case may be,

for gamma radiation to detect if uranium or thorium mineralization is present,

- (b) where under paragraph (a), gamma radiation is detected as being above background level for a designated site, determine as soon as practicable after that detection, the grade of that uranium or thorium or both, as the case may be, and
- (c) keep a written record at that designated site of the grade of the uranium or thorium determined under paragraph (b).

Uranium of 0.05%

grade or more

5. Where, in the course of exploration at a designated site, uranium or thorium mineralization is encountered in a grade of 0.05% by weight or greater, the owner, agent and manager of the mine at that designated site shall

- (a) ensure that the chief inspector is informed, within 72 hours after the determination of the grade of uranium or thorium so analyzed, of the location and grade of that uranium and thorium or both, as the case may be, and
- (b) only carry out further exploration at the designated site and activities related to this exploration, including terminating exploration at the designated site, in accordance with Schedule D.

Exploration at a site other than a designated site

6. Where in the course of exploration at a site, other than a designated site, uranium or thorium mineralization is encountered in a grade of 0.05% by weight or greater, the owner, agent and manager of the mine at that site shall ensure that

- (a) the chief inspector is informed within 72 hours after the determination of the grade of uranium or thorium so analyzed, of the location and grade of that uranium or thorium, or both, as the case may be,
- (b) the form set out in Schedule B is filed with the chief inspector, within 72 hours after the determination of the grade of uranium or thorium so analyzed,
- (c) a notice of the location of the exploration is published in the Gazette and a newspaper that circulates in the area close to that location,

Must analyse for U & T forthwith after the grade of the uranium or thorium or both is determined,

- (d) a baseline survey of the site of the exploration is conducted within 14 days after encountering the uranium or thorium, in accordance with the requirements of Schedule C, as if this site were a designated site and for the purpose of this section all references to designated site in Schedule C shall be interpreted as reference to a site,
- (e) a copy of the results of the baseline survey referred to in paragraph (d) is filed with the chief inspector as soon as practicable, and
- (f) all further exploration at this site and activities related to this exploration, including terminating exploration at this site, are carried out in accordance with Schedule D, as if this site were a designated site and for the purpose of this section all references in Schedule D to a designated site shall be interpreted as references to a site.

Offence - penalty

7. A person who contravenes this regulation commits an offence and is liable to a fine of not more than \$5 000 or to imprisonment for not more than one year or both.

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SCHEDULE C

Baseline Survey Requirements

Gamma radiation measurements

1. Gamma radiation measurements shall be taken 1 m above the existing surface

- (a) at every place on the designated site that drilling, stripping, trenching, pitting or other excavation including roadmaking will be carried out, and
- (b) at other places specified by an inspector.

Water samples

2. (1) Water samples shall be taken in accordance with Schedule E from all water courses and ground water that are capable of being affected by the exploration.

(2) Water samples taken under subsection (1) shall be analyzed in accordance with Schedule E by a laboratory experienced in analyzing for dissolved uranium, gross alpha and any other constituents required by the chief inspector.

(3) The results of the gamma radiation survey and the analyses of water samples taken under sections 1 and 2 (1) of this Schedule, and a map showing the location where the measurements and samples were taken, shall be sent to the chief inspector by the owner, agent or manager of the mine at that designated site.

Surveys for radioactivity

3. The owner, agent and manager of a mine at a designated site shall ensure that measurements for radioactivity required under sections 1 and 2 of this Schedule are carried out at the designated site with instruments that are calibrated in accordance with Schedule E and the manufacturers' instructions and used by persons knowledgeable in the use of these instruments.

SCHEDULE D

Exploration on Designated Sites

Sealing of drill holes

1. (1) Unless the chief inspector permits otherwise under the Act, all surface drill holes at a designated site that encounter uranium or thorium mineralization in excess of 0.05% shall be completely filled with concrete on completion of exploration at that designated site.

(2) Before sealing a surface drill hole under subsection (1), an inspector shall be informed of the procedure to be used in sealing that surface drill hole.

(3) After a drill hole is sealed in accordance with subsection (1) it shall be marked in a durable way with the following information:

- (a) the name of the owner of the mine;
- (b) the date the drill hole was sealed;
- (c) the depth of the drill hole.

(4) A plan showing the location, size and depth of each drill hole sealed pursuant to this Schedule shall be forwarded to an inspector at the end of the exploration season in which it was sealed.

Water

2. (1) Where there is surface drilling at a designated site, the owner, agent and manager of the mine at that designated site shall take all the necessary steps to ensure that no drilling fluid, water or drill cuttings contaminate any drinking water supply, irrigation water supply or surface water.

(2) Where ground water issues from a borehole during surface exploration at a designated site, the owner, agent and manager of a mine at that designated site shall ensure that the flow of water from the borehole is stopped or contained in a containment structure prepared for that purpose, and that is capable of preventing any escape of the ground water into surface drainage water until

- (a) samples of the ground water from this borehole have been taken and analyzed for radioactivity and dissolved uranium, in accordance with Schedule E, by a laboratory experienced in analyzing for radioactivity and dissolved uranium, and
- (b) the results of the analyses referred to in paragraph (a) show that the ground water from the borehole does not exceed by more than 10% the average background level of radioactivity and dissolved uranium in the ground water at that designated site, as determined by the baseline survey required by this regulation.

(3) The owner, agent and manager of a mine at a designated site shall ensure that copies of the test results referred to in subsection (2) are forwarded to the chief inspector within 7 days after receipt from the laboratory.

Surface disturbance other than drilling

3. (1) The owner, agent and manager of a mine at a designated site shall take all the necessary steps to ensure that no water escapes from any surface pit, trench or other excavation at the designated site until

- (a) samples of the water from the surface pit, trench or other excavation, as the case may be, have been taken and analyzed for radioactivity and dissolved uranium in accordance with Schedule E by a laboratory experienced in analyzing for radioactivity and dissolved uranium, and
- (b) the results of the analyses referred to in paragraph (a) show that the water from the surface pit, trench or other excavation does not exceed by more than 10% the average background level of radioactivity and dissolved uranium in the water at that designated site, as determined by the baseline survey required by this regulation.

(2) The owner, agent and manager of a mine at a designated site shall ensure that copies of the test results referred to in subsection (1) are forwarded to the chief inspector within 7 days after receipt from the laboratory.

Sample and core storage

4. (1) No owner, agent or manager of a mine at a designated site shall store, on the surface of the designated site, drill cores or exploration samples containing uranium or thorium or both during the period of exploration at the designated site except

(a) in an enclosed facility, or

(b) a non-enclosed storage area

that has been approved by an inspector.

(2) Where drill cores or exploration samples that contain uranium or thorium are stored pursuant to subsection (1), the owner, agent and manager of the mine at that designated site shall ensure that,

- (a) in the case of drill cores or exploration samples stored in an enclosed facility,
 - (i) the drill cores and exploration samples are not accessible to any person other than a person authorized by the manager,
 - (ii) the enclosed facility is locked or otherwise secured when it is not in use,
 - (iii) the enclosed facility is adequately ventilated, and
 - (iv) a radiation warning sign is posted at or near the enclosed facility prohibiting entry unless authorized by the manager, and
- (b) in the case of drill cores or exploration samples placed in a non-enclosed storage area,
 - (i) the drill cores and exploration samples are not accessible to any person other than a person authorized by the manager, and
 - (ii) a radiation warning sign is posted at or near the storage area prohibiting access unless authorized by the manager.

(3) The owner, agent and manager of a mine at a designated site shall cause all drill cores and exploration samples stored pursuant to subsection (1) to be monitored.

(a) in the case of an enclosed facility, for levels of radon daughters and gamma radiation at such times and in such a manner so as to ensure

that no person entering the enclosed facility is exposed to a level of radiation greater than that prescribed under the Act, and

(b) in the case of a non-enclosed storage area, for levels of gamma radiation at such times and in such a manner so as to ensure that no person entering onto the non-enclosed storage area is exposed to a level of radiation greater than that prescribed under the Act.

(4) When drill cores or exploration samples containing uranium or thorium or both are shipped from a designated site, the owner, agent or manager of the mine at the designated site shall keep a copy, and forward to the chief inspector a copy, of a report that contains the following information:

- (a) the location on the designated site from where the drill cores or exploration samples were taken;
- (b) the weight of the drill cores or exploration samples shipped;
- (c) the type of rock, gravel, sand or other material containing the uranium or thorium;
- (d) the grade of the uranium or thorium;
- (e) the date of shipment;
- (f) the person to whom the drill cores or exploratory samples were shipped.

Gamma radiation exposure

5. (1) During exploration at a designated site, the owner, agent and manager of a mine at the designated site shall ensure that gamma radiation measurements are taken daily in the same manner as set out in section 3 of Schedule C.

(2) Where gamma radiation measurements indicate that a person working at a designated site may receive a radiation dose greater than 0.25 mrems/hr., a gamma radiation dosimeter of a type approved by the chief inspector shall be provided to and worn by each person who could be so exposed.

Termination of exploration at designated site

6. (1) Where exploration at a designated site ceases and any exposed surface or excavated material, including any drill cores, exploration samples and rock piles on the surface at that designated site, emits radiation above the level measured during the baseline survey at that location, the owner, agent and manager of the mine at the designated site shall, subject to subsection (2), ensure that the level of radiation is restored to a value not greater than 60 microrems above the level of radiation measured at that location during the baseline survey, by covering the exposed surface or excavated material with suitable material.

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(2) The owner, agent and manager of the mine at a designated site need not comply with subsection (1) where any one of them has received prior permission under the Act from the chief inspector to not comply with subsection (1).

(3) The owner, agent and manager of a mine at a designated site shall take the steps necessary to minimize the risk of erosion of any cover material placed in accordance with subsection (1).

Radon daughters in underground exploration areas

7. (1) The owner, agent and manager of a mine at a designated site shall, where underground exploration of the designated site is being carried out, ensure that the air in all parts of the underground exploration area where persons work or through which they pass is sampled daily to determine the concentration of radon daughters and tested daily to determine the level of gamma radiation.

(2) The method of sampling and testing for radon daughters under subsection (1) shall be done in the manner required by an inspector.

(3) The owner, agent and manager of a mine at a designated site shall, where underground exploration at the designated site is being carried out, ensure that

- (a) records showing the total exposure to radon daughters for each person who works in the underground exploration area at the designated site, are kept at the designated site,
- (b) copies of the records referred to in paragraph (a) are sent to the chief inspector once a month and given to each person who has been exposed, during the month following that person's exposure, and
- (c) a person who works in the underground exploration area is not exposed to
 - (i) more than 0.2 working level months of radon daughters per quarter of a year, nor
 - (ii) more than 0.4 working level months of radon daughters per year.

Smoking prohibited underground

8. The owner, agent and manager of a mine at a designated site shall cause signs prohibiting smoking to be posted at an underground exploration area at the designated site where a person has been or could be exposed to radon daughters while working there.

Respirators to be worn

9. (1) Where tests show that any portion of the underground exploration area or any enclosed surface storage facility for drill cores or exploration samples at a designated site has a concentration of radon daughters in excess of 0.7 working level, the owner, agent and manager of a mine at the designated site shall provide to every person entering that portion of the designated site a respirator of a type that is acceptable to the chief inspector.

(2) A person who is provided with a respirator under subsection (1), shall wear that respirator while he is in that portion of the designated site.

Inactive exploration areas.

10. (1) Where any entrances, pits or openings on a designated site are fenced or otherwise protected against inadvertent access pursuant to section 14 of the Act, the owner, agent and manager of the mine at the designated site shall ensure that signs warning of radiation are kept posted at the designated site.

(2) No person shall enter into an underground exploration area at a designated site, where signs warning of radiation have been posted at that site

unless the person is allowed to enter by the owner, agent or manager for the designated site.

(3) No person shall grant permission under subsection (2) unless the underground exploration area meets the requirements of this Schedule.

Water in underground workings

11. No owner, agent or manager shall allow water from an underground exploration area at a designated site to be discharged or to escape into surface waters until

- (a) samples of the water from the underground exploration area have been taken and analyzed for radioactivity and dissolved uranium in accordance with Schedule E by a laboratory experienced in analyzing for radioactivity and dissolved uranium, and
- (b) the results of the analyses of the samples from the laboratory referred to in paragraph (a) show that the water does not exceed by more than 10% the average background level of radioactivity and dissolved uranium as determined by the baseline survey at that designated site.

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SCHEDULE E

Analytical Standards

Collection of water samples

1. Water samples shall be collected in accordance with the following standards of the American Society for Testing and Materials, as amended from time to time:

- (a) methods D1066;
- (b) method D1192;
- (c) method D3370.

Analysis of water samples

2. Where a person analyzes water samples for the following constituents, he shall use the methods specified by the standards of the American Society for Testing and Materials, as amended from time to time, set out opposite that constituent:

Column 2

Col	umn	1

(a)	Gamma Radioactivity of Water	ASTM D1690
(b)	Beta Particle Radioactivity of Water	ASTM D1890
(c)	Alpha Particle Radioactivity of Water	ASTM D1943
(d)	Uranium in Water	ASTM D2907
(e)	Thorium in Water	ASTM D2333

Calibration

3. (1) Where a person is testing for uranium or thorium or both, pursuant to this regulation, he shall use radiation measuring devices that are calibrated

- (a) before use, on the day so used, and
- (b) at least once a month using reference materials containing concentrations of uranium or thorium or both that have been certified by the Canada Center for Minerals and Energy Technology
 - (CANMET) Certified Reference Materials Project.

(2) A person who tests for uranium or thorium or both under this regulation shall keep records of each calibration of the radiation measuring devices so used.

Determination of concentration of uranium or thorium

4. Where a person is determining the concentration of uranium or thorium in a geological sample under this regulation, he shall use

- (a) conventional analytical techniques,
- (b) equipment calibrated and monitored using reference materials containing concentrations of uranium or thorium or both that are

certified by the Canada Center for Minerals and Energy Technology (CANMET) Certified Reference Materials Project, and

(c) where the level of uranium or thorium in the sample exceeds 0.01% by weight, methods of analyses that are adequate to ensure that no error occurs that is greater than 10% of the concentration of the uranium or thorium or both present in the sample analyzed.

> Queen's Printer for British Columbia © Victoria, 1987

APPENDIX VI

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STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I Tim Sandberg, of 201 - 1286 West 14th Avenue, Vancouver, B.C., hereby certify that:

- I graduated from the University of British Columbia in May 1982 with the degree of Bachelor of Science (Major) in Geological Sciences.
- 2) I am an Associate Member of the Geological Association of Canada.
- 3) I have worked in the mining and mineral exploration industry, mostly in British Columbia since 1978.
- 4) The information contained in this report is based on fieldwork performed by the author and upon a review of the available literature.

Tim Sandberg Dated this 25th day of January, 1989

STATEMENT OF QUALIFICATIONS

I Linda J. Lee, hereby certify that:

- I am presently employed by MineQuest Exploration Associates Ltd. as a Geologist.
- I am a graduate of the University of British Columbia (B.A.Sc., Geological Engineering, 1985) and University of Calgary (M.Sc., Geology and Geophysics, 1988).
- 3. I have completed 7 seasons of mineral exploration in British Columbia.

Signed:

Linda J. Lee

Dated at Vancouver, B.C. this 28th day of February, 1989.

APPENDIX VII

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COST STATEMENT

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Cost Statement

Fees and Wages:

\$ 16,650 \$ 16,650

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Disbursements:

Scheduled air fares Rental vehicles Fuels and lubricants Contract drilling (815 ft X \$10.00) Contract bulldozer/backhoe Contract water truck Contract geophysics Room and board Field supplies Analytical 98 @ 29.00 79 @ 25.00 Communications, shipping, etc. Rental equipment (Scintillometer, etc.) Reprod. graphics, maps, etc.	\$ 700 800 200 8,150 4,150 1,088 777 2,755 300 2,842 1,975 500 300 150	·
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MineQuest Charges	·	
Photocopies Word Processing	\$ 30 200	
	\$ 230	230

\$ 44,035

APPENDIX VIII

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STATEMENT OF WORK

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	(Address) Vancouver, B.C.	Vancouver, B							
	V6B 1B5 (604) 669-2251 (Postal Code) (Telephone Number)	V6B 1B5 (Postal Code)	(604) 669-	2251 elephone Number)					
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	(Specify Physical (include details), Prospecting, Geological, etc.) Phys	<u> </u>	*Geological etc.					
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	(Report to follow)								

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* Who was the oper- ator (provided the financing)?	Name_QPX Minerals Inc. Address 500 - 164 Water Street Vancouver, BC V6B 185 Phone: 669-2251			amount in Box plete as require		o reverse sic	le c	of form

MTL 112

M28 2024

\$ 44,000 I WISH TO APPLY \$ 20,800 OF THE TOTAL VALUE FROM BOX F AS FOLLOWS:

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APPLICATION OF WORK OPEDIT

Cash Payment

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	3.	

I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the *Mineral Act*. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral (*sim(s*) may, as a result, forfeit to and vest back to the Province.

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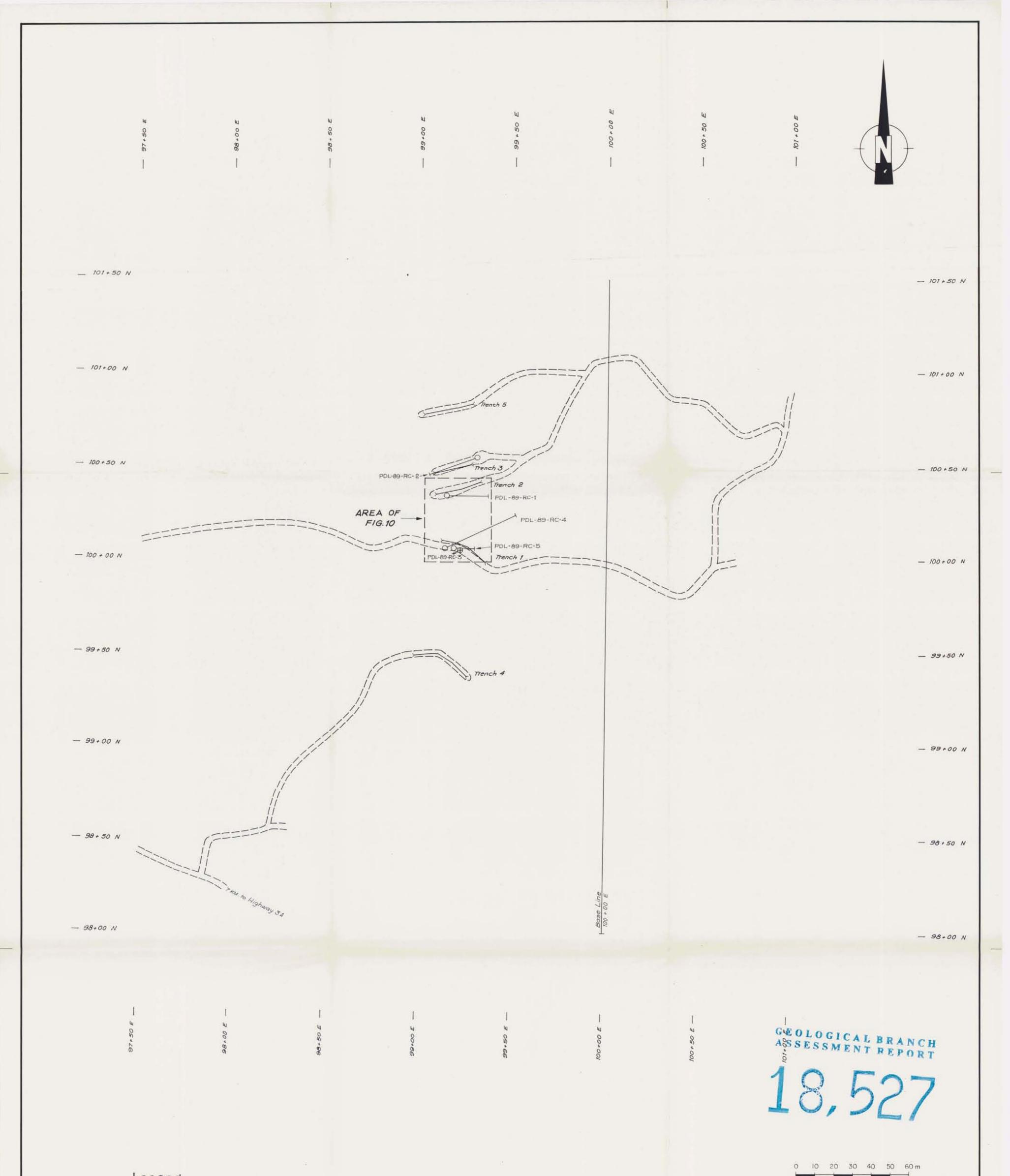
Signature of Applicant



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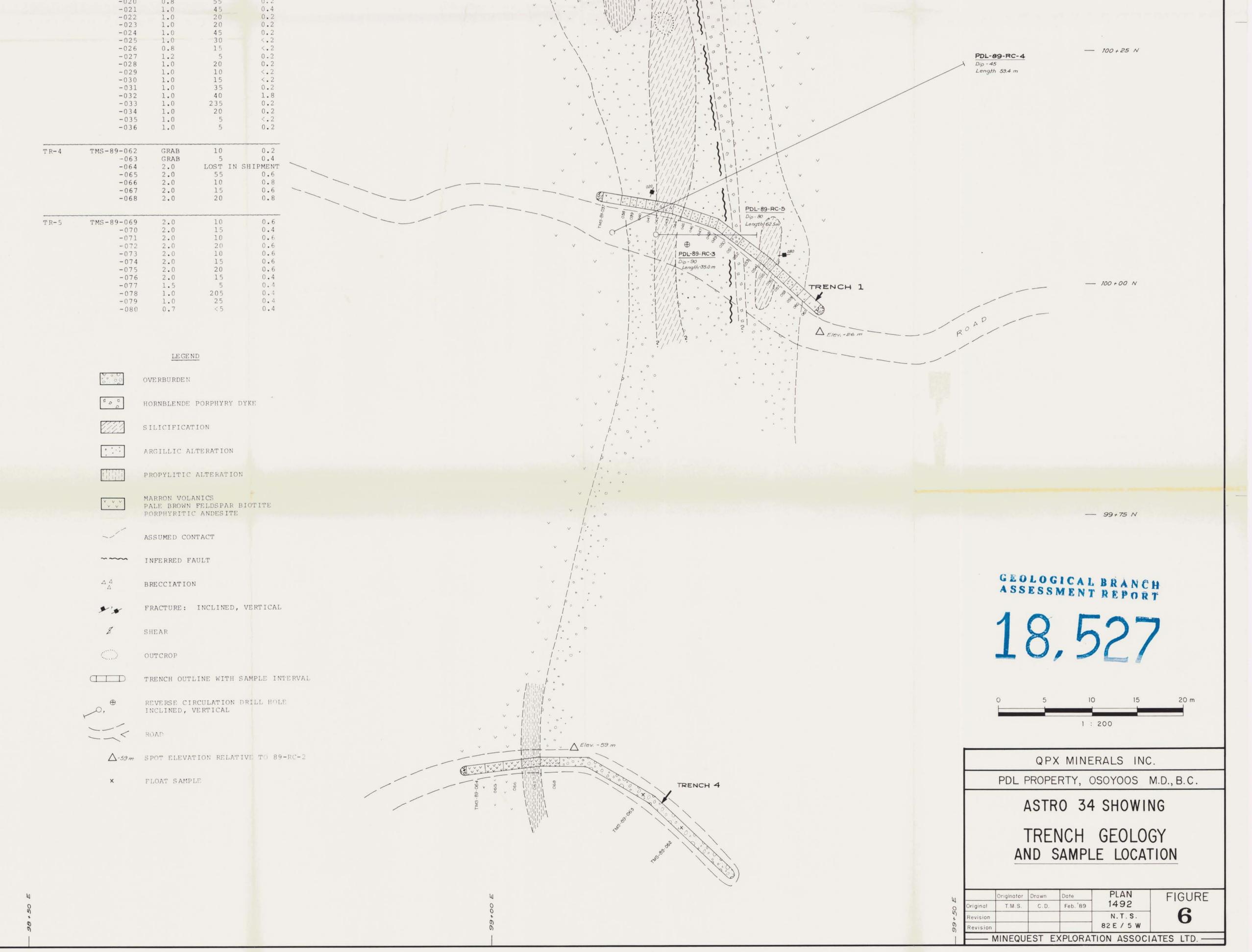
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Fig. with remnant saus.feldapar phenos and minor remnant mañes Minor diz.stringers PDL-88-059 PDL-88-060 Minor disa.py	<u>AST</u> GEOLOGY, a	RTY, OSOYOOS M.D., B.C. RO 34 SHOWING SAMPLE LOCATIONS nd RESULTS
	Originator Drav Originator L.J.L. Revision Revision	Date PLAN FIG. C.D. Nov. 1988 1405 4 N.T.S. 82E/5W 4

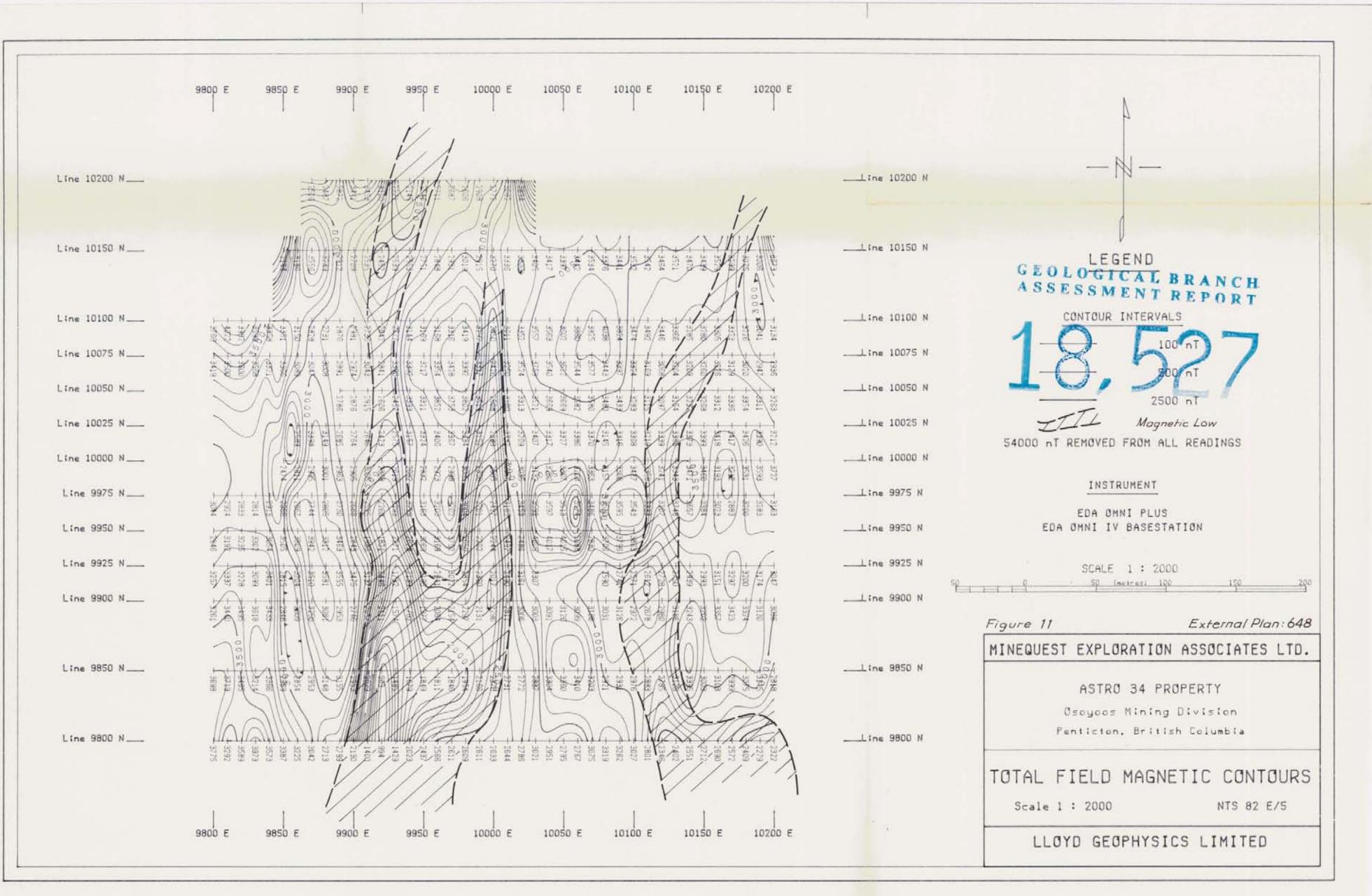
-MINEQUEST EXPLORATION ASSOCIATES LTD. -



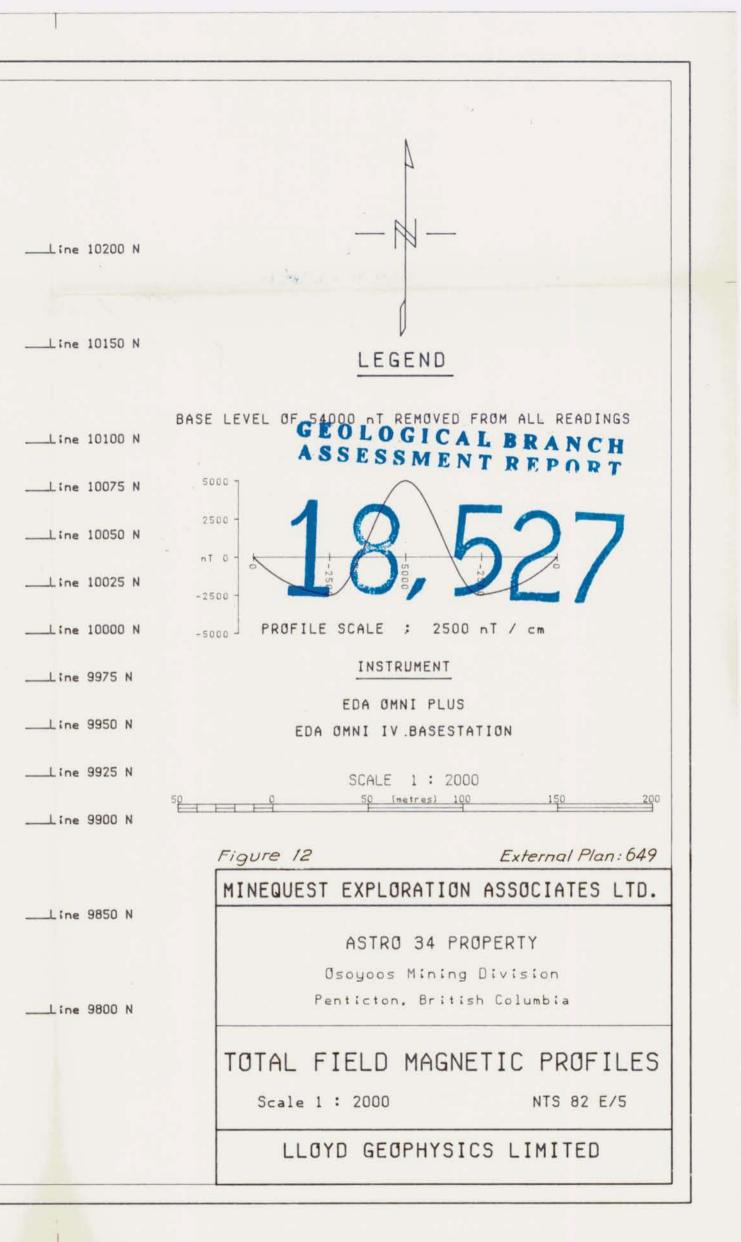
Legend SCALE: 1:500 Backhoe Trench QPX MINERALS INC. ₽, ⊕ Reverse Circulation Drill Hole (inclined, vertical) PDL PROPERTY OSOYOOS M.D., BRITISH COLUMBIA FFF Road ASTRO 34 SHOWING ROAD, TRENCH and DRILL HOLE PLAN PLAN No. FIG. Originator Drawn Dote 1491 T.M.S. C.D. Feb.'89 Original 5 N. T. S. Revision 82E/5W Revision MINEQUEST EXPLORATION ASSOCIATES LTD.

	TRENCH 5 $\Delta z_{lew-10 m}$
TRENCH ASSAY DATA	$= 100 \cdot 75 $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ag (ppm) 0.2 0.2 0.4 0.4 0.6 1.2 0.8 1.8 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
TR-3 TMS-89-018 1.0 30 -019 0.7 45 -020 0.8 55	0.4 0.4 0.4 0.4 0.2

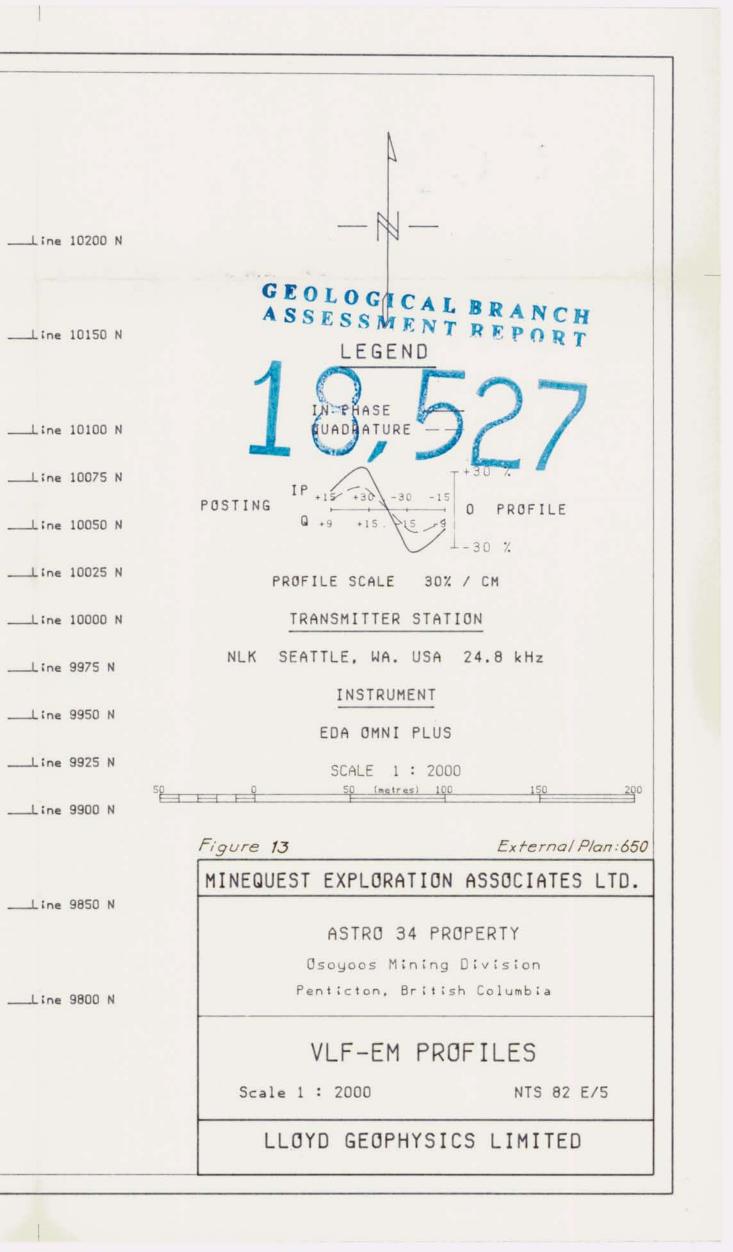


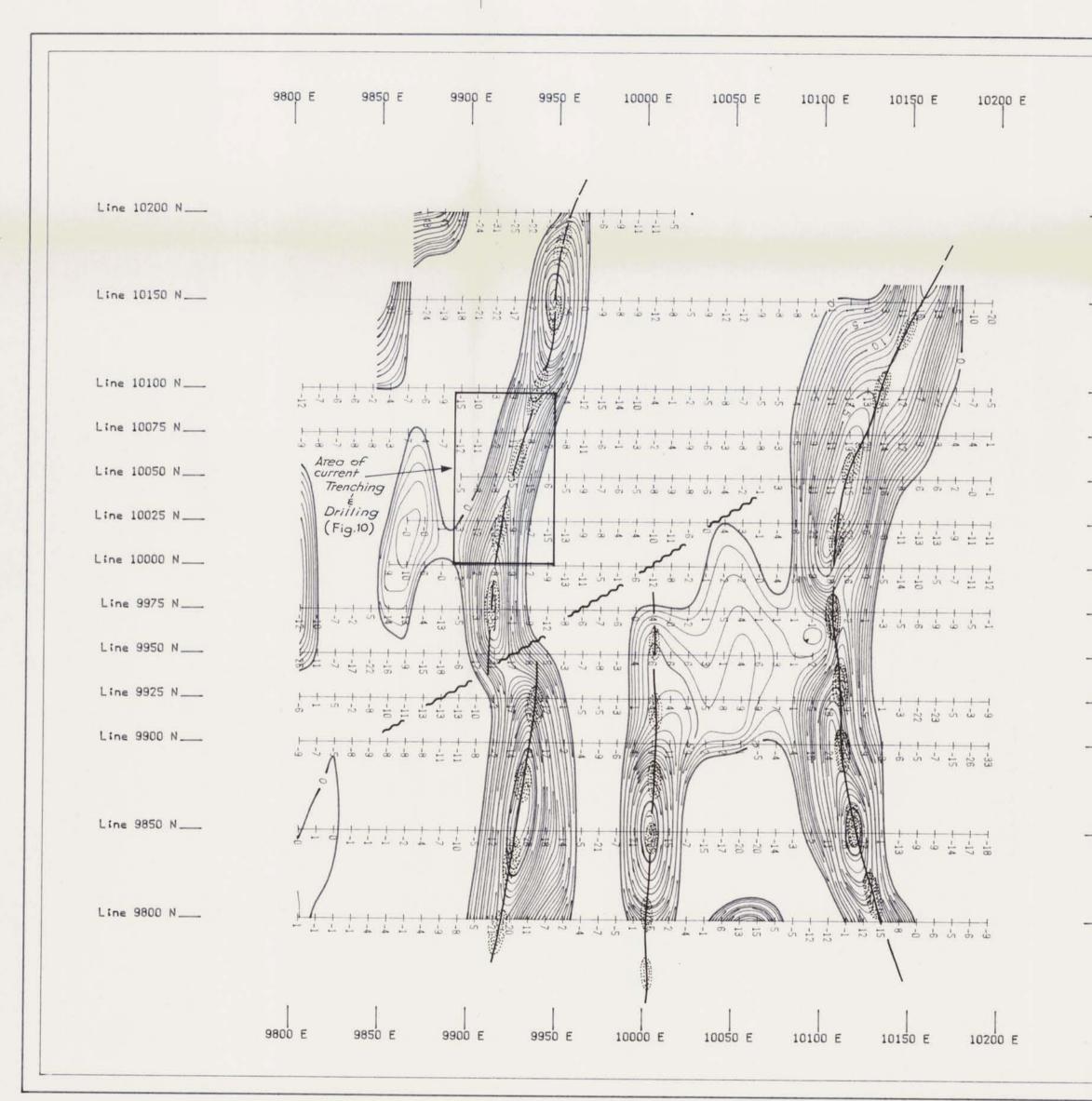


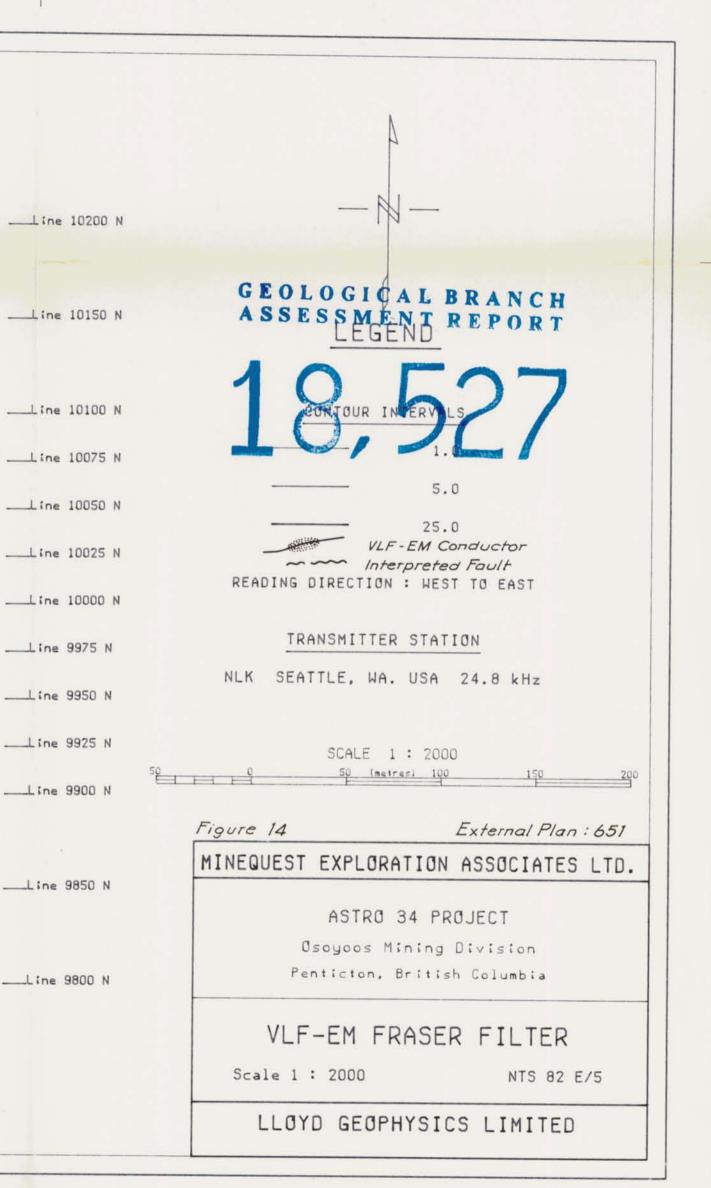
	9800	E	90	350	C		990				9950	E		10	000	L		100	50 8			.010	DO E		•		0 E		10	020
					ſ	_	/		_		/			_	_	/														
Line 10200 N					97.67	+2487	+ 2872	- 3453	+3120	+ 2271	+ 2546	- 2711	+ 2687	- 2908	+2772	+ 3082	2004													
Line 10150 N				Ĺ	+ +	-				1		+	+	+ +	+				+ +		+	1	++	-+		+ +	+	+	+ +	
	Г		_	2194	981E	3289	2912	2709	2452	2539	2751	2848	1262	2915	3270	3336	3405	-3417	3397	3534	3376	3441	3542	3464	3521	3439	3529	3299	3006	0000
Line 10100 N	U 376	+ 3982 + 4022	+ 3599	- 3351	+ 3120	+ 2731	- 2876	- 2981	72642	27777	3169	+ 3168	+ 3316	£ 3792		1196	(+ 3557	+ 3563	+ 3602	+ 3825	4038	+ 3824	1 3492	+ 3446	- 3366	+ 3784	- 3305	- 3323	- 3041	
Line 10075 N	3419	2 + 3600	3 + 3321 9 + 3568	1	1 + 3089	- +	1	-2974	- 1	1		-	+ 3428	-		3250	-	-	- 3622		-	-3397		+		+ 3260			+ 2947	
Line 10050 N	<u>م</u>	0 0	11	6	19	- 18	L	11	-	10 + \$457		-	12 - 3753		-+ /	0 3100 0	-		2 - 2005 - 2 7 - 2005 - 2	-		-	9 + 3115	-	-	0 + 3268		-	7 + 3311	_
Line 10025 N				_	23	e elo	1	2876 TZ	1	1		i	-	K.I	-1	1	- 1 -		-	-	-	-		-	-	1 1	+	-	1 1	_
Line 10000 N	Г				2589 -2	+	2685 -2		2423 +2	+ /	3324 +2		+	4	+>	3332 22	-	+	- 3327 + 3		1	1	3219 +3	+	T	3399	1		3390 +3 3426 +3	_
Line 9975 N		++	++	-		~	-	- 506	868 +	+ 619	2832	-	N	20058 +	+ 585	2956 +	1	1	3307 +	L	4	+	3358 +	-+-	+	3460 +			3531 + 3	
Line 9950 N	3044	2833 +	2913		2867		1		2200 +	1	1+	-	-		2 27 +	1		+	3513 -	- 1	1	- 5655	3333	3207	3748	3384	3023	2883	3283	0010
Line 9925 N	2946	3235 -	3054	3505 -	- 3809 -	3312 -	3463	2843 -	1000	22/1 -	1 6905	3169 -	3752 -	202 -	2344 -	492 -	4005 -	4017	4015	2830	8706 -	96.6	1 1	i	+					
	3257	- 3228	- 3099	2815	- 351U	- 3581	3555	-3475	-2/46	-173	-3196	-2941	-3022	- 2360	- 2017	2490	3307				- 2530	-2741	2612	2728	- 2750	- 2993 - 2993	-3151	- 3297	- 31/4	0017
Line 9900 N		+ 3495	+ 3433 + 3618	+2846 /	+ 2609	+ 3081	-2953	+ 2746	+2111	+ 1574	+ 1977	+ 2064	+ 2154	+2131	+ 2296	- 2811	+ 3003	+ 3091	+ 3126	+3138	+ 3031	+3126	+ 2678	+2980	+3186	+ 3202 /	+ 3357	- 3423	+ 3130 + 3324	21200
Line 9850 N	3698	+ 3485 + 3719	+ 3366 + 3214	- 2969	+ 2854	+ 3148	- 3155	+ 2953	- 963	-1485	+ 1849	+ 1811	+ 1846	+ 1954	-2370	15.62 -	+ 2887	+ 3304	- 3360 	- 3203	+ 2921	+ 2931	+ 2883	- 2785	- 3128	+ 3405	+ 3103	- 2999	+ 3145	24.04
Line 9800 N			~	_		-	_	_	<u> </u>	_	_			1 - 1				_		_	-	_	_	-	-	_		_		
	1 ₃₇₇₅	+ 3292	- 3973	- 3387	+ 3225	-2713	- 2799	- 2130	- 994	- 1429	- 2437	- 2566	- 2611	- 2611 - 2609	- 2633	- 2644	- 3021	+ 2951	- 2795	- 3075	- 3319	- 3262	- 2007	- 2346	- 2402	- 2/12	- 2690	-2572	- 2409	1955
								1							,								r							

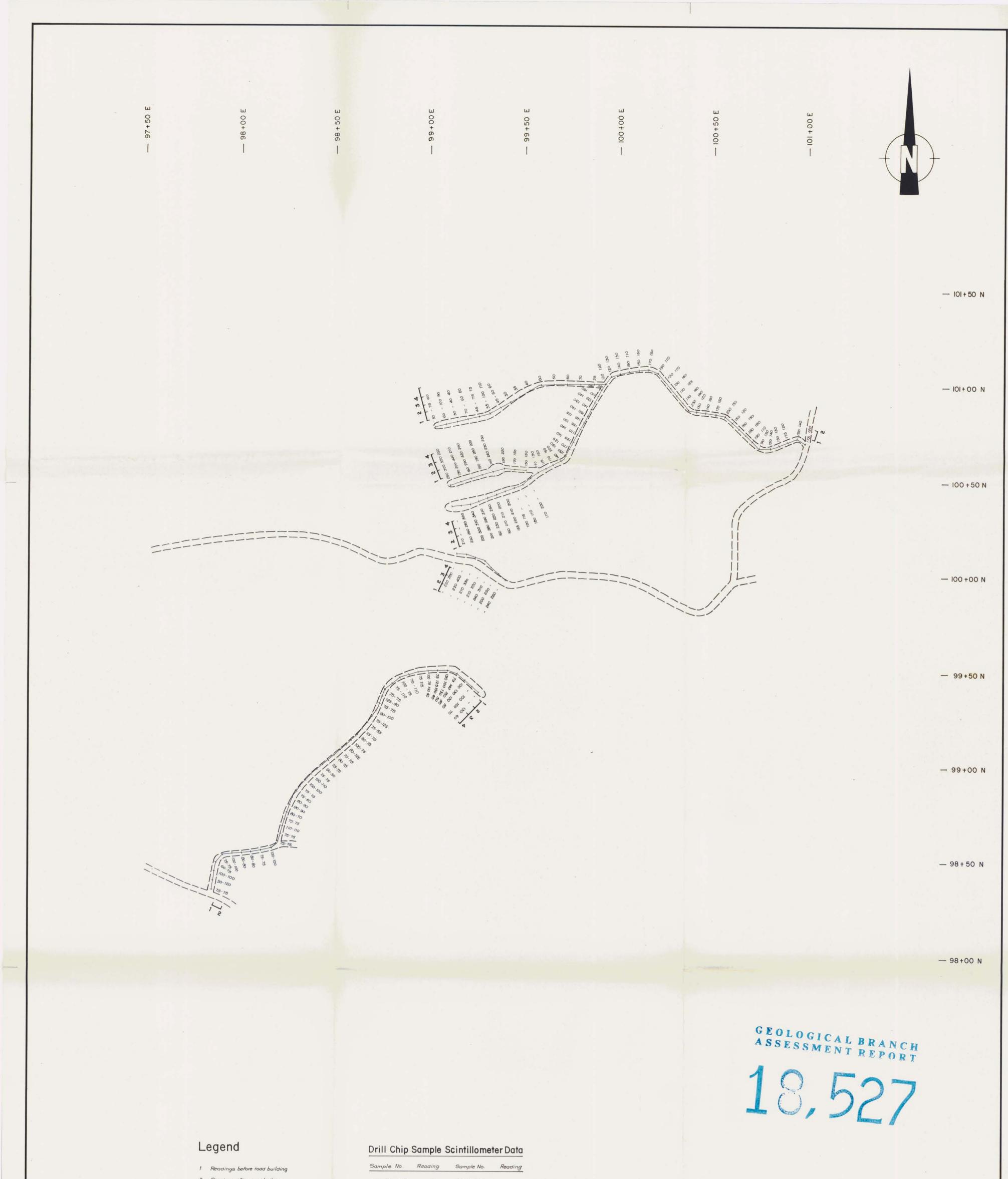


	9800 E 98	150 E	9900 E	9950 E	10000 E	10050 E	10100 E	10150 E	10:
Line 10200 N				-1 + -19 -1 + -19 -1 + -21 -3 + -23 -5 + 23	-2 7-2				
Line 10150 N	k	+ + + +	-1027 -1027 -1433		18 + -28 17 + -31 18 + -33 18 + -34 18 + -35	$ \begin{array}{c} 11618 \\ 11718 \\ 11721 \\ 1922 \\ 1724 \\ \end{array} $	y = -18 y = -18 y = -18 y = -18 y = -18 y = -18	7 + -29 3 + -31 4 + -29 6 + -26	
Line 10100 N		1111	-30		+-19	+ + + + + + + + + + + + + + + + + + + +	-23- 	2 2 5 4 4 -24 2 +-28 2 2 +-29	
Line 10075 N	17 17 17 17 17 17 17 -33 17 -34 2 17 -34 2 17 -34 2 17 -34 2 17 -34 3 17 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34			4) 27 4) 27 14 27 14 27	3 - 20 12 - 19 10 - 21 10 - 21 10 - 21 10 - 21 12 - 24		3 -32	3 -42 2 -43 2 +-40 +-39	
Line 10050 N		-5 +-30	-22 -22 -22 -22	10 25 10 27 28 28 28 28 28 28 	10		5		
Line 10025 N	Į.	-7 -+ 32			S-1+-2 S2		2 - 24 + 4 3 - 24 + 4 3 - 24 + 4 3 - 24 + 4 3 - 3 + 4 2 + 3 + 4 3 - 3 + 4		
Line 10000 N									
Line 9975 N			The N SA	HAVE		27-14 223-10 27-18+ 27-18+ 27-18+ 27-18+ 27-18+ 27-18+	40-10 36-12 32-11	1111	
Line 9950 N		42 29		·26 +4 +1 ·26 -8 + ·28 -8 + ·30-13 +	29-14 + 27-16 + 27 -9 + 27 -9 + 29 -6 -	\$0 -9 + 30 -11 + 30 -11 +	- 31 - 31 - 36 - 31 - 31 - 36 - 31 - 31 - 36	28 28	
Line 9925 N	-14 21 - -24 21 - -26 22 -			118 4 -21 3 -21 3 -21 3 -21 3 -21 3 -21 3 -21 -21 -21 -21 -21 -21 -21 -21 -21 -21	-23 -23 -28 -28 -28 -28 -20 7 -4 -20 7 -4 -20 7 	27 B-		119 119 119	
Line 9900 N	-20 -21 -22 -23 -23 -23 -23 -23 -23 -23 -23 -23	6 5 6	4 5 0 4 5 0 A		121	-28 2228 2228 2228 22	+36 31 -33 28 -39 25 -36 25	122 29 122 29 122 29 122 29	
		5 2 2	-10		26 25 26 20	28 24 23 27	-41		
	and a v v o t	k da da da			N 00 00 00 00 00 00 00 00 00 00 00 00 00	15-5-5-5			
Line 9850 N				1 + -26 1 + -21 1 + -23 1 + -31 1 + -31	-++++	+-16 +-16 +-20 +-25		TTER	
Line 9800 N		-7 -6	LIFT	5		+++++	929 929 925 1021 1021	2 -27 $2 -27$ $3 -28$ $6 + -29$ $6 + -31$	
		1	1	1	I		1	I	
	9800 E 98	50 E	9900 E	9950 E	10000 E	10050 E	10100 E	10150 E	10









Readings after road building
 Readings in trench

Sample No.	Reading	Sample No.	Reading
PDL-89 - 001	50	PDL-89 021	
002	80	022	
003	90	023	

0.40

4 Readings over back Filled trench

