

LOG NO: 0126

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ACTION:

MineQuest Report #209
 Ref. No. RM5200

FILE NO.

**TRENCHING AND ROCK CHIP SAMPLING
 on the
 PDL AND ASTRO GROUPS**

Osoyoos Mining Division

N.T.S. 82E/5W

Latitude 49° 22' N

Longitude 119° 48' W

by

Linda J. Lee

of

MineQuest Exploration Associates Ltd.

for

QPX Minerals Inc.

18,284

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>
<u>PDL Group</u>			
Ford 1	2639	14	06 July 1987
PDL	1963	15	23 Dec. 1987
Astro 54	618	20	05 Jan. 1979
Astro 55	619	4	05 Jan. 1979
Shatford Fr	2758	1	09 Nov. 1987
Shatford 1	2756	20	09 Nov. 1987
<u>Astro 1 Group</u>			
Ford 2	3002	18	02 Sept 1988
Akira I	2912	3	14 June 1988
Akira II Fr	2913	1	14 June 1988
Astro I	213	12	09 Mar. 1977
Astro 33	245	20	09 Mar. 1977
Astro 34	246	20	09 Mar. 1977

FILMED

Vancouver, B.C.

January, 1989

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- Appendix II Statement of Qualifications
- Appendix III Cost Statement
- Appendix IV Statement of Work

1.0

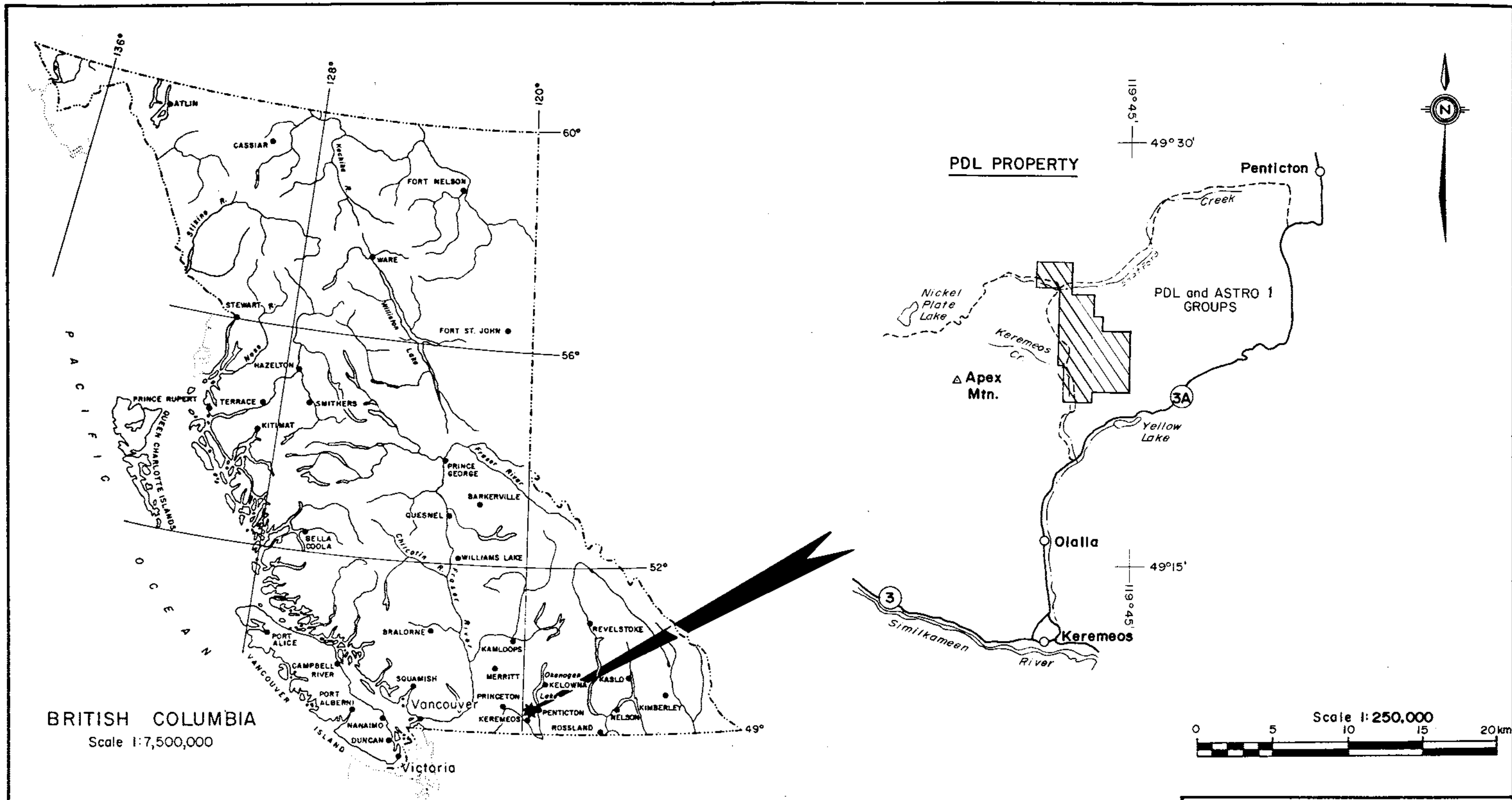
INTRODUCTION1.1 Location, Access and Terrain

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 km. The eastern portion of the property can also 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 summarizes the ownership of the claims.

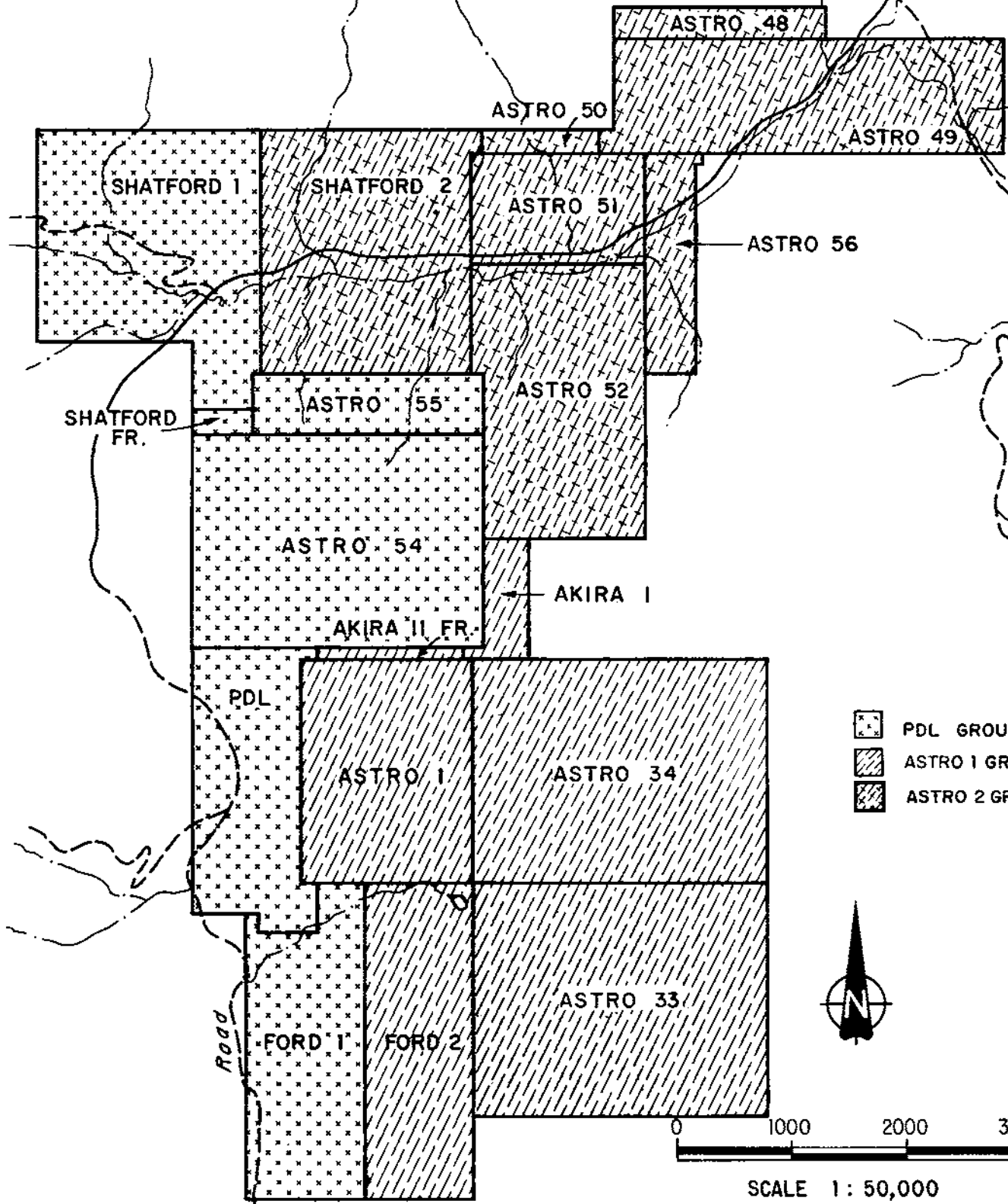





BRITISH COLUMBIA
Scale 1:7,500,000

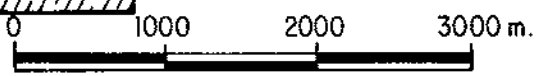
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0 5 10 15 20 km

QPX MINERALS INC.			
PDL PROJECT-OSOYOOS M.D., B.C.			
LOCATION MAP			
PLAN No.	DRAWN T. A. D. S.	DATE JUNE, 87	FIGURE 1
Originator: G.R.P.		N.T.S. 82E/5W	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

To PENTICTON



-  PDL GROUP
-  ASTRO 1 GROUP
-  ASTRO 2 GROUP



SCALE 1: 50,000

Green Mountain Road

QPX MINERALS INC.			
PDL PROJECT, OSOYOOOS M.D., B.C.			
PDL and ASTRO GROUPS			
CLAIM MAP			
Originator L.J.L.	Drawn C.O.	Plan No.	FIG. 2
Revised L.J.L.	Date Sept.'88	NTS 82E/5	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>	<u>Due Date before Submission of this Report</u>	<u>Agreements Controlling Claims</u>
<u>PDL Group</u>					
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
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Ford 2	3002	18	02 Sept. 1988	02 Sept 1992	QPX/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. 1988	Petro-Canada
Astro 34	246	20	09 Mar. 1977	09 Mar. 1988	Petro-Canada

The Astro claims, under option from Petro-Canada 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). Note that although the expiry date on the Astro 33 and 34 claims is March 9, 1988, relief was granted by the above regulation to November 30, 1988, for this year only.

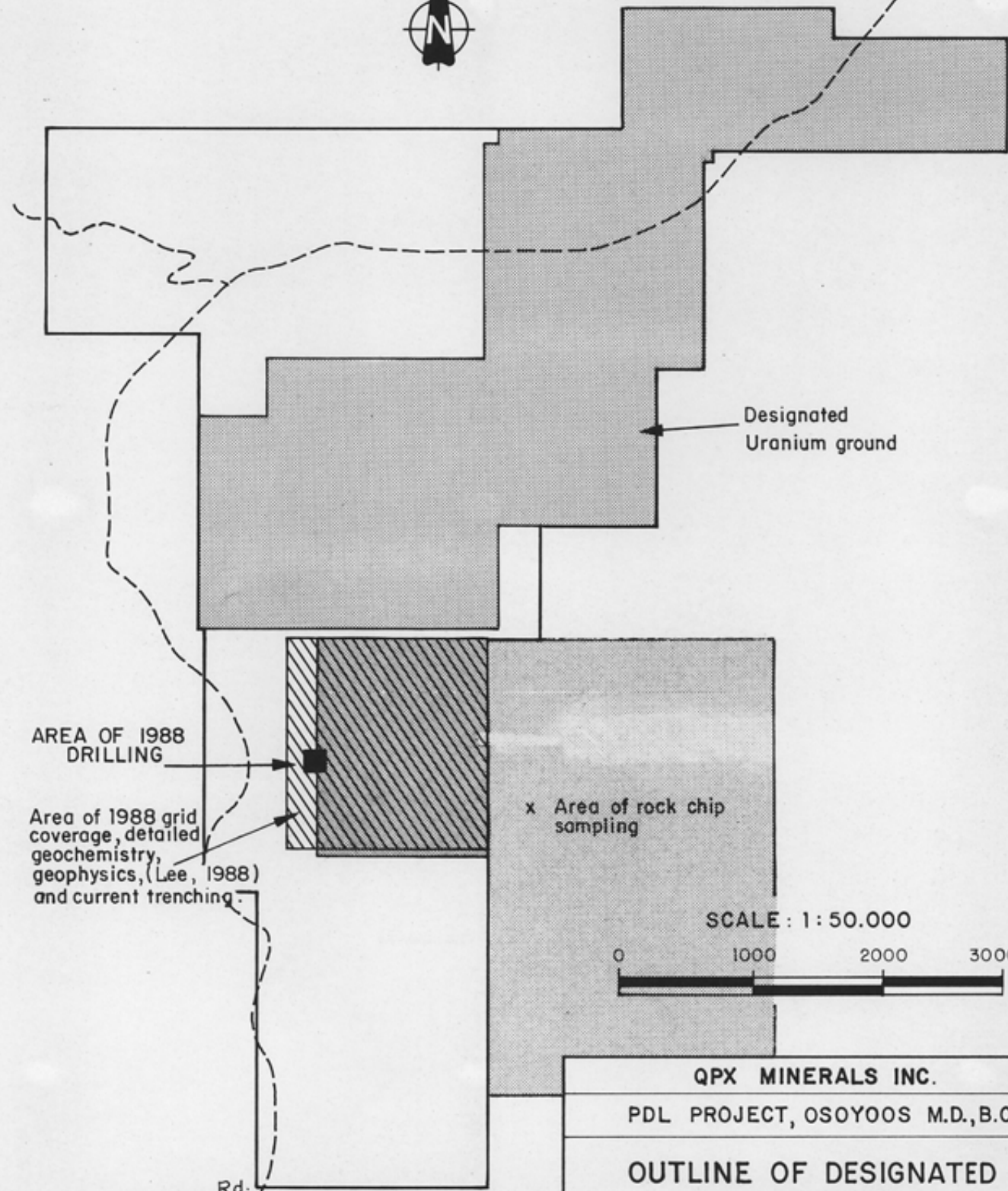
1.3 Property Definition and History

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 quartz 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., 1967). Here, sulphide mineralization is primarily 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.



to PENTICTON



Designated Uranium ground

AREA OF 1988 DRILLING

Area of 1988 grid coverage, detailed geochemistry, geophysics, (Lee, 1988) and current trenching.

x Area of rock chip sampling

SCALE: 1:50,000



Green Mountain Rd.

QPX MINERALS INC.

PDL PROJECT, OSOYOOS M.D., B.C.

OUTLINE OF DESIGNATED URANIUM GROUND

PLAN No.	DRAWN L.J.L./C.D.	DATE AUG. '88	FIGURE 3
Revised _____	_____	N.T.S. 82 E/5	

MINEQUEST EXPLORATION ASSOCIATES LTD.

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 1987. The 1987 work program by QPX was directed 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 1 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. The major anomalies defined by the 1988 summer work program are summarized in Figure 4.

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 present QPX property. As a result of this discovery two additional claims, the Astro 33 and 34, were optioned from Petro-Canada Inc.

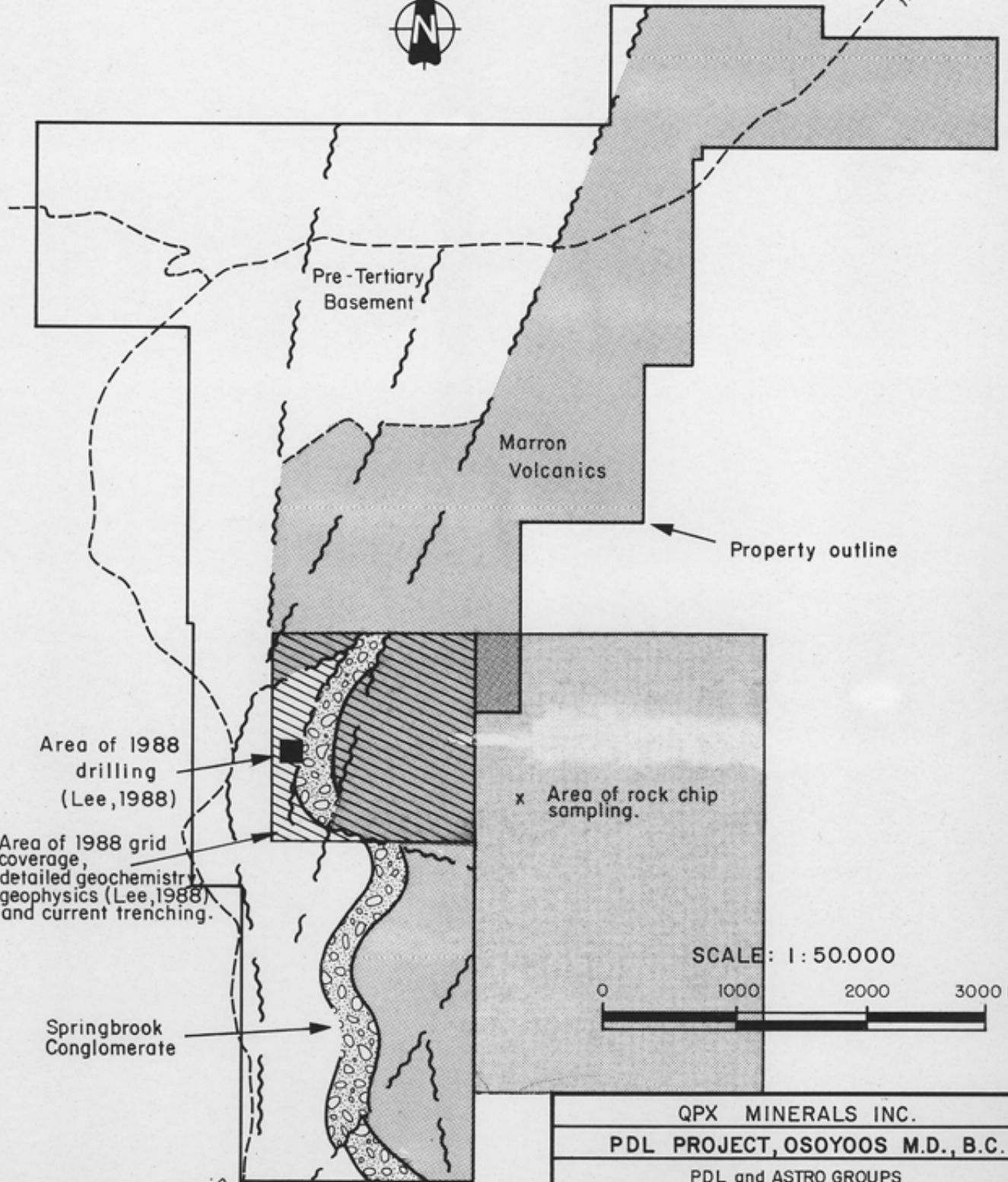
1.4 Summary of Work Done, 1988

Work covered in this report includes backhoe trenching of geochemical anomalies defined by the earlier 1988 work program. Twenty-three trenches, a total of about 650 metres, were dug using a Case 580 backhoe owned and operated by Harris and Sons Transport of Keremeos, B.C. Road construction maintenance and reclamation was done by David Lusted of Keremeos, B.C. using a John Deere 450 bulldozer. All trenches were mapped and sampled. A total of 202 channel samples were collected from the trenches by S. Handley, T. Hicken, L. Lee and C. O'Neill; trenches were mapped by L. Lee.

On the newly acquired Astro 34 claim, 27 rock chip samples were taken by S. Handley and L. Lee. At the same time the showing was mapped at a scale of 1:100 by L. Lee. The project, summarized in Figure 5, was under the direction of R.V. Longe. Field work was done from October 27 - November 12, 1988 and November 28 - 29, 1988.



to PENTICTON



QPX MINERALS INC.

PDL PROJECT, OSOYOOS M.D., B.C.

PDL and ASTRO GROUPS

SUMMARY MAP

PLAN No.	DRAWN L.J.L./C.D.	DATE AUG. '88	FIGURE 5
Revised		N.T.S. 82 E/5	

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2.0

GEOLOGY2.1 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. Overlaying 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) and the geology of the grid area is shown in Figure 6. Trench locations are also shown on this figure.

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

skarnified. In the area of the PDL and Astro 1 claims, where interest to date has been concentrated, the basement rock are predominately cherts. Commonly, these cherts are brecciated and may contain minor disseminated pyrite.

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.

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.

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. 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. 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.

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

Alteration in the Tertiary rocks is not common but locally the volcanics are silicified and argillically altered with narrow chalcedonic veinlets. The Astro 34 showing, shown in detail in Figure 30, is the only example of such alteration. Anomalous gold values, to 1229 ppb, accompany the chalcedonic veinlets at this location. Elsewhere alteration in the volcanics is restricted to minor hematization and bleaching and very narrow quartz veinlets. Weak gold values do appear to accompany this alteration of the volcanics.

In the Paleozoic rocks alteration consists of recrystallization and brecciation of cherts of the Shoemaker Formation and local skarn development in limestone lenses. Two small lenses of massive sulphides (pyrite/pyrrhotite/chalcopyrite) occur in Paleozoic cherts on the PDL claim. Both lenses contain anomalous gold values (up to 6,920 ppb [Lee, 1987]) but appear to be small and discontinuous. A number of very narrow east-west trending pyrite/arsenopyrite stringers with anomalous gold (to 31,300 ppb [Lee, 1987]) also occur in the cherts. These stringers do not exceed widths of 5 cm and generally are much narrower than this.

3.0

TRENCHING PROGRAM3.1 Trenching and Sampling Procedures

A total of 23 sites were trenched using a Case 580 backhoe operated by Ron Harris of Harris & Sons Transport Ltd. Each trench was shovelled and swept clean before mapping. Mapping was done on a scale of 1:100 and all trenches were sampled in entirety. Samples varied in length up to four metres, depending on lithology. In all cases a continuous chip sample was taken along the length of the sample. Hand tools or in some cases a portable jackhammer, were used to break the rock for sampling. The locations of the trenches are shown on Figure 6 and summarized below in Table 1.

Table 1 - Trench Locations and Specifications

Trench	Northing *	Easting	Length (m)	Approx. Azimuth (°)
Tr-88-001	104 + 85	104 + 18	16	105
Tr-88-002	105 + 15	104 + 08	18	115
Tr-88-003	105 + 95	103 + 54	23	110
Tr-88-004	105 + 88	104 + 04	17	110
Tr-88-005	110 + 00	99 + 90	32	165
Tr-88-006	110 + 19	100 + 95	26	175
Tr-88-007	103 + 39	104 + 40	20	091
Tr-88-008	103 + 00	104 + 35	31.5	091
Tr-88-009	103 + 00	105 + 30	74	095
Tr-88-010	112 + 12	108 + 31	24	082
Tr-88-011	112 + 03	108 + 73	25	108
Tr-88-012	111 + 59	108 + 65	15.5	075
Tr-88-013	111 + 00	108 + 75	13	100
Tr-88-014	111 + 00	109 + 06	30	094
Tr-88-015	111 + 14	108 + 42	28	070
Tr-88-016	110 + 00	108 + 32	20	092
Tr-88-017	112 + 00	104 + 63	50	100
Tr-88-018	114 + 00	105 + 95	40	075
Tr-88-019	114 + 55	105 + 40	25	088
Tr-88-020	115 + 07	104 + 98	35	112
Tr-88-021	109 + 69	99 + 78	18	200
Tr-88-022	103 + 50	97 + 20	32	192
Tr-88-023	103 + 62	97 + 05	19.5	130

* Note: Grid co-ordinates given are for the western or northern end of the trench.

3.2 Analytical Techniques

Trench samples were shipped to Acme Analytical Laboratories Ltd., in Vancouver, for preparation and analysis. Samples were crushed to -3/16" and then pulverized to minus-100 mesh. A 30 element ICP analysis of all samples was conducted after digesting samples for one hour at 95°C in 3:1:2 HCl:HNO₃:H₂O. Gold analyses were conducted by hot aqua regia digestion and MIBK extraction, followed by analysis by graphite furnace atomic absorption.

3.3 Results and Interpretation

The 1988 summer geochemical program outlined eight major geochemical anomalies (gold, silver, arsenic, copper) as shown on Figure 4. Six of these anomalies (labelled as Anomalies 1, 3, 4, 5, 6 and 7 on Figure 4) were evaluated by trenching during this program. The remaining two anomalies, labelled as Anomalies 2 and 8, could not be trenched with the equipment available because of very steep topography. All eight geochemical anomalies are described in detail below. The analytical results for the trench samples are included in Appendix I, Part A.

Anomaly 1: Anomaly 1 is a major N-S trending coincident gold-copper geochemical anomaly with gold values to 780 ppb. Seven trenches (Tr-88-001 - 004 and 007-009) were dug on the anomaly, as shown in Figure 6. The anomaly is underlain by conglomerate (Springbrook Formation) and by volcanics of the Yellow Lake Member of the Marron Formation. All trenches hit bedrock. In every case overburden was less than three metres in thickness and generally overburden thickness was much less than this. No alteration or anomalous gold values were detected in any of the trenches, as shown in the detailed trench maps (Figures 7-10, 13-15). It would appear that the anomaly is attributed to glacial overburden.

Anomaly 2: The second anomaly is a weak gold anomaly with values to 59 ppb and locally coincident anomalous arsenic and silver. The anomaly is located in a very steep area with numerous cliffs of unaltered Tertiary volcanics. No trenches were dug on this anomaly since it is almost certainly of glacial origin and is topographically very difficult to access.

Anomaly 3: Anomaly 3 is a N-S trending gold anomaly with locally coincident arsenic and copper values. The anomaly is spatially closely associated with a major N-S trending fault. Gold values range up to 156 ppb. Six trenches (TR-88-010 to -016) were dug on the anomaly; all of these trenches intersected bedrock of either the Marron volcanics (Kitley Lake Member) or the post-Marron conglomerate (map unit 5). Overburden was less than two metres in all cases. One trench (TR-088-010) intersected a 17 metre wide fault zone composed of blue-beige clay gouge with post-Marron conglomerate (fault breccia?) on either side of the fault zone (Figure 16). Bedrock in the remaining trenches was unaltered, well scoured Marron volcanic, post-Eocene conglomerate or weathered post-Eocene intrusive as shown in Figures 16-22. No geochemically anomalous values were detected from bedrock samples in any of these trenches. It appears that again the source of the anomaly is glacial overburden.

Anomaly 4: A single trench, TR-88-017, was dug on Anomaly 4, a gold anomaly with values to 62 ppb. Overburden is very thin, generally less than 0.5 metres. The anomaly is underlain by well scoured volcanics of the Kitley Lake Member of the Marron Formation. These volcanics are unaltered except for rare, narrow, N-S trending, rosey quartz veinlets. Neither the veinlets or the surrounding volcanics are anomalous in gold and the anomaly appears to be attributed to glacial overburden. Trench 17 is shown in detail in Figure 23.

Anomaly 5: Anomaly 5 is a NW-SE trending gold-arsenic anomaly with values to 78 ppb gold. Three trenches (TR-88-018 to 020) were dug on the anomaly as shown in Figure 6 and detailed in Figures 24-26. All three trenches hit bedrock of post-Eocene conglomerate (map unit 5) beneath less than one metre of overburden. A major N-S trending fault occurred at the east end of Trench 18. Bedrock samples from the trenches were not anomalous in either gold or arsenic and the anomaly appears to be derived from glacial overburden.

Anomaly 6: Anomaly 6 is a large gold-arsenic-silver geochemical anomaly located a short distance north of the 1988 drilling. Values up to 470 ppb gold occurred in soil samples from this area and three trenches (TR-88-005, 006, 021) were dug in an attempt to locate the source of the anomaly. The trenches were mapped and sampled in detail as shown in Figures 11, 12 and 27. Structurally and geologically the area is complex (see Figure 6). An east-west trending fault was intersected in all three trenches. In Trenches 5 and 21 this fault separates Triassic or older rocks (cherts) from Tertiary tuffs and conglomerates while in Trench 6 the fault occurs within the conglomerate. The cherts may be strongly brecciated and cut by narrow late stage quartz veinlets. Locally the basement rocks are anomalous with values to 280 ppb gold obtained in Trench 5. Overburden is very thick in the vicinity of Trench 6 and bedrock was not reached over much of the length of the trench. Base of till samples were collected where bedrock was not reached. These till samples are anomalous in gold (to 280 ppb). Although anomalous gold values occur in basement rocks in Trench 5, this does not adequately account for the anomaly. The structural complexity of the area combined with the magnitude of the anomaly makes this target worthy of further work. Anomaly 6 is considered to be the best target resulting from the geochemical program.

Anomaly 7: Trenches 22 and 23 were dug on a large coincident gold-arsenic-copper anomaly, labelled Anomaly 7 in Figure 4. Gold values in soils range up to 405 ppb. The anomaly covers the old sulphide showing mapped and sampled in Lee (1988). Samples from this showing were anomalous in gold with values to 6920 ppb but the sulphides appeared to be very limited in extent. Both trenches dug were unsuccessful in intersecting the sulphide body and confirm the very limited extent of the showing.

Anomaly 8: Anomaly 8 is small NW-SE trending gold anomaly (to 395 ppb) underlain by conglomerate of the Springbrook formation. The anomaly is located on a very steep slope and was not trenched because of the difficulty involved to do this with the equipment available. Based on the results of the above program, trenching Anomaly 8 is considered to be of very low priority.

4.0 ROCK CHIP SAMPLING

4.1 Sampling Procedure

Twenty-seven rock chip samples were taken from the Astro 34 showing as shown on Figure 30. When collecting samples care was taken to ensure that a continuous chip sample was obtained along the length of the sample. Sample lengths varied as shown in Figure 30.

4.2 Analytical Techniques

Rock chip samples were shipped to Eco-Tech Laboratories Ltd. in Kamloops for preparation and analysis. Samples were dried, crushed to minus-10 mesh and then a 250 gram split was pulverized to minus-140 mesh. A 20 gram sample was used for gold analyses. Fire assay was used to concentrate the sample and the bead concentrate was then digested in hot aqua regia for one hour and analysed for gold by atomic absorption. Silver and arsenic were analysed for by atomic absorption following the same digestion procedure.

4.3 Results and Interpretation

Analytical results for the rock chip samples are included in Appendix 1, Part B, and shown in Figure 30. Anomalous gold values (to 1030 ppb) with accompanying anomalous silver (to 34.1 ppm) are associated with silicified Marron volcanics and with narrow chalcendonic veinlets through the siliceous rocks. Elevated gold values occur in argillically altered areas of the volcanics proximal to the siliceous alteration.

5.0

SUMMARY

The PDL and Astro Groups cover the contact between Pre-Tertiary basement rocks (mainly cherts and greenstones) and Tertiary conglomerates and volcanics. A number of north-south trending block faults have been mapped on the property. Soil sampling defined a number of areas anomalous in gold, silver, arsenic and copper. Backhoe trenching of these anomalies has not located any mineralized regions and has indicated that the majority of these anomalies are derived from glacial overburden. The Astro 34 showing occurs within the Marron volcanics. The showing was mapped and sampled and elevated gold values were found to be associated with siliceous alteration of the volcanics. The showing remains to be tested by trenching and drilling.

6.0

RECOMMENDATIONS

- 1.0 A detailed grid should be established over the Astro 34 showing and geophysics (magnetometry and VLF) should be done over the grid to test the continuation of the alteration system.
- 2.0 Trenching of the Astro 34 showing is necessary to define the limits of alteration and test the strength of the system. An initial program of 7-10 trenches for a total length of less than one kilometer of trenching is recommended.
- 3.0 Approximately 800 feet of reverse circulation drilling in two or three holes is recommended to test the Astro 34 system at depth. The exact location of these holes would be defined during the above trenching program.
- 4.0 If sufficient justification is received from the above program to warrant further work on the property additional trenching should be done on Anomaly 6.

7.0

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APPENDIX I

Analytical Results

PART A

Trench Sample Results

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-RHO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NH PR SR CA P LA CR NG BA TI S W AND LIMITED FOR NA Z AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK Au* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

DATE RECEIVED: NOV 4 1988

DATE REPORT MAILED: Nov 16/88

SIGNED BY: *C. Long* D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT PCA File # 88-5710

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FILE PCA-ASTRO-RVL, LL

SAMPLE#	Kc	Co	Pb	Zn	Ag	Ni	Cd	Mn	Fe	As	D	Au	Tb	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Ka	K	W	Au*	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM		
C 42001	23	28	6	72	.1	32	11	312	3.95	14	5	ND	10	245	1	2	3	64	.78	.069	34	62	1.28	125	.20	2	2.17	.12	.25	1	1	
C 42002	17	19	67	115	.4	31	22	443	4.43	34	5	ND	5	553	1	31	3	70	.66	.375	15	57	1.12	195	.18	2	2.03	.06	.27	1	4	
C 42003	25	68	11	62	.2	39	10	416	3.69	27	5	ND	6	823	1	2	4	73	1.02	.362	21	70	1.10	240	.20	2	2.15	.04	.18	1	9	
C 42004	21	59	10	65	.2	41	11	419	3.64	24	5	ND	5	692	1	2	2	75	1.05	.379	21	77	1.15	217	.22	2	2.21	.05	.15	1	11	
C 42005	2	37	35	73	.1	30	13	421	3.37	15	5	ND	22	322	1	2	3	65	1.03	.342	120	25	.97	609	.16	2	4.57	1.16	.41	1	2	
C 42006	1	28	56	72	.1	8	7	432	2.73	17	5	ND	31	148	1	2	2	40	1.32	.146	179	9	.66	178	.09	2	5.07	1.74	.25	1	1	
C 42007	1	31	42	73	.1	16	9	475	2.84	14	5	ND	32	158	1	2	3	43	1.09	.156	166	14	.75	226	.13	4	5.69	1.63	.32	1	1	
C 42008	1	29	62	94	.1	10	9	596	2.85	9	5	ND	35	326	1	2	2	81	1.31	.151	197	6	.65	357	.11	3	5.95	1.93	.42	1	1	
C 42009	2	22	57	69	.1	8	8	478	2.72	5	5	ND	20	550	1	2	2	37	.95	.138	166	6	.47	271	.18	3	5.99	2.25	.39	1	1	
C 42010	3	24	57	79	.1	7	9	526	2.92	4	5	ND	29	736	1	2	16	41	.94	.116	177	7	.55	322	.25	4	6.74	2.01	.26	1	2	
C 42011	1	26	35	79	.1	95	15	535	3.76	9	5	ND	16	632	1	2	2	71	1.29	.175	104	24	1.45	236	.18	2	3.44	.58	.24	1	1	
C 42012	2	18	18	49	.1	8	5	327	2.10	2	5	ND	15	252	1	2	2	29	.72	.102	99	5	.62	162	.09	2	3.58	.60	.22	1	1	
C 42013	1	19	26	46	.2	7	3	289	2.03	3	5	ND	14	358	1	2	3	27	.64	.387	84	7	.50	169	.09	2	2.63	.64	.17	1	3	
C 42014	1	17	22	45	.1	5	4	279	1.84	2	5	ND	14	1028	1	2	3	23	.62	.081	36	5	.48	224	.07	2	2.71	.65	.17	1	1	
C 42015	1	22	26	63	.1	7	6	372	2.27	2	5	ND	22	522	1	2	2	35	.76	.112	118	7	.94	231	.08	2	3.34	.96	.23	1	1	
C 42016	3	29	26	63	.1	30	8	424	2.56	3	5	ND	24	858	1	2	3	43	.95	.134	115	12	.73	210	.12	2	2.75	.60	.20	1	1	
C 42017	3	22	43	75	.1	19	9	430	2.62	2	5	ND	29	334	1	2	2	40	.97	.127	145	12	.67	255	.11	2	4.46	1.37	.35	1	1	
C 42018	2	21	53	81	.1	10	3	408	2.52	4	5	ND	32	134	1	2	3	40	.83	.138	159	9	.47	223	.11	2	5.26	1.95	.34	1	1	
C 42019	2	24	61	87	.1	10	10	443	2.78	9	5	ND	34	252	1	2	13	47	.79	.141	173	8	.46	192	.13	3	5.45	2.07	.32	1	1	
C 42020	1	26	56	37	.2	14	10	444	2.86	8	5	ND	33	174	1	2	2	47	.96	.139	175	12	.46	171	.16	4	5.57	1.98	.31	1	1	
C 42021	4	17	3	31	.4	11	9	159	.67	20	5	ND	3	15	1	5	2	8	.06	.005	20	10	.10	61	.01	2	.43	.03	.07	4	109	
C 42022	6	22	11	18	.6	9	9	121	.35	24	5	ND	2	10	1	1	2	5	.03	.002	11	7	.04	37	.02	2	.27	.01	.06	2	184	
C 42023	4	30	14	24	.5	13	16	200	.48	26	5	ND	3	16	1	5	4	9	.13	.040	25	10	.07	59	.01	5	.48	.01	.08	3	46	
C 42024	5	24	3	40	.4	12	2	174	.74	11	5	ND	2	9	1	2	2	8	.02	.004	4	12	.11	37	.01	2	.37	.01	.07	2	27	
C 42025	5	39	9	56	.5	12	5	191	1.84	14	5	ND	2	17	1	2	2	19	.04	.007	11	19	.39	53	.01	2	.70	.01	.08	1	32	
C 42026	3	100	24	188	.7	27	15	272	2.02	35	5	ND	3	50	1	2	3	42	.12	.011	26	25	.66	88	.02	2	1.23	.01	.14	1	280	
C 42027	3	120	25	159	.3	15	8	258	3.01	22	5	ND	1	46	1	2	2	59	.14	.015	34	36	.47	185	.01	2	1.28	.01	.13	1	126	
C 42028	3	58	5	60	.5	15	9	256	1.30	20	5	ND	2	36	1	2	2	18	.06	.009	14	19	.24	55	.01	5	.55	.01	.07	1	38	
C 42029	2	43	7	37	.6	10	3	181	1.02	19	5	ND	1	14	1	2	2	15	.14	.004	6	14	.18	39	.01	4	.40	.01	.07	2	68	
C 42030	3	75	2	59	.5	12	4	168	2.84	11	5	ND	4	17	1	2	2	16	.06	.002	6	20	.41	63	.01	3	1.04	.01	.10	1	31	
C 42031	2	46	3	59	.3	13	2	254	2.50	19	5	ND	4	11	1	2	2	17	.05	.006	5	23	.57	93	.03	5	1.14	.01	.39	1	3	
C 42032	4	31	2	26	.4	12	2	177	1.10	18	5	ND	3	12	1	2	2	11	.09	.022	4	16	.19	63	.01	2	.47	.01	.12	2	1	
C 42033	3	40	7	43	.5	24	6	205	1.18	50	5	ND	3	11	1	3	2	13	.08	.016	9	17	.20	61	.01	3	.62	.01	.19	1	1	
C 42034	8	44	2	38	.3	15	4	254	1.32	37	5	ND	3	26	1	2	2	11	.23	.374	15	17	.24	72	.01	2	.43	.01	.16	2	9	
C 42035	2	25	13	74	.2	27	11	501	3.40	9	5	ND	22	153	1	2	2	62	1.19	.181	107	31	1.08	287	.15	2	3.27	.70	.38	1	5	
C 42036	1	41	19	80	.1	28	14	572	3.59	12	5	ND	23	473	1	2	4	68	1.10	.197	118	31	.99	322	.17	4	3.37	.55	.36	1	2	
SPC 01403-3	19	62	44	132	7.1	73	31	1025	4.14	44	20	ND	8	35	45	20	15	19	61	.36	.089	41	58	.95	174	.07	35	1.98	.06	.12	12	531

MINEQUEST EXPLORATION PROJECT PCA FILE # 88-5710

SAMPLE#	KO PPM	CU PPM	PD PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE PPM	AS PPM	U PPM	AL PPM	TH PPM	SR PPM	CS PPM	SB PPM	BI PPM	T PPM	CA PPM	P PPM	LA PPM	CR PPM	MG PPM	BA PPM	TI PPM	B PPM	AL PPM	KA PPM	X PPM	W PPM	AUT PPM
C 42037-S	5	26	25	78	.1	12	12	663	4.12	60	5	ND	27	1841	1	2	2	58	1.07	.128	150	15	.88	398	.04	4	3.27	.84	.31	1	2
C 42038-S	7	24	31	80	.1	7	16	480	4.02	24	5	ND	32	1613	1	2	2	58	1.04	.119	156	7	.94	1003	.04	7	3.10	.35	.26	1	4
C 42039	1	52	23	31	.2	33	14	774	2.83	12	5	ND	11	353	1	2	2	55	1.48	.097	54	53	2.05	317	.07	2	2.59	.03	.43	1	3
C 42040	1	68	17	75	.4	41	14	682	3.16	20	5	ND	8	207	1	2	2	56	2.26	.074	53	54	1.50	231	.11	4	2.36	.02	.40	1	7
C 42041	1	44	16	64	.2	47	14	697	3.53	21	5	ND	12	187	1	2	2	59	2.24	.107	62	59	1.17	219	.10	6	2.61	.32	.40	1	5
C 42042-S	15	50	32	95	.1	28	18	972	3.95	30	5	ND	22	1365	1	3	3	59	1.26	.126	125	31	1.00	837	.05	5	1.36	.04	.28	1	4
C 42043	6	58	16	95	.3	54	10	846	3.58	25	5	ND	7	171	1	2	2	68	1.71	.088	32	76	1.19	223	.13	9	2.40	.03	.44	1	2
C 42044-S	2	61	16	92	.2	54	13	717	4.16	16	5	ND	9	159	1	2	2	72	.82	.076	39	65	1.18	203	.12	2	2.75	.03	.43	1	6
C 42045-S	1	68	16	90	.5	54	21	643	4.26	19	5	ND	9	105	1	2	2	66	.75	.082	40	78	1.20	155	.13	3	2.56	.02	.51	1	230
C 42046	1	100	7	110	.2	65	15	540	4.69	6	5	ND	4	77	1	2	2	76	.36	.099	14	71	1.24	99	.21	6	2.38	.02	.22	1	24
C 42047	1	50	2	63	.3	54	13	455	3.66	11	5	ND	4	96	1	2	2	71	.79	.085	11	25	.92	96	.14	5	1.89	.04	.23	1	8
C 42048	1	82	10	39	.4	64	20	593	4.37	13	5	ND	4	74	1	2	2	73	.96	.135	14	77	1.23	127	.19	10	2.24	.02	.26	1	9
C 42049	1	89	4	121	.2	75	21	553	4.37	12	5	ND	4	49	1	2	2	82	.80	.092	9	84	1.23	143	.20	6	2.53	.06	.49	1	5
C 42050	1	99	9	102	.4	74	23	637	5.42	15	5	ND	1	54	1	2	2	90	.92	.135	12	84	1.79	99	.18	4	2.64	.03	.30	1	6
C 42051	1	57	11	65	.2	82	21	584	4.28	13	5	ND	2	46	1	2	2	71	.97	.099	16	107	1.64	116	.23	5	2.41	.05	.44	1	4
C 42052	1	100	11	39	.3	81	22	506	4.25	26	5	ND	2	52	1	2	2	95	.74	.114	5	84	1.21	215	.14	5	1.90	.04	.14	1	5
C 42053	1	38	15	83	.1	42	19	558	4.51	11	5	ND	11	855	1	2	2	95	.95	.156	71	63	1.82	412	.11	7	2.50	.05	.18	1	1
C 42054	1	29	17	98	.1	40	15	555	3.24	11	5	ND	12	478	1	2	2	75	.83	.172	61	54	1.25	163	.14	2	2.02	.35	.14	1	1
C 42055	1	25	11	53	.1	38	15	523	3.15	9	5	ND	13	281	1	2	2	71	.76	.167	62	46	1.05	230	.13	6	1.82	.05	.14	1	1
C 42056	1	29	19	57	.1	40	16	484	3.66	3	5	ND	13	238	1	2	2	81	.68	.162	56	50	.92	255	.14	7	1.92	.07	.12	1	3
C 42057	1	34	20	54	.1	39	18	505	3.43	7	5	ND	15	398	1	2	2	79	.82	.172	62	53	1.05	332	.13	7	1.97	.09	.24	1	1
C 42058	1	24	18	45	.1	29	15	414	3.68	9	5	ND	13	414	1	2	2	53	.79	.161	72	65	.88	351	.13	9	2.17	.07	.10	1	1
C 42059	1	21	15	52	.1	43	15	493	3.44	7	5	ND	15	280	1	2	2	74	.86	.183	68	65	1.12	276	.13	8	2.00	.08	.22	1	1
C 42060	1	27	12	66	.1	27	14	489	3.84	9	5	ND	9	744	1	2	2	73	.75	.120	14	45	1.26	359	.12	7	2.16	.05	.19	1	1
C 42061	1	28	12	75	.1	35	15	459	4.22	16	5	ND	9	482	1	2	2	83	.93	.145	45	50	1.40	282	.15	2	2.25	.05	.26	1	1
C 42062	1	97	8	51	.4	44	12	372	3.48	6	5	ND	3	80	1	2	2	59	.69	.158	9	53	1.02	74	.23	8	1.75	.02	.27	1	8
C 42063	1	110	11	53	.5	67	14	404	3.89	9	5	ND	2	71	1	2	2	60	.65	.068	9	91	1.22	78	.21	2	1.95	.02	.22	1	5
C 42064	1	136	10	56	.4	40	13	480	3.97	13	5	ND	3	83	1	2	2	67	.65	.063	9	44	1.16	92	.21	11	2.08	.03	.47	1	6
C 42065	7	106	9	46	.5	37	11	352	2.63	3	5	ND	3	54	1	2	2	61	.64	.057	9	39	1.06	73	.19	4	1.68	.04	.19	3	48
C 42065	1	69	2	40	.3	31	9	272	2.37	9	5	ND	2	144	1	2	2	46	.69	.142	7	36	.76	127	.14	9	1.63	.03	.15	2	4
C 42067	1	135	8	70	.3	59	16	530	5.04	5	5	ND	4	77	1	2	2	76	.70	.056	11	70	1.45	86	.26	8	2.45	.02	.34	1	4
C 42068	1	124	13	64	.5	45	14	502	4.27	18	5	ND	4	64	1	2	2	66	.58	.141	11	55	1.42	97	.20	4	2.11	.02	.26	1	7
C 42069	1	78	9	58	.4	40	13	439	3.65	27	5	ND	5	72	1	2	2	63	1.11	.052	7	72	1.27	109	.16	7	1.94	.02	.25	1	11
C 42070	1	53	24	78	.1	21	12	512	3.27	13	9	ND	24	759	1	2	3	64	1.22	.292	123	25	.88	171	.17	7	3.24	.84	.22	1	2
C 42071	1	50	33	79	.1	23	12	512	3.42	7	5	ND	27	581	1	2	4	58	1.37	.224	148	15	.93	179	.17	8	3.26	1.13	.24	1	1
C 42072	1	48	30	79	.2	24	14	492	3.42	5	5	ND	23	762	1	2	2	73	1.27	.233	123	29	.99	206	.16	7	3.32	.93	.22	1	2
STD C/AD-A	19	61	43	132	6.9	73	31	1052	4.30	28	20	8	39	42	20	19	23	60	.50	.089	40	59	.93	177	.07	33	1.96	.06	.13	12	530

MINEQUEST EXPLORATION PROJECT PCA FILE # 88-5710

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ki	Co	Ni	Fe	As	U	Au	Tb	St	Cd	Sb	Bi	V	Cr	P	La	Cr	Ng	Ba	Ti	B	Al	Ka	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	
C 42073	1	33	22	63	.1	29	23	507	3.32	14	7	ND	19	323	1	2	2	63	1.15	.145	81	45	1.00	127	.17	6	2.48	.53	.16	1	9
C 42074	1	51	9	75	.2	53	20	519	4.29	15	7	ND	14	396	1	0	2	74	1.24	.129	62	121	1.59	128	.23	5	3.15	.48	.24	1	1
C 42075	1	79	5	72	.2	66	19	639	3.45	30	5	ND	4	129	1	2	2	70	2.30	.074	16	90	1.42	78	.19	6	1.98	.05	.11	1	5
C 42076	1	68	12	56	.1	54	19	486	3.36	16	5	ND	6	681	1	2	4	53	1.32	.083	23	73	1.30	184	.19	3	2.29	.35	.17	2	7
C 42077	1	61	2	65	.3	39	12	535	3.55	8	5	ND	3	89	1	2	2	56	.69	.051	24	55	1.19	68	.18	3	1.90	.04	.18	1	4
C 42079	1	55	7	52	.1	41	14	413	2.53	9	5	ND	3	69	1	2	3	47	.55	.036	12	52	1.65	97	.17	2	1.71	.02	.36	2	7
C 42079	1	54	7	51	.1	24	14	379	2.55	5	5	ND	4	106	1	2	2	47	.57	.046	13	27	.72	69	.13	3	1.59	.34	.25	1	4
C 42050	1	209	6	58	.3	41	16	509	3.17	7	5	ND	4	69	1	2	2	52	.72	.054	11	47	1.39	89	.15	2	1.95	.32	.29	1	12
C 42081	1	129	7	60	.3	51	16	692	4.49	18	5	ND	4	95	1	2	2	67	.80	.050	12	59	1.43	89	.22	3	2.33	.32	.33	2	37
C 42082	1	107	2	76	.4	69	18	564	4.42	9	5	ND	2	122	1	0	2	76	.36	.054	8	75	1.62	107	.22	2	2.59	.05	.34	1	9
C 42083	1	70	5	68	.2	85	19	675	4.15	7	5	ND	2	56	1	2	2	64	1.66	.205	16	135	1.49	62	.15	2	2.42	.09	.21	2	11
C 42084	1	71	2	47	.2	35	12	406	2.75	5	5	ND	3	111	1	2	2	50	.73	.059	14	49	.93	105	.15	2	1.66	.07	.23	2	5
C 42085	1	84	7	50	.2	36	14	435	2.98	11	5	ND	2	65	1	2	2	60	.64	.072	7	42	1.00	510	.15	2	1.73	.02	.22	3	6
C 42086	1	68	4	26	.1	31	12	392	2.57	5	5	ND	2	113	1	2	2	48	.66	.049	7	45	.73	93	.16	2	1.50	.32	.25	1	9
C 42087	1	95	2	52	.2	45	17	624	3.35	6	5	ND	5	48	1	2	2	53	.52	.050	11	64	1.17	139	.18	2	1.92	.62	.58	1	5
STD C/AU-R	17	59	42	122	6.5	66	33	1019	4.25	39	21	7	57	47	18	19	20	57	.44	.089	39	55	.81	174	.26	37	2.32	.05	.14	11	519

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NA FE SO CA P LA CR NG BA TI B W AND LIMITED FOR AA K AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK AD* ANALYSIS BY ACID LEACH/AA FROM 25 GM SAMPLE.

FILE - PCA - ASTRO RVL, LL

NOV 19 1988 DATE REPORT MAILED: Nov 16/88

SIGNED BY: [Signature] D. POSE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT PCA File # 88-5765 Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	S	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPM
C 42088	1	23	11	52	.1	22	11	940	3.52	5	5	ND	8	1731	1	2	2	72	1.04	121	41	39	196	788	.19	4	2.18	.04	.21	1	4
C 42089	1	24	10	65	.1	19	12	458	3.44	2	5	ND	9	1572	1	2	2	77	1.38	113	42	31	1.02	729	.18	4	2.19	.04	.27	1	1
C 42090	1	25	7	69	.1	20	12	460	3.76	3	5	ND	12	877	1	2	4	80	.57	147	53	52	1.18	451	.19	4	1.90	.04	.22	1	3
C 42091	1	23	7	66	.1	20	13	524	3.95	7	5	ND	10	1824	1	2	2	32	1.08	132	45	34	1.18	812	.18	5	2.20	.05	.21	1	1
C 42092	1	22	2	67	.1	19	11	538	3.72	4	5	ND	10	1804	1	2	2	80	1.07	125	45	34	1.16	784	.16	4	2.16	.05	.28	1	1
C 42093	1	26	10	75	.1	23	14	561	5.02	15	5	ND	9	251	1	2	2	105	1.34	175	55	54	1.17	175	.22	5	2.23	.04	.19	2	1
C 42094	1	25	10	75	.1	20	17	550	5.22	20	5	ND	7	144	1	2	2	107	1.04	179	35	54	1.25	172	.26	7	2.27	.07	.29	1	2
C 42095	1	13	7	70	.1	17	13	437	4.61	54	5	ND	10	765	1	2	2	93	.37	142	44	41	.91	372	.24	4	2.01	.03	.22	1	1
C 42096	2	18	6	68	.1	22	13	417	4.32	47	5	ND	9	1421	1	2	2	95	1.20	132	37	41	.80	626	.24	5	2.10	.03	.28	1	1
C 42097	2	19	7	66	.1	23	13	546	4.12	56	5	SD	8	504	1	2	2	87	.81	116	32	48	.90	184	.18	6	2.02	.04	.22	1	1
C 42098	1	21	5	72	.1	22	13	475	4.50	12	5	ND	8	159	1	2	2	91	.77	129	42	44	1.25	182	.22	5	1.81	.04	.22	1	2
C 42099	1	23	9	74	.1	19	15	580	4.93	4	5	ND	11	169	1	2	2	116	1.22	194	56	69	1.25	216	.23	8	1.97	.05	.10	1	1
C 42100	1	29	13	59	.1	26	11	669	4.94	24	5	ND	13	230	1	2	2	96	1.22	185	63	41	1.30	184	.27	5	1.97	.05	.12	1	1
C 42101	1	7	2	65	.1	10	4	540	2.32	4	5	ND	16	60	1	2	2	28	.22	257	32	10	.86	221	.13	9	.66	.04	.28	2	1
C 42102	1	20	12	76	.1	17	15	675	4.16	8	5	ND	12	1029	1	2	2	98	1.21	196	66	29	1.29	588	.21	7	2.13	.05	.24	1	1
C 42103	1	18	13	51	.1	20	18	584	5.44	2	5	ND	7	227	1	2	2	147	1.40	229	91	52	1.88	170	.25	4	2.44	.09	.38	1	1
C 42104	1	20	13	76	.1	17	16	520	4.46	10	5	ND	13	857	1	2	2	116	.92	178	72	31	1.31	489	.15	5	2.05	.05	.22	1	2
C 42105	1	26	13	60	.1	19	12	482	3.15	6	5	ND	12	1395	1	2	2	71	.59	222	56	56	1.13	305	.25	5	1.88	.14	.19	1	1
C 42106	1	15	12	59	.1	15	9	453	2.71	4	5	ND	15	671	1	2	2	49	.96	162	91	21	.80	563	.13	6	1.66	.08	.23	1	1
C 42107	1	12	32	73	.1	4	9	408	3.15	2	5	ND	19	160	1	2	2	66	.53	187	94	12	.79	547	.15	5	1.11	.06	.29	1	1
C 42108	1	15	12	63	.1	9	10	495	2.90	3	5	ND	18	269	1	2	2	59	.60	185	101	16	.83	541	.15	8	1.18	.05	.26	1	2
C 42109	1	22	13	59	.1	14	13	435	3.21	7	5	ND	13	335	1	2	2	79	.83	217	77	54	.99	290	.17	7	1.67	.04	.16	1	1
C 42110	1	13	16	74	.1	11	13	406	4.09	31	5	ND	16	906	1	2	2	87	.79	185	96	24	1.24	583	.10	2	2.25	.04	.24	1	1
C 42111	1	22	13	74	.1	16	15	598	4.25	17	5	ND	13	1512	1	2	2	94	.97	159	78	24	1.29	587	.12	8	2.51	.04	.26	1	1
C 42112	1	28	17	72	.1	17	15	506	4.57	26	5	ND	13	1960	1	2	2	100	1.11	179	76	36	1.31	837	.14	5	2.81	.04	.38	1	1
C 42113	1	15	22	69	.1	9	12	723	3.47	17	5	ND	18	1374	1	2	2	79	.87	187	291	21	.99	719	.13	5	2.13	.05	.24	1	1
C 42114	1	15	21	70	.1	10	13	459	3.25	22	5	ND	16	1571	1	2	2	68	.85	182	97	22	.96	798	.11	2	2.28	.05	.24	1	1
C 42115	1	20	6	67	.1	5	9	395	3.22	3	5	ND	18	125	1	2	2	64	.69	150	90	13	.75	543	.16	7	1.15	.06	.27	1	1
C 42116	1	10	10	64	.1	5	9	382	2.93	6	5	ND	18	121	1	2	2	66	.72	181	91	12	.76	586	.16	8	1.31	.25	.26	1	1
C 42117	1	8	9	48	.1	5	8	365	2.14	7	5	SD	19	525	1	2	2	80	1.09	160	104	11	.56	562	.18	5	1.77	.05	.24	1	1
C 42118	1	9	3	55	.1	4	8	362	2.34	5	5	ND	18	1492	1	2	4	42	.83	175	105	12	.54	831	.14	6	1.65	.05	.31	2	2
C 42119	14	13	11	59	.1	19	12	518	3.66	17	5	ND	15	363	1	2	2	65	.79	197	85	34	.83	437	.11	6	1.85	.03	.17	2	1
C 42120	1	16	11	62	.1	20	11	470	3.04	12	5	ND	17	409	1	2	2	65	.77	201	91	30	.88	518	.15	7	1.75	.06	.24	1	1
C 42121	1	11	7	65	.1	6	8	515	2.25	2	5	ND	20	598	1	2	2	43	.81	164	107	12	.64	547	.14	7	1.18	.04	.24	1	1
C 42122	1	9	5	62	.1	4	8	535	2.59	3	5	ND	20	172	1	2	2	54	.81	186	102	12	.69	522	.15	5	1.12	.05	.26	1	1
C 42123	1	3	14	72	.1	5	9	158	2.64	10	5	ND	19	534	1	2	2	53	.63	153	92	11	.82	555	.14	9	1.18	.04	.25	1	1
STD C AU-P	13	51	40	102	7.1	71	31	1082	4.22	42	21	7	40	51	19	17	15	61	.48	457	19	56	.51	180	.07	27	1.97	.06	.14	12	490

MINEQUEST EXPLORATION PROJECT PCA FILE = 88-5765

SAMPLE#	NO	CU	PD	CA	AG	MC	CO	NA	FE	AS	V	AL	TH	SI	CD	SD	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	YU	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	PPM	PPM	
C 42121	1	11	38	63	.1	2	7	245	2.25	2	5	ND	15	124	1	2	5	43	.62	.159	108	12	.56	545	.14	5	1.17	.05	.25	1	1
C 42122	1	13	9	61	.1	7	8	493	2.19	1	5	ND	15	107	1	2	1	43	.61	.156	107	12	.63	525	.15	6	1.10	.04	.27	1	1
C 42123	1	10	13	41	.1	4	6	324	1.91	0	5	ND	16	1204	1	0	2	36	.73	.144	99	11	.57	770	.11	8	1.53	.05	.29	1	1
C 42127	7	13	5	37	.1	10	10	430	3.36	6	5	MC	19	117	1	2	2	57	.81	.192	107	19	.60	473	.12	4	1.12	.05	.32	1	1
C 42128	1	13	4	71	.1	10	10	347	3.36	4	5	MC	16	106	1	0	2	79	.70	.191	36	28	.89	355	.11	3	.92	.06	.20	1	1
C 42129	2	17	10	95	.1	18	13	536	3.72	15	5	ND	15	162	1	2	2	37	.71	.155	93	23	1.04	540	.09	7	1.66	.05	.20	1	1
C 42130	1	20	16	72	.1	15	12	410	3.52	3	5	ND	5	1552	1	0	2	52	1.22	.162	56	37	1.17	572	.13	5	2.05	.05	.24	1	1
C 42131	2	21	3	78	.1	22	12	456	4.00	6	5	ND	7	1306	1	0	2	89	1.15	.127	43	43	1.14	488	.18	3	2.18	.05	.16	1	2
C 42132	3	27	12	80	.1	27	13	457	4.16	10	5	ND	11	1005	1	2	2	98	1.23	.150	64	43	1.05	594	.22	7	2.20	.06	.42	1	1
C 42133	8	32	8	79	.1	27	14	501	4.06	17	5	ND	3	1253	1	2	2	91	1.23	.154	35	42	1.03	504	.19	6	2.68	.06	.29	1	1
C 42134	1	25	9	80	.1	20	12	429	3.77	8	5	ND	8	1495	1	0	2	89	1.25	.147	44	37	.89	588	.15	7	2.11	.05	.33	1	1
C 42135	1	27	7	75	.1	21	13	445	4.56	3	5	ND	10	1173	1	2	2	89	1.15	.140	45	34	1.10	441	.20	7	2.11	.04	.33	1	1
C 42136	1	27	6	75	.1	19	12	409	3.87	8	5	MC	8	1342	1	0	2	95	1.15	.129	40	35	.92	612	.21	7	2.14	.04	.39	1	1
C 42137	1	27	5	71	.1	21	12	491	3.71	12	5	ND	3	1693	1	2	2	87	1.24	.124	39	34	.92	655	.21	7	2.25	.05	.36	1	1
C 42138	2	32	16	71	.1	5	3	387	3.54	2	5	ND	17	155	1	2	2	77	.84	.179	94	15	.82	549	.15	7	.93	.07	.26	1	1
C 42139	2	14	12	74	.1	6	10	360	3.43	5	5	ND	17	154	1	2	2	80	.64	.131	94	55	.79	596	.15	8	1.07	.06	.27	1	1
C 42140	1	14	8	70	.1	4	5	426	3.49	1	5	ND	15	145	1	2	2	80	.67	.179	94	14	.79	571	.14	6	1.14	.06	.27	1	1
C 42141	1	12	4	63	.1	3	5	370	3.29	2	5	ND	10	195	1	0	2	75	.66	.169	125	14	.83	566	.15	3	1.03	.06	.29	1	1
C 42142	1	3	11	59	.1	4	8	404	2.50	1	5	ND	15	861	1	0	2	52	1.01	.156	35	11	.60	766	.18	12	1.46	.06	.25	1	3
C 42143	1	10	6	66	.1	5	3	400	3.14	2	5	ND	13	243	1	2	2	79	.79	.171	102	15	.92	595	.15	5	1.32	.06	.25	1	2
C 42144	2	10	11	69	.1	4	10	320	3.25	2	5	ND	16	144	1	0	2	77	.65	.157	36	13	.74	546	.14	4	.97	.06	.26	1	3
C 42145	2	15	16	67	.1	12	13	362	3.34	3	7	ND	17	172	1	2	2	80	.71	.186	93	21	.85	571	.15	7	1.18	.06	.27	1	1
C 42146	2	14	10	76	.1	18	10	433	3.37	2	7	ND	18	151	1	0	2	81	.79	.166	80	38	.98	567	.18	6	1.10	.09	.29	1	1
C 42147	3	10	12	73	.1	6	15	435	3.57	2	5	ND	17	239	1	2	2	80	.77	.130	94	17	.81	506	.13	6	1.36	.05	.25	1	1
C 42148	1	20	9	67	.1	24	17	423	3.35	3	5	ND	15	273	1	0	2	82	.80	.150	72	47	1.18	343	.17	9	1.43	.06	.20	1	1
C 42149	1	47	12	67	.1	33	12	449	3.14	3	5	MC	15	350	1	3	2	79	.93	.134	65	49	1.19	283	.12	8	2.04	.05	.22	1	1
C 42150	1	29	14	62	.1	31	11	469	3.32	5	5	MC	13	331	1	2	2	76	.90	.142	62	49	1.40	290	.14	8	2.06	.04	.27	1	3
C 42151	1	20	10	73	.1	19	11	618	3.23	6	5	ND	12	638	1	2	2	93	.80	.142	52	40	.89	432	.16	8	1.57	.03	.24	1	1
C 42152	1	28	12	74	.1	21	12	750	4.26	3	5	ND	11	922	1	2	2	100	1.11	.196	63	44	1.35	502	.14	8	2.17	.05	.19	1	2
C 42153	1	24	7	81	.1	17	12	562	3.99	4	5	ND	10	743	1	2	2	94	1.02	.175	63	34	1.17	461	.12	7	1.78	.04	.23	1	1
C 42154	1	29	7	79	.1	32	14	621	4.42	2	5	ND	9	829	1	3	2	87	.96	.126	39	50	1.46	301	.17	10	2.15	.05	.29	1	1
C 42155	1	32	8	58	.1	34	13	432	3.70	12	5	ND	5	259	1	3	2	81	.82	.105	23	46	1.19	130	.13	3	1.37	.05	.24	1	1
C 42156	1	25	3	46	.1	13	9	324	3.16	2	5	MC	7	117	1	0	2	91	.59	.083	14	18	.78	104	.11	8	1.16	.05	.23	1	1
C 42157	1	22	9	56	.1	22	12	443	3.58	8	5	ND	8	1152	1	3	2	83	1.15	.161	42	39	1.34	542	.15	8	2.17	.03	.34	1	1
C 42158	1	20	9	55	.1	14	12	567	4.29	2	5	ND	9	1181	1	4	2	98	1.20	.151	49	25	1.29	562	.16	8	2.24	.03	.31	1	1
C 42159	1	16	11	59	.2	28	9	483	3.23	6	5	ND	5	831	1	2	2	75	.77	.126	40	33	.93	401	.13	3	1.76	.02	.21	1	1
870 C/MS-8	10	60	40	132	6.8	60	30	1031	4.11	39	21	7	39	50	18	20	20	61	.48	.697	41	55	.88	179	.07	38	1.91	.06	.13	12	510

MINEQUEST EXPLORATION PROJECT PCA FILE # 88-5765

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tb	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	W	K	V	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	
C 42160	1	14	11	60	.1	13	10	525	3.27	6	5	ND	9	952	1	2	2	72	.85	.137	44	28	.92	574	.13	2	1.79	.02	.30	1	2
C 42161	1	10	7	49	.1	9	9	425	1.62	2	5	ND	13	822	1	2	2	65	.70	.048	35	27	.76	512	.12	2	1.37	.03	.31	2	1
C 42162	1	32	13	53	.1	77	16	637	4.01	12	5	ND	8	561	1	2	2	85	1.27	.148	40	80	1.63	375	.15	3	2.76	.08	.13	1	2
C 42163	1	15	13	59	.1	10	10	530	1.19	5	5	ND	11	584	1	2	2	74	.80	.105	40	41	1.02	352	.14	1	1.66	.04	.18	2	4
C 42164	1	20	8	49	.1	15	8	524	3.23	8	5	ND	10	723	1	2	2	66	.75	.084	36	30	.99	392	.10	2	1.67	.03	.20	1	1
C 42165	1	25	15	80	.1	19	15	540	4.15	5	5	ND	8	1399	1	2	2	92	1.13	.170	50	44	1.44	482	.16	4	2.43	.04	.14	1	1
C 42166	1	32	9	78	.1	25	14	536	3.78	12	5	ND	7	1000	1	2	2	79	.86	.138	43	45	1.18	420	.13	5	2.24	.04	.31	1	2
C 42167	1	25	7	78	.1	21	13	464	3.92	7	5	ND	7	1064	1	2	2	83	1.11	.185	42	44	1.33	384	.15	2	2.49	.04	.35	1	1
C 42168	1	21	15	75	.1	16	13	491	3.71	13	5	ND	11	870	1	2	2	81	1.16	.214	65	31	1.09	305	.15	2	2.18	.05	.29	1	1
C 42169	1	23	17	76	.1	18	13	434	3.60	10	5	ND	12	1421	1	2	2	81	1.31	.136	61	37	1.01	625	.16	2	2.82	.05	.33	1	4
C 42170	1	24	8	79	.1	19	13	512	4.11	7	5	ND	7	1353	1	2	2	94	1.18	.156	47	43	1.27	472	.19	2	2.39	.06	.16	1	1
C 42171	2	27	13	77	.1	22	13	434	3.92	8	5	ND	8	1905	1	2	2	74	1.16	.136	38	37	1.31	724	.15	5	2.40	.06	.35	1	1
C 42172	1	25	10	79	.1	25	14	380	4.05	11	5	ND	7	1585	1	2	2	77	1.08	.133	42	42	1.60	701	.11	6	2.47	.05	.34	1	1
C 42173	4	30	13	81	.1	26	15	821	4.17	26	5	ND	7	1524	1	2	2	83	1.09	.136	42	43	1.19	698	.10	2	2.53	.05	.33	1	1
C 42174	7	26	11	79	.1	32	16	785	4.20	42	5	ND	8	1285	1	2	2	83	1.02	.133	47	44	1.55	539	.10	4	2.39	.04	.31	1	1
C 42175	2	25	13	98	.1	23	15	756	4.64	36	5	ND	10	1005	1	2	2	104	1.05	.221	69	40	1.12	425	.12	2	2.15	.04	.23	1	9
C 42176	1	25	12	76	.1	24	23	399	3.63	11	5	ND	7	1389	1	2	2	79	1.05	.138	38	41	1.25	478	.17	2	2.16	.06	.32	1	3
C 42177	3	10	7	29	.1	10	3	114	.31	12	5	ND	2	50	1	3	2	15	.07	.008	8	10	.14	50	.01	5	.43	.01	.09	4	15
C 42178	2	19	14	74	.1	12	5	248	2.99	19	5	ND	1	37	1	2	2	49	.11	.012	6	12	.55	71	.01	6	1.23	.01	.19	1	20
C 42179	3	67	14	62	.1	12	5	310	1.49	14	5	ND	1	26	1	2	4	15	.09	.009	7	17	.30	72	.01	2	.70	.01	.12	2	24
C 42180	1	16	6	48	.1	19	5	319	1.54	55	5	ND	3	97	1	3	2	25	.22	.023	16	20	.58	113	.03	2	.92	.01	.18	1	24
C 42181	1	17	14	31	.1	9	6	226	1.27	3	5	ND	3	228	1	2	2	13	.53	.015	15	9	.34	154	.01	3	1.31	.02	.17	1	12
C 42182	1	10	11	34	.1	12	7	200	1.51	3	5	ND	2	186	1	2	2	13	.48	.015	10	11	.33	124	.01	2	1.27	.02	.18	1	20
C 42183	1	126	5	60	.1	43	14	474	3.47	42	5	ND	3	36	1	3	2	53	.67	.034	8	41	1.15	78	.13	5	1.57	.01	.32	1	34
C 42184	1	101	7	101	.1	62	16	617	4.23	20	5	ND	3	102	1	2	2	69	.70	.072	11	84	1.54	162	.13	5	2.13	.02	.34	1	14
STD C/AU-R	13	62	40	132	7.2	70	10	1040	4.16	42	13	8	40	52	18	18	20	57	.50	.098	39	58	.93	181	.07	37	1.95	.06	.14	12	510

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 / FAX(604)253-1716

File Explorer
RW, RW

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR NH FE SE CR P LA CE MG BA YI B W AND LIMITED FOR NA K AND AL. AN DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AD* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

DATE RECEIVED: NOV 21 1988 DATE REPORT MAILED: Nov 24/88 SIGNED BY: C. Long, D. TOTE, C. LEONG, B. CHAN, J. HONG; CERTIFIED S.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT PLP File # 88-5942

SAMPLE#	Mo	Cu	Pb	Zn	Ag	As	Co	Ni	Fe	K	U	Au	Tl	Sr	Ca	Sb	Bi	V	Cl	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	AD*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	
42185	3	219	4	271	.1	106	39	1371	4.98	153	5	ND	1	76	2	4	2	202	1.06	.290	32	260	1.35	408	.00	2	1.60	.01	.09	1	240
42186	1	254	11	192	.1	79	13	960	7.65	70	5	ND	2	57	1	2	3	172	.57	.150	11	105	.56	100	.02	2	1.45	.01	.06	1	168
42187	2	129	10	91	.0	54	13	628	2.73	48	5	ND	4	109	1	2	2	72	.45	.008	22	64	.69	181	.00	6	1.37	.03	.15	1	29
42188	2	107	4	91	.1	44	10	980	3.19	24	5	ND	4	101	1	2	2	72	1.08	.317	32	57	.65	213	.07	2	1.44	.07	.12	1	24
42189	3	276	7	255	.1	129	20	1354	6.80	92	5	ND	1	79	1	2	2	247	1.07	.284	19	118	1.07	133	.03	2	2.27	.01	.14	1	10
42190	1	172	10	134	.6	114	41	1131	3.32	32	5	ND	3	58	1	2	3	228	.78	.223	17	172	.86	128	.05	3	1.90	.01	.11	1	3
42191	5	151	4	103	.1	98	31	922	2.63	120	5	ND	1	87	1	4	2	270	1.58	.500	15	158	.77	630	.09	2	1.96	.03	.20	1	1
42192	1	132	11	239	.1	57	14	2725	6.33	15	5	ND	2	36	1	2	3	226	.81	.212	21	180	1.54	237	.04	2	1.97	.01	.00	1	133
42193	2	191	12	45	.5	26	5	510	1.92	20	5	ND	1	22	1	2	2	184	.55	.215	6	89	.66	640	.01	2	.80	.01	.09	3	111
42194	4	364	9	219	.1	103	26	1032	4.11	204	5	ND	1	38	5	6	2	224	.79	.227	14	110	1.21	1630	.10	2	1.84	.01	.13	1	81
42195	1	169	7	196	.2	60	20	1249	4.97	60	5	ND	2	31	2	2	4	180	1.11	.220	16	138	1.81	501	.10	6	1.55	.01	.09	1	174
42196	1	265	8	165	.3	89	19	2037	5.57	224	5	ND	2	54	4	2	2	204	2.37	.234	16	322	1.67	572	.04	2	1.69	.01	.08	1	200
42197	8	261	7	87	.1	156	15	632	6.22	204	5	ND	2	56	3	2	6	173	1.48	.383	14	158	1.33	380	.00	2	1.35	.02	.00	1	231
42198	6	198	4	210	.4	96	13	781	4.63	164	5	ND	3	61	2	2	6	115	.87	.158	13	76	1.04	736	.00	0	1.01	.02	.10	1	26
42199	4	115	10	316	.1	128	13	481	2.95	63	5	ND	1	53	1	3	4	187	1.18	.273	12	96	.71	819	.09	2	.99	.02	.10	1	17
42200	6	94	10	142	.4	83	10	371	2.40	42	5	ND	1	40	1	2	3	166	1.07	.164	18	62	.61	106	.10	7	1.18	.04	.14	1	1
42201	8	134	15	267	.2	125	19	679	2.78	71	5	ND	3	51	2	2	3	158	.83	.217	13	115	.93	1530	.15	3	1.00	.02	.14	1	1
42202	6	67	12	141	.4	149	16	530	2.64	70	6	ND	6	284	1	2	2	159	1.29	.283	35	147	1.03	965	.13	9	1.41	.12	.17	1	45
STD C/AD-1	10	57	36	132	6.6	67	29	1015	3.81	40	21	0	38	47	17	16	20	56	.45	.080	38	56	.83	173	.06	40	1.84	.06	.14	12	510

PART B

Rock Chip Sample Results



ECO-TECH LABORATORIES LTD.

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

DECEMBER 2, 1988

CERTIFICATE OF ANALYSIS ETK 88-722

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

ATTENTION: ROBERT LONGE

SAMPLE IDENTIFICATION: 27 ROCK samples received November 30, 1988
PROJECT: PAS

ET#	Description	Au (ppb)	Au (g/t)	Au (oz/t)	Ag (ppm)	Cu (ppm)	As (ppm)
722 - 1	P D L 88 58	35			.3	6	100
722 - 2	59	45			.4	9	127
722 - 3	60	40			.4	10	36
722 - 4	61	20			.7	10	43
722 - 5	62	15			.6	11	76
722 - 6	63	10			.1	6	111
722 - 7	64	10			<.1	6	79
722 - 8	65	15			.3	10	41
722 - 9	66	20			1.2	8	41
722 - 10	67	10			.3	12	31
722 - 11	68	10			.2	11	50
722 - 12	69	90			1.8	7	195
722 - 13	70	15			.1	9	43
722 - 14	71	20			1.1	6	92
722 - 15	72	185			11.3	8	104
722 - 16	73	245			12.7	5	227
722 - 17	74	75			7.6	10	130
722 - 18	75	>1000	1.03	.030	6.0	11	71
722 - 19	76	55			1.5	21	59
722 - 20	77	175			34.1	18	72
722 - 21	78	330			.6	15	41
722 - 22	79	10			.1	22	23
722 - 23	80	15			.1	17	66
722 - 24	81	10			.2	13	28
722 - 25	82	60			.9	11	45
722 - 26	83	25			8.0	13	56
722 - 27	84	5			.2	13	42

NOTE: < = LESS THAN
> = MORE THAN

Frank J. Pezzotti
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

cc: LINDA LEE
C/O ARGUS MOTOR INN
KAMLOOPS, B.C.

FAX
SC88/MINEQUEST1

APPENDIX II


Statements of Qualifications

STATEMENT OF QUALIFICATIONS

I, Linda J. Lee, hereby certify that:

1. I am presently employed by MineQuest Exploration Associates Ltd. as a Geologist.
2. 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
17th day of January, 1989.

APPENDIX III

Cost Statement

Cost Statement

Fees and Wages (October 27 - November 30)

R.V. Longe	1	day	at \$525.00	\$	525.00	
L.J. Lee	20	days	at \$300.00		6,000.00	
C. Donders	5	days	at \$235.00		1,175.00	
K. Miller	1	day	at \$235.00		235.00	
C. O'Neill	17	days	at \$200.00		3,400.00	
S. Handley	15	days	at \$165.00		2,475.00	
T. Hicken	3	days	at 130.00		390.00	
					<hr/>	
				\$	14,200.00	\$ 14,200.00

Disbursements

Rental vehicles				\$	2,460.00	
Fuels and lubricants					175.00	
Contract backhoe work					4,960.00	
Contract bulldozing					5,200.00	
Room and Board					3,315.00	
General field supplies					600.00	
Analyses 202 at \$15.25					3,080.50	
Shipping costs					375.00	
Communications, postage, etc.					120.00	
Reprographics, maps, etc.					360.00	
Equipment rental (chainsaw, scint, etc.)					990.00	
					<hr/>	
					21,635.50	
			+ 10% override		2,163.55	
					<hr/>	
					23,799.05	\$ 23,799.05

MineQuest Charges

Photocopies				\$	25.00	
Word Processing					600.00	
					<hr/>	
					625.00	\$ 625.00
						<hr/>
						\$ 38,624.05
						<hr/> <hr/>

APPENDIX IV

Statements of Work



MINERAL ACT

DOCUMENT No. _____
OFFICE USE ONLY

SUB-RECORDER
RECEIVED
NOV 29 1988
M.R. # _____ \$ _____
VANCOUVER, B.C.
RECORDING STAMP

Statement of Work — Cash Payment

1. <u>Kevin Miller</u> (Name)	Agent for <u>QFX Minerals Inc.</u> (Name)
Valid subsisting FMC No. <u>260507</u> <u>500 - 164 Water St.</u> (Address) <u>Vancouver, B.C.</u>	Valid subsisting FMC No. <u>299640</u> <u>500 - 164 Water St.</u> (Address) <u>Vancouver, B.C.</u>
<u>669-2251</u> (Postal Code)	<u>V6B 1B5</u> (Telephone Number)
<u>669-2252</u> (Postal Code)	<u>V6B 1B5</u> (Telephone Number)

STATE THAT: [Note: If only paying cash in lieu, turn to reverse and complete columns G to J and S to V.]
1. I have done, or caused to be done, work on the Astro 1, Astro 33, Astro 34, Akira I, Akira II Fr, Ford 2 (Astro 1 Group) Claim(s)
Record No(s) 213, 245, 246, 2912, 2913, 3002
Situate at Keremeos in the Osoyoos Mining Division.
Work was done from October 1, 19 88, to November 25, 19 88.

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

PROSPECTING: Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work can only be claimed once by the same owner of the ground, and only during the first three years of ownership.

GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING: Details must be submitted in a technical report conforming to sections 5 through 8 (as appropriate) of the Regulations.

PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL: A maximum of 30% of the approved value of geological, geophysical, geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account and added to the work value on this statement.

TYPE OF WORK (Specify Physical (include details), Prospecting, Geological, etc.)	VALUE OF WORK		
	Physical	Prospecting	Geological etc.
Geological			24,000
Report to Follow			
TOTALS	A	+ B	+ C 24,000 = D 24,000
PAC WITHDRAWAL — Maximum 30% of Value in Box C Only			E — E
from account(s) of _____			TOTAL F 24,000
* Who was the operator (provided the financing)? Name <u>QFX Minerals Inc.</u> Address <u>500 - 164 Water St.</u> <u>Vancouver, B.C.</u> Phone: <u>669-2252</u>	Transfer amount in Box F to reverse side of form and complete as required.		

F \$ 24,000

I WISH TO APPLY \$ 24,000 OF THE TOTAL VALUE FROM BOX F AS FOLLOWS:

Columns G through R inclusive MUST BE COMPLETED before work credits can be granted to claims. Columns G through J and S through V inclusive MUST BE COMPLETED before a cash payment or rental payment can be credited. Columns not applicable need not be completed.

Cash Payment

CLAIM IDENTIFICATION

G	H	I	J
CLAIM NAME (one claim/lease per line)	RECORD No.	No. OF UNITS*	CURRENT EXPIRY DATE
Astro 33	245	20	Mar. 9/88
Astro 34	246	20	Mar. 9/88

APPLICATION OF WORK CREDIT

WORK TO BE APPLIED			N	O	P	Q	R
VALUE	YEARS	EXCESS CREDIT	RECORDING FEES 5% OF K	PENALTY FEES 10% OF K	PRIOR EXCESS CREDIT BEING USED	NEW EXPIRY DATE	EXCESS CREDIT REMAINING
12,000	3		600			Mar. 9/91	
12,000	3		600			Mar. 9/91	
24,000			1200				
TOTAL OF K			TOTAL OF N	TOTAL OF O			

CASH IN LIEU OF WORK OR LEASE RENTAL

S	T	U	V
CL	RECORDING FEE 5% OF S	MINERAL LEASE RENTAL	NEW EXPIRY DATE
TOTAL OF S	TOTAL OF T	TOTAL OF U	

NOTICE TO GROUP No. _____ RECORDED _____

* 2 POST FRACTION. REV. CROWN GRANT ARE 1 UNIT EACH

Value of work to be credited to portable assessment credit (PAC) account(s).
[May only be credited from the approved value of Box C not applied to claims.]

Name	AMOUNT
Name of owner/operator 1. _____	
2. _____	
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 claim(s) may, as a result, forfeit to and vest back to the Province.

Signature

Signature of Applicant



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,284

Legend

POST EOCENE (age uncertain) 5 Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of units 1, 2 and 4 in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.

EOCENE Marron Formation:

- 4d Nimpit Lake Member: Tuff trachyte and trachyandesite lava and minor breccia
- 4c Kearns Creek Member: Vesicular pyroxene-rich basaltic andesite lava
- 4b Kitley Lake Member: Trachyandesite lava with conspicuous glomerophenocrystic clots of feldspar
- 4a Yellow Lake Member: Pyroxene-rich mafic phonolite lava with local well developed phenocrysts of anorthoclase. Abundant zeolites

Springbrook Formation:

- 3 Polymictic conglomerate. Clasts are mainly pre-Tertiary cherts and gneissites, minor intrusive and rhyolite clasts. Minor narrow sandstone and tuffaceous sandstone interbeds.
- 2 Medium to coarse grained quartz diorite, diorite or porphyritic latite dykes.

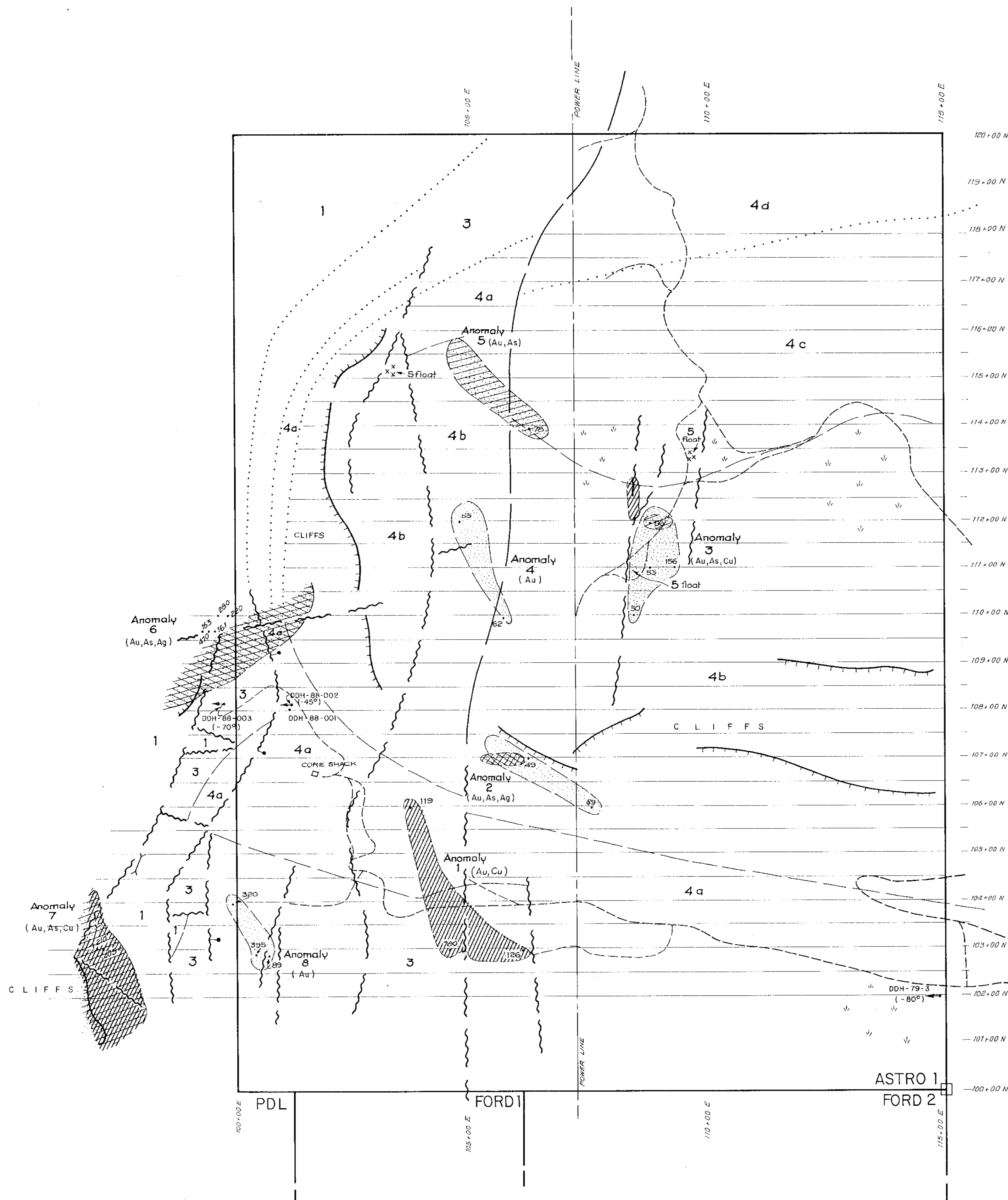
POST TRIASSIC (age uncertain)

TRIASSIC or OLDER Shoemaker Formation:

- 1 Mainly cherts, locally brecciated, minor greenstone, limestone and tuffs.

- Anomalous Au values (best values in each anomaly are shown in ppb Au)
- Anomalous As values
- Anomalous Ag values
- Anomalous Cu values
- Claim boundary
- Grid line
- Fault
- Road
- Swamp
- Diamond drill hole
- Power line
- Geological contact: mapped from Church, (1982)
- Regional fault: from Church, (1982)
- Trench
- Cliff

SCALE 1: 5,000



QPX MINERALS INC.					
PDL PROPERTY, OSOY00S M.D., B.C.					
PDL and ASTRO GROUPS					
ANOMALY COMPILATION MAP					
	Originator	Drawn	Date	PLAN	FIG.
Original	L. J. L.	C. D.	Nov. 1988	1375	4
Revision	L. J. L.	C. D.	Nov. 1988	N.T.S.	
Revision				82 E/5 W	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



GEOLOGICAL BRANCH
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Legend

POST EOCENE (age uncertain) 5 Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of units 1, 2 and 4 in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.

EOCENE
Marron Formation:
4d Nimpit Lake Member: Tan trachyte and trachyandesite lava and minor breccia
4c Kearns Creek Member: Vesicular pyroxene-rich basaltic andesite lava
4b Kitley Lake Member: Trachyandesite lava with conspicuous glomerophenocrystic clots of feldspar
4a Yellow Lake Member: Pyroxene rich mafic phonolite lava with local well developed phenocrysts of anorthoclase. Abundant zeolites.

3 Springbrook Formation:
3 Polymictic conglomerate. Clasts are mainly pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts. Minor narrow sandstone and tuffaceous sandstone interbeds.
2 Medium to coarse grained quartz diorite, diorite or porphyritic latite dykes.

POST TRIASSIC (age uncertain)
1 Shoemaker Formation:
1 Mainly cherts, locally brecciated, minor greenstone, limestone and tuffs.

TRIASSIC OR OLDER

SYMBOLS

- Claim boundary
- Grid line
- Fault, downthrown side
- Road
- Swamp
- ◇ Diamond drill hole
- Power line
- Barbed wire fence
- Geological contact: mapped from Church, (1982)
- Regional fault (from Church, 1982)
- Outcrop boundary
- Spring
- Trench
- Test Pit
- Cliffs
- Strike/dip of bedding, horizontal bedding
- Strike/dip of fault, fracture
- Float
- Brecciated
- Glacial striation

ABBREVIATIONS

- qtz Quartz
- po Pyrrhotite
- py Pyrite
- cpy Chalcopyrite
- ssf Sandstone
- hem Hematite
- g/c Outcrop
- silic. Silicified

SCALE 1 : 5,000

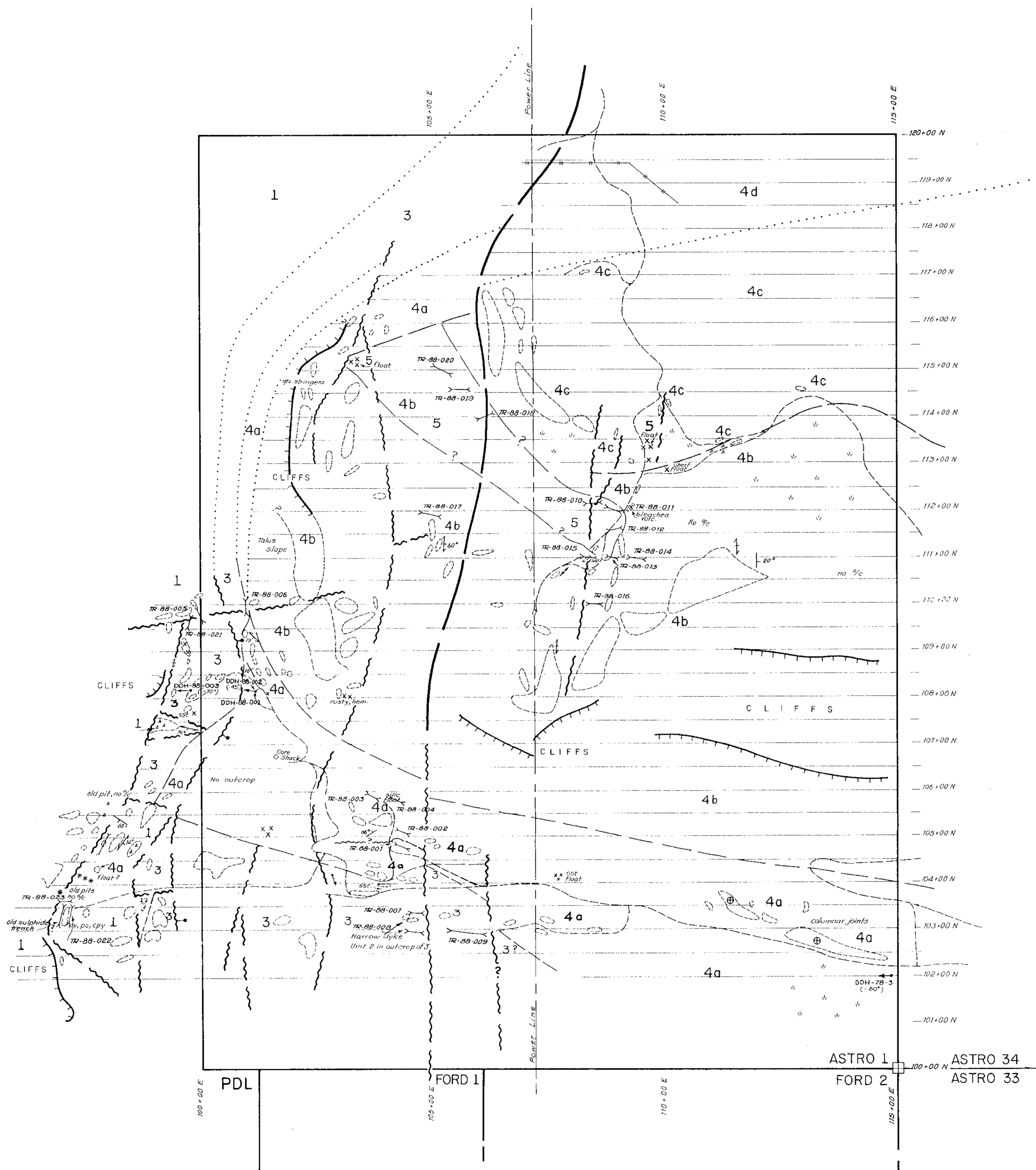


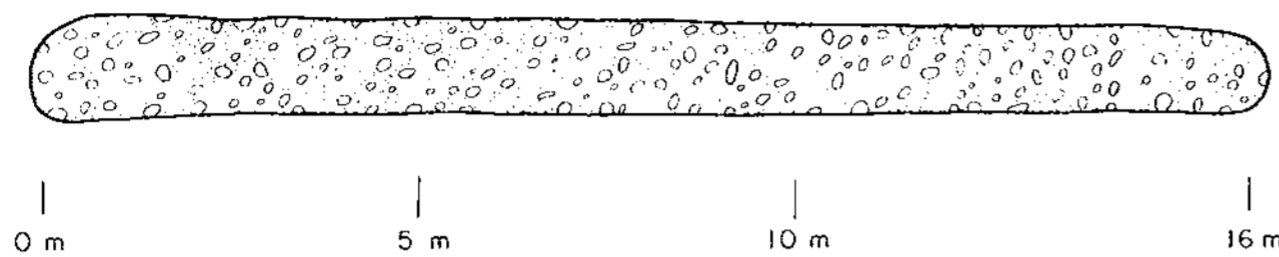
QPX MINERALS INC.
PDL PROPERTY, OSOYOOS M.D., B.C.

GEOLOGY and
TRENCH LOCATION MAP

	Originator	Drawn	Date	PLAN	Figure
Original	L.J.L.	C.D.	Oct. 1988	1381	6
Revision				N.T.S.	
Revision				82E/5W	

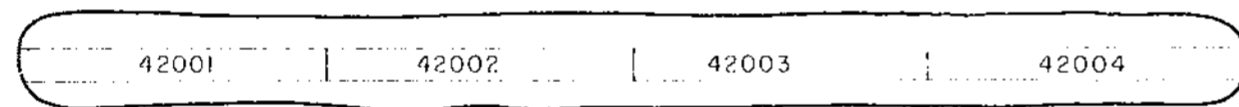
MINEQUEST EXPLORATION ASSOCIATES LTD.





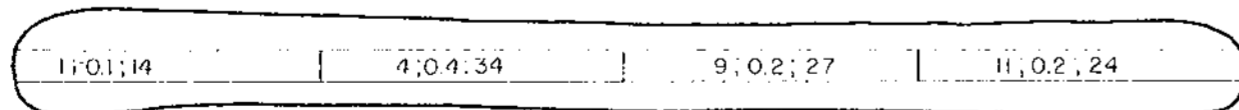
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW


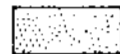
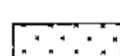

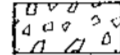


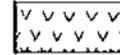











RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

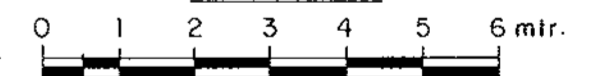
Legend

-  Overburden
 - TERTIARY POST-EOCENE**
 -  Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles
 -  Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 -  Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 -  **MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 -  **SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is buffaceous with 2% euhedral biotite.
 -  Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 -  Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - TRIASSIC or OLDER**
 -  **SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | ABBREVIATIONS |
|---|----------------------|
|  Narrow fault zone | py pyrite |
|  Geological contact; defined, gradational. | chl chloritic |
|  Strike / dip of bedding | qtz quartz |
|  Strike / dip of fault or fractures | seric sericitization |
|  Strike / dip of veining | diss disseminated |
|  Channel sample location. | alt'd altered |
|  Grab sample location. | silic silicified |
|  Brecciated | |

**GEOLOGICAL BRANCH
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Scale 1:100



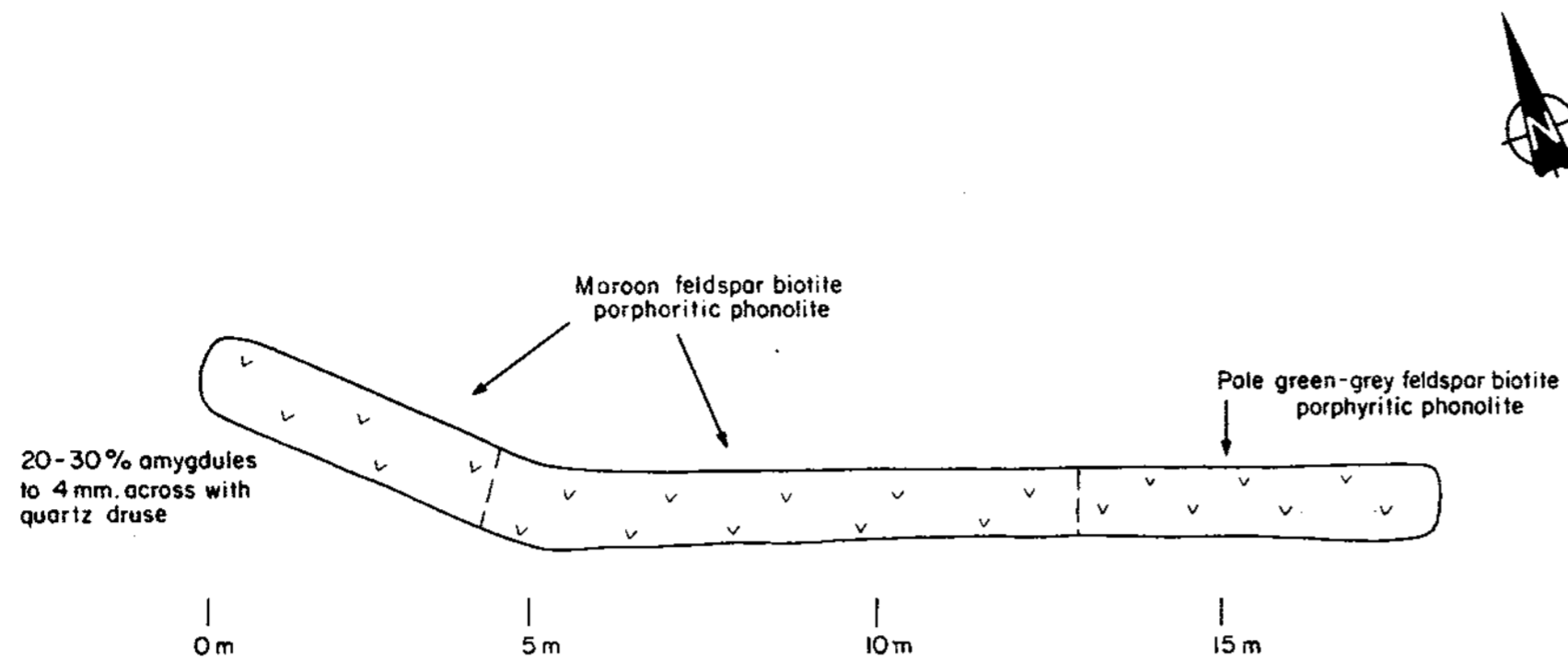
QPX MINERALS INC.

PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-001
**GEOLOGY, SAMPLE LOCATIONS
and RESULTS**

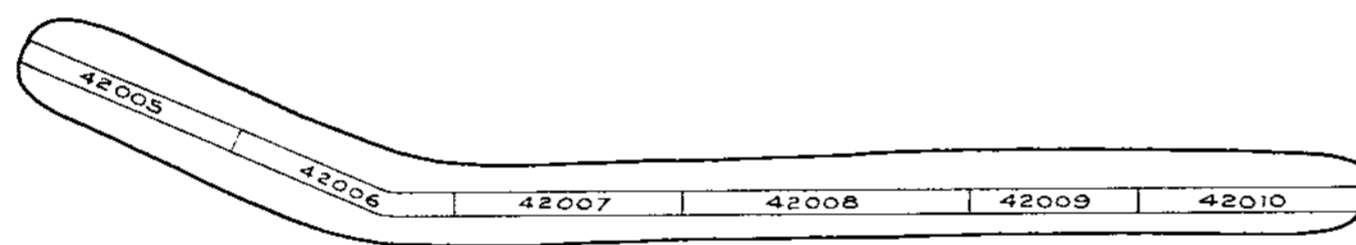
Original	Originator	Drawn	Date	PLAN NO.	FIGURE
	L.J.L.	C.D.	Oct '88	1382	7
Revision				N.T.S.	
Revision				82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



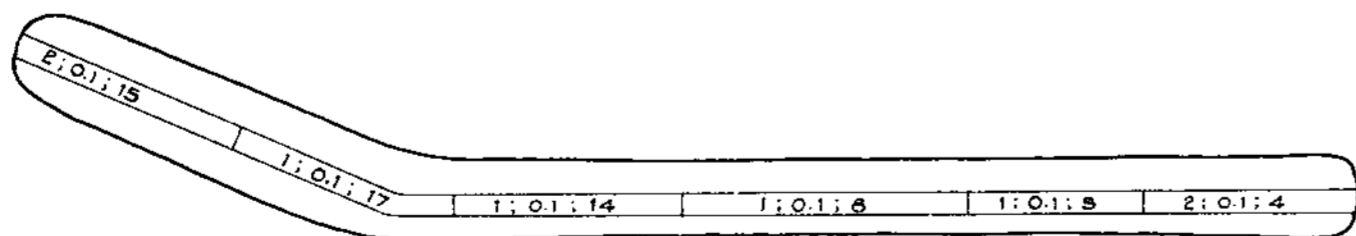
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW




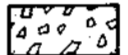


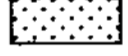












RESULTS

Au (ppb); Ag (ppm); As (ppm)

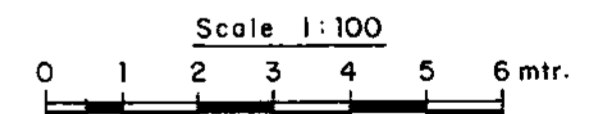
PLAN VIEW

Legend

-  Overburden
 - TERTIARY POST-EOCENE**
 -  Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 -  Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 -  Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
 -  Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 -  Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 -  Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 -  Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER**
 -  Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS | |
|---|---|---------------|----------------|
|  | Narrow fault zone | py | pyrite |
|  | Geological contact; defined, gradational. | chl | chloritic |
|  | Strike / dip of bedding | qtz | quartz |
|  | Strike / dip of fault or fractures | seric | sericitization |
|  | Strike / dip of veining | diss | disseminated |
|  | Channel sample location. | alt'd | altered |
|  | Grab sample location. | silic | silicified |
|  | Brecciated | | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

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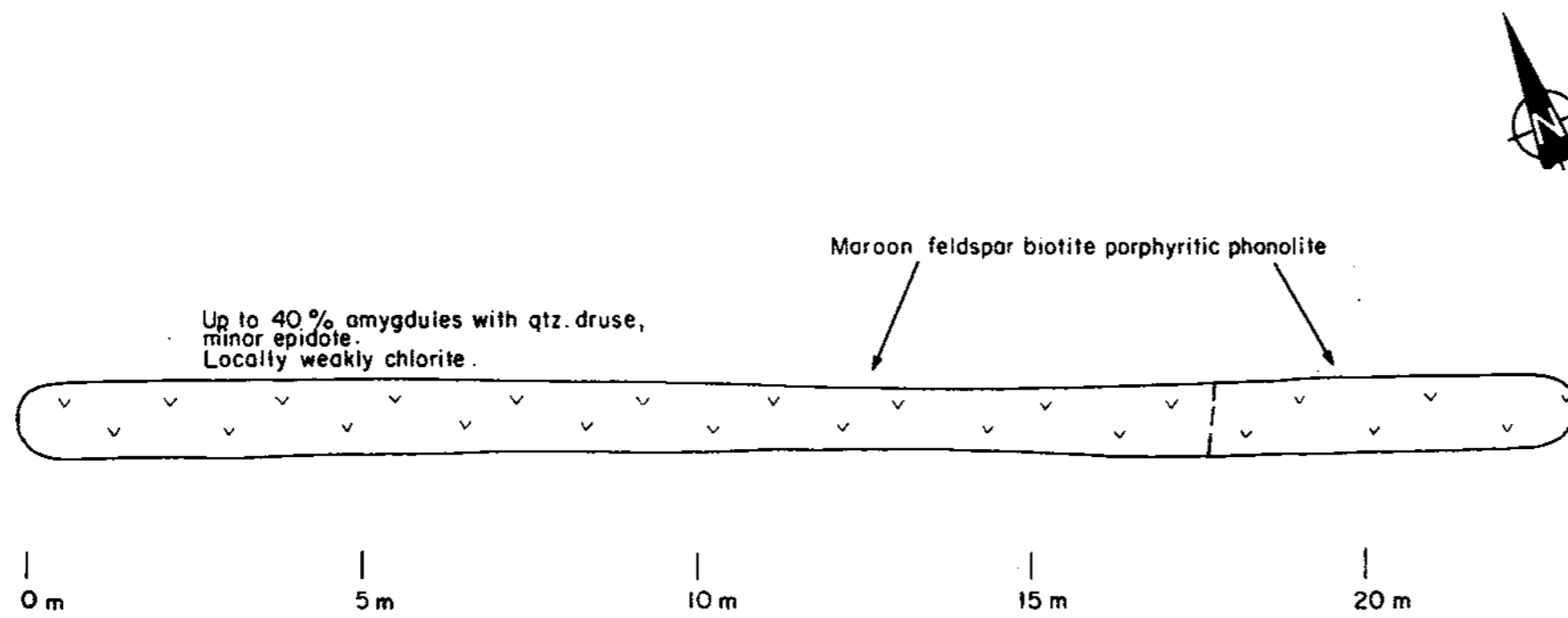
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-002

GEOLOGY, SAMPLE LOCATIONS and RESULTS

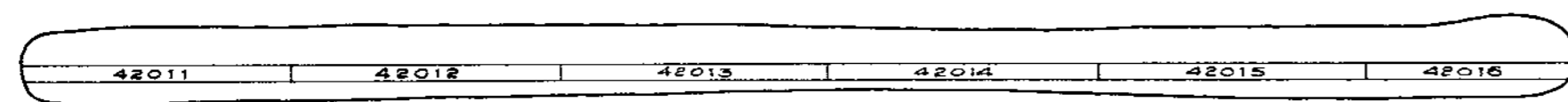
Original	Originator	Drawn	Date	PLAN NO.	FIGURE 8
Revision	L.J.L.	C.D.	Oct. '88	1383	
Revision				N.T.S. 82E/5W	

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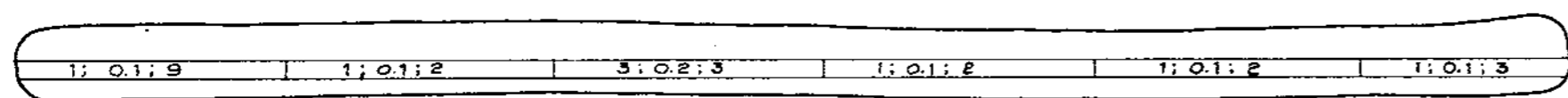
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

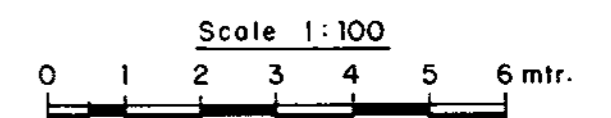
PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE
Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
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 - MARRON FORMATION**
 - EOCENE
Porphyritic andesitic and phonitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
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 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures.
 - Strike / dip of veining
 - Channel sample location.
 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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QPX MINERALS INC.

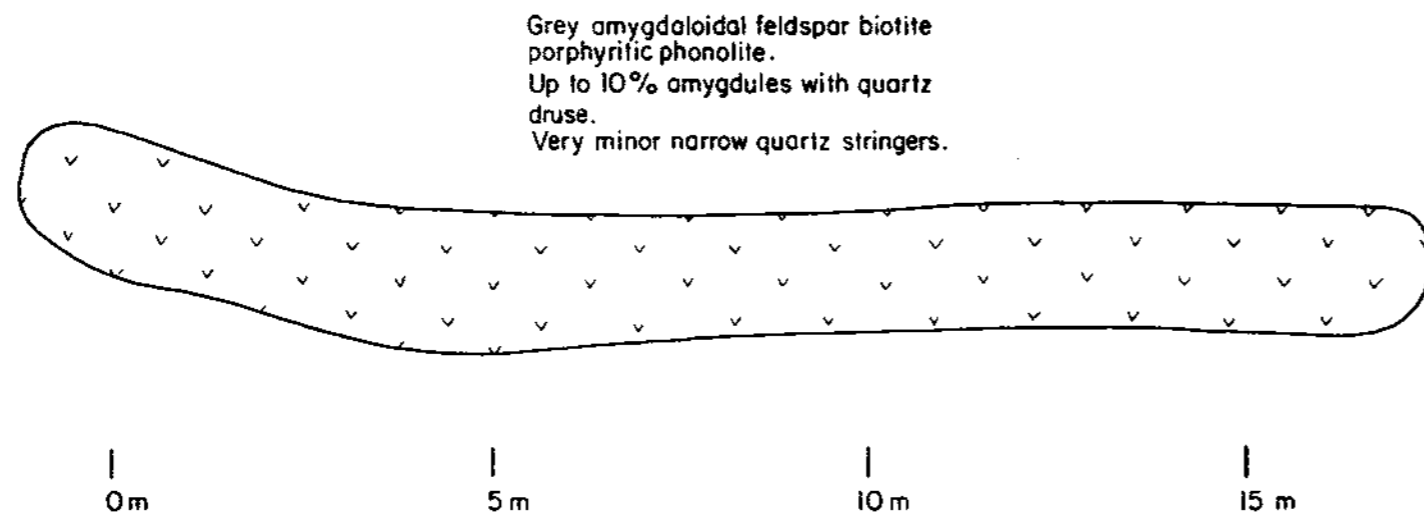
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-003

GEOLOGY, SAMPLE LOCATIONS
and RESULTS

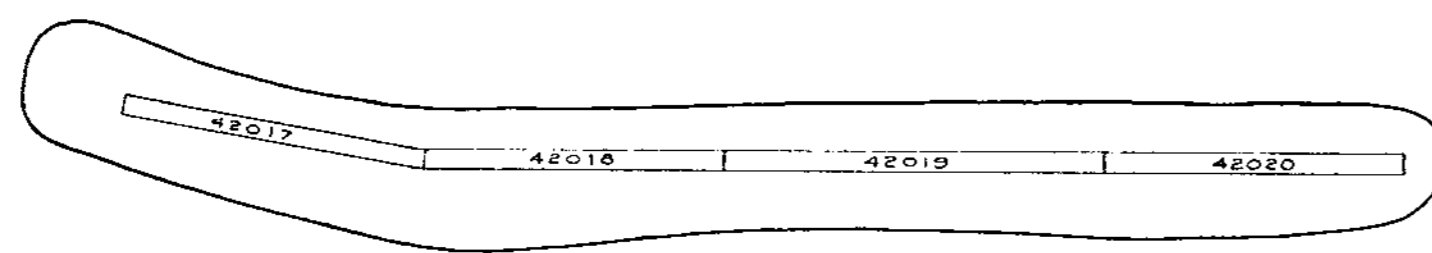
Original	Originator	Drawn	Date	PLAN NO.	FIGURE 9
Revision	L.J.L.	C.D.	Oct.'88	1384	
Revision				N.T.S. 82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



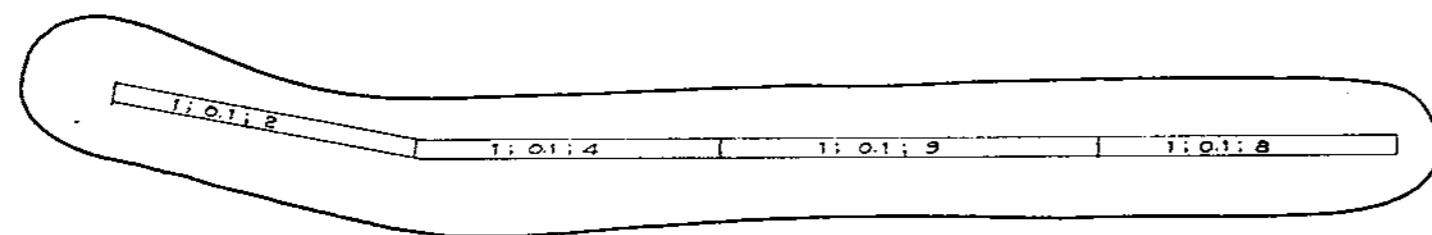
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- TERTIARY POST-EOCENE**
- Overburden
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
- EOCENE**
- MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
- TRIASSIC or OLDER**
- SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures
 - Strike / dip of veining
 - Channel sample location.
 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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Scale 1:100



QPX MINERALS INC.

PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-004

GEOLOGY, SAMPLE LOCATIONS
and RESULTS



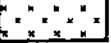
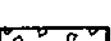




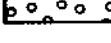

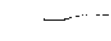
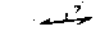
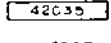
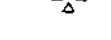



Original	Originator	Drawn	Date	PLAN NO.	FIGURE 10
Revision	L.J.L.	C.D.	Oct.'88	1385	
Revision				N.T.S. 82E/5W	

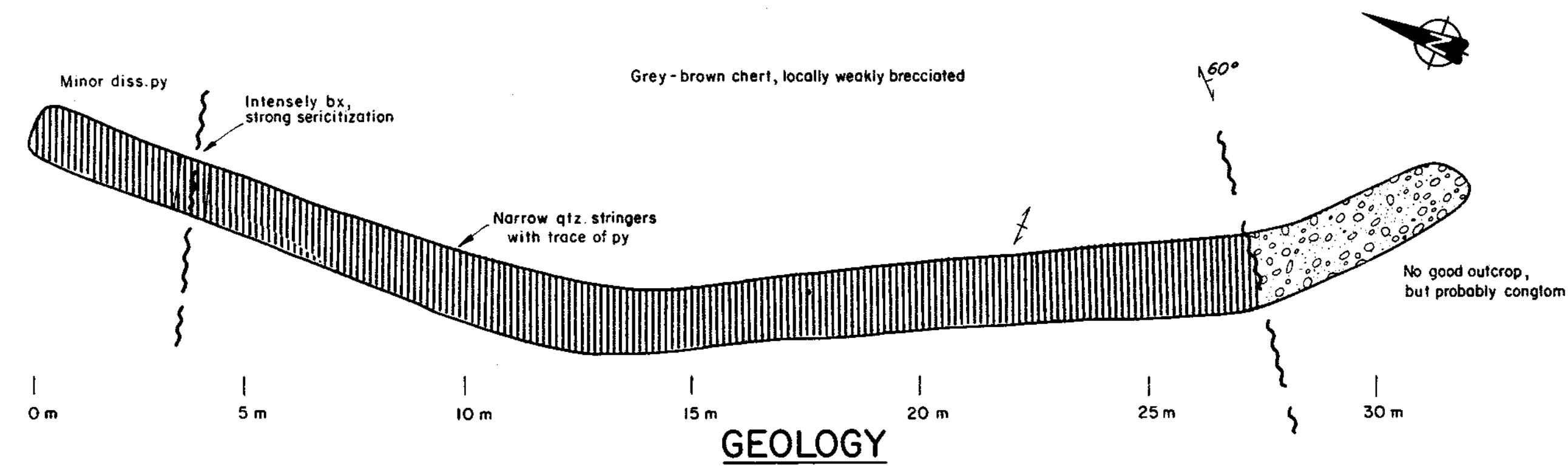
MINEQUEST EXPLORATION ASSOCIATES LTD.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

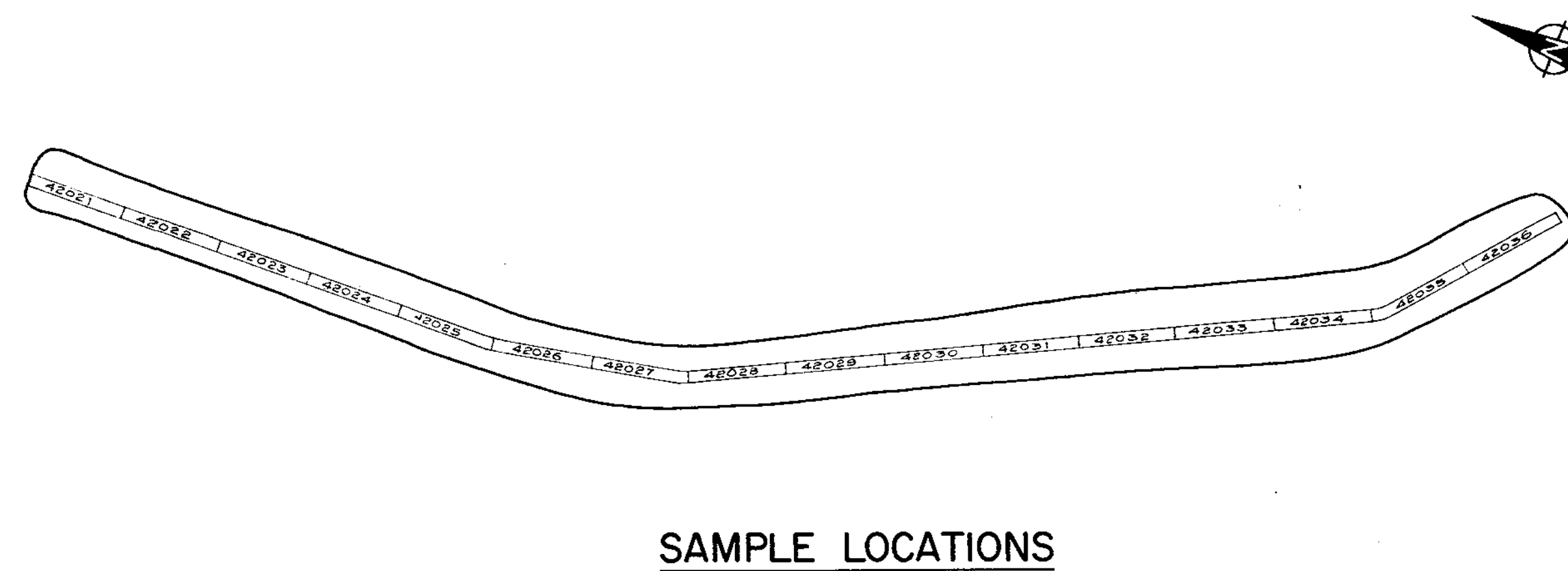
18,284

Legend

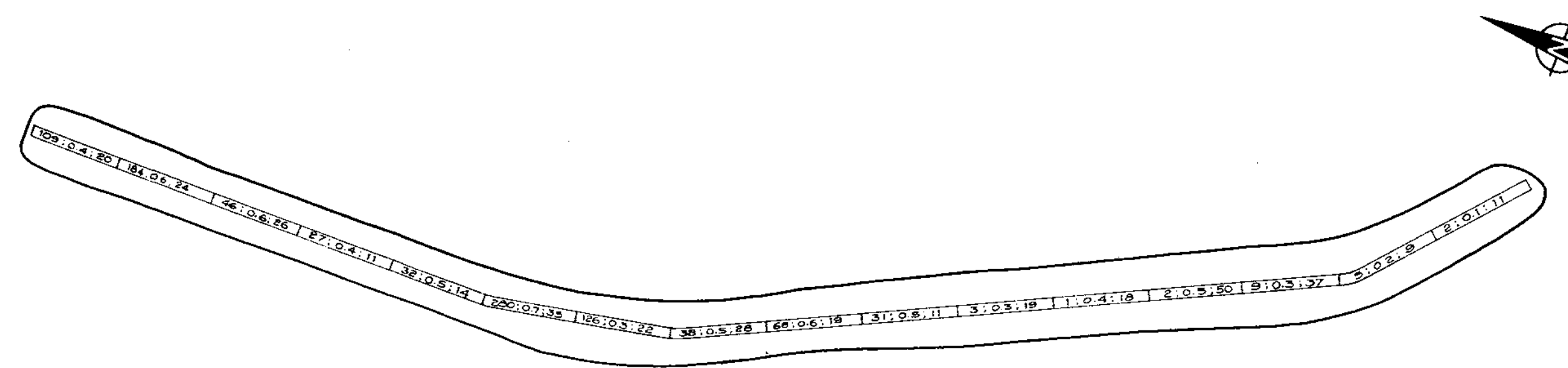
-  Overburden
 - TERTIARY POST-Eocene**
 -  Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 -  Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag), 20-30% quartz, and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 -  Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusives and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - Eocene**
 - MARRON FORMATION**
 -  Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
 - SPRINGBROOK FORMATION**
 -  Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones, minor intrusives and rhyolite clasts in a fine grained sandy matrix. Locally matrix is buffaceous with 2% euhedral biotite.
 -  Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 -  Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER**
 -  Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS |
|---|---|----------------------|
|  | Narrow fault zone | py pyrite |
|  | Geological contact; defined, gradational. | chl chloritic |
|  | Strike / dip of bedding | qtz quartz |
|  | Strike / dip of fault or fractures | seric sericitization |
|  | Strike / dip of veining | diss disseminated |
|  | Channel sample location | alt'd altered |
|  | Grab sample location | silic silicified |
|  | Brecciated | |



PLAN VIEW

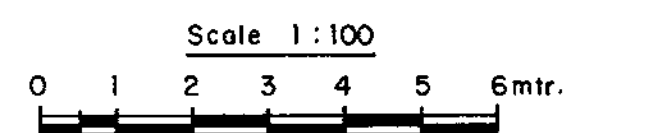


PLAN VIEW

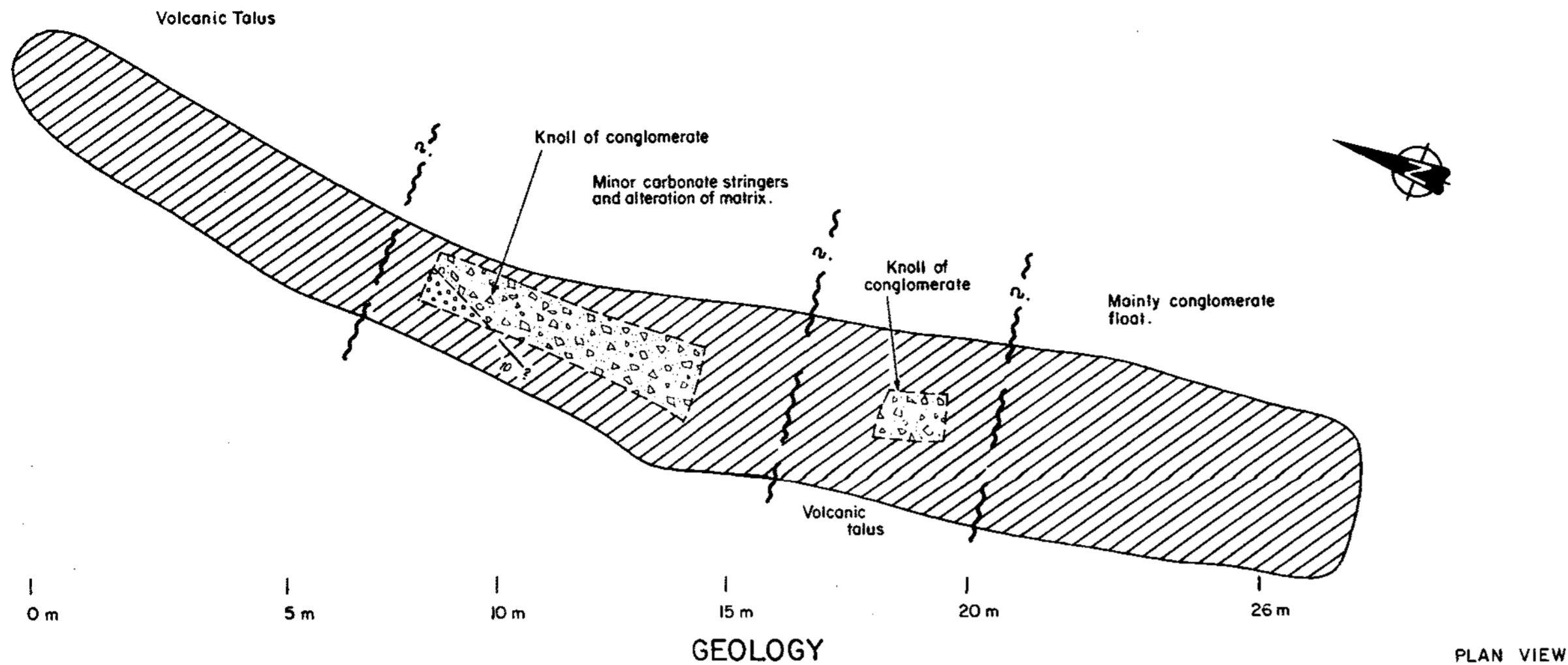


PLAN VIEW

RESULTS Au (ppb); Ag (ppm); As (ppm)

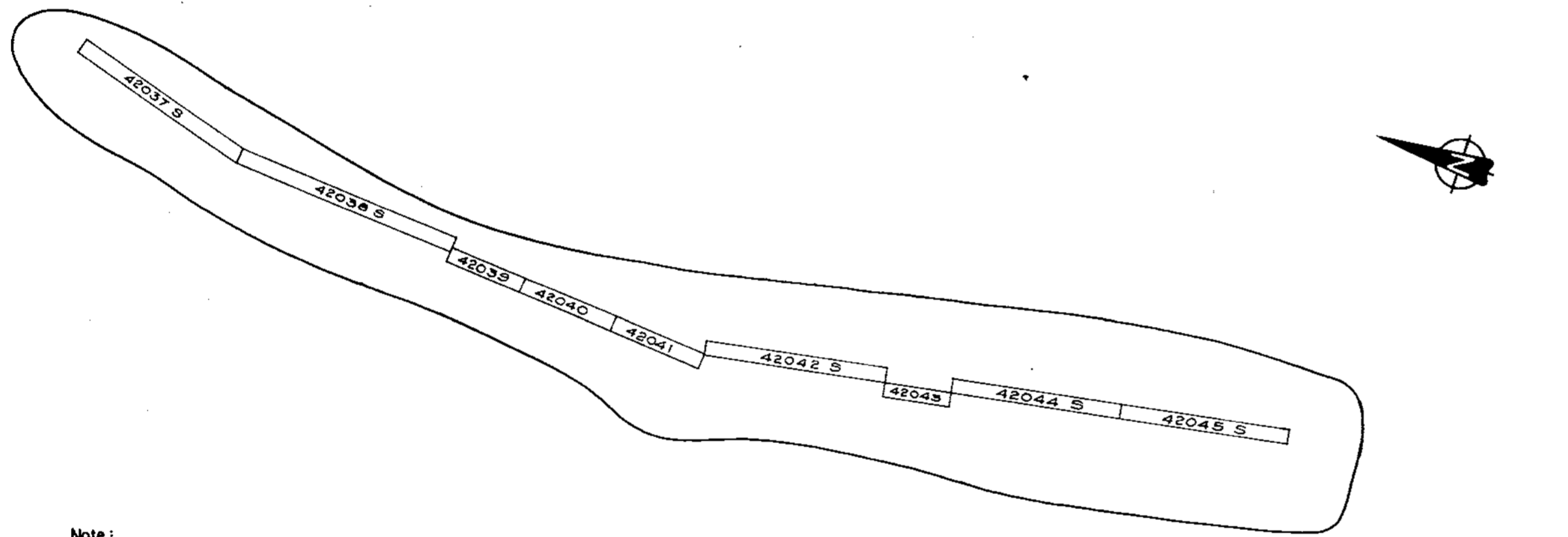


QPX MINERALS INC.					
PDL PROPERTY, OSOYOOS M.D., B.C.					
TR-88-005					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
	Originator	Drawn	Date	PLAN 1386	FIG. 11
	L.J.L.	C.D.	Nov. 1988	N.T.S.	
				82E/5W	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



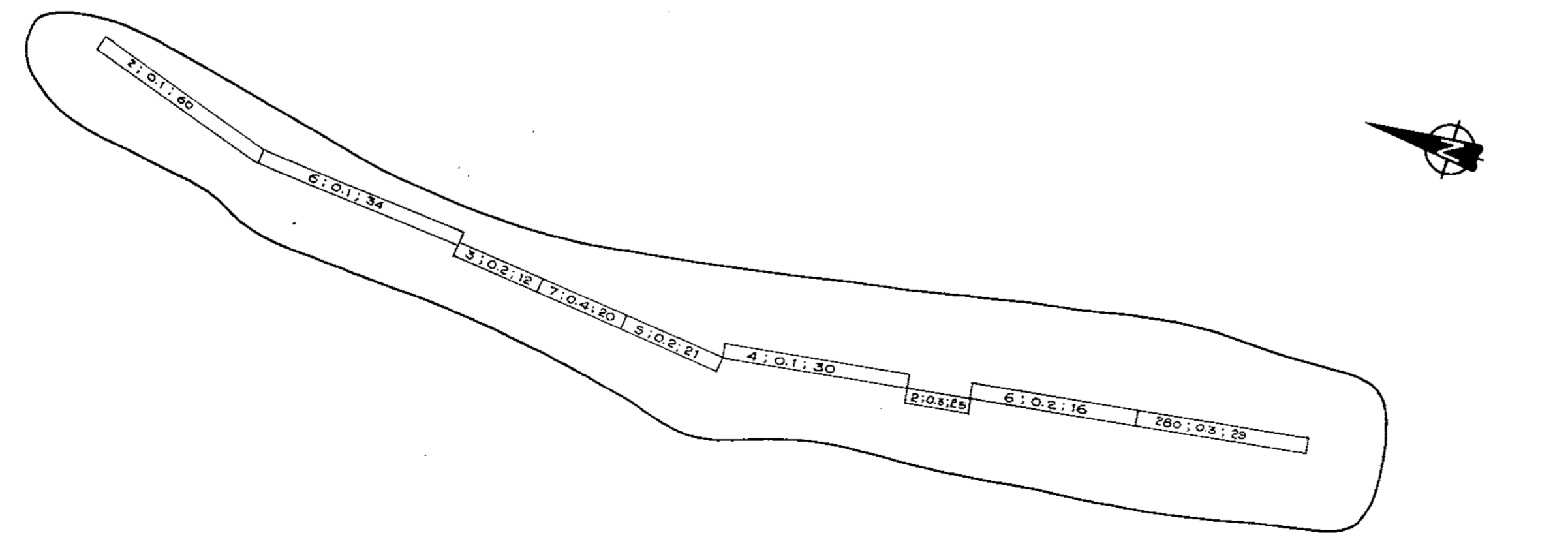
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

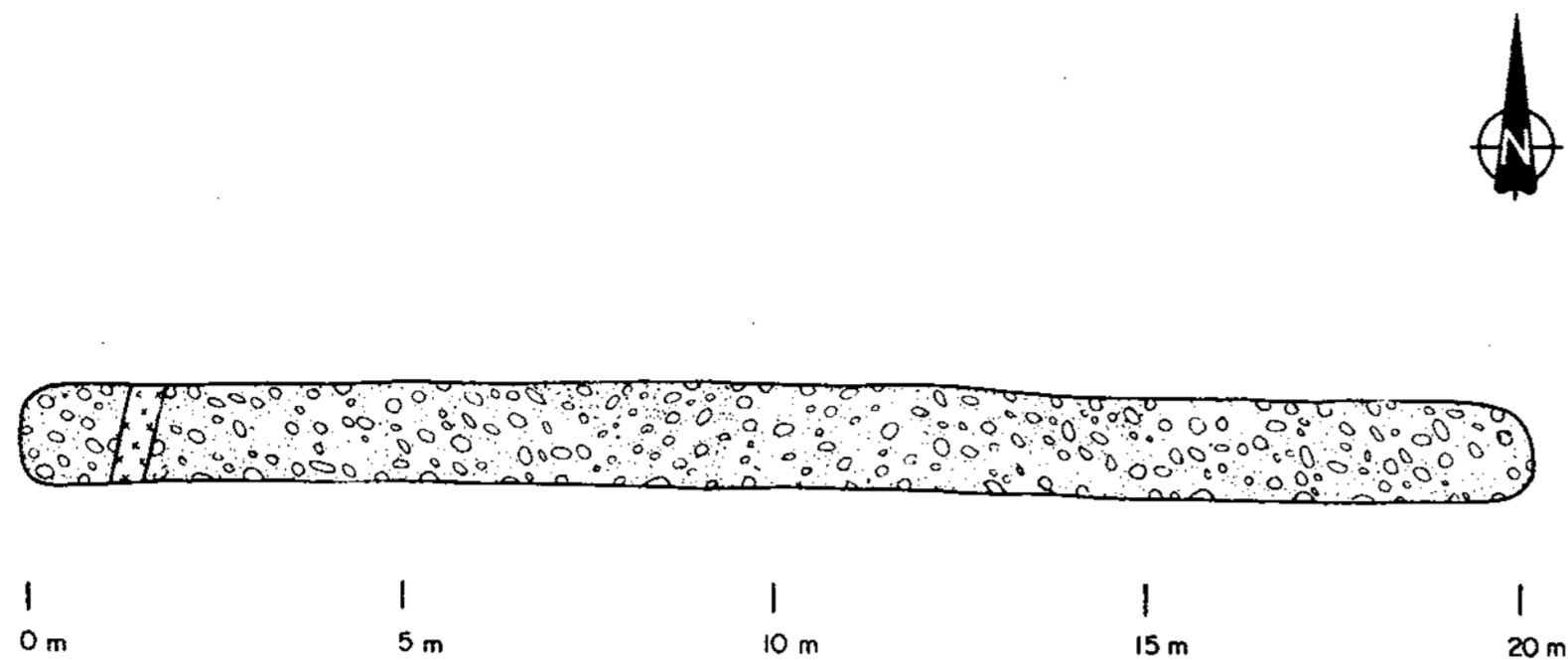
Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - MARRON FORMATION**
 - EOCENE**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | ABBREVIATIONS |
|--|----------------------|
| Narrow fault zone | py pyrite |
| Geological contact; defined, gradational | chl chloritic |
| Strike / dip of bedding | qtz quartz |
| Strike / dip of fault or fractures | seric sericitization |
| Strike / dip of veining | diss disseminated |
| Channel sample location | al'd altered |
| Grab sample location | silic silicified |
| Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

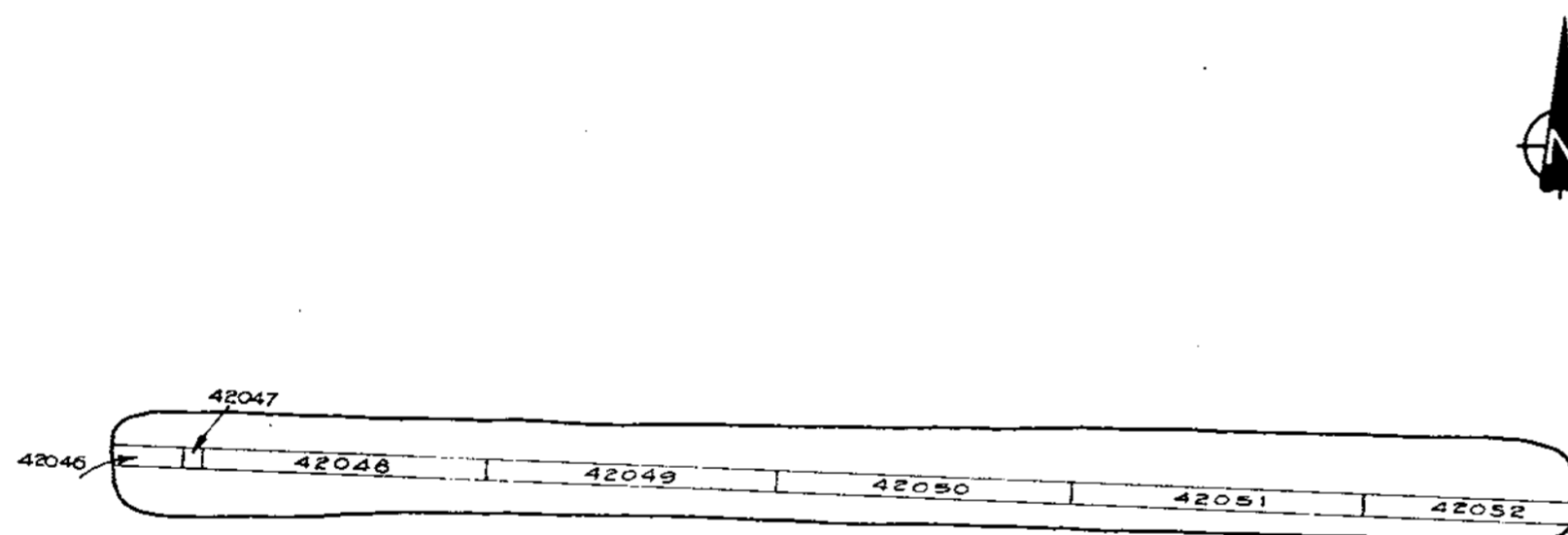
18,284 scale 1:100 0 1 2 3 4 5 6 mtr.

QPX MINERALS INC.					
PDL PROPERTY, OSOYOOS M.D., B.C.					
TR-88-006					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
	Originator	Drawn	Date	PLAN NO.	FIGURE
Original	L.J.L.	C.D.	Oct. '88	1387	12
Revision				N.T.S.	
Revision				82E/5W	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



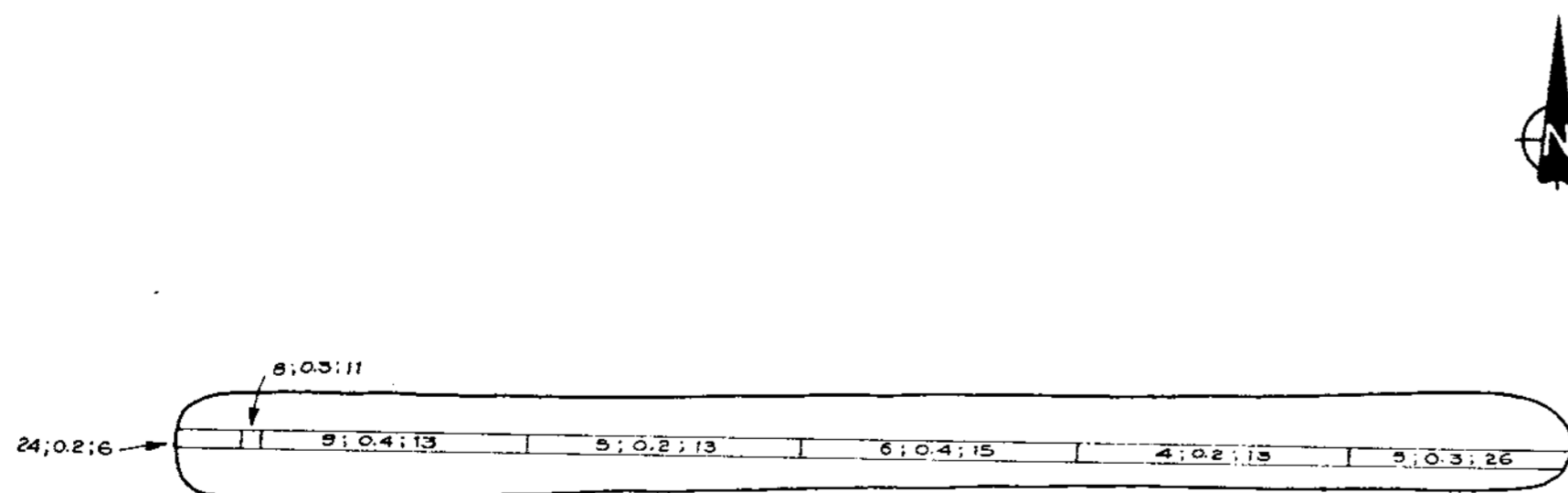
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

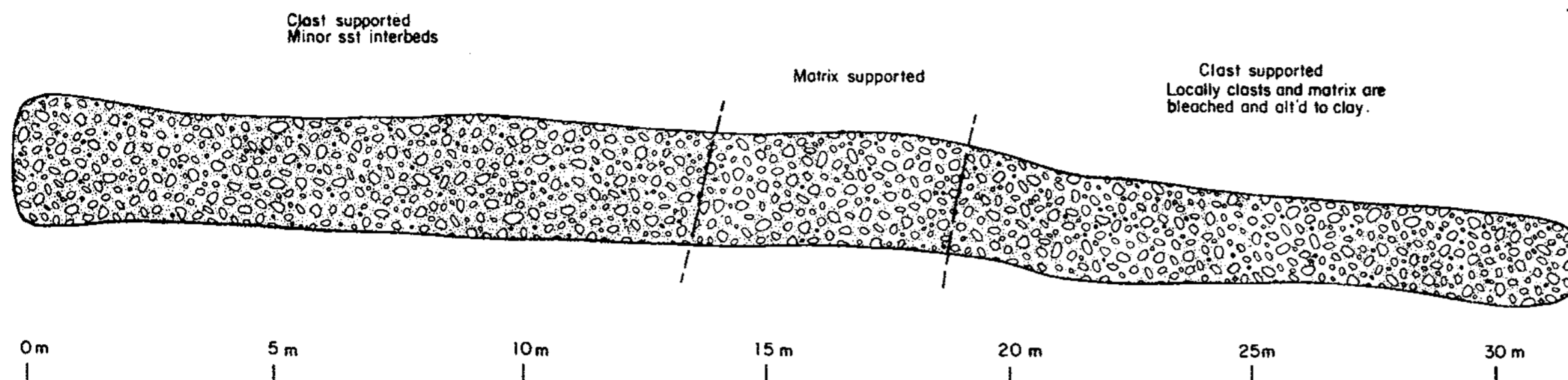
- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K spgr), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | ABBREVIATIONS |
|---|----------------------|
| Narrow fault zone | py pyrite |
| Geological contact; defined, gradational. | chl chloritic |
| Strike / dip of bedding | qtz quartz |
| Strike / dip of fault or fractures. | seric sericitization |
| Strike / dip of veining | diss disseminated |
| Channel sample location. | alt'd altered |
| Grab sample location. | silic silicified |
| Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

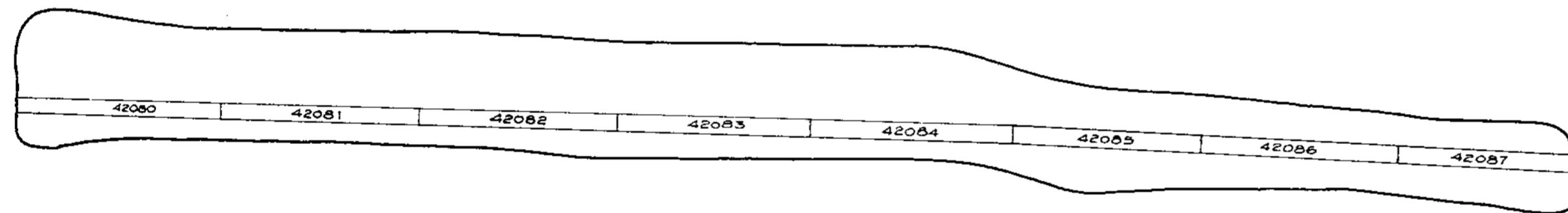
Scale 1:100
0 1 2 3 4 5 6 mtr.

QPX MINERALS INC.					
PDL PROPERTY, OSOYOOS M.D., B.C.					
TR-88-007					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
	Originator	Drawn	Date	PLAN NO.	FIGURE 13
Original	L.J.L.	C.D.	Oct '88	1388	
Revision				N.T.S.	
Revision				82 E / 5W	
— MINEQUEST EXPLORATION ASSOCIATES LTD. —					



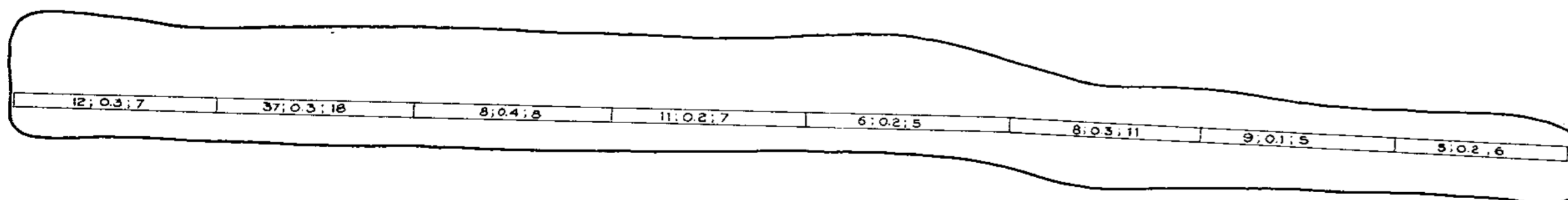
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

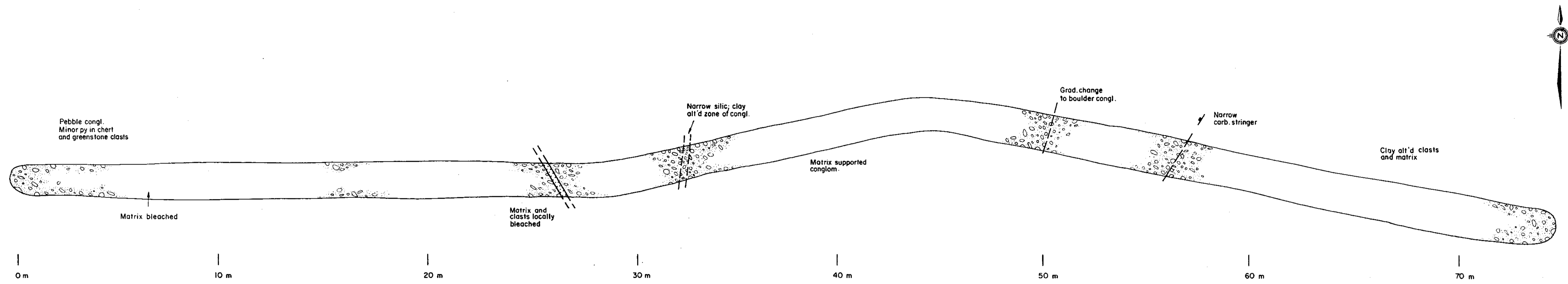
- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag >> K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS |
|---------|---|---------------------|
| | Narrow fault zone | py pyrite |
| | Geological contact; defined, gradational. | chl chloritic |
| | Strike / dip of bedding | qtz quartz |
| | Strike / dip of fault or fractures. | senc sericitization |
| | Strike / dip of veining | diss disseminated |
| | Channel sample location. | alt'd altered |
| | Grab sample location. | silic silicified |
| | Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

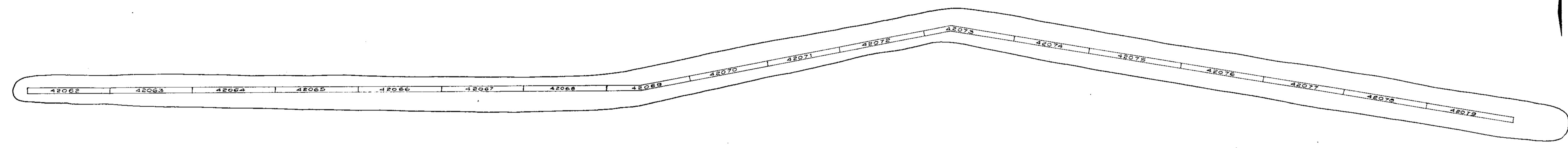
Scale 1:100
0 3 4 5 6 mtr.

QPX MINERALS INC.					
PDL PROPERTY, OSOYOOS M.D., B.C.					
TR-88-008					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
	Originator	Drawn	Date	PLAN NO.	FIGURE 14
Original	L.J.L.	C.D.	Oct '88	1389	
Revision				N.T.S.	
Revision				82E/5W	
— MINEQUEST EXPLORATION ASSOCIATES LTD. —					



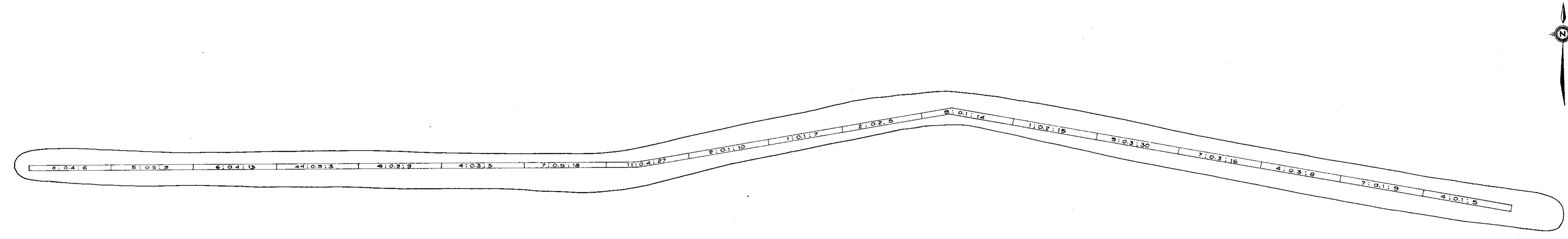
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE
Fault gouge composed of buff-beige colored (locally blue) clay gouge, contains rare boulders of older rocks and local sections of granular quartz pebbles
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - MARRON FORMATION**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones, minor intrusive and myolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS | |
|---------|--|---------------|----------------|
| | Narrow fault zone | py | pyrite |
| | Geological contact, defined, gradational | chl | chloritic |
| | Strike / dip of bedding | qtz | quartz |
| | Strike / dip of fault or fractures | seric | sericitization |
| | Strike / dip of veining | dis | disseminated |
| | Channel sample location | alt'd | altered |
| | Grab sample location | silic | silicified |
| | Brecciated | | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

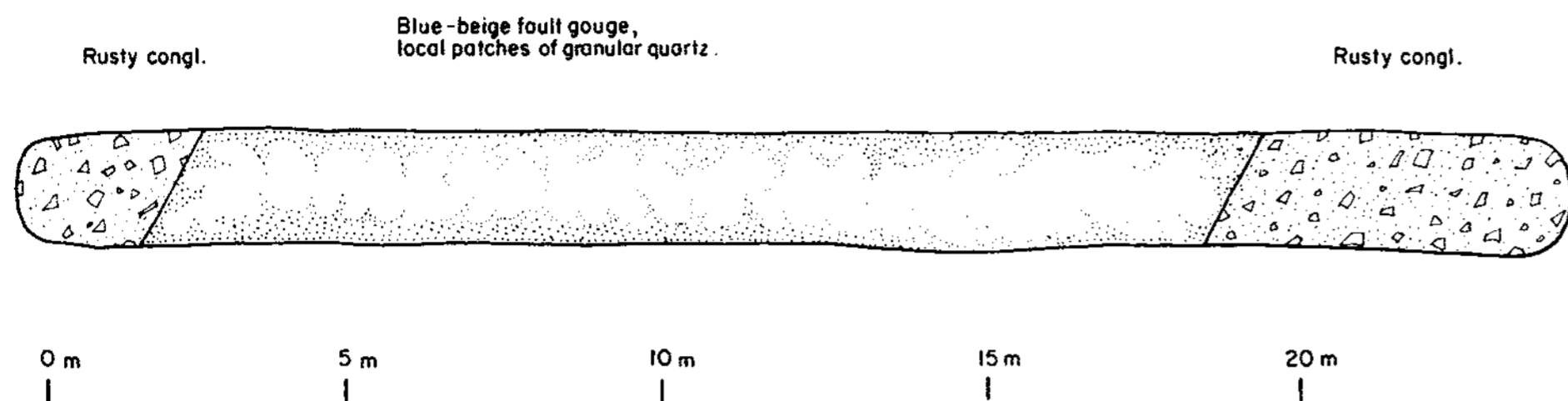
13,284 Scale: 1:100
0 2 4 5 6mtr.

QPX MINERALS INC.
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-009
GEOLOGY, SAMPLE LOCATIONS
and RESULTS

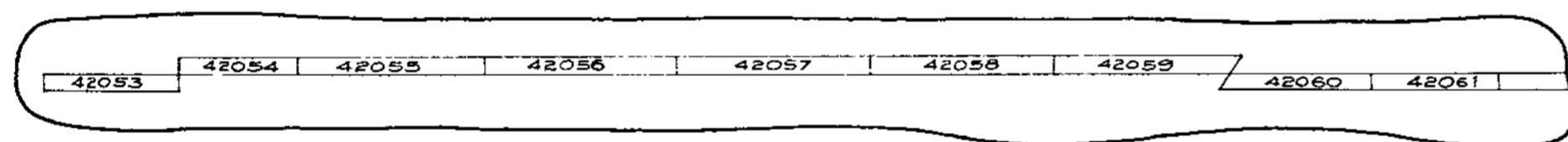
Originator	Drawn	Date	PLAN 1390	FIG. 15
Originator	L.J.L.	C.D.	Nov. 1988	
Revision			N.T.S.	
Revision			82E/SW	

MINEQUEST EXPLORATION ASSOCIATES LTD.



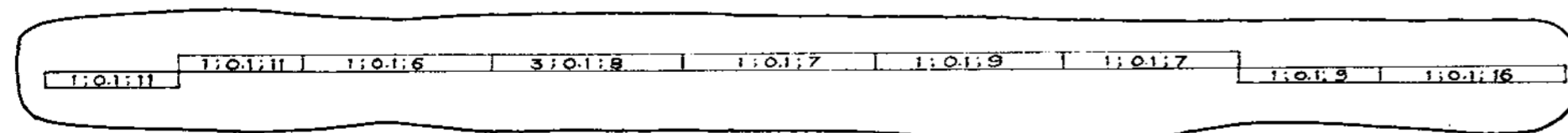
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW



Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
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 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
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Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
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 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | ABBREVIATIONS |
|---|----------------------|
| Narrow fault zone | py pyrite |
| Geological contact; defined, gradational. | chl chloritic |
| Strike / dip of bedding | qtz quartz |
| Strike / dip of fault or fractures. | seric sericitization |
| Strike / dip of veining | diss disseminated |
| Channel sample location. | alt'd altered |
| Grab sample location. | silic silicified |
| Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

Scale 1:100
1 2 3 4 5 6 mtr.

QPX MINERALS INC.

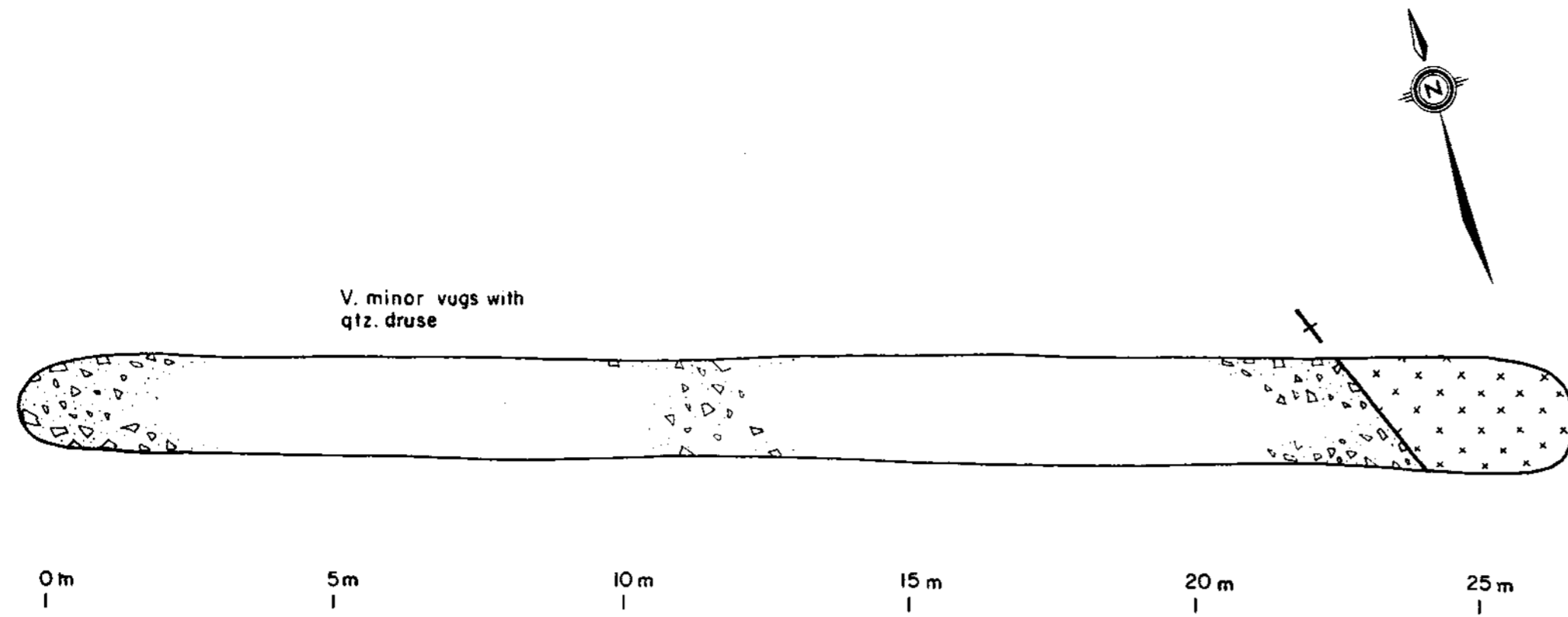
PDL PROPERTY, OSOY00S M.D., B.C.

TR-88-010

GEOLOGY, SAMPLE LOCATIONS and RESULTS

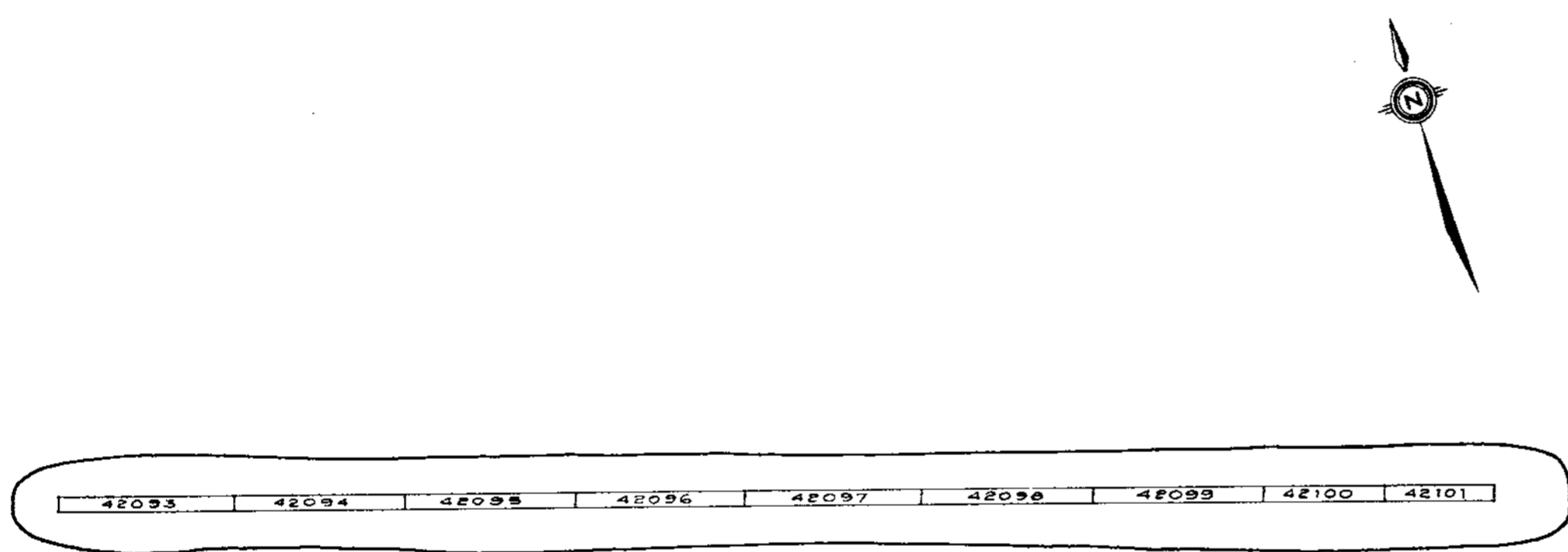
Original	Originator	Drawn	Date	PLAN NO. 1391	FIGURE 16
Revision	L.J.L.	C.D.	Oct. 88		
Revision				N.T.S.	
				82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



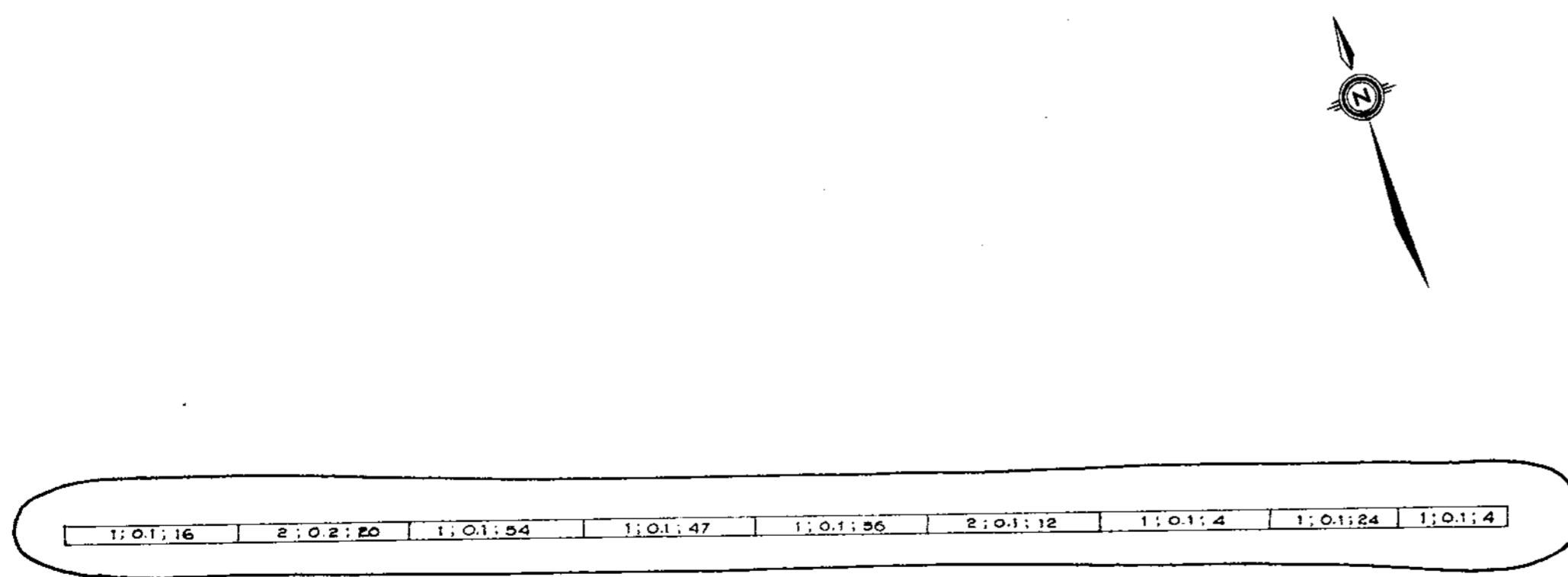
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

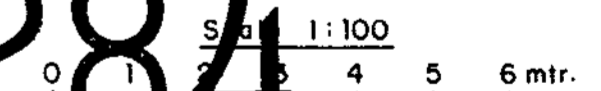
PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag.), K-spar, 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
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 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonotitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is buffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
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 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | ABBREVIATIONS |
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| Narrow fault zone | py pyrite |
| Geological contact; defined, gradational. | chl chloritic |
| Strike / dip of bedding | qtz quartz |
| Strike / dip of fault or fractures. | seric sericitization |
| Strike / dip of veining | diss disseminated |
| Channel sample location. | alt'd altered |
| Grab sample location. | silic silicified |
| Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284



QPX MINERALS INC.

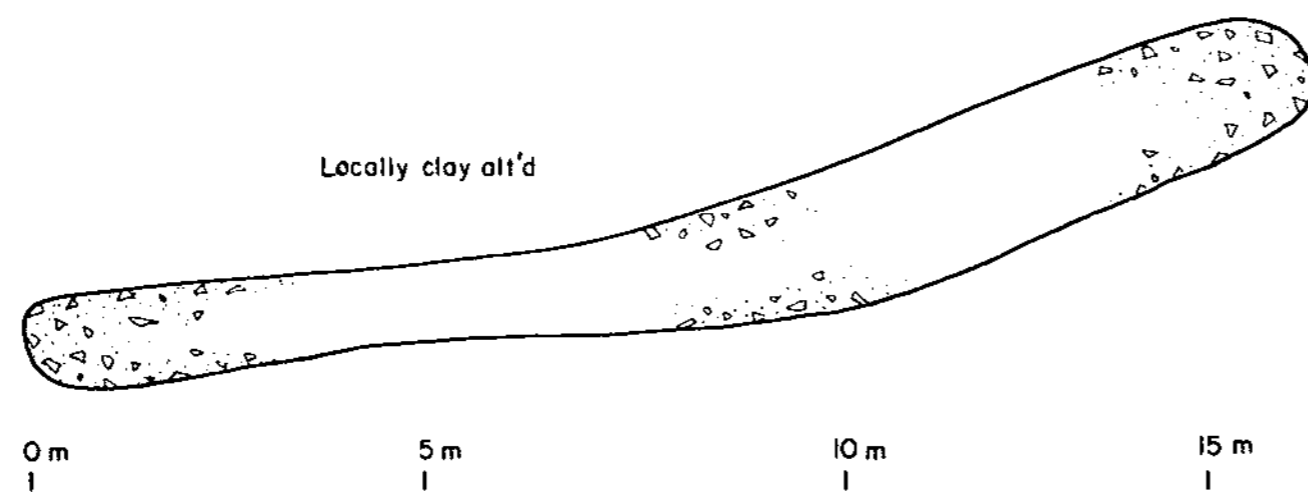
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-11

GEOLOGY, SAMPLE LOCATIONS and RESULTS

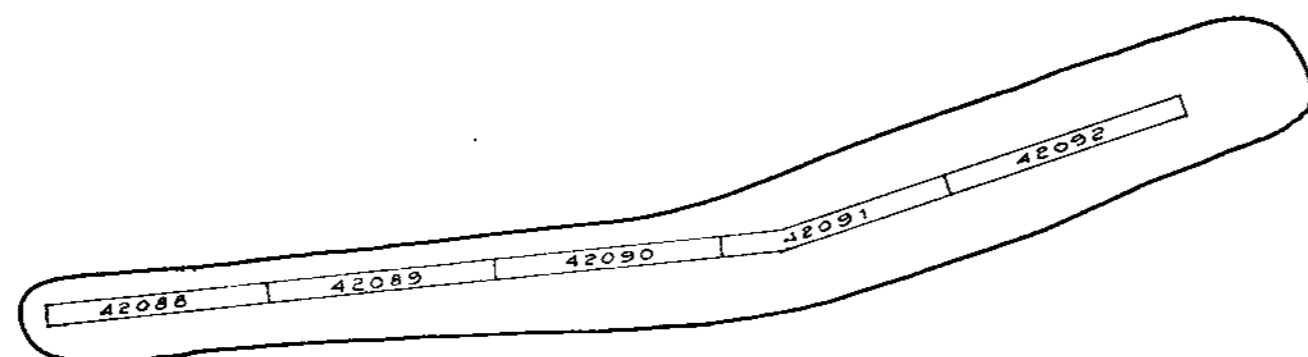
Original	Originator	Drawn	Date	PLAN NO.	FIGURE 17
Revision	L.J.L.	C.D.	Oct. '88	1392	
Revision				N.T.S. 82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



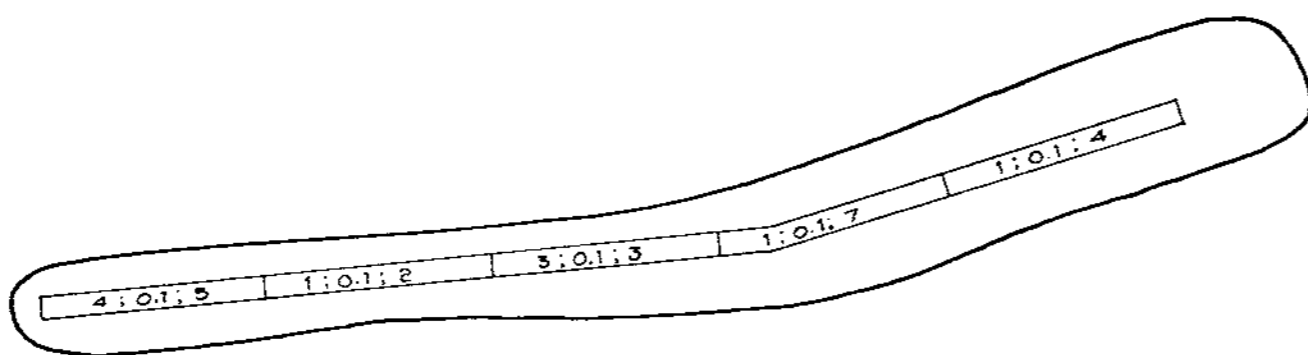
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

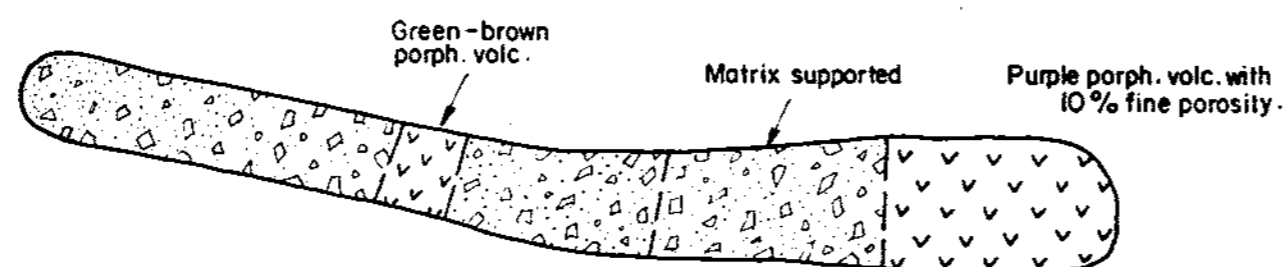
- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag >> K-spar), 20-30% quartz, and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - MARRON FORMATION**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
 - TRIASSIC or OLDER**
 - Brecciated
- | SYMBOLS | | ABBREVIATIONS | |
|---------|--|---------------|----------------|
| | Narrow fault zone | py | pyrite |
| | Geological contact; defined, gradational | chl | chloritic |
| | Strike / dip of bedding | qtz | quartz |
| | Strike / dip of fault or fractures. | serc | sericitization |
| | Strike / dip of veining | diss | disseminated |
| | Channel sample location | alt'd | altered |
| | Grab sample location | silic | silicified |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

Scale 1:100
2 3 4 5 6 mtr.

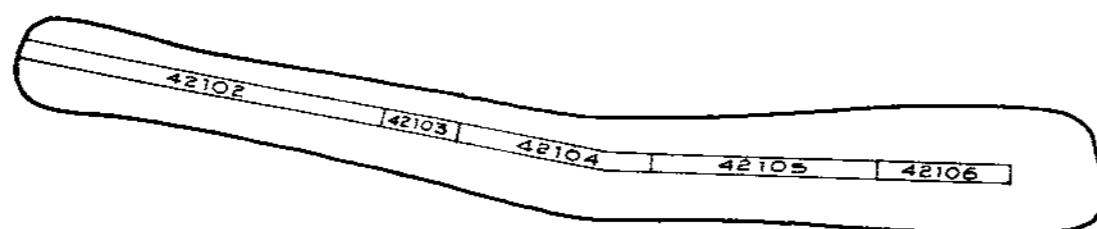
QPX MINERALS INC.				
PDL PROPERTY, OSOYOOS M.D., B.C.				
TR-88-012				
GEOLOGY, SAMPLE LOCATIONS and RESULTS				
	Originator	Drawn	Date	PLAN NO.
Original	L.J.L.	C.D.	Oct. '88	1393
Revision				N.T.S.
Revision				82E/5W
				FIGURE 18
MINEQUEST EXPLORATION ASSOCIATES LTD.				



0 m | 5 m | 10 m

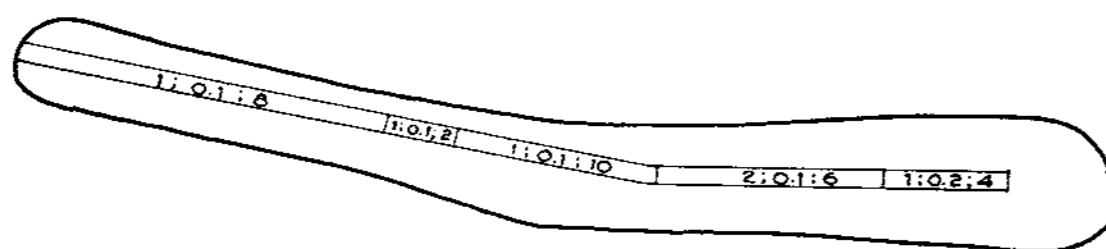
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE
Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag) K-spar, 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - MARRON FORMATION**
 - EOCENE
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures.
 - Strike / dip of veining
 - Channel sample location.
 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - senc sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

Scale 1:100
0 1 2 3 4 5 6 mtr.

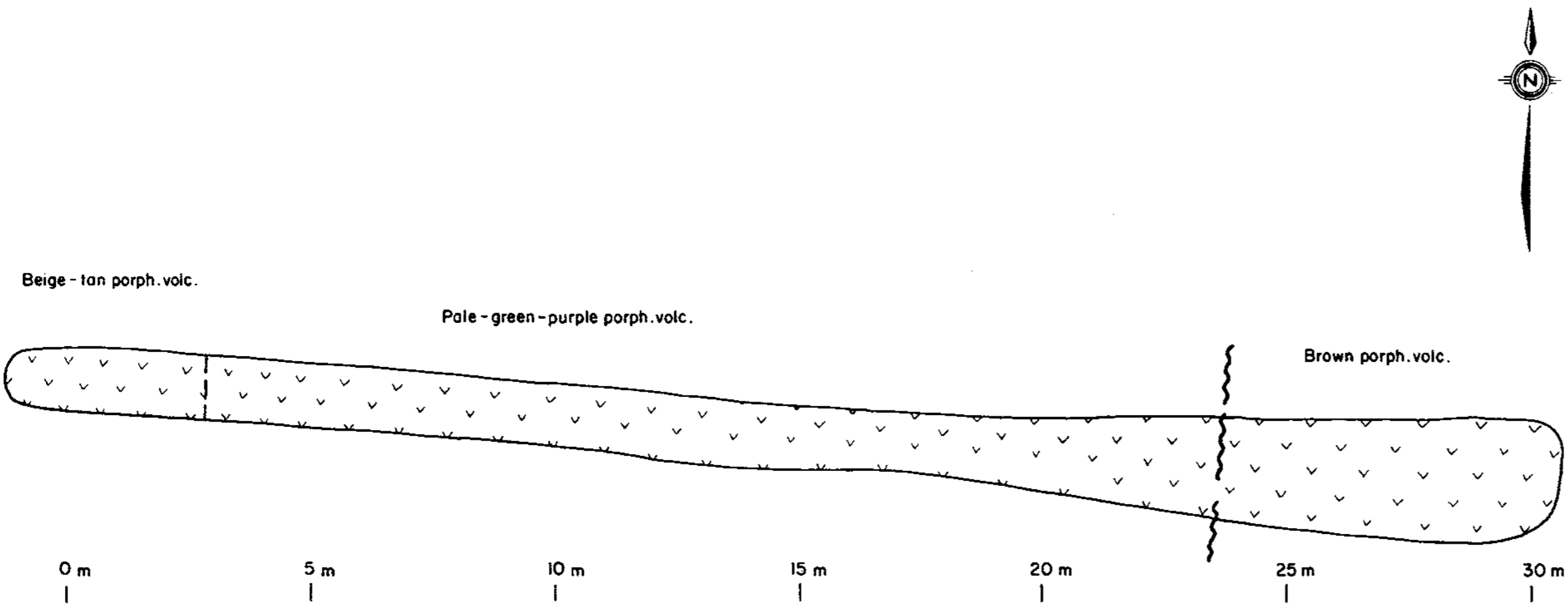
QPX MINERALS INC.

PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-013
GEOLOGY, SAMPLE LOCATIONS
and RESULTS

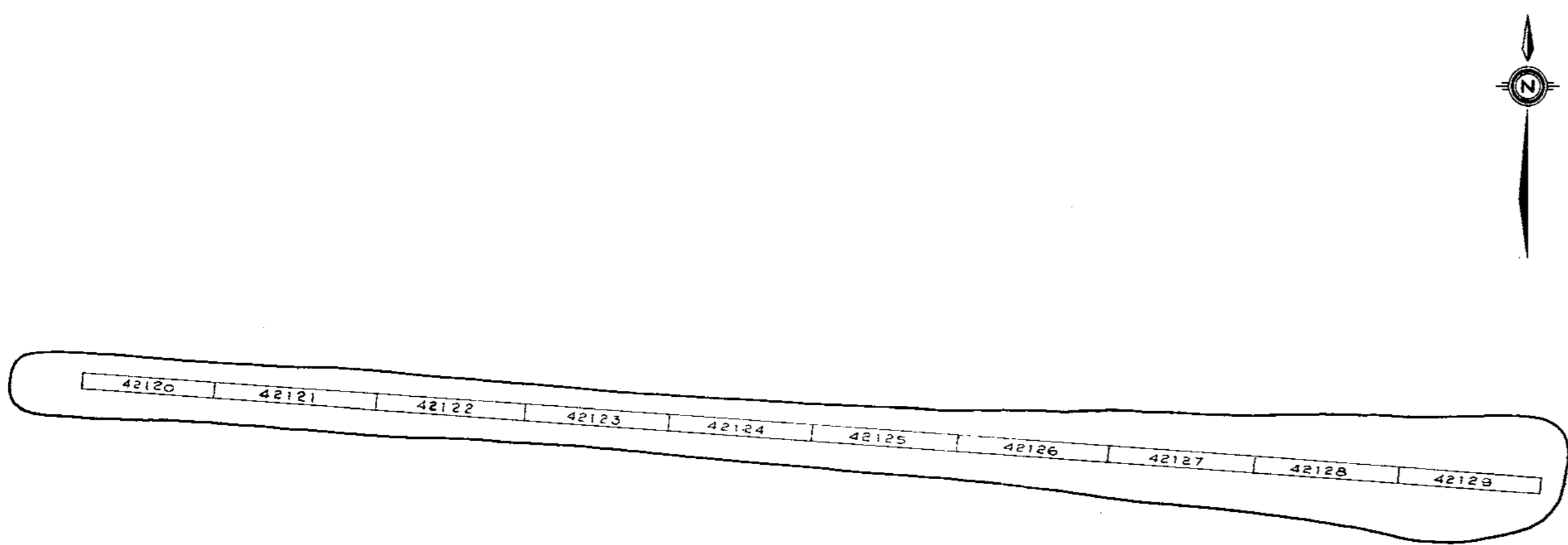
Originator	Drawn	Date	PLAN NO.	FIGURE 19
Original	L.J.L.	C.D.	1394	
Revision			N.T.S.	
Revision			82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



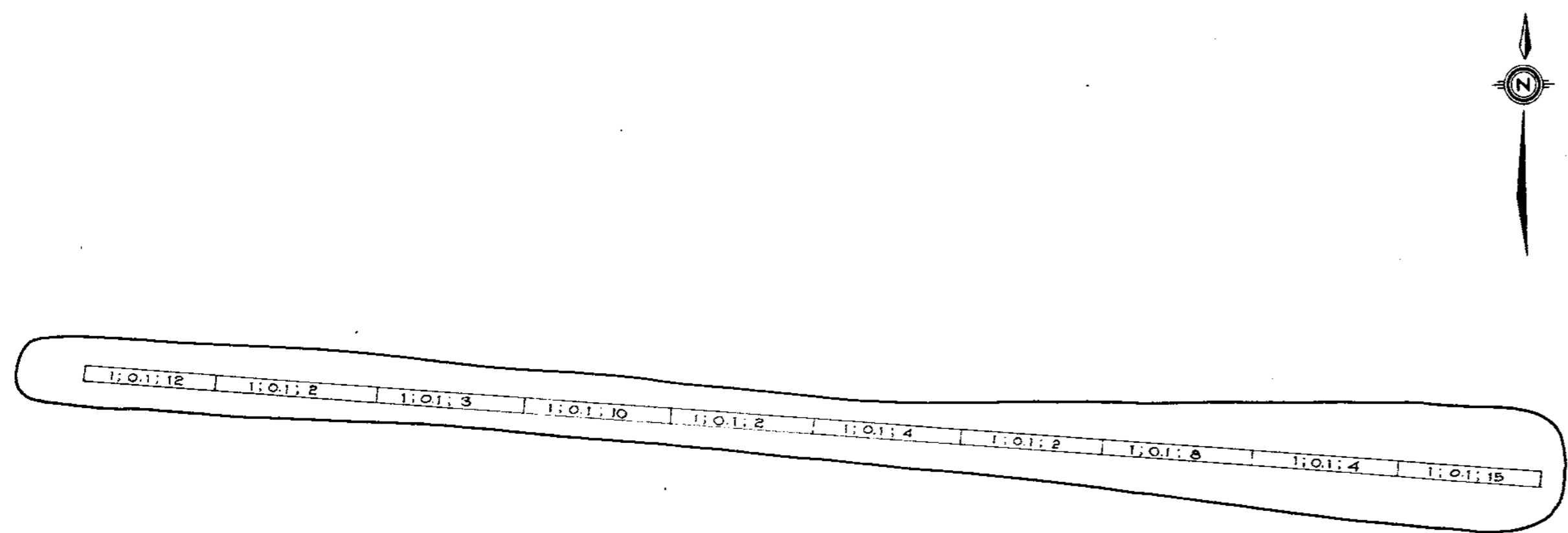
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag >> K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly or strongly brecciated.
 - TRIASSIC or OLDER**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly or strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures
 - Strike / dip of veining
 - Channel sample location.
 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284 Scale 1:100 0 3 4 5 6 mtr.

QPX MINERALS INC.

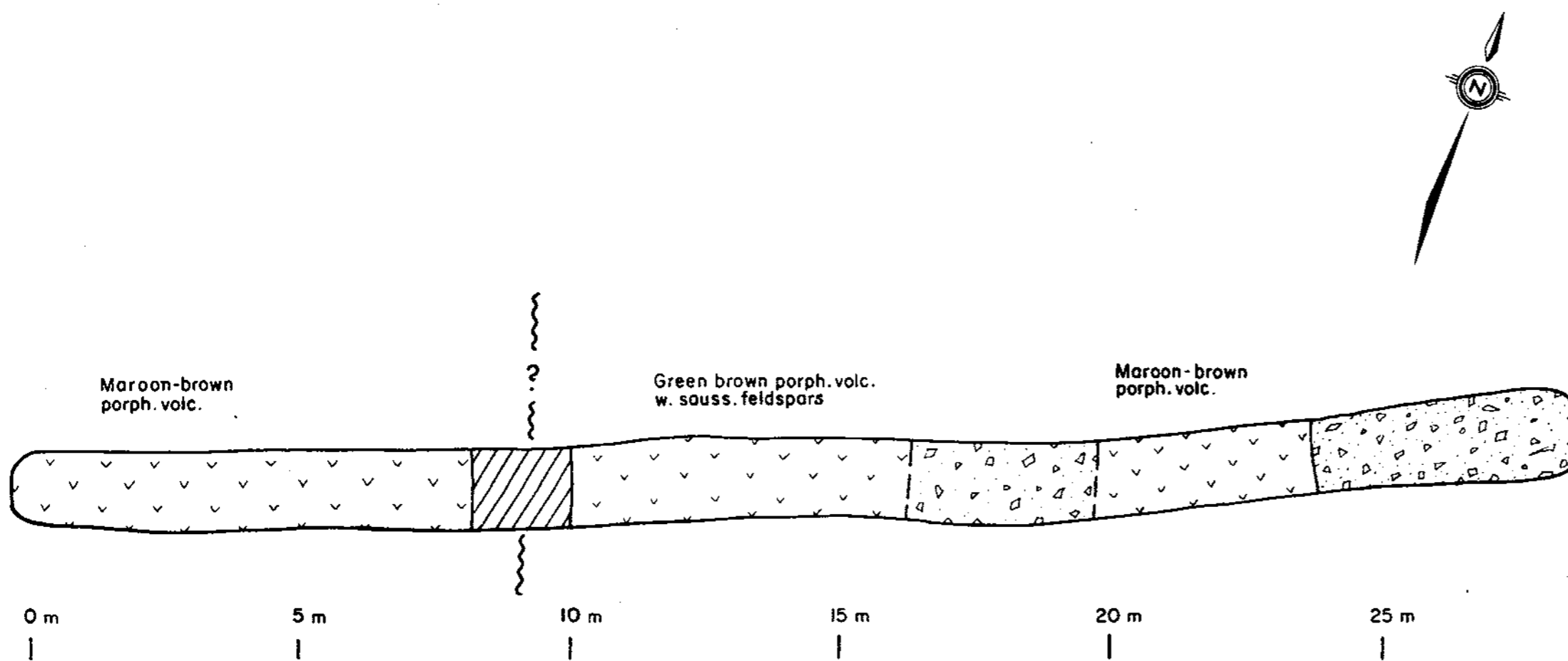
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-014

GEOLOGY, SAMPLE LOCATIONS and RESULTS

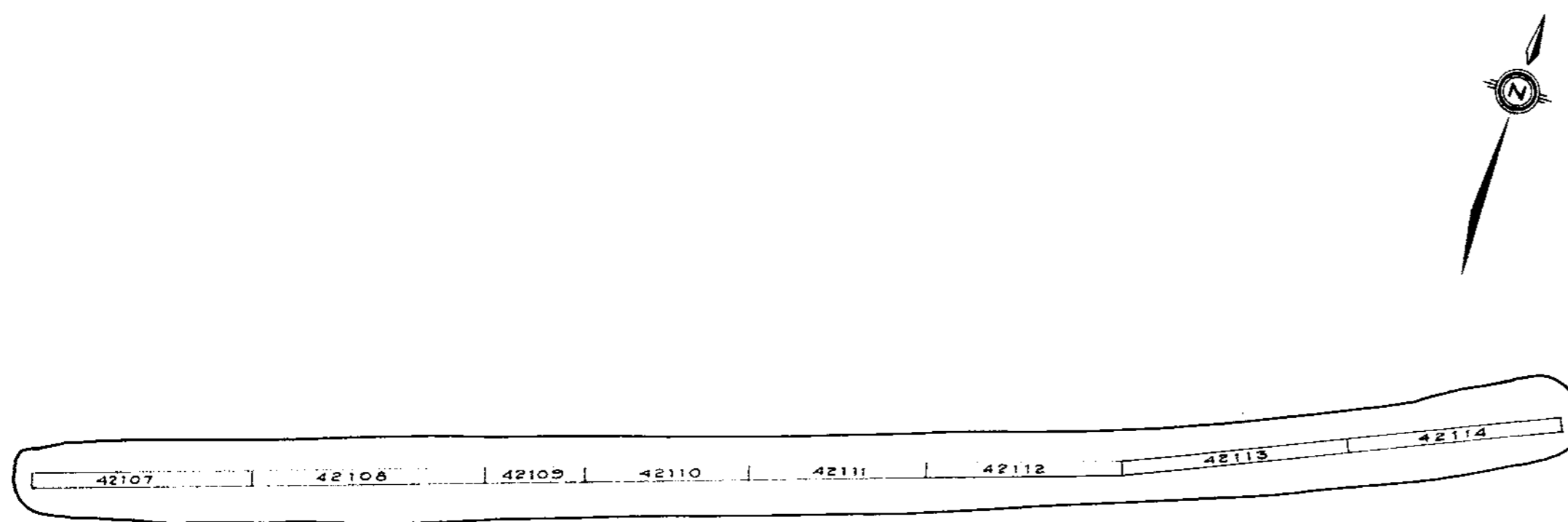
	Originator	Drawn	Date	PLAN NO.	FIGURE
Original	L.J.L.	C.D.	Oct. '88	1395	20
Revision				N.T.S.	
Revision				82E/SW	

MINEQUEST EXPLORATION ASSOCIATES LTD.



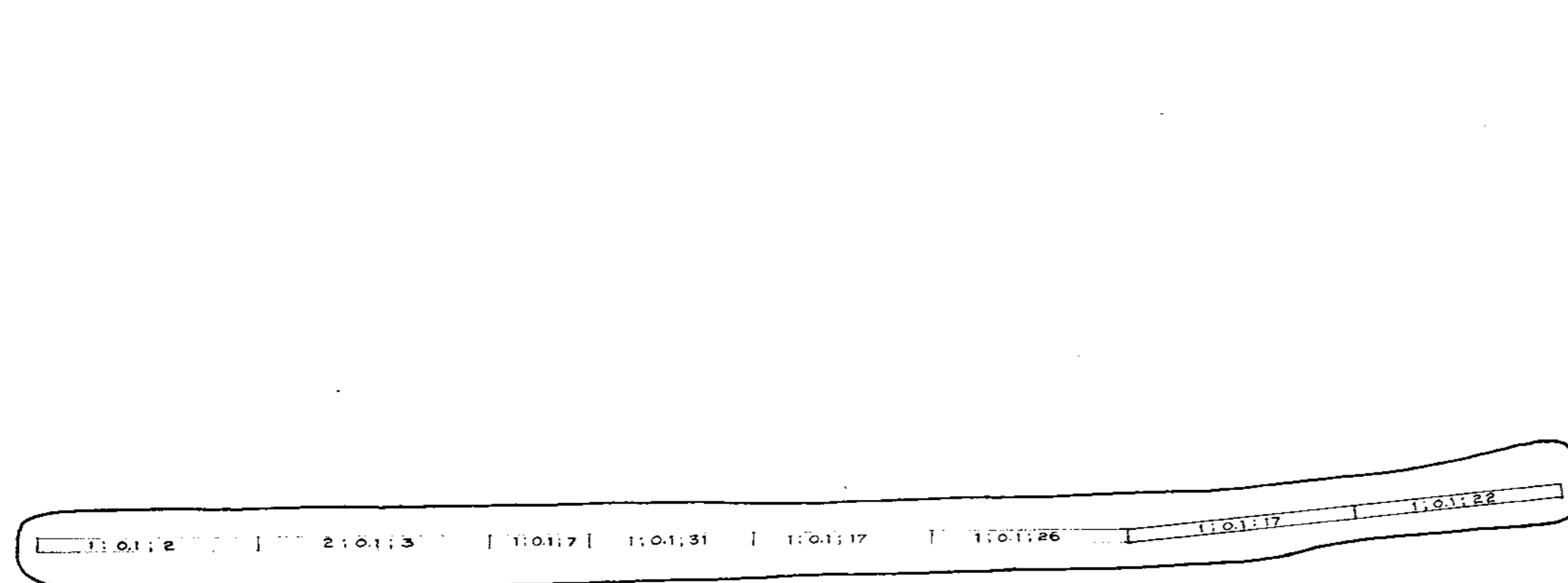
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

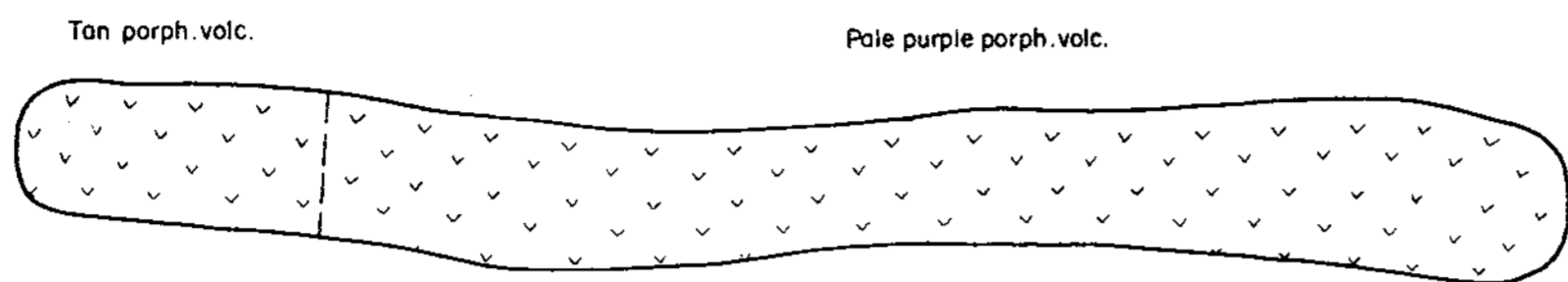
- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS |
|---------|---|---------------------|
| | Narrow fault zone | py pyrite |
| | Geological contact; defined, gradational. | chl chloritic |
| | Strike / dip of bedding | qtz quartz |
| | Strike / dip of fault or fractures | serc sericitization |
| | Strike / dip of veining | diss disseminated |
| | Channel sample location. | alt'd altered |
| | Grab sample location. | silic silicified |
| | Brecciated | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

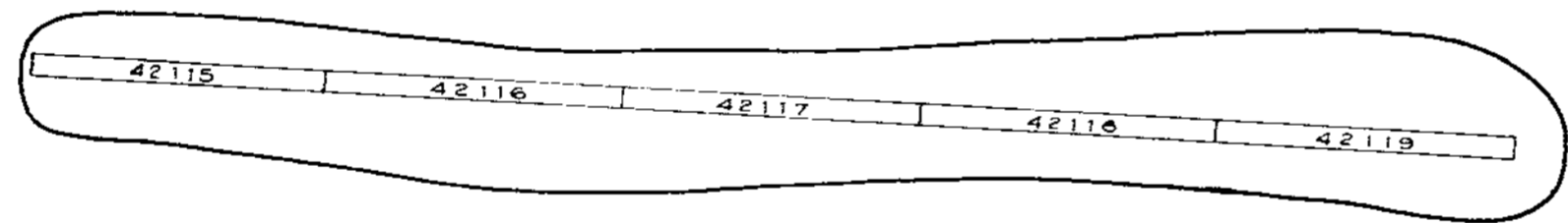
Scale 1:100
3 4 5 6 mtr.

QPX MINERALS INC.				
PDL PROPERTY, OSOYOOS M.D., B.C.				
TR-88-015				
GEOLOGY, SAMPLE LOCATIONS and RESULTS				
	Originator	Drawn	Date	PLAN NO. 1396
Original	L.J.L.	C.D.	Oct.'88	FIGURE 21
Revision				
Revision				
				82E/5W
MINEQUEST EXPLORATION ASSOCIATES LTD.				



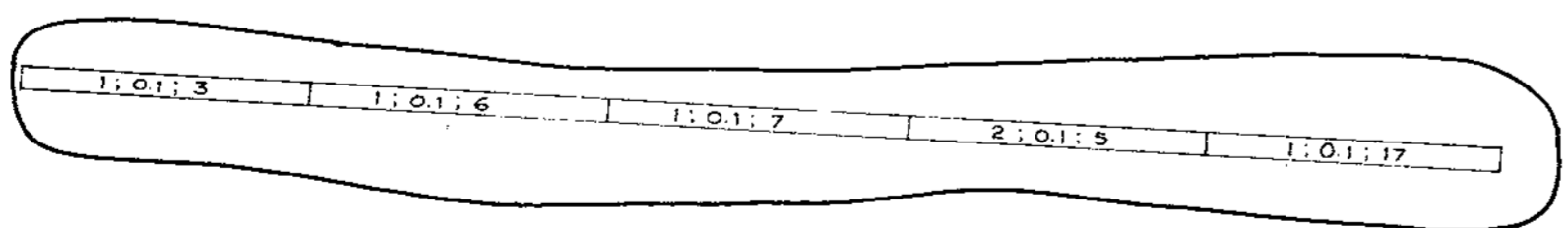
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW



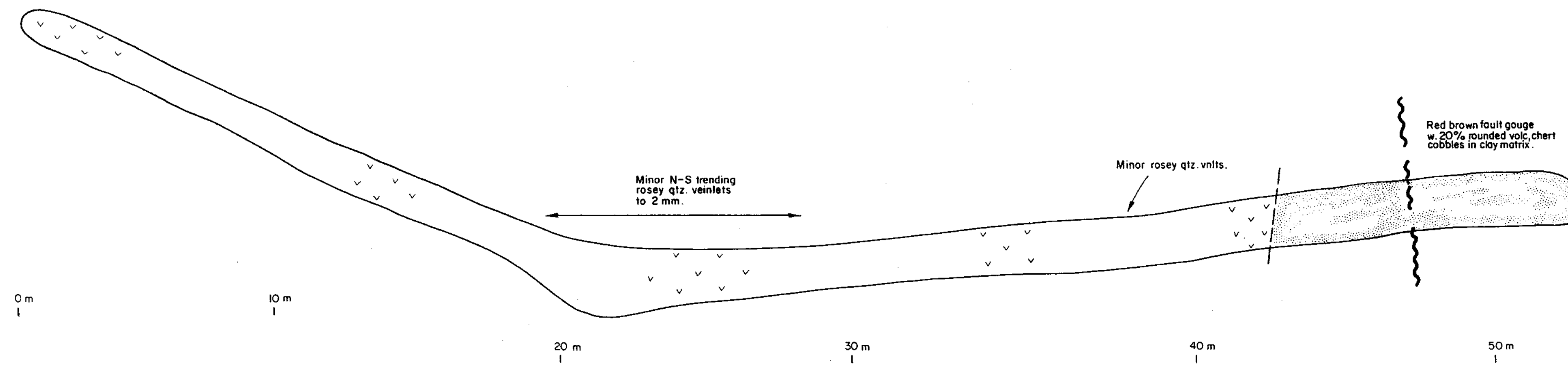
Legend

- Overburden
 - TERTIARY POST - EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag >> K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - TRIASSIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | | | | | | | | | | | | | | | | |
|--|--|----|--------|-----|-----------|-----|--------|-------|----------------|------|--------------|-------|---------|-------|------------|
| <p>SYMBOLS</p> <ul style="list-style-type: none"> Narrow fault zone Geological contact; defined, gradational Strike / dip of bedding Strike / dip of fault or fractures Strike / dip of veining Channel sample location Grab sample location Brecciated | <p>ABBREVIATIONS</p> <table border="0"> <tr><td>py</td><td>pyrite</td></tr> <tr><td>chl</td><td>chloritic</td></tr> <tr><td>qtz</td><td>quartz</td></tr> <tr><td>seric</td><td>sericitization</td></tr> <tr><td>diss</td><td>disseminated</td></tr> <tr><td>alt'd</td><td>altered</td></tr> <tr><td>sitic</td><td>silicified</td></tr> </table> | py | pyrite | chl | chloritic | qtz | quartz | seric | sericitization | diss | disseminated | alt'd | altered | sitic | silicified |
| py | pyrite | | | | | | | | | | | | | | |
| chl | chloritic | | | | | | | | | | | | | | |
| qtz | quartz | | | | | | | | | | | | | | |
| seric | sericitization | | | | | | | | | | | | | | |
| diss | disseminated | | | | | | | | | | | | | | |
| alt'd | altered | | | | | | | | | | | | | | |
| sitic | silicified | | | | | | | | | | | | | | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

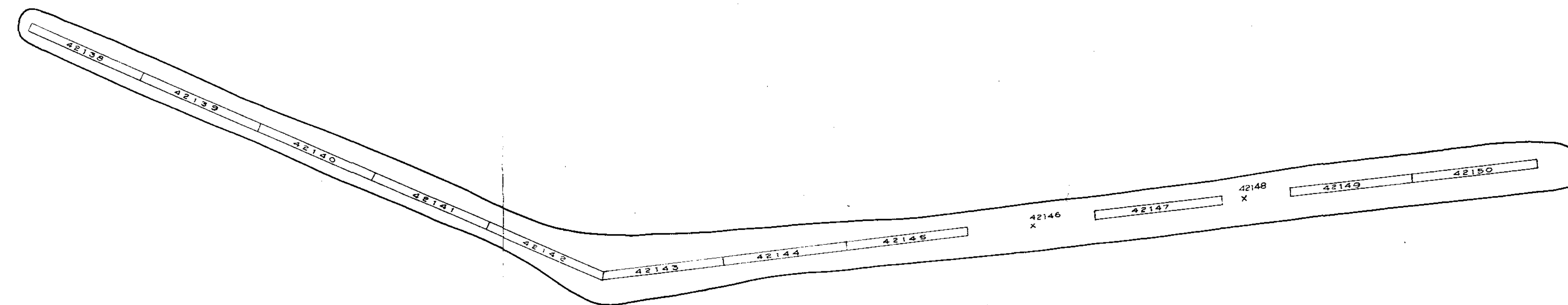
18,284 Scale 1:100 0 1 2 3 4 5 6 mtr.

QPX MINERALS INC.				
PDL PROPERTY, OSOYOOS M.D., B.C.				
TR-88-016				
GEOLOGY, SAMPLE LOCATIONS and RESULTS				
	Originator	Drawn	Date	PLAN NO.
Original	L.J.L.	C.D.	Oct '88	1397
Revision				N.T.S.
Revision				82E/5W
				FIGURE 22
MINEQUEST EXPLORATION ASSOCIATES LTD.				



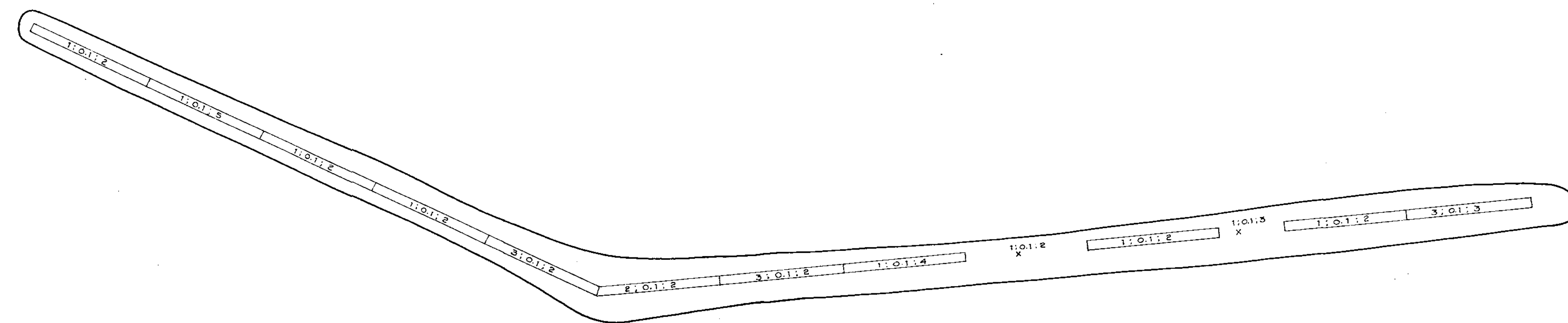
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

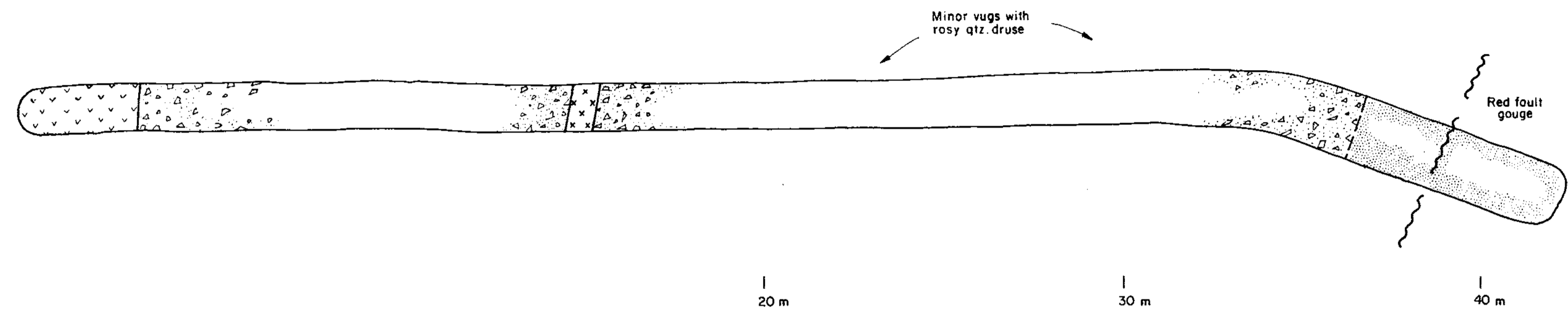
Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granitic quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag.) K-spar, 20-30% quartz and 5-15% micas (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - EOCENE**
 - MARRON FORMATION**
 - Porphyritic andesitic and phonolithic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones, minor intrusive and mafic clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
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 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
 - TRIASSIC or OLDER**
 - Brecciated
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational
 - Strike / dip of bedding
 - Strike / dip of fault or fractures
 - Strike / dip of veining
 - Channel sample location
 - Grab sample location
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

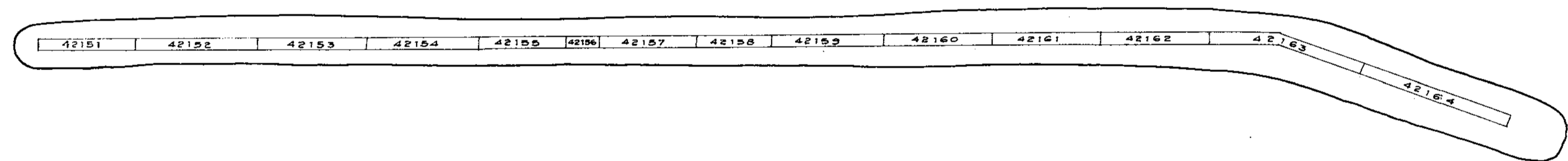
18,284 Scale 1:100
0 2 4 5 6mtr.

QPX MINERALS INC.				
PDL PROPERTY, OSOYOOS M.D., B.C.				
TR-88-017				
GEOLOGY, SAMPLE LOCATIONS and RESULTS				
Originator	Drawn	Date	PLAN	FIG.
L.J.L.	C.D.	Nov. 1988	1398	23
Revision			N.T.S.	
Revision			82E/SW	
MINEQUEST EXPLORATION ASSOCIATES LTD.				



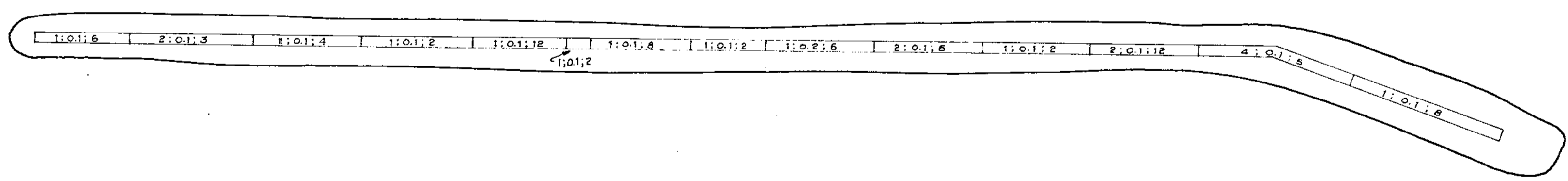
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
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 - MARRON FORMATION**
 - EOCENE**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or mason in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is turbidaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - TRIASSIC or OLDER**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- | SYMBOLS | | ABBREVIATIONS | |
|---------|--|---------------|----------------|
| | Narrow fault zone | py | pyrite |
| | Geological contact; defined, gradational | chl | chloritic |
| | Strike / dip of bedding | qtz | quartz |
| | Strike / dip of fault or fractures | seric | sericitization |
| | Strike / dip of veining | dis | disseminated |
| | Channel sample location | alt'd | altered |
| | Grab sample location | silic | silicified |
| | Brecciated | | |

GEOLOGICAL BRANCH ASSESSMENT REPORT

Scale 1:100

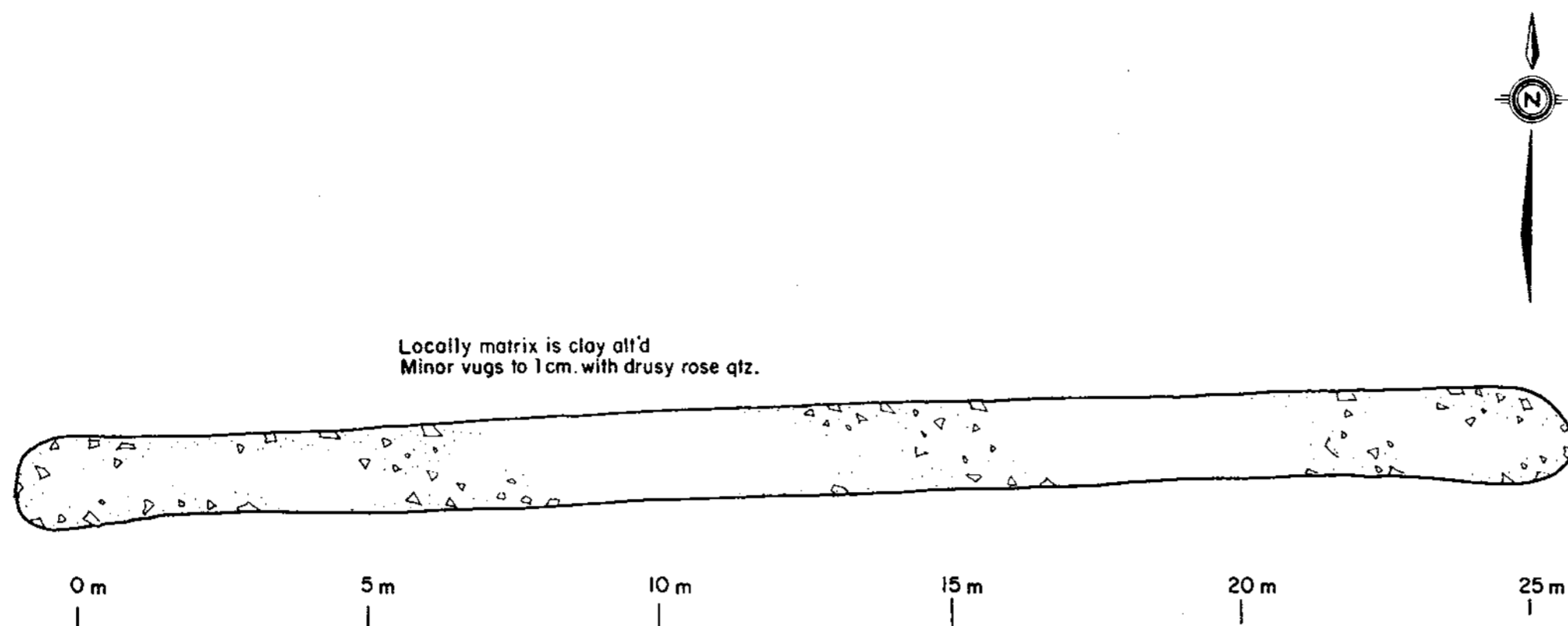
18,284

QPX MINERALS INC.
 PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-018
GEOLOGY, SAMPLE LOCATIONS
and RESULTS

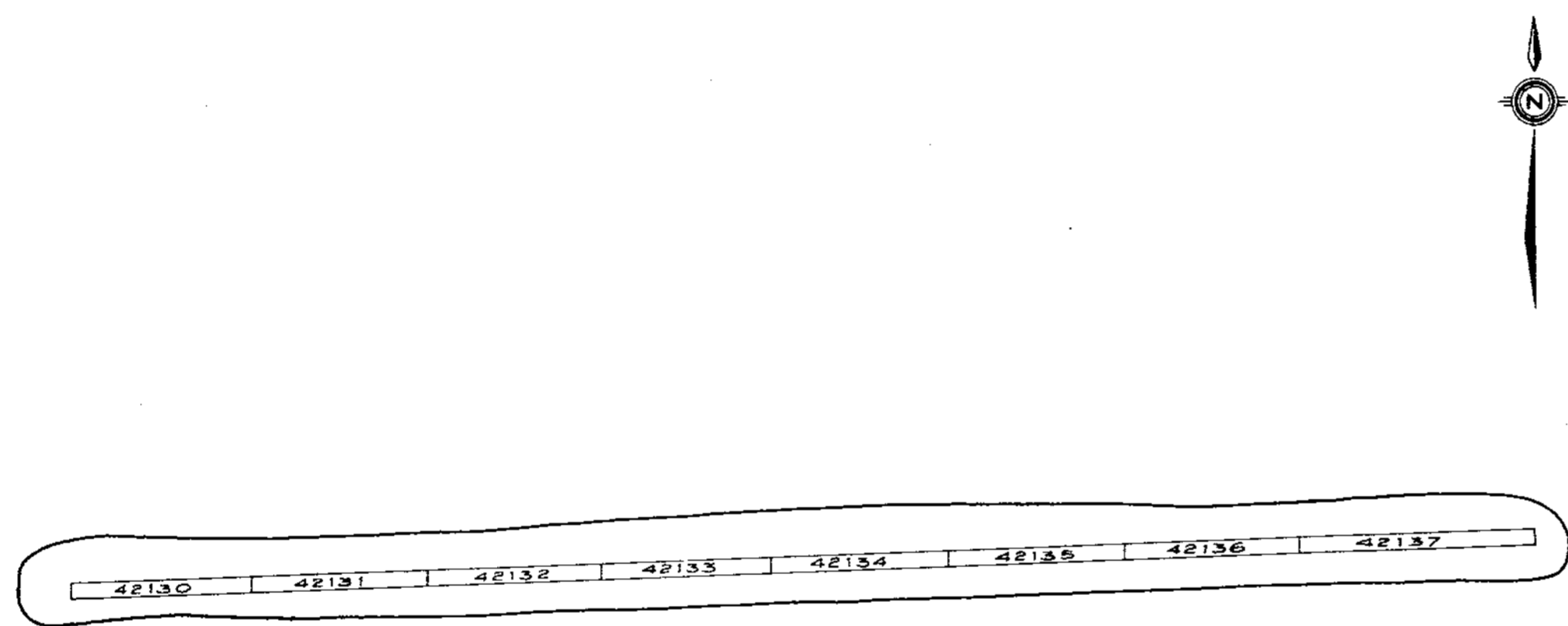
Originator	Drawn	Date	PLAN	FIG.
L.J.L.	C.D.	Nov. 1988	1399	24
Revision			N.T.S.	
			82E/SW	

—MINEQUEST EXPLORATION ASSOCIATES LTD.—



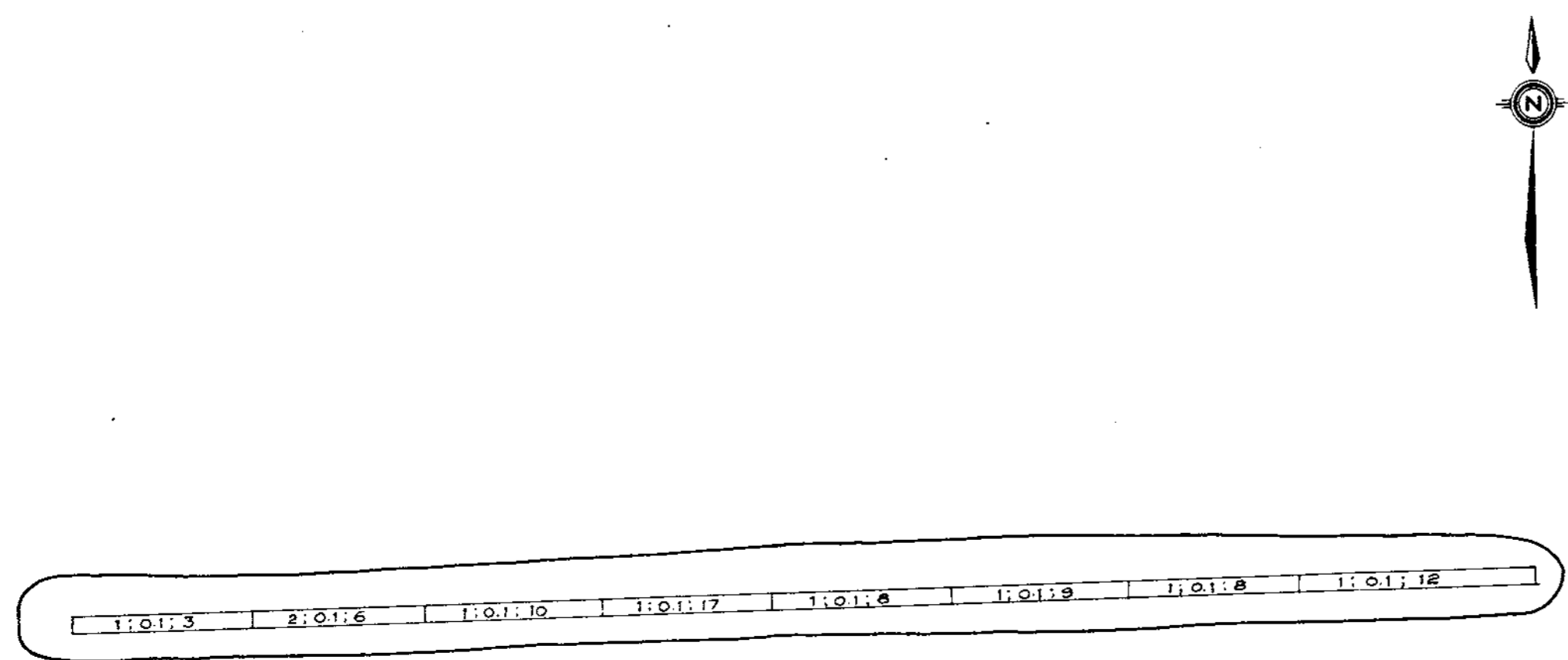
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden**
- TERTIARY POST-EOCENE**
- Overburden
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
- EOCENE**
- MARRON FORMATION**
- Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
- SPRINGBROOK FORMATION**
- Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
- SHOEMAKER FORMATION**
- TRIASSIC or OLDER**
- Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact; defined, gradational
 - Strike / dip of bedding
 - Strike / dip of fault or fractures
 - Strike / dip of veining
 - Channel sample location
 - Grab sample location
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,284 scale 1:100
3 4 5 6 mtr.

QPX MINERALS INC.

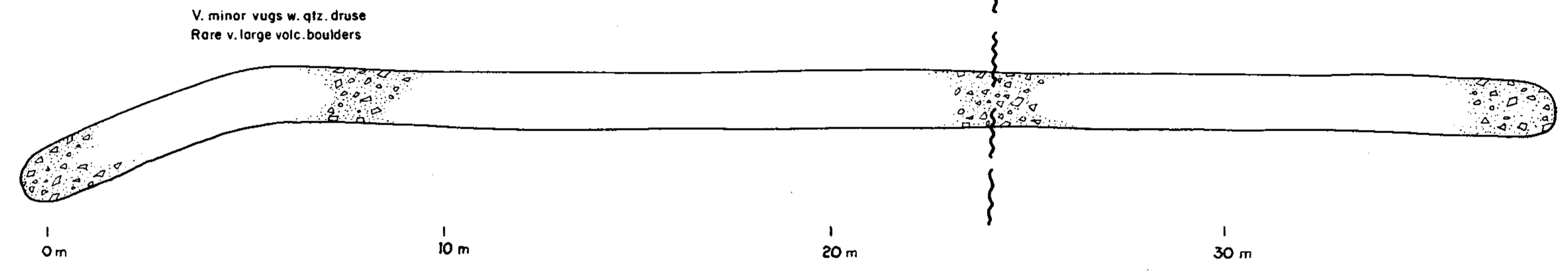
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-019

GEOLOGY, SAMPLE LOCATIONS
and RESULTS

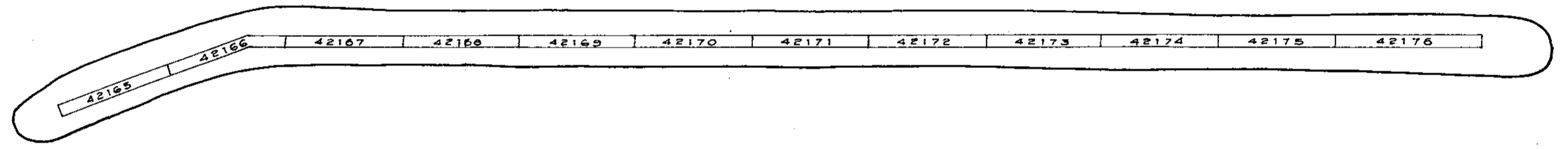
Original	Originator	Drawn	Date	PLAN NO.	FIGURE 25
Revision	L.J.L.	C.D.	Oct. '88	1400	
Revision				N.T.S. 82E/5W	

MINEQUEST EXPLORATION ASSOCIATES LTD.



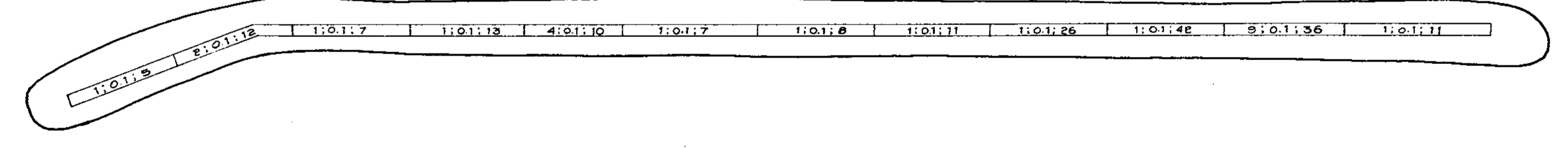
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag + K-spar), 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
 - Polymictic conglomerate of uncertain origin, possibly fault related. Composed of subround pebbles and rare boulders of Eocene volcanics, post-Triassic intrusive and Triassic or older cherts and greenstones. Clasts are hosted in a fine matrix with 5% rounded quartz pebbles, 2% euhedral biotite and rare pyroxene crystals.
 - MARRON FORMATION**
 - Porphyritic andesitic and phonaltic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones, minor intrusive and mylonite clasts in a fine grained sandy matrix. Locally matrix is lutaceous with 2% euhedral biotite.
 - Brown-grey sandstone. Occurs as narrow interbeds within the Springbrook conglomerate.
 - Crystal lithic tuff with 5% rounded pebbles of Shoemaker cherts and greenstones in a fine grained matrix with 1% pyroxene crystals.
 - SHOEMAKER FORMATION**
 - Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
- Narrow fault zone
 - Geological contact, defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures.
 - Strike / dip of veining
 - Channel sample location.
 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - senc sericitization
 - dis disseminated
 - alt altered
 - silic silicified

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,284

Scale 1:100
0 1 2 3 4 5 6mtr.

QPX MINERALS INC.

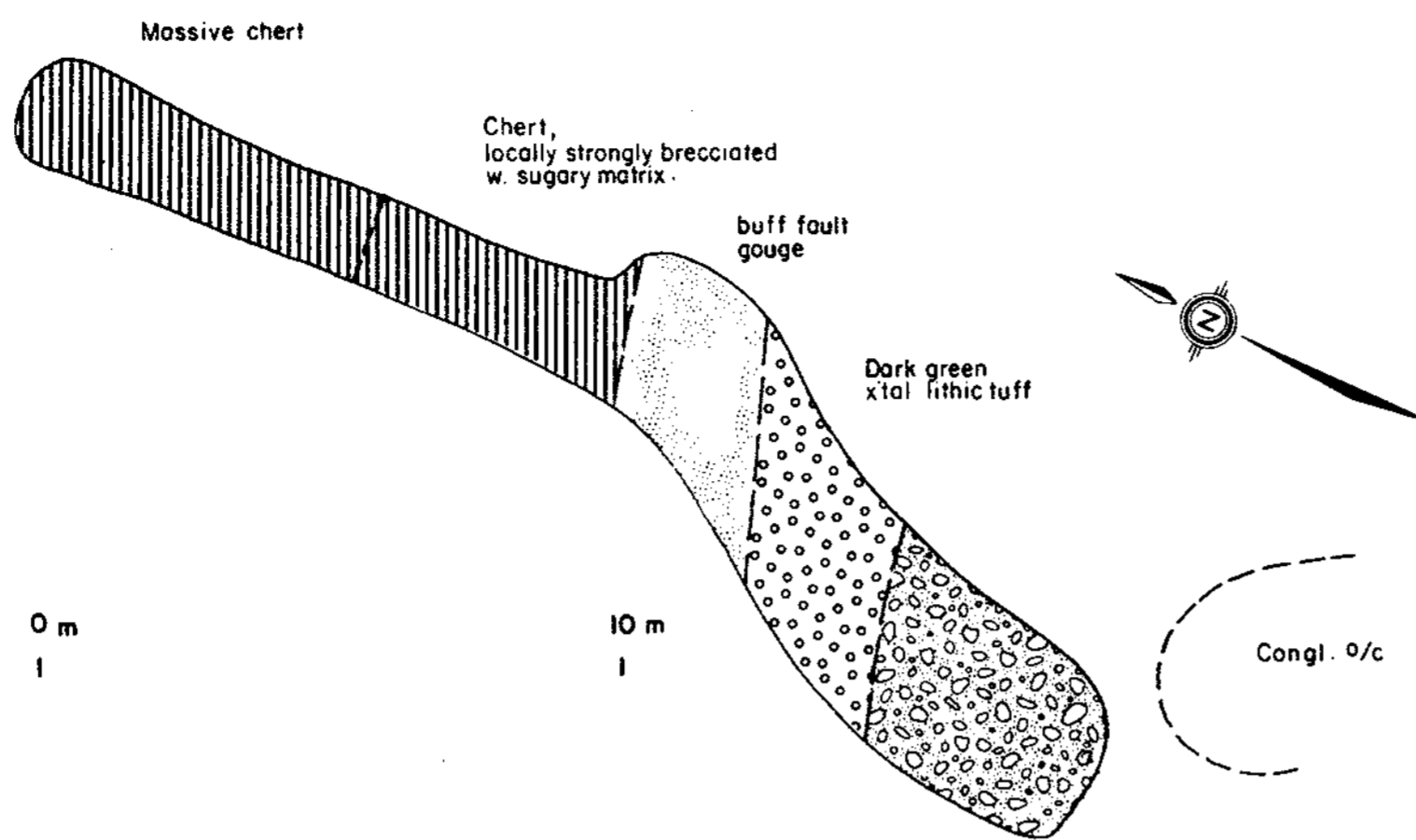
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-020

GEOLOGY, SAMPLE LOCATIONS and RESULTS

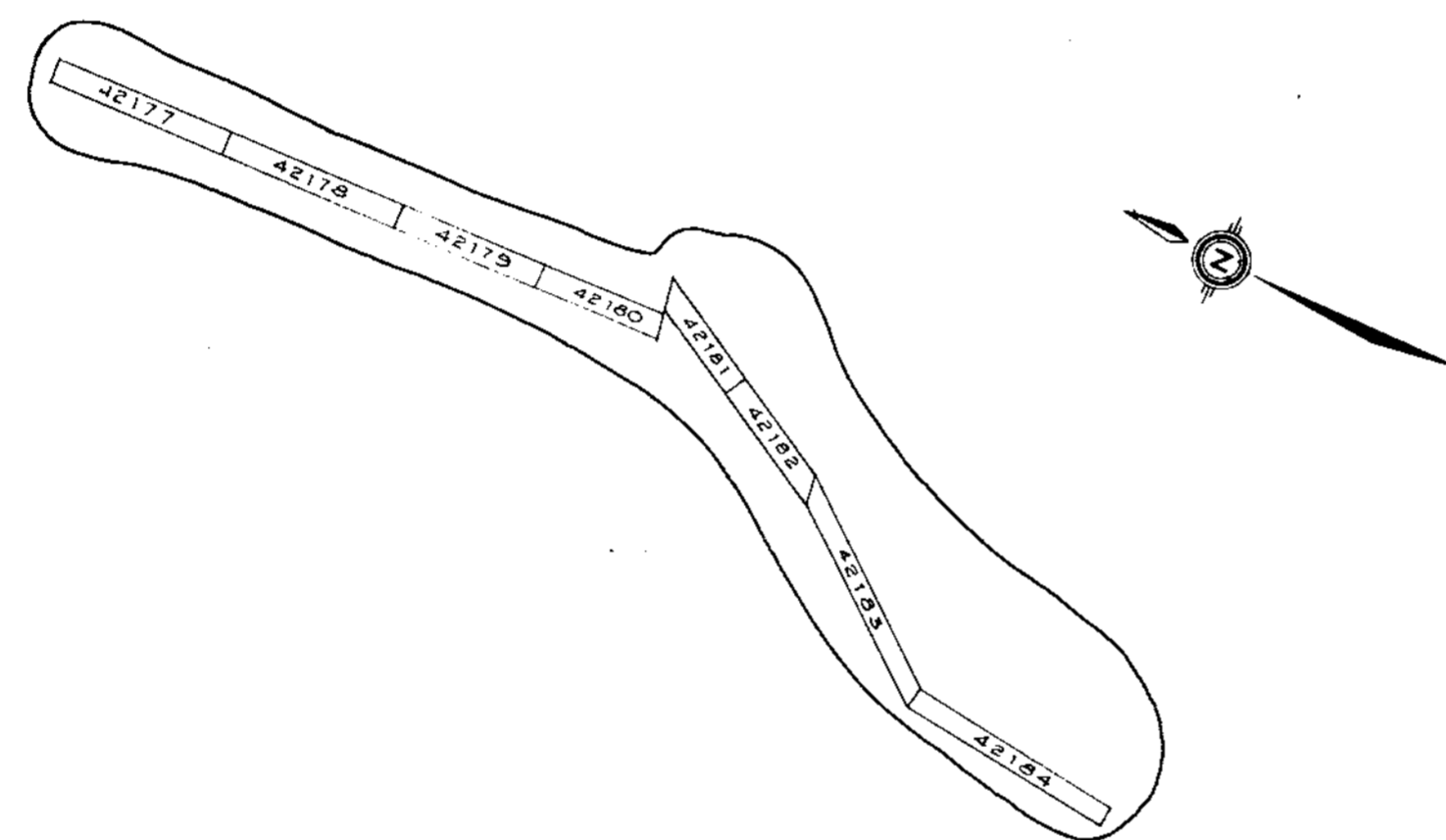
Originator	Drawn	Date	PLAN	FIG.
Originator	L.J.L.	C.D.	Nov. 1988	1401
Revision			N.T.S.	26
Revision			82E/SW	

MINEQUEST EXPLORATION ASSOCIATES LTD.



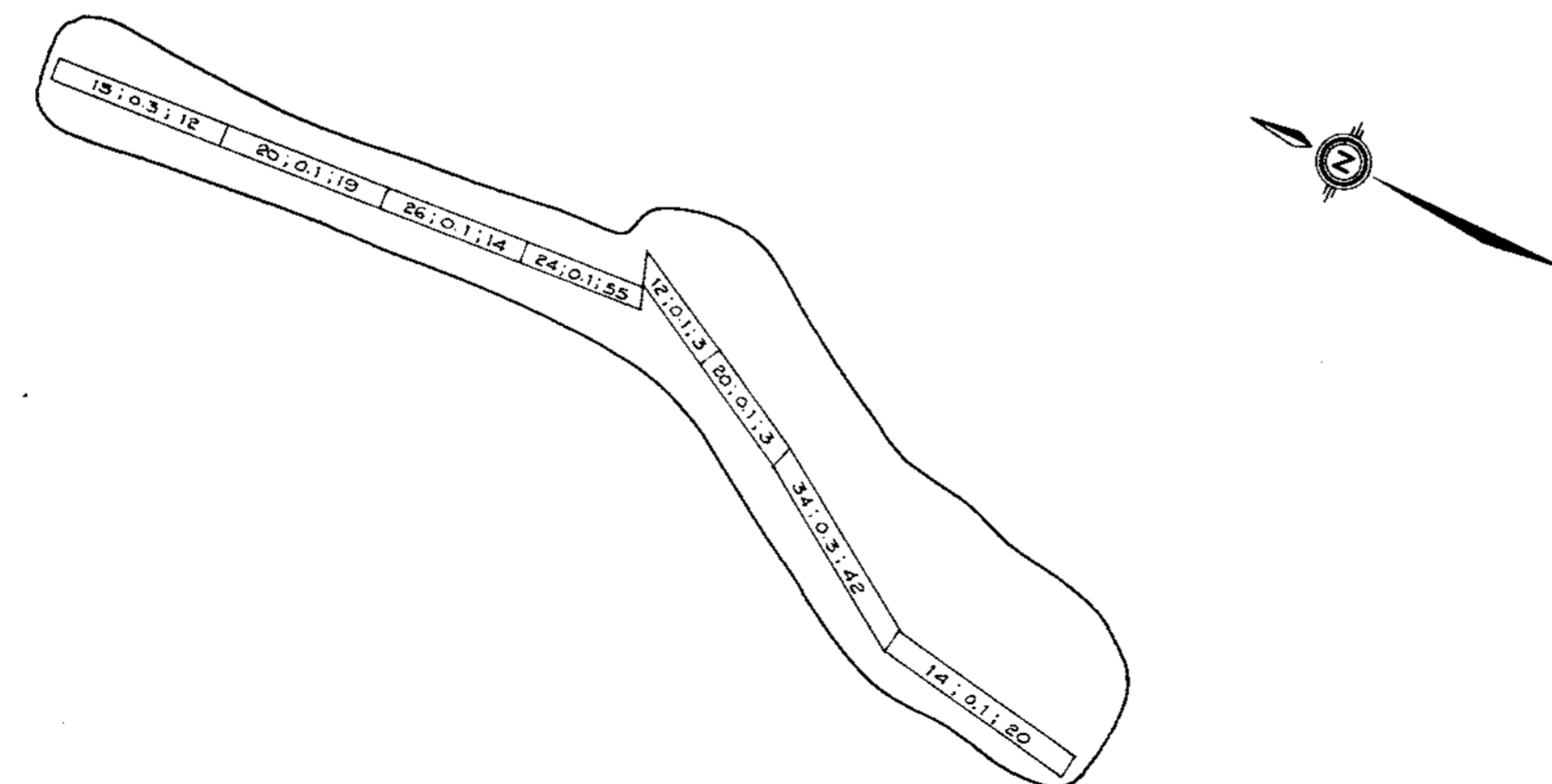
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

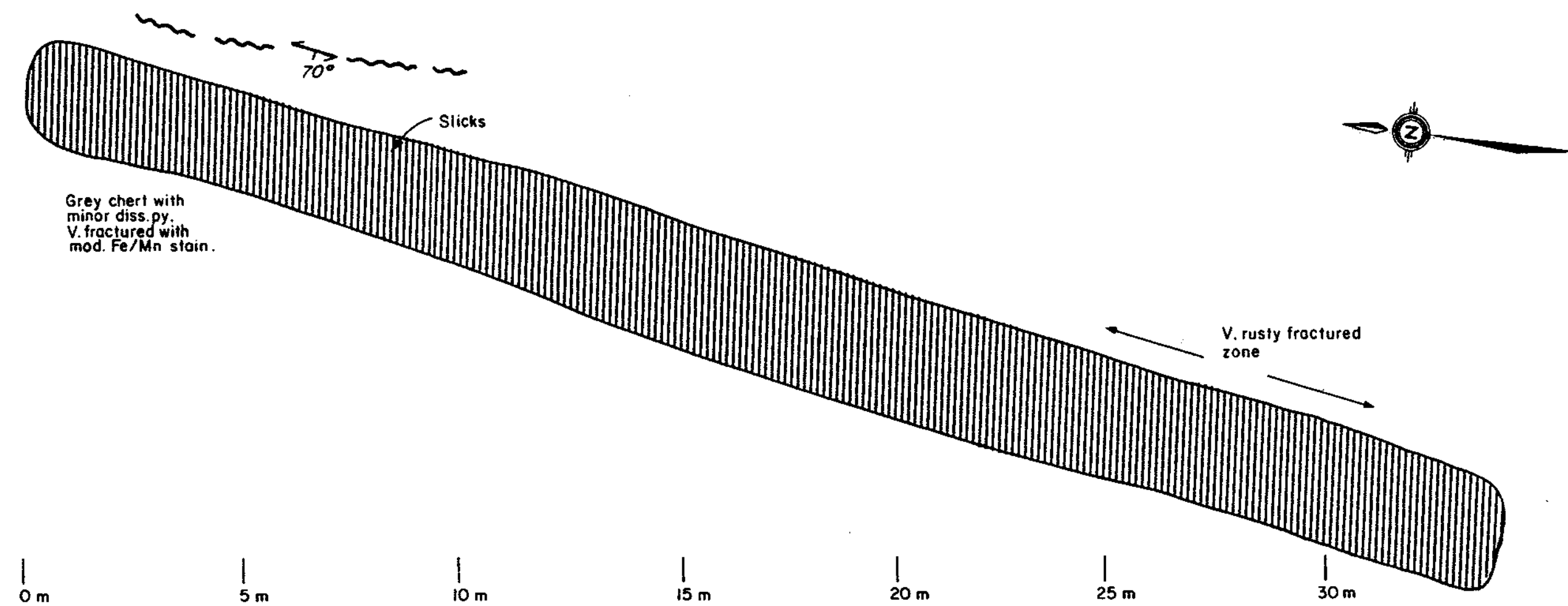
Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff-berge colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
 - Pale grey, coarsely granular granodiorite intrusive. Strongly weathered. Contains 50-75% feldspar (plag) K-spar, 20-30% quartz and 5-15% mafics (biotite + pyroxene) with local narrow quartz stringers. Occurs as dykes into the Post-Eocene conglomerate described below.
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 - EOCENE**
 - MARRON FORMATION**
 - Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow lake and Kitley lake members.
 - SPRINGBROOK FORMATION**
 - Polymictic, pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones; minor intrusive and rhyolite clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
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 - Grab sample location.
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - senc sericitization
 - diss disseminated
 - alt'd altered
 - silic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

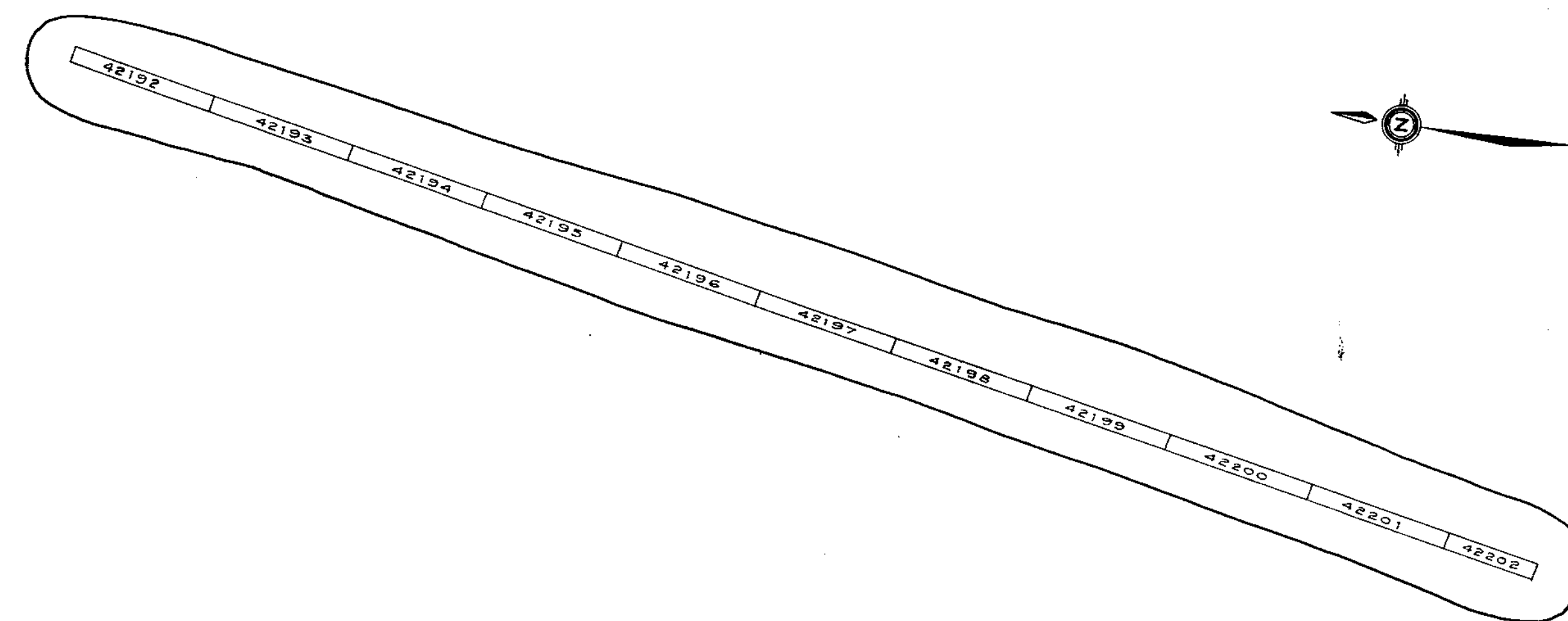
18,284 Scale 1:100
3 4 5 6 mtr.

QPX MINERALS INC.					
PDL PROPERTY, OSOYOOS M.D., B.C.					
TR-88-021					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
	Originator	Drawn	Date	PLAN NO.	FIGURE 27
Original	L.J.L.	C.D.	Oct.'88	1402	
Revision				N.T.S.	
Revision				82E/5W	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



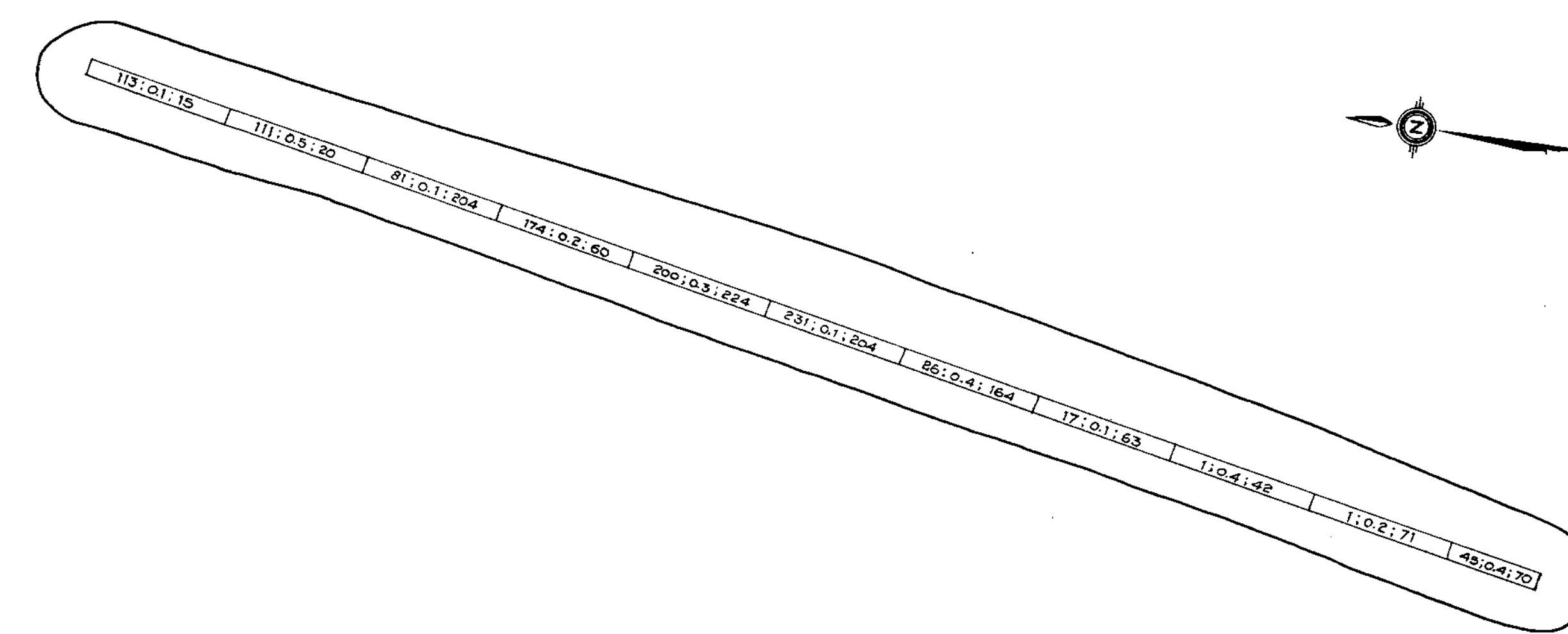
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

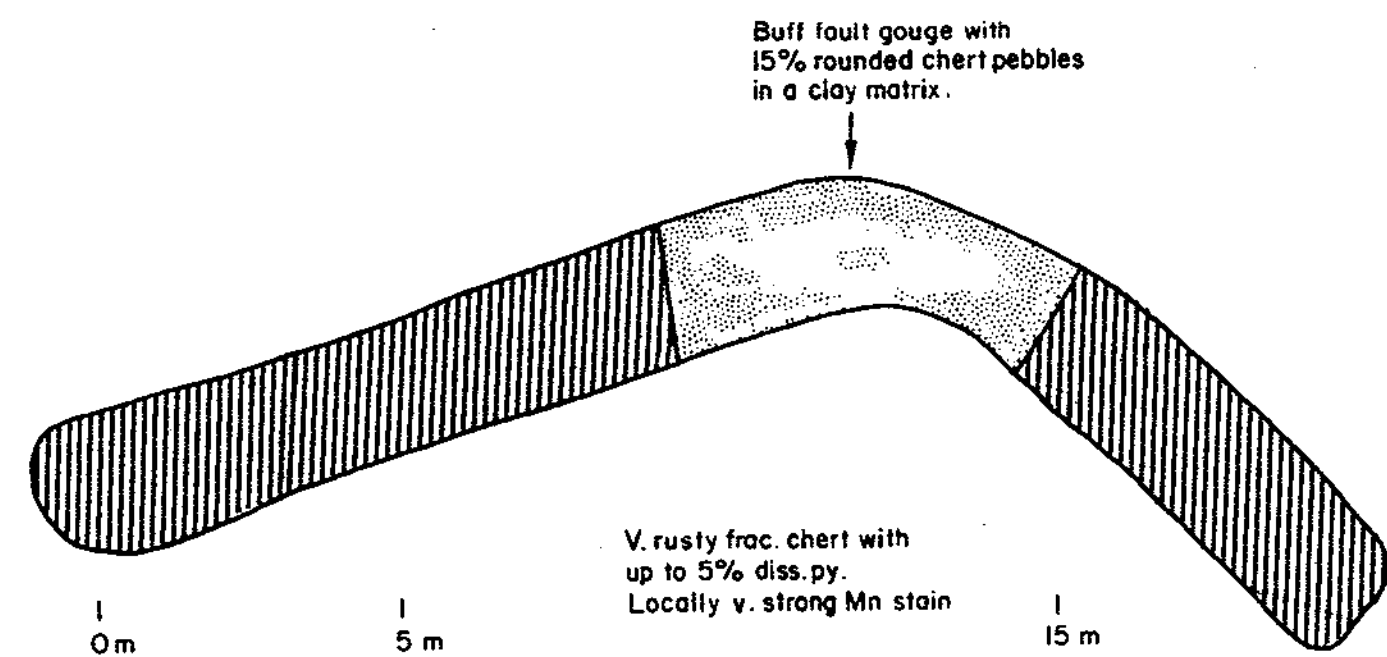
Legend

- Overburden
 - TERTIARY POST-EOCENE**
 - Fault gouge composed of buff beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
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 - MARRON FORMATION**
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-5% euhedral biotite and up to 5% pyroxene phenocrysts in a fine grained matrix. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
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 - TRIASIC or OLDER**
 - SHOEMAKER FORMATION**
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
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 - Geological contact; defined, gradational.
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 - Strike / dip of fault or fractures
 - Strike / dip of veining
 - Channel sample location
 - Grab sample location
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - serc sericitization
 - diss disseminated
 - al'd altered
 - silic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

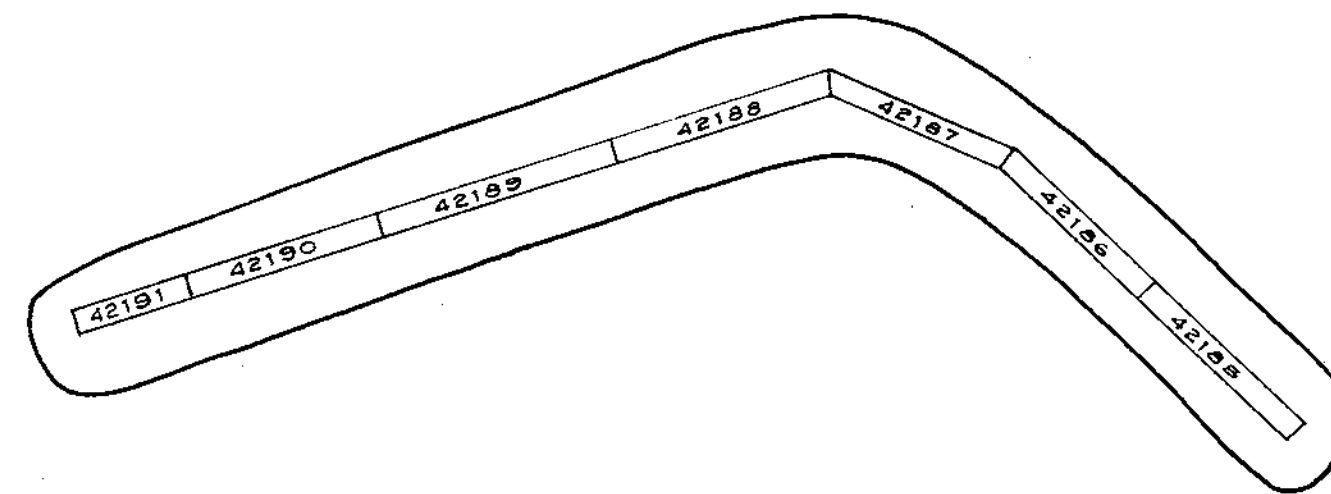
18,284 Scale: 1:100
0 2 4 5 6 mtr.

QPX MINERALS INC.					
PDL PROPERTY, OSOYOOB M.D., B.C.					
TR-88-022					
GEOLOGY, SAMPLE LOCATIONS and RESULTS					
Originator	Drawn	Date	PLAN	FIG.	
Revision	L.J.L.	C.D.	Nov. 1988	1403	28
Revision				N.T.S.	
Revision				82E/SW	
MINEQUEST EXPLORATION ASSOCIATES LTD.					



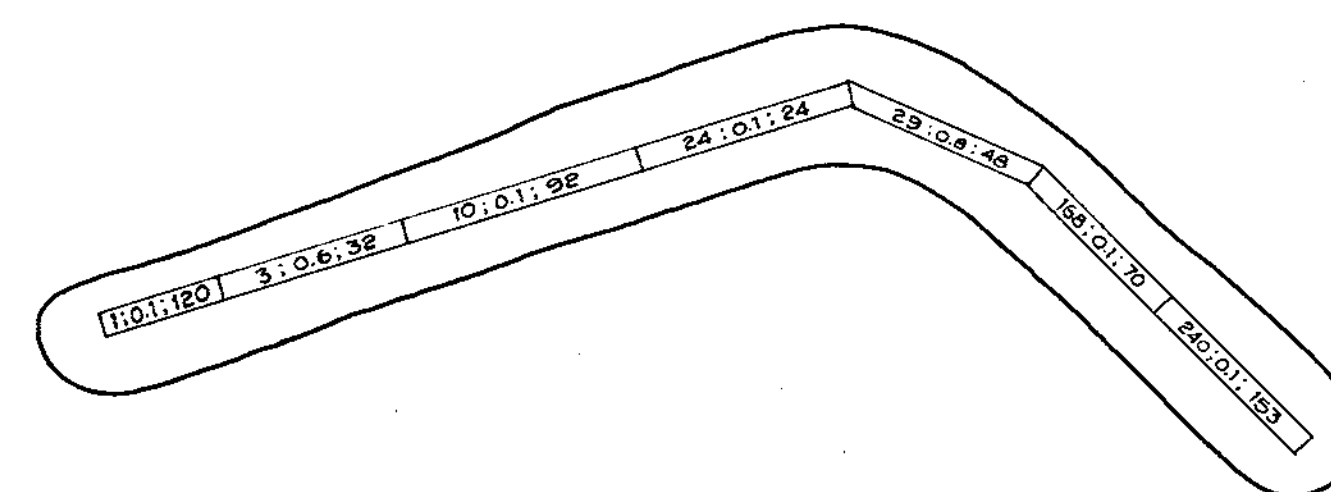
GEOLOGY

PLAN VIEW



SAMPLE LOCATIONS

PLAN VIEW



RESULTS

Au (ppb); Ag (ppm); As (ppm)

PLAN VIEW

Legend

- Overburden
 - TERTIARY POST-EOCENE
Fault gouge composed of buff-beige colored (locally blue) clay. Gouge contains rare boulders of older rocks and local sections of granular quartz pebbles.
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 - MARRON FORMATION**
 - EOCENE
Porphyritic andesitic and phonolitic volcanic, with 15-25% feldspar phenocrysts, 2-3% euhedral biotite and up to 5% pyroxene phenocrysts. May be tan, brown, green or maroon in color. Includes rocks of both the Yellow Lake and Kitley Lake members.
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 - Polymictic pebble to boulder conglomerate with clasts composed mainly of pre-Tertiary cherts and greenstones, minor intrusive and mafic clasts in a fine grained sandy matrix. Locally matrix is tuffaceous with 2% euhedral biotite.
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 - TRIASSIC or OLDER
Massive pale grey-beige chert with local minor disseminated pyrite. May be weakly to strongly brecciated.
- SYMBOLS**
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 - Geological contact, defined, gradational.
 - Strike / dip of bedding
 - Strike / dip of fault or fractures
 - Strike / dip of vein
 - Channel sample location
 - Grab sample location
 - Brecciated
- ABBREVIATIONS**
- py pyrite
 - chl chloritic
 - qtz quartz
 - seric sericitization
 - diss disseminated
 - alt'd altered
 - siic silicified

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284

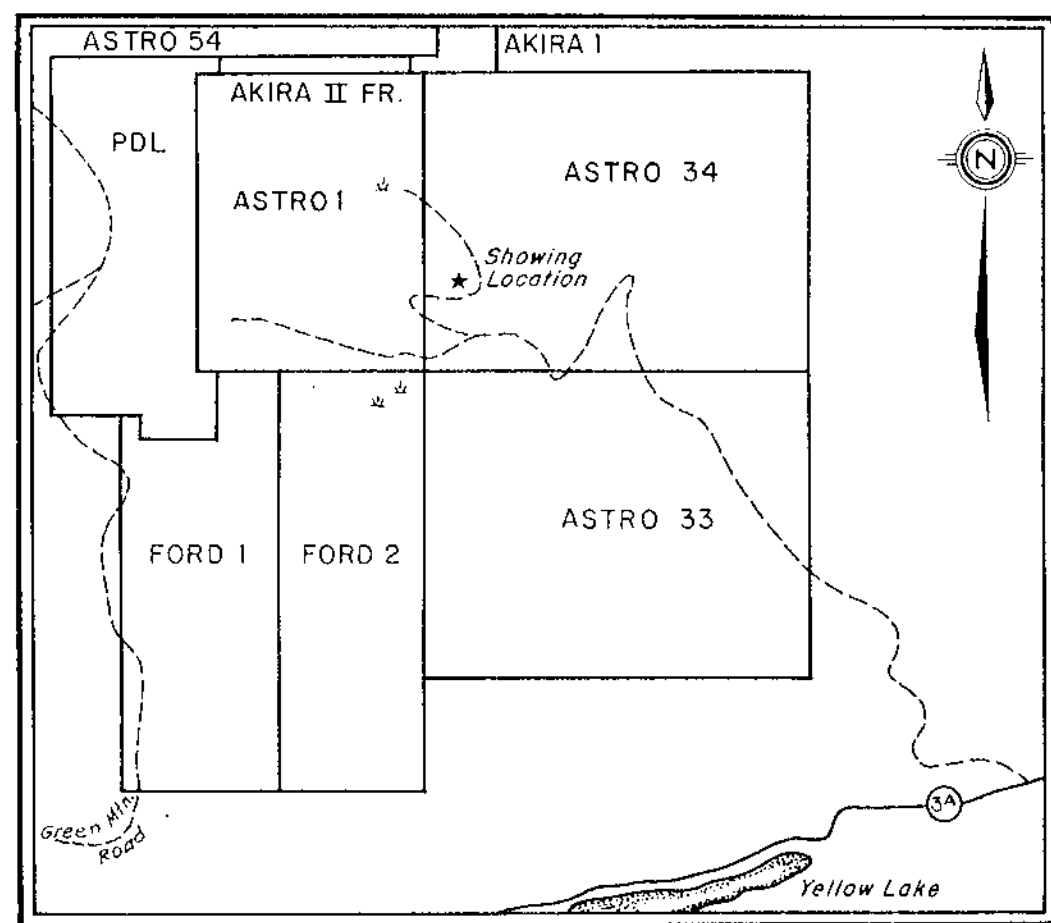
Scale 1:100
1 2 3 4 5 6mtr.

QPX MINERALS INC.
PDL PROPERTY, OSOYOOS M.D., B.C.

TR-88-023
GEOLOGY, SAMPLE LOCATIONS and RESULTS

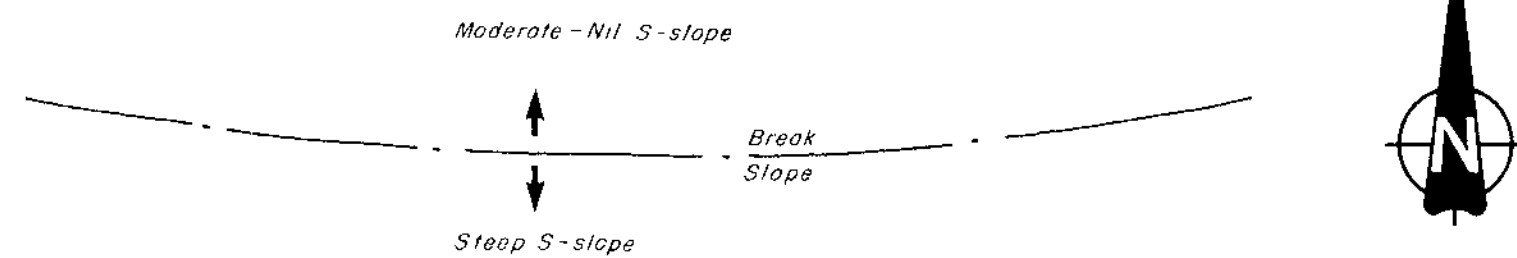
Originator	Drawn	Date	PLAN	FIG.
L.J.L.	C.D.	Nov. 1988	1404	29
Revision			N.T.S.	
Revision			82E/SW	

MINEQUEST EXPLORATION ASSOCIATES LTD.



SHOWING LOCATION MAP

SCALE 1:50,000



LEGEND

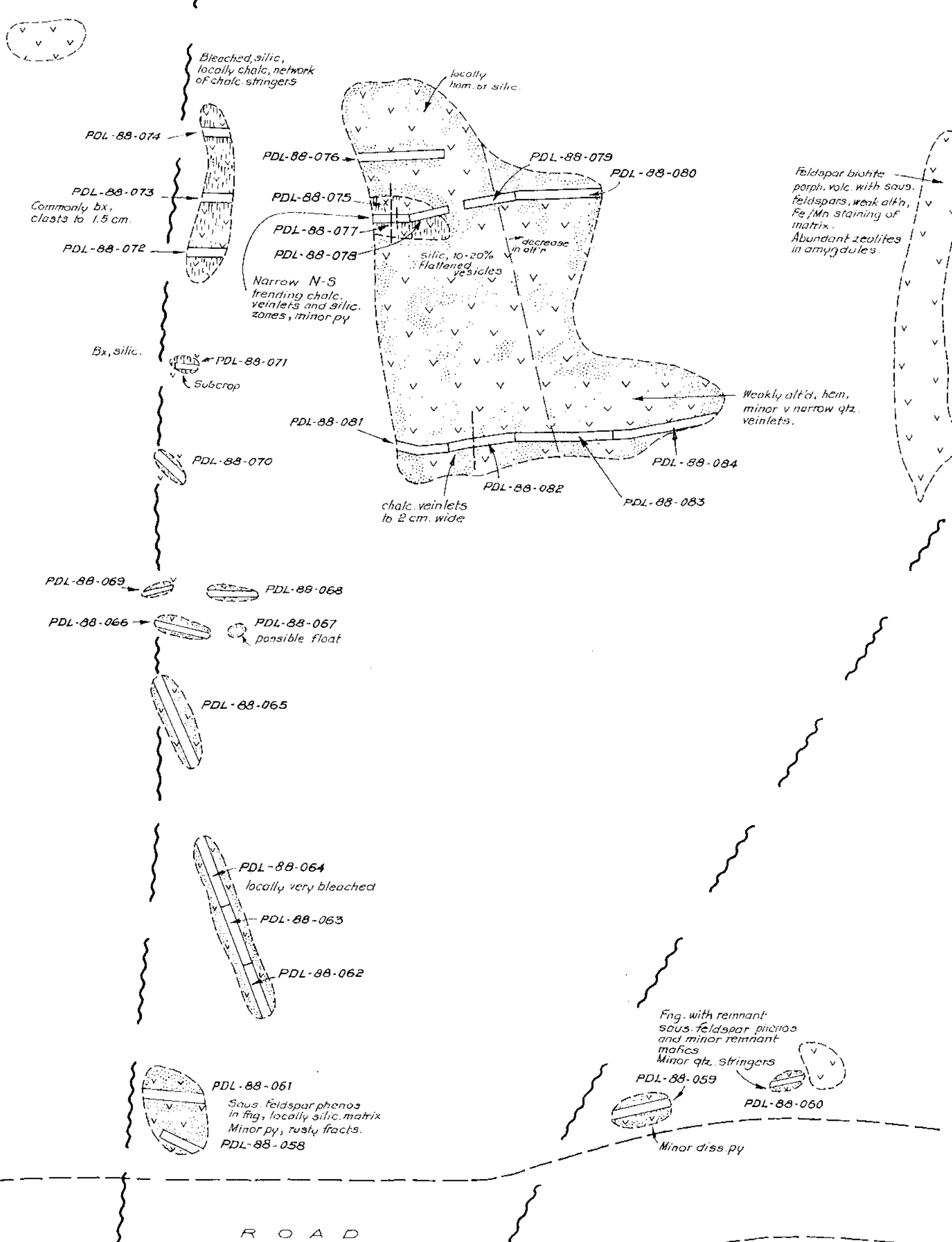
MARRON FORMATION
 Kitley Lake Member:
 PALE BROWN FELDSPAR BIOTITE PORPHYRITIC ANDESITE,
 LOCALLY UP TO 20% VESICLES WHICH MAY BE FILLED W/ZEOLITES.

EOCENE

- ARGILLIC ALTERATION OF VOLCANICS
- SILICIFIED VOLCANICS
- OUTCROP-SUBCROP BOUNDARY
- FAULT
- GEOLOGICAL CONTACT
- QUARTZ / CHALCEDONIC QUARTZ VEINLET
- ROCK CHIP SAMPLE LOCATION
- ROAD
- CLIFFS

ABBREVIATIONS

Py	PYRITE	Diss.	DISSEMINATED
Chalc.	CHALCEDONY	Bx	BRECCIATED
Qtz.	QUARTZ	Hem.	HEMATITIC
Arg.	ARGILLITE	Fng.	FINE GRAINED
Saus.	SAUSSURITIZATION	Fract.	RACTURES
Silic.	SILICIFIED	Pheno.	PHENOCRYST
		Alt'n	ALTERATION



SAMPLE RESULTS

	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
PDL 88-058	35	0.3	100	6
PDL 88-059	45	0.4	127	9
PDL 88-060	40	0.4	36	10
PDL 88-061	20	0.7	43	10
PDL 88-062	15	0.6	76	11
PDL 88-063	10	0.1	111	6
PDL 88-064	10	<0.1	79	6
PDL 88-065	15	0.3	41	10
PDL 88-066	20	1.2	41	8
PDL 88-067	10	0.3	31	12
PDL 88-068	10	0.2	50	11
PDL 88-069	90	1.8	195	7
PDL 88-070	15	0.1	43	9
PDL 88-071	20	1.1	92	6
PDL 88-072	185	11.3	104	8
PDL 88-073	245	12.7	227	5
PDL 88-074	74	7.6	130	10
PDL 88-075	1030 (0.03 oz/t)	6.0	71	11
PDL 88-076	55	1.5	59	21
PDL 88-077	175	34.1	72	18
PDL 88-078	330	0.6	41	15
PDL 88-079	10	0.1	23	22
PDL 88-080	15	0.1	66	17
PDL 88-081	10	0.2	28	13
PDL 88-082	60	0.9	45	11
PDL 88-083	25	0.8	56	13
PDL 88-084	5	0.2	42	13

GEOLOGICAL BRANCH ASSESSMENT REPORT

18,284 Scale 1:100
 0 1 2 3 4 5 6mtr.

QPX MINERALS INC.

PDL PROPERTY, OSOYOOS M.D., B.C.

ASTRO 34 SHOWING

GEOLOGY, SAMPLE LOCATIONS and RESULTS

Originator	L.J.L.	Drawn	C.D.	Date	Nov. 1988	PLAN	1405	FIG.	30
Revision							N.T.S.		
Revision							82E/5W		

MINEQUEST EXPLORATION ASSOCIATES LTD.