

800686

REPORT
ON THE
HEMLO WEST & AURUM CLAIM GROUP
OF
APEX ENERGY CORP.

Located on the Iskut River
Liard Mining Division

Map No. 104B/11

Latitude $56^{\circ} 42' N$

Longitude $131^{\circ} 05' E$

Roderick Macrae, P. Eng.

December 1983

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HEMLO WEST AND AURUM CLAIMS

SUMMARY

An exploration program was conducted in 1983 consisting of geological mapping, sampling of stream silts, soils, and mineralized outcrops on the Hemlo West and Aurum Claim Group. Geological mapping was done by Brian V. Hall, geologist (See Geological Map Fig.3). Forty-four (44) stream silt samples were collected and analysed for heavy minerals. Thirty-six (36) rock chip samples were collected and analysed for seven (7) elements (See Fig.4). Four hundred and seventy-five (475) soil samples were collected from grids established on Hemlo West 15 & Hemlo West 16 and analysed for seven (7) elements (See Fig. 5 to 20 inclusive).

On Hemlo West 16, the rock chip and soil sampling programs located three areas anomalous in zinc and one silver anomaly coinciding with one of the zinc anomalies (See Fig.7 and 11). On Hemlo West 15, silt sampling reported one high analysis for gold (14,500 ppb). Soil sampling indicated a molybdenum-copper anomaly in an area approximately 800 m by 400 m (See Fig. 9 and 10). On Hemlo West 13 claim, one stream silt sample (BH-9) reported 11,500 ppb gold (See Fig.4) and on Aurum 3 claim, one stream silt sample reported 5250 ppb gold (See Fig.4).

CONCLUSION

Grid soil sample programs and prospecting are recommended on Hemlo West 13 and Aurum 3 to investigate the high gold analysis obtained from stream silt sampling. Additional detailed soil sampling is recommended on the south half of the grid established on Hemlo West 16. Additional soil sampling is recommended north of the established grid on Hemlo West 15. Trenching and sampling of the linear zones indicated by soil sampling on Hemlo West 16 is recommended to determine grades, widths and lengths of mineralization.

Contingent on the results obtained in the exploration program outlined above, a 600 m diamond drilling program is recommended.

The estimated cost of this work in two stages is:

Stage I	\$ 47,000.00
Stage II	<u>120,000.00</u>
	\$ <u><u>167,000.00</u></u>

HEMLO WEST AND AURUM CLAIMS

INTRODUCTION

The Hemlo West and Aurum claims owned by Apex Energy Corp. are located in the Liard Mining Division of British Columbia. This 8 claim group is situated on the north and south side of the Iskut River 38 km east of the junction of the Iskut and Stikine River, Stewart, B.C. is 115 km southeast; the Cassiar-Stewart Highway is 66 km northeast at Bob Quinn Lake. Located in the Coast Range Mountains, elevations range from 66 m at the southwest corner of Hemlo West 16 on the Iskut River to 1350 m near the north boundary of Hemlo West 18. (Ref: Location Map Fig.1)

Access to the claims is available from Terrace, B.C. by wheeled aircraft to Snippaker Creek airstrip, 33 km southeast and by helicopter to the claim site. Alternatively, access can be secured by river boat from tide water at Wrangell, Alaska near the mouth of the Stikine River. Wrangell is 85 km west of the claim site, see Index Map Fig. 1.

The 8 claim Hemlo West and Aurum group consists of 132 units located by 4 Legal Claim posts (Location Map Fig.2). On September 22, 1983 the claims were grouped as follows: Apex-Iskut Group-1, Hemlo West 13, 14, 16 and 18; Apex-Iskut Group-2, Hemlo West 12, 15 and Aurum 3 & 4. Hemlo West 14 and 16 surround and, in part, overlie Iskut 1 & 2 claims, a 12 unit claim block, located on the northside of the Iskut River. These two claims are owned by Commonwealth Minerals Limited. The land north of the Iskut River occupied by the Hemlo West and Aurum claims and Iskut 1 & 2 were originally located as the Ray & Joann claims in the early 1960's. Mineralization in this area was first reported by F.A. Kerr, G.SC during his investigations of the Johnny Mountain area, south of the river in 1926 (Memoir 246). In 1964-65, the Ray & Joann claims were prospected for copper, lead, zinc and precious metals by Iskut Silver Mines Limited.

The current owner and operator of the Hemlo West 12 to 16, Hemlo West 18 and Aurum 3 & 4 claims is Apex Energy Corp., at #501 - 700 West Pender Street, Vancouver, B.C.

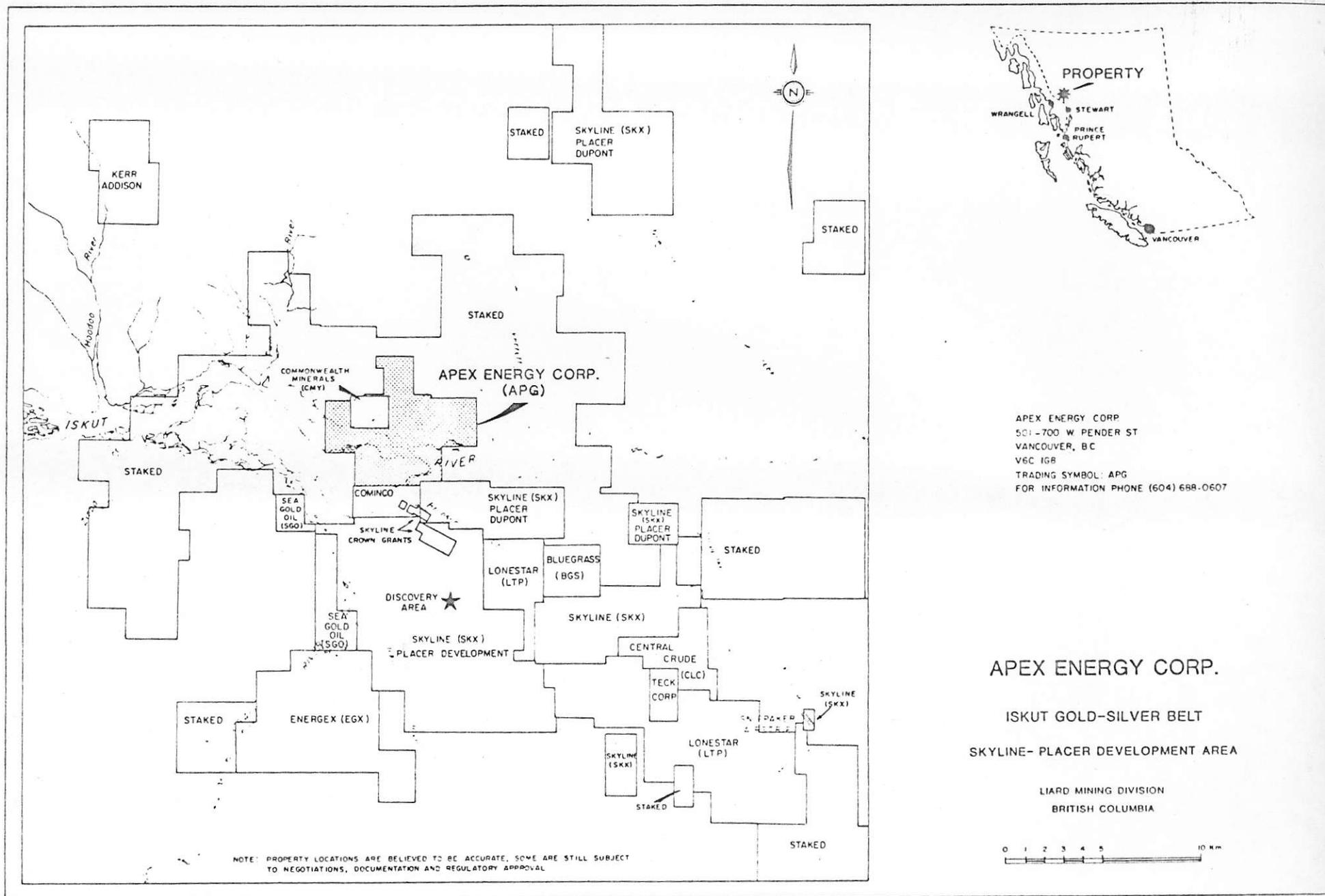
A preliminary economic assessment of these claims indicates a potential for gold and silver mineralization associated with sulphides of iron, zinc and lead in a sedimentary-volcanic rock assemblage.

Claims (See Fig.3)

The mineral records as at September 22nd, 1983 are as follows:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>EXPIRY DATE</u>	<u>RECORDED OWNER</u>
Aurum 3	2624	20	24 Nov 83	Apex Energy Corp.
Aurum 4	2625	5	24 Nov 83	Apex Energy Corp.
Hemlo West 12	2518	20	29 Sept 83	Apex Energy Corp.
Hemlo West 13	2519	20	29 Sept 83	Apex Energy Corp.
Hemlo West 14	2520	15	29 Sept 83	Apex Energy Corp.
Hemlo West 15	2521	16	29 Sept 83	Apex Energy Corp.
Hemlo West 16	2522	20	29 Sept 83	Apex Energy Corp.
Hemlo West 18	2632	16	16 Dec 83	Apex Energy Corp.

On September 28, 1983 three years of assessment work was applied to each of the Hemlo West and Aurum claims.



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APEX ENERGY CORP.

ISKUT GOLD-SILVER BELT
 SKYLINE- PLACER DEVELOPMENT AREA

LIARD MINING DIVISION
 BRITISH COLUMBIA

FIGURE 1

REGIONAL GEOLOGY

Regional mapping by the Geological Survey of Canada in 1935 (Map 311A) and 1957 (Map 9 - 1957) indicate the Iskut River area is underlain by Mesozoic sediments and volcanics of the Takla and Hazelton Groups, which have been intruded by granitic rocks of the Coast Plutonic complex.

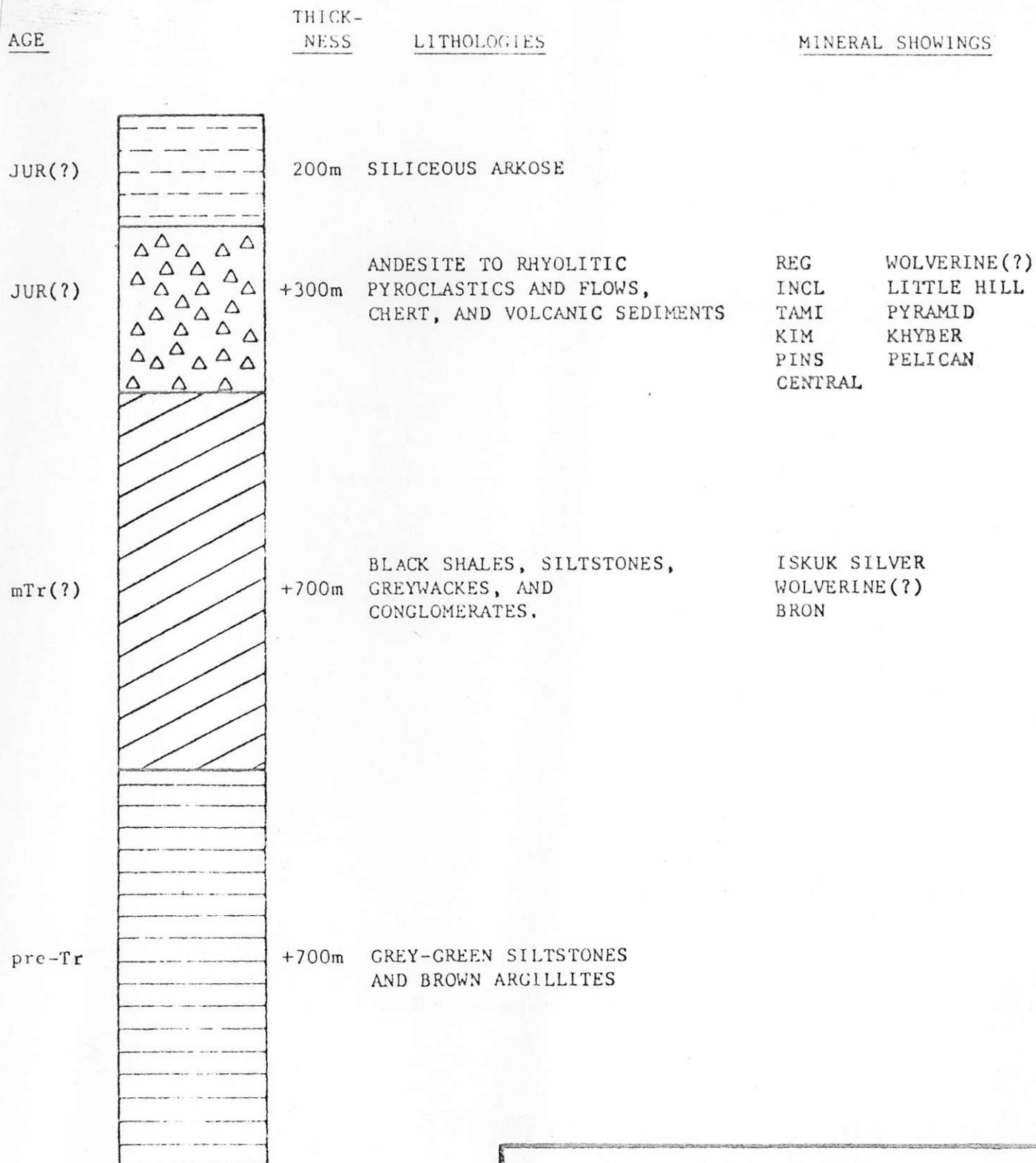
Although considerable confusion exists over the correct nomenclature, stratigraphic relationships and ages of the volcanic and sedimentary rocks a certain degree of consistency is starting to evolve. Presented in Fig.2 is a stratigraphic column compiled by geologists working for Texas Gulf and Cominco. Briefly this stratigraphic column shows a +700 m thick sequence of weakly metamorphosed siltstones and argillites which are considered to be pre-Triassic in age. Overlying this sequence is a +700 m thick sequence of black shales, siltstones, gray-wackes and conglomerates which coarsen upward. Two corals from a limestone bed in this sequence have been dated as middle Triassic. These sediments are in turn overlain by a chaotic mixture of andesitic to rhyolitic pyroclastic and flow rocks which have been informally termed the Snippaker volcanics. Overlying the Snippaker volcanics is a 200 m thick section of sedimentary rocks consisting of a well bedded, dark gray siliceous "arkose".

Uppermost in the stratigraphic section are a number of recent cinder cones and volcanic flows consisting of olivine basalts. Hotsprings related to this volcanic event are presently active in a number of localities.

Intruding the Mesozoic strata are lower to middle Jurassic plutonic rocks which range in composition from syenite to diorite. Contact metamorphism and anatexis accompanied the emplacement of some of these intrusives resulting in the formation of migmatites, gneisses and cataclasites at the border zones. In addition large zones of hydrothermal alteration are developed around some of the more potassic intrusives.

Structurally the Iskut River area is relatively uncomplicated. Satellite photos show the existence of a number of large fault systems which transect the area in an easterly to northeasterly direction. Open folding has affected some portions of the Mesozoic strata with tighter folds present in the lower Mesozoic and Paleozoic strata.

According to regional mapping by the Geological Survey of Canada (Map 9 - 1957) the claim group discussed in this report should be underlain by Permian and/or Triassic rocks. This premise is collaborated by data presented in Fig.2 and maps produced by Grove (1973) to the east. The McQuillan Ridge section described by Grove contains siltstones, quartzites, limestones, pyroclastics and mafic to intermediate flows which are quite similar to the rock types present on the claim group. Fossils indicative of a Karnian or Upper Triassic age were collected from this section. In addition, the development of tighter folds and an axial plane foliation are also most compatible with a Triassic age.



JOHNNY MOUNTAIN STRATIGRAPHIC SECTION	
by: B.V. Hall (modified from L. Orsa 1974)	Date: October 10, 1983
	Figure 2

PROPERTY GEOLOGY

STRUCTURE

Structural relationships on the claim group appear to be relatively straightforward. One phase of deformation has locally folded some sections of the property into a series of east to southeasterly trending "tight" folds. Accompanying this folding was the development of an axial plane foliation (F_1) and a lineation (L_1) representing the intersection of bedding (F_0) and the foliation (F_1). The foliation is best developed in the carbonaceous siltstones (Tcs) and sericite schists (Tss). In the other Triassic rock types a subtle axial plane cleavage is present.

A second foliation is locally present surrounding the granodiorite (Jgr). This foliation is restricted to the finer grained foliated granodiorite (Jfg) and represents a contact zone between the intrusive and Triassic country rocks.

Based upon a study of the geology and air photograph lineaments, two fault sets appear to be present on the property. The most significant in terms of displacement is an east-west trending fault situated on the northern portion of the Hemlo West 13 claim block. This fault has an apparent left lateral displacement of approximately 1 km. The other fault set trends northeasterly and results in only minor displacement. The timing of both fault sets appears to be post-Jurassic since some offset is evident in the orthoclase porphyry (Jop).

PROPERTY GEOLOGY

LITHOLOGY

The geology of the claim group consists of two main components: 1) Triassic strata containing roughly equal portions of sediments and volcanics, and
2) Jurassic plutonic rocks of the Coast Plutonic complex.

In the Triassic strata the dominant sedimentary rock type is a carbonaceous siltstone (Tcs). This rock type is black to dark gray in colour, foliated, and well-bedded. The foliation is for the most part defined by biotite, although some chlorite is present.

With increasing grain size the carbonaceous siltstone (Tcs) grades into the quartz sandstone (Tqs). This rock type consists of well-sorted quartz arenites and poorly-sorted quartz wackes. Both are brown to purple in colour, well indurated, poorly foliated, and well-bedded. Clast size in the quartz wacke averages 1 mm in diameter, but ranges up to 1.0 cm. Biotite and chlorite are present in the more argillaceous beds.

Other sedimentary rock types include a chert (Tch) and porcellanite (Tpo). The chert (Tch) is pale green in colour, massive and has a conchoidal fracture.

The porcellanite (Tpo) is brown to purple in colour, well-laminated (averaging 0.5 cm), has a conchoidal fracture and in general appears to be a middle member between the chert (Tch) and carbonaceous siltstone (Tcs).

For the volcanic rock types, the mafic volcanic tuffs and breccias (Tbt) appear to be the most abundant. In general this rock type is dark green in colour, and contains angular to sub-angular clasts which range in size up to 1.0 cm in diameter. Predominately the clasts consist of volcanic fragments which in some cases are heavily epidotized.

A sericite schist (Tss) occurs in the eastern portion of the Hemlo West 16 claim block. This rock type is pale green in colour, well foliated, variably siliceous, and carries varying amounts of disseminated, veined and laminated pyrite (1 - 15%). Structural relationships suggest this rock type is conformable and may represent a felsic tuff. However, some outcrops have more the appearance of an altered sediment.

The dominant mafic volcanic flow (Tmv) is dark gray to green in colour, aphanitic, magnetic, and in some cases exhibits relict columnar jointing. The other mafic volcanic flows include a feldspar porphyry volcanic flow (Tfv) and sanidine porphyry volcanic flow (Tsv). Both are similar to the mafic volcanic flow (Tmv) except, the feldspar porphyry (Tfv) variety has phenocrysts of plagioclase up to 0.5 cm in length and the sanidine porphyry (Tsv) variant is characterized by conspicuous phenocrysts of sanidine up to 2 cm in length.

For the Jurassic plutonic rocks three members are present on the property:

- 1) orthoclase porphyry (Jop)
- 2) granodiorite (Jgr)
- 3) foliated granodiorite (Jfg)

The youngest appears to be the orthoclase porphyry which occurs as a small stock centered about the Hemlo West 15 claim. Large phenocrysts of orthoclase (1 - 3 cm long) set in a matrix of plagioclase and pyroxene characterize this rock type. In addition this rock type is slightly magnetic and faintly foliated at the margins of the stock.

The granodiorite (Jgr) is situated at the northern edge of the Hemlo West 18 claim. This rock type is medium grained, holocrystalline, equigranular, and contains approximately 20% quartz, 10% biotite, 20% hornblende, 2% magnetite and 48% plagioclase. To the south in contact with Triassic sediments is the foliated granodiorite (Jfg). This rock type is fine grained, foliated, holocrystalline, equigranular, and contains roughly the same mineralogy as the granodiorite (Jgr). Included with this intrusive phase are numerous xenoliths of mafic rocks and relict banding.

PROPERTY GEOLOGY

ALTERATION

Wallrock alteration on the property appears to be relatively minor. Some chloritization and quartz-actinolite veins are present in the mafic volcanics, however, these appear to be more a result of regional metamorphism than related to mineralization. Quartz and/or calcite veins occur sporadically throughout the property and again appear to be a function of regional metamorphism.

Possibly related to the mineralization which accompanies the sericite schist (Tss) is the pervasive sericitization which characterizes this rock type. Outcrops of the quartz sandstone (Tqs) adjacent to the sericite schist (Tss) contain minor amounts of sericite suggesting the sericitization is gradational between the two rock types.

MINERALIZATION

Three distinct forms of mineralization are present on the property. The most widespread is disseminated and veined pyrite which is most abundant on the Hemlo West 16 and 15 claims. Accompanying the pyrite, which attains local concentrations exceeding 10% (G72, G69, B18, G75, B121, G82, G101, G100, G78 and G77) are lesser amounts of chalcopyrite and galena (B157, G78, G75 and B1). On the Hemlo West 16 claim this mineralization appears to be associated with the sericite schist, and in some cases the pyrite occurs in laminations parallel to the foliation. Also in the Hemlo West 16 claim is veined mineralization which appears to be confined to the chert (Tch). For the Hemlo West 15 claims and a small portion of the Hemlo West 14 claims the veined and disseminated mineralization appears to be related to the orthoclase porphyry intrusion (Jop).

The mineralization on the Hemlo West 16 claim does not appear to be related to this intrusion. Significant differences in the soil geochemistry suggest this mineralization has a distinctly different origin.

Other modes of mineralization on the property include a vein of sphalerite and quartz (#2 Showing, Hemlo West 16 claim), and a vein of massive pyrite, quartz and calcite (B42, Hemlo West 14). The sphalerite-quartz vein where exposed averages 30 cm in thickness and contains an average sphalerite content of 30 - 80%. Internally this vein is banded and brecciated, and has an orientation of 135/43 SW, closely approximating bedding (137/18 SW). Assay intersections obtained from Iskut Silver (Sevensma, 1966) indicate an assay intersection of 3.4 feet or 1.04 metres. At present the trenches exposing this vein are considerably oxidized and sluffed in making an accurate determination of this veins true thickness difficult.

The pyrite-quartz-calcite vein located on the western boundary of the Hemlo West 14 claim contains massive pyrite (greater than 80%) with lessor amounts of quartz and calcite. This vein averages 10 em in thickness and has an orientation of 105/90°. The carbonaceous siltstone (Tcs) hosting this vein has 1 - 2% disseminated and veined pyrite.

HEAVY MINERAL GEOCHEMISTRY

RESULTS

As a result of the heavy mineral sampling several areas of interest were isolated (Fig.3, Appendix A).

The two most anomalous areas were located in the centre of the Hemlo West 16 claim and the southwestern portion of the Hemlo West 15 claim. The first area is represented by one sample (EA-1) located in the vicinity of L 40N, 16E. This sample contained very high values in Ag, As, Cd, Cu, Mo, Pb, Sb and Zn. Soil sampling later revealed the presence of a relatively large Ag, As, Au, Cu, Pb and Zn anomaly. This heavy mineral anomaly was present only in the -20 +80 mesh fraction and not the finer -80 mesh fraction. This relationship appears to a function of the relative proximity the soil anomaly has to sample EA-1.

The second area of interest was represented by sample TH-1, TH-2, TH-3 and TH-4, and occurs in the vicinity of L 20E, 15 N on the Hemlo West 15 claim. For this area both size fractions appeared to outline the anomalous area adequately, with the -20 +80 fraction slightly more sensitive. The most anomalous sample was TH-4 which contained very high values in Ag (77.1 ppm) and Au (14,500 ppb) along with reasonably high values for As, Cd, Cu, Mo, Pb and Zn in the -80 mesh fraction. Later soil sampling revealed the presence of a relatively large area of anomalous concentrations of Ag, Cu, Mo, Pb and Zn.

A third anomalous area was located on the Aurum 3 claim. This area is represented by very high Au values in the -80 mesh fractions of samples BH-1 (5,250 ppb) and BH-2 (12,000 ppb). In addition, reasonably high values in Ag, As, Ba, Cd, Cu, Pb, Sb and Zn were obtained for samples BH-1, BH-2 and EH-3 which were especially evident in the -80 mesh fractions. Except for the two high Au values the

other elements were not high as the first two areas of interest. However, minor amounts of chalcopyrite was encountered upstream from sample EH-3 (outcrop B157) and the area has not been covered by soil geochemistry.

In addition to the multi-element anomalies discussed above, a number of spot high Au values were obtained. In the -20 +80 mesh fractions, samples BH-9 (6,000 ppb), TH-6 (2,250 ppb) and TH-12 (3,700 ppb) were found to be anomalous, and in the -80 mesh fractions BH-9 (11,500 ppb) and TH-17 (3,800 ppb) were anomalous. These values were anomalous in more than one sense, since no other elements attained significant concentrations in these samples.

SOIL GEOCHEMISTRY

RESULTS

The soil geochemistry outlined five anomalous areas, of which four appear to be directly attributable to sulphide mineralization.

The largest anomaly is centered over L 22E, 14N on Hemlo West 15 claim and is defined by anomalous concentrations of Mo and Cu. This anomaly extends for approximately 200 m north-south and 400 m east-west. On a smaller scale anomalous values for Ag, Au, Pb and Zn accompany the high Cu - Mo values. The only element that was not significantly anomalous in this area was As. Of note is the area around L 25E, 18N on Hemlo West 15 claim where a number of Mo values exceed 70 ppm, attaining a high of 258 ppm.

On the Hemlo West 16 claim the anomalous zones tended to be much smaller in lateral extent, but carried much higher values. Surrounding the #2 Showing of Iskut Silver (L46+50N, 11+40E) a detailed soil sampling grid was established on a sample spacing of 10 m. Presented in Appendix C (Fig. 12-19) are the results of this survey.

Zn was the best indicator of the anomaly, attaining a high of 8200 ppm in close proximity to the showing. Close inspection of Fig.18 reveals the presence of two sub-parallel linear zones of high values. Both trend southeast with the first centered on L46+50N, 11+40E and the second on L46+50N, 12+00E. Ag, As, Cu and Pb were also found to be significantly anomalous in this area with Ag and As closely approximating the shape, position and orientation of the Zn anomaly. Au also closely approximated the Zn anomaly, however the high Au values were represented by only one anomalous value plus several others which were above background. Mo was the only element which did not respond directly to the mineralization of the #2 Showing.

A second linear soil anomaly occurs in the vicinity of L 45N, 9E. This anomaly also trends south easterly and is best defined by Ag, As, Pb and Zn (Figs. 6, 9, 10 and 11) with scattered highs in Au and Cu (Figs. 5 & 7). In general individual values for all elements except Au and As are significantly higher in this anomaly than the anomaly associated with the #2 Showing. In addition the lateral extent of this anomaly is at least 50% greater (approximately 300 m) and it is open to the northwest.

Associated with the veined and disseminated mineralization centered about L 41+50N, 14+50E is a fourth soil anomaly. This anomaly is crudely ovoid in shape with the long axis orientated southeasterly to northwesterly. As, Pb and Zn best define this anomaly, along with scattered highs in Au. Although this anomaly has the same orientation as the two previous anomalies and appears to be aligned with the #2 Showing, mineralization associated with the sericite schist (Tss) is believed to be the cause.

The final soil anomaly to be considered occurs in the vicinity of L 42+50N, 16+25E. It is best defined by anomalous values in As, Cu, Pb and Zn, with scattered highs in Au and Ag. This anomaly extends for roughly 200 m and is orientated north-south, the same as the valley which contains this anomaly. Consequently, although mineralization is present in the immediate vicinity of this anomaly, the actual positioning appears to be more controlled by topography than mineralization.

ROCK GEOCHEMISTRY

RESULTS

With the exception of samples taken from the #2 Showing, no economic concentrations of base or precious metals were disclosed by rock geochemistry. However, samples from several outcrops did return some interesting values.

For Au grab samples from outcrops B42, B121, B122 and G120 returned values greater than 100 ppb. Two of the samples (B121, 280 ppb and B122, 120 ppb), situated in the vicinity of L 43N, 15+50E came from the mineralization sericite schist unit. Both samples contained in excess of 10% pyrite and were surrounded by anomalous soil samples in Au. Sample B42 came from a 10 cm thick vein of massive pyrite containing lessor amounts of quartz and calcite, which was situated on the western border of the Hemlo West 14 claim. Although this sample was relatively high in Au (320 ppb), based upon mineralogy this vein was anticipated to contain significantly more Au. The last sample G120 came from a small (10 cm wide) quartz-pyrite vein situated on the Hemlo West 15 claim. This sample contained 380 ppb Au, not significantly high considering it came from a vein.

For Ag a number of samples were found to be above background (generally considered to be above 1.0 ppm) B1, B3, B42, B44, G1, G2, G69 and G120. For the most part these samples were situated on the southern portion of the Hemlo West 16 grid and were taken from outcrops containing in general greater than 10% pyrite. The highest sample (B1) contained 5.2 ppm Ag and came from an outcrop containing minor amounts of galena.

On the Hemlo West 15 grid some interesting values for Cu (B18, 660 ppm; G69, 700 ppm and G120, 560 ppm) were obtained. Although these values are above background, they are not considered to be significantly anomalous.

Interestingly enough, sample B157 which came from an outcrop containing visible chalcopyrite upstream from a heavy mineral sample containing relatively high Cu values did not contain a significant Cu content (68 ppm).

For Zn and Pb only samples B5 and G2 appear to be significant. Both samples came from the southern portion of the Hemlo West 16 grid and are associated with outcrops containing minor amounts of pyrite.

The most significant rock samples were obtained from the #2 Showing located at L 46+50N, 11+40E on the Hemlo West 16 claim.

" TABLE 1 "
ASSAYS AND ANALYSES FROM THE #2 SHOWING

<u>Sample No.</u>	<u>Au ppb</u>	<u>Ag oz/ton</u>	<u>Pb %</u>	<u>Zn %</u>	<u>Cu ppm</u>	<u>Mo ppm</u>	<u>As ppm</u>	<u>Sample width</u>
B125a	160	0.56	0.06	21.80	600	1	9700	grab sample
B125b	40	0.36	0.04	9.76	500	2	3100	0.15 m
*	650	0.2	0.04	5.6				1.03 m

* values taken from (Sevensma, 1966)

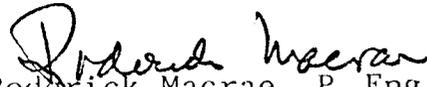
In general the values obtained from this years sampling compare favourably with the results obtained in 1966. The major difference being the sample width, which was significantly greater for the 1966 sampling. However, this difference may be merely a function of the present poor condition of the trenches and once re-established a thicker vein width may be present. Zn as anticipated was quite high. Values for the other elements were not so encouraging.

RECOMMENDATION

On Hemlo West 16, additional soil sampling on the established grid (approximately 50 samples) is recommended to further define precious metal content in three anomalous areas discovered in 1983. Prospecting, trenching and sampling on the linear structures indicated by soil sampling are recommended to determine length, width and grade of mineralization. On Hemlo West 15, additional soil sampling and prospecting are recommended for the area north of the established grid (approximately 75 samples). On Hemlo West 13 and Aurum 3, grid soil sampling and prospecting are recommended to investigate the high gold values obtained by stream-silt sampling (approximately 420 samples).

Contingent on an evaluation of this exploration work, an initial 600 metre diamond drilling program is recommended.

Respectfully Submitted,


Roderick Macrae, P. Eng.

DEC 8/1983

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Roderick Macrae - Consulting Mining Engineer
2591 Ailsa Crescent
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V7K 2B1

Certificate

I, Roderick Macrae, of the District of North Vancouver in the Province of British Columbia hereby certify the following:

1. I am a mining engineer with an office at 2591 Ailsa Crescent, North Vancouver, B.C.
2. I am a graduate of the University of British Columbia with a B.A. (1941) and BAp Sc (mining) (1941).
3. I have practised my profession since 1947.
4. I am a member of the Association of Professional Engineers of British Columbia.
5. I have no interest, direct or indirect, in the Hemlo West - Aurum property nor do I expect to receive any such interest in the future.
6. This report is based on my personal supervision of the work done on this property from August 29, 1983 to September 14, 1983.
7. I have no interest, direct or indirect, in Apex Energy Corp., nor do I expect to receive any such interest in the future.

Dated at North Vancouver, B.C. this 28th day of
December 1983.



Roderick Macrae, P. Eng.

APPENDIX 'A'

Heavy Mineral Analyses
(-20 to +80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
BH 1	5.0	593	10.2	327	92	163	51	146	270	10	1.46
BH 2	7.4	515	13.5	555	75	227	54	289	<u>305</u>	30	2.31
BH 3	2.9	95	3.4	382	42	142	19	158	<u>390</u>	10	2.13
BH 4	<u>19.4</u>	482	11.1	<u>1070</u>	102	231	50	166	125	90	1.95
BH 5	9.1	318	11.1	412	67	<u>270</u>	48	376	<u>345</u>	10	1.91
BH 6	1.7	117	5.2	93	35	86	11	98	268	10	1.75
BH 7	6.9	272	8.1	570	74	101	40	95	109	260	4.76
BH 8	6.0	256	10.4	495	53	154	41	162	172	15	2.19
BH 9	3.7	226	7.1	149	59	110	22	125	259	<u>6000</u>	1.07
BH 10	3.0	151	3.9	299	65	78	24	73	104	5	3.46
BH 13	2.9	94	4.1	82	66	51	9	85	206	5	3.08
EA 1	<u>43.3</u>	<u>2210</u>	<u>56.1</u>	<u>1380</u>	<u>322</u>	<u>1130</u>	<u>541</u>	<u>1510</u>	427	150	.69
EA 2	4.5	127	8.3	<u>1970</u>	65	71	0	247	<u>1210</u>	60	9.15
EH 1	3.0	239	6.7	224	38	88	16	96	163	20	8.64
EH 2	3.7	209	4.5	343	40	82	15	119	143	60	4.72

— anomalous values (assumed)

APPENDIX 'A'

Heavy Mineral Analyses
(-20 to +80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
EH 3	<u>27.3</u>	<u>821</u>	<u>17.2</u>	<u>1030</u>	85	<u>206</u>	57	<u>422</u>	229	90	3.57
EH 4	8.2	628	13.7	933	82	184	51	268	169	25	2.13
EH 5	4.9	224	5.4	416	40	71	15	124	204	30	5.20
EH 6	8.0	478	8.0	414	102	133	42	117	146	90	1.39
EH 7	4.9	234	4.3	397	37	77	18	152	262	35	2.67
EH 8	5.1	316	9.6	460	40	80	24	226	215	<u>540</u>	2.48
EH 9	7.2	416	8.9	680	78	143	30	128	119	170	2.48
EH 10	8.3	584	15.0	797	69	193	39	188	164	70	1.88
EH 11	6.0	304	7.1	523	82	100	25	117	293	100	3.09
GH 1	3.7	148	5.1	222	61	71	23	76	116	5	9.24
TH 1	9.7	<u>927</u>	13.4	409	149	<u>241</u>	<u>74</u>	125	180	70	0.99
TH 2	16.1	<u>1390</u>	<u>29.3</u>	795	<u>251</u>	<u>503</u>	<u>115</u>	<u>411</u>	158	90	0.80
TH 3	<u>50.1</u>	760	<u>23.1</u>	883	171	170	<u>59</u>	<u>576</u>	126	60	3.20
TH 4	<u>59.6</u>	704	16.3	<u>4320</u>	<u>181</u>	185	<u>62</u>	<u>768</u>	142	100	4.84
TH 5	4.9	221	8.3	373	93	60	16	191	124	140	2.03

— anomalous values (assumed)

APPENDIX 'A'

Heavy Mineral Analyses
(-20 to +80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
TH 6	6.0	168	5.0	254	69	71	16	126	246	<u>2250</u>	9.26
TH 7	6.7	93	3.8	89	<u>253</u>	40	43	158	191	100	0.16
TH 8	6.0	162	4.9	235	124	81	16	147	<u>1030</u>	150	0.29
TH 9	6.1	218	2.9	731	<u>194</u>	62	27	72	144	140	3.56
TH 10	2.2	167	3.6	126	71	49	18	101	91	30	6.06
TH 11	4.0	193	11.9	376	36	54	14	810	157	30	2.74
TH 12	5.9	523	11.9	337	78	121	42	228	261	<u>3700</u>	2.16
TH 13	3.4	376	8.5	251	53	92	34	119	225	50	0.76
TH 14	2.6	208	6.7	170	39	85	28	69	220	30	1.02
TH 15	4.5	362	8.9	339	45	99	26	150	197	70	0.83
TH 16	2.5	106	2.4	35	30	41	0	153	147	60	0.45
TH 17	4.8	<u>839</u>	<u>21.7</u>	703	64	122	46	116	229	<u>250</u>	1.47
TH 18	3.3	331	7.3	387	58	87	25	136	156	90	1.18
TH 19	8.3	407	14.9	786	82	110	30	284	242	100	0.46

— anomalous values (assumed)

APPENDIX 'A'

Heavy Mineral Analyses
(-80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
BH 1	11.0	<u>840</u>	<u>22.8</u>	477	130	<u>235</u>	<u>70</u>	237	<u>541</u>	<u>5250</u>	1.21
BH 2	<u>18.8</u>	<u>774</u>	<u>18.0</u>	<u>740</u>	99	<u>263</u>	<u>65</u>	<u>335</u>	<u>438</u>	<u>12000</u>	1.46
BH 3	4.5	170	5.0	429	37	104	19	76	293	110	6.02
BH 4	6.7	264	7.4	316	54	108	30	94	203	2350	4.92
BH 5	8.2	239	6.1	275	53	192	33	159	273	2200	4.44
BH 6	1.6	75	3.6	76	30	79	9	70	218	15	5.27
BH 7	6.3	246	6.9	360	72	151	38	146	242	15	3.59
BH 8	5.6	254	8.7	494	49	149	34	122	193	95	6.71
BH 9	7.9	204	5.8	130	47	117	4	112	279	<u>11500</u>	1.89
BH 10	4.0	173	5.4	231	82	101	27	66	304	10	6.25
BH 13	5.7	73	0.6	94	70	144	7	99	306	10	3.16
EA 1	5.7	353	12.6	373	80	200	61	<u>357</u>	81	190	5.46
EA 2	2.5	128	4.4	<u>893</u>	42	98	11	180	334	70	2.26
EH 1	3.2	187	4.9	339	35	94	12	97	156	45	7.92
EH 2	4.7	232	7.4	238	38	99	27	118	122	1450	5.11

— anomalous values (assumed)

APPENDIX 'A'

Heavy Mineral Analyses
(-80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
EH 3	12.1	640	15.7	<u>843</u>	75	187	<u>52</u>	280	241	960	4.65
EH 4	9.6	543	14.6	<u>1000</u>	70	190	49	245	220	910	3.48
EH 5	4.2	212	4.2	368	35	68	16	121	184	70	12.62
EH 6	8.6	400	3.5	330	<u>132</u>	100	23	159	144	1200	4.86
EH 7	4.2	194	5.1	257	29	62	16	98	196	190	5.75
EH 8	4.3	273	5.1	448	36	87	21	95	205	70	7.21
EH 9	5.7	365	8.5	533	63	90	26	111	129	285	6.55
EH 10	7.1	540	13.3	618	58	128	37	132	147	210	7.50
EH 11	8.8	356	6.5	440	94	102	35	97	206	2100	6.38
GH 1	4.0	130	5.6	212	61	103	25	106	144	125	6.86
TH 1	8.4	686	14.0	311	129	<u>208</u>	50	143	<u>449</u>	220	2.23
TH 2	<u>24.6</u>	<u>1380</u>	<u>37.6</u>	778	<u>241</u>	<u>4060</u>	<u>104</u>	<u>1120</u>	<u>445</u>	760	2.04
TH 3	<u>49.0</u>	<u>715</u>	<u>24.5</u>	708	<u>164</u>	193	61	<u>656</u>	177	830	4.46
TH 4	<u>77.1</u>	<u>876</u>	<u>23.0</u>	<u>2050</u>	<u>214</u>	<u>322</u>	<u>120</u>	<u>773</u>	244	<u>14500</u>	4.86
TH 5	3.8	127	4.2	142	58	55	8	129	74	180	5.55

— anomalous values (assumed)

APPENDIX 'A'

Heavy Mineral Analyses
(-80 mesh)

Sample	Ag ppm	As ppm	Cd ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Ba ppm	Au ppb	non-magnetic heavy %
TH 6	4.6	167	5.9	186	61	63	16	103	245	200	13.98
TH 7	5.5	161	0.8	62	54	46	21	74	116	220	1.40
TH 8	<u>14.3</u>	274	2.5	99	100	89	4	152	<u>1080</u>	220	1.56
TH 9	6.5	224	4.0	461	<u>150</u>	75	25	91	169	100	8.01
TH 10	3.3	222	4.5	96	64	59	19	106	88	50	9.43
TH 11	4.1	201	5.8	148	34	63	14	177	117	45	4.47
TH 12	5.8	392	7.1	391	53	94	27	200	182	1550	3.99
TH 13	4.3	229	4.7	168	32	38	13	100	231	65	2.48
TH 14	4.0	210	4.8	148	34	87	14	91	230	65	2.00
TH 15	5.1	305	6.3	185	40	90	20	149	285	85	2.57
TH 16	6.8	209	0	79	24	55	10	182	225	90	1.88
TH 17	7.6	727	16.8	306	50	139	34	107	240	<u>3800</u>	2.71
TH 18	9.8	451	5.1	379	89	122	34	146	173	2000	2.31
TH 19	8.9	370	9.3	507	59	97	32	195	178	1200	2.44

— anomalous values (assumed)

APPENDIX 'B'

SOIL GEOCHEMISTRY
FROM #2 SHOWING

G69 G68 G67 G66 G65 G64 G63 G62 G61 G60 G59 G58 G57 G56 G55 G54
11E 11+50E 12E 12+50E

L 46+75 N

G38 G39 G40 G41 G42 G43 G44 G45 G46 G47 G48 G49 G50 G51 G52 G53
11E 12E

L 46+50 N

 No. 2 SHOWING

G37 G36 G35 G34 G33 G32 G31 G30 G29 G28 G27 G26 G25 G24 G23 G22 G21 G20 G19 G18 G17
11E 12E 13E

L 46+25 N

T71 G1 G2 G3 G4 T72 G5 G6 G7 G8 T73 G9 G10 G11 G12 T74 G13 G14 G15 G16 T75
11E 11+50E 12E 12+50E 13E

L 46 N



R. Macrae

New W., 1983

APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD MD.-BC.
No. 2 SHOWING
GEOCHEMICAL SURVEY
SAMPLE LOCATIONS

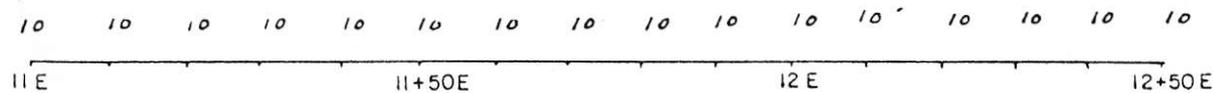
0 50m
SCALE 1:1000

NTS. 104-B-11
BY R.M., BV.H /rwr

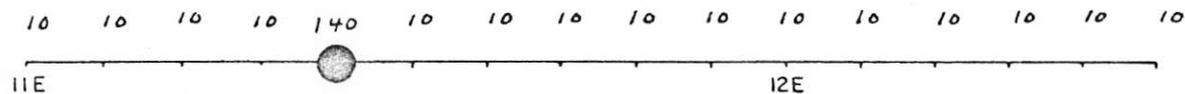
SEPT 1983

FIGURE 13

BV Hall

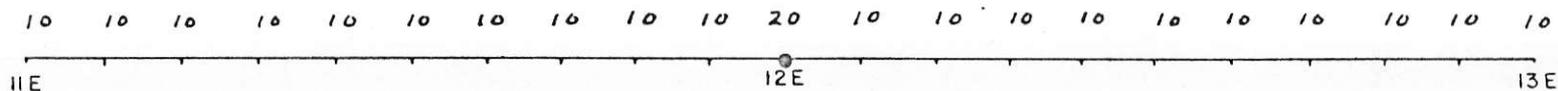


L 46+75 N

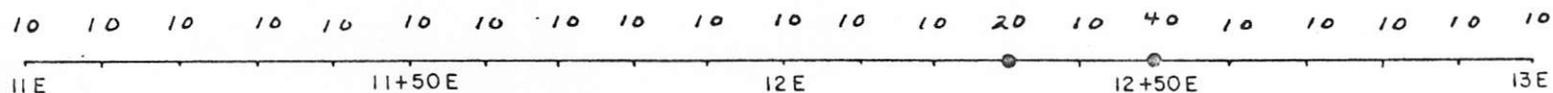


L 46+50 N

⚒ No. 2 SHOWING



L 46+25 N



L 46 N

LEGEND:

- ABOVE BACKGROUND
20-44 ppb
- ANOMALOUS
45-109 ppb
- HIGHLY ANOMALOUS
>110 ppb



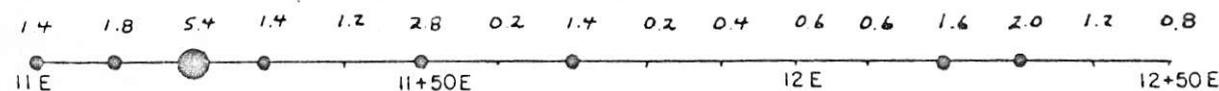
R. Macree
November 14, 1982

APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD M.D.-B.C.
No. 2 SHOWING
GEOCHEMICAL SURVEY
Au RESULTS IN P.P.B.

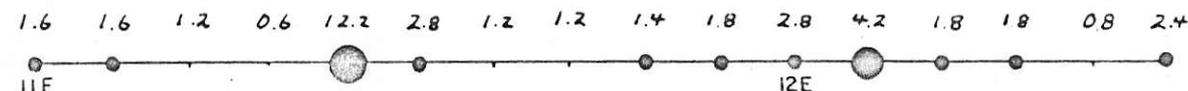
B.V. Hall

NTS: 104-B-11
BY R.M., B.V.H./rwr

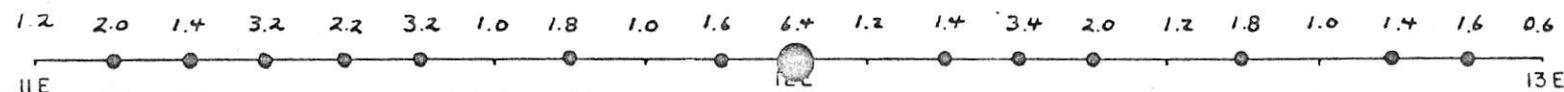
SEPT. 1983
FIGURE 14



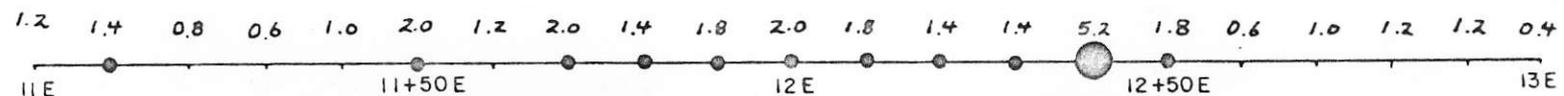
L 46+75 N



L 46+50 N



L 46+25 N



L 46 N



LEGEND:

- ABOVE BACKGROUND
1.4-3.7 ppm
- ANOMALOUS
3.8-4.3 ppm
- HIGHLY ANOMALOUS
>4.4 ppm



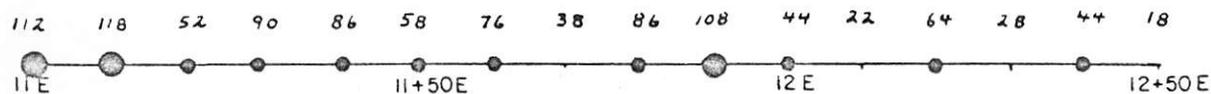
APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD MD.-BC.
No. 2 SHOWING
GEOCHEMICAL SURVEY
Ag RESULTS IN P.P.M.

R. Macrae
November 14, 1983

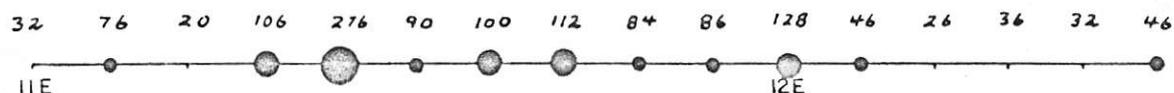
NTS. 104-B-11
BY: R.M., B.V.H./rwr

SEPT. 1983
FIGURE 15

B.V.H.

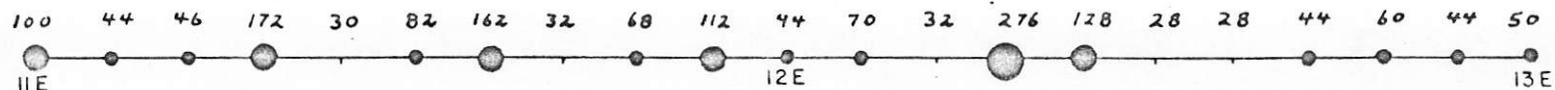


L 46+75 N



L 46+50 N

 No. 2 SHOWING



L 46+25 N

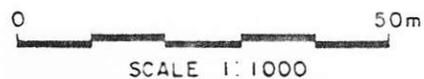


L 46 N

LEGEND:

- ABOVE BACKGROUND
44-94 ppm
- SLIGHTLY ANOMALOUS
95-249 ppm
- HIGHLY ANOMALOUS
> 250 ppm

B. Macrae
November 14, 1963

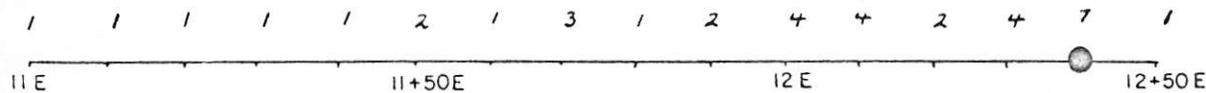


APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD MD-BC
No. 2 SHOWING
GEOCHEMICAL SURVEY
Cu RESULTS IN P.P.M.

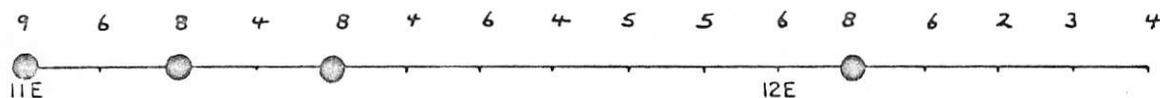
NTS. 104-B-11
BY: R.M., B.V.H./rwr

SEPT 1983
FIGURE 16

Byfield

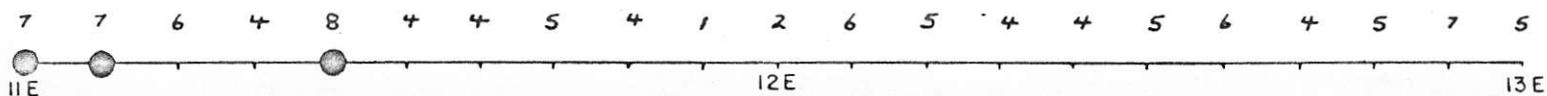


L 46+75 N

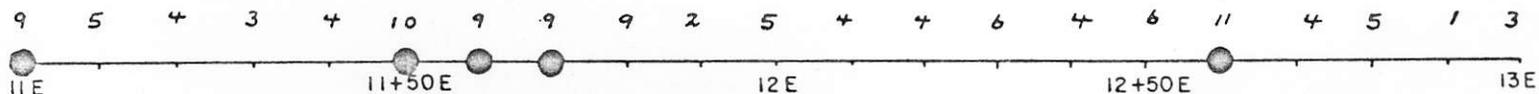


L 46+50 N

 No. 2 SHOWING



L 46+25 N



L 46 N

LEGEND:

-  SLIGHTLY ANOMALOUS
7-14 ppm
-  ANOMALOUS
15-26 ppm
-  HIGHLY ANOMALOUS
>27 ppm



APEX ENERGY CORP.

HEMLO WEST 16 M.C.
LIARD MD.-B.C.

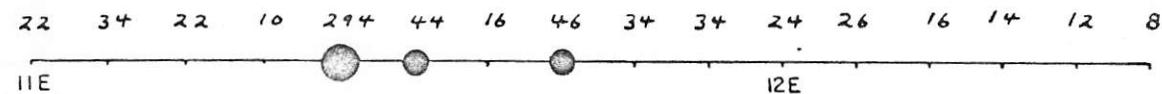
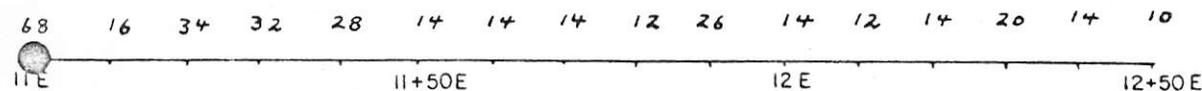
No. 2 SHOWING
GEOCHEMICAL SURVEY
Mo RESULTS IN P.P.M.

R. Maesse
1 1 1 1 1 1
November 1st. 1983

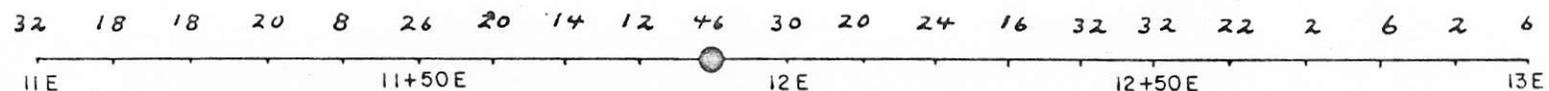
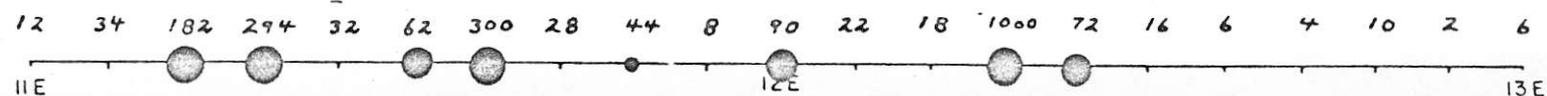
NTS: 104-B-11
BY: R.M., B.V.H./rwr

SEPT 1983
FIGURE 17

B.V. Hall



⚒ NO. 2 SHOWING



LEGEND:

- SLIGHTLY ANOMALOUS
40-59 ppm
- ANOMALOUS
60-109 ppm
- HIGHLY ANOMALOUS
>110 ppm



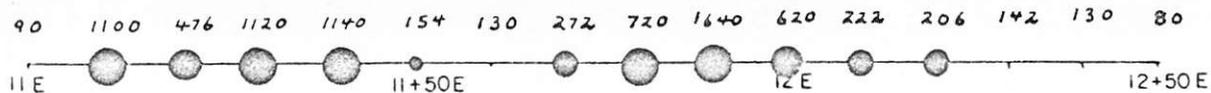
APEX ENERGY CORP.
HEMLO WEST 16 MC.
LIARD M.D.-B.C.
NO. 2 SHOWING
GEOCHEMICAL SURVEY
Pb RESULTS IN P.P.M.

R. Macrae
November 11/1983

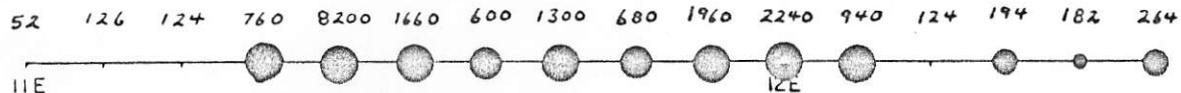
NTS. 104-B-11
BY R.M., BV.H /rwr

SEPT 1983
FIGURE 18

BV Hall

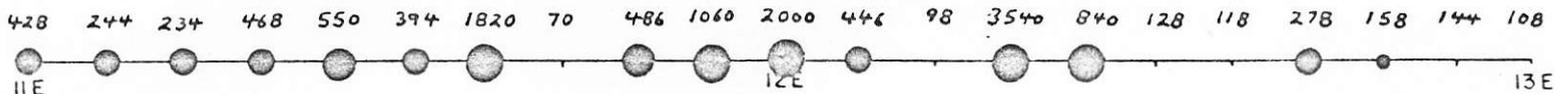


L 46+75 N

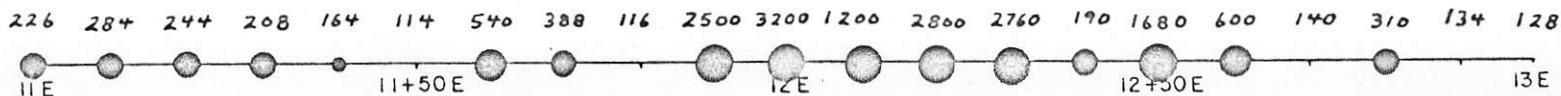


L 46+50 N

 No. 2 SHOWING



L 46+25 N



L 46 N

LEGEND:

- ABOVE BACKGROUND
145-189 ppm
- SLIGHTLY ANOMALOUS
190-469 ppm
- ANOMALOUS
470-699 ppm
- HIGHLY ANOMALOUS
>700 ppm



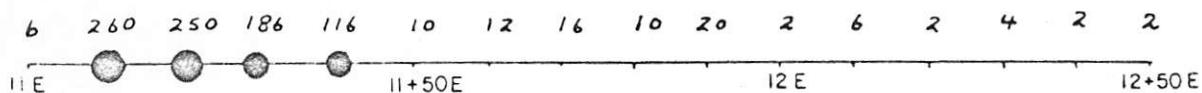
R. Macrae
November 14, 1983

APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD M.D.-B.C.
No. 2 SHOWING
GEOCHEMICAL SURVEY
Zn RESULTS IN P.P.M.

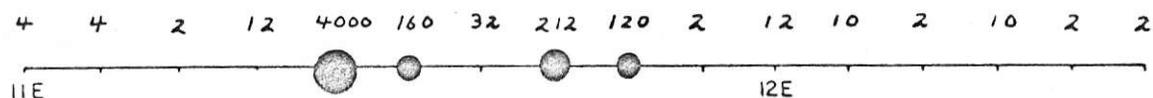
NTS: 104-B-11
BY: R.M., B.V.H./rwr

SEPT. 1983
FIGURE 19

B.V. Hall

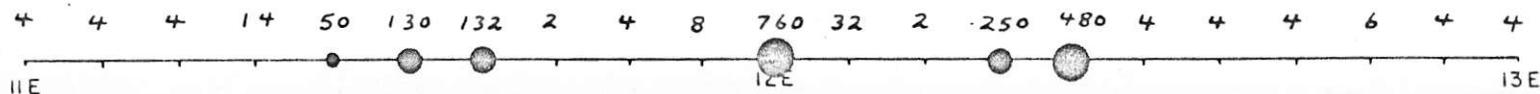


L 46+75 N

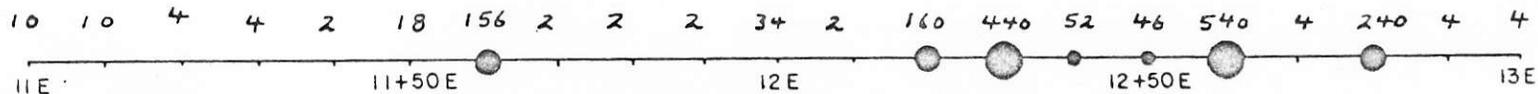


L 46+50 N

⚒ No. 2 SHOWING



L 46+25 N



L 46 N



LEGEND:

- ABOVE BACKGROUND
35-94 ppm
- SLIGHTLY ANOMALOUS
95-199 ppm
- ANOMALOUS
200-339 ppm
- HIGHLY ANOMALOUS
>340 ppm



R. Macrae
NOV 14 1983

APEX ENERGY CORP.
HEMLO WEST 16 M.C.
LIARD M.D.-B.C.
No. 2 SHOWING
GEOCHEMICAL SURVEY
As RESULTS IN P.P.M.

By Hall

NTS: 104-B-11
BY: R.M., B.V.H./rwr

SEPT 1983
FIGURE 20

APPENDIX 'C'

COST ESTIMATE

Two stage exploration program for the Hemlo West - Aurum Claim Group - Liard Mining Division.

Stage I - 20 day field work

Labour & Supervision

Geologist	25 days @ \$200/day	
Geological assistant	22 days @ \$100/day	
Senior technician with blasting certificate	22 days @ \$120/day	
Junior technician	22 days @ \$ 80/day	
Total (including 20% fringe benefits)		\$ 13,920.00

Transportation

Vancouver, B.C. to Snippaker Creek Airstrip (\$4480.00)		
Snippaker Creek Airstrip to Hemlo-Aurum Claims plus on site transportation (helicopter) - 19.5 hrs.	(\$10,725.00)	
Total		15,205.00
Assaying - 550 soil & rock chip samples		7,150.00
Supplies - food, fuel, explosives, etc.		3,140.00
Rentals - camp, transmitter-receiver, gas drill		2,125.00
Miscellaneous Costs - expediting, accomodations and meals en route, etc.		1,188.00
Contingencies - 10%		4,272.00
	Total	\$ 47,000.00

Stage II - 30 days field work

600 m BQ wireline diamond drilling - \$200/m \$120,000.00

Total Cost Estimate of Stage I and Stage II - \$167,000.00



*Revised
November 4, 1983*

B.V.H.

APEX ENERGY CORP.
HEMLO WEST - AURUM CLAIMS
LIARD MD-BC

GEOLOGY MAP

SCALE 1:10,000



NTS : 104- -II

DATE : NOV. 6, 1983

BY: R.M., B.V.H./r.w.r.

FIGURE : 3

C-58
888
887
HE
87

Jop

G-126
PY 2 1/2

LEGEND:

Jop ORTHOCLASE PORPHYRY

Jgr GRANODIORITE

Jfg FOLIATED GRANODIORITE

Tss SERICITE SCHIST

Tbt MAFIC BRECCIA/TUFF

Tmv MAFIC VOLCANIC FLOW

Tsv SANIDINE PORPHYRY
VOLCANIC FLOW

Tfv FELDSPAR PORPHYRY
VOLCANIC FLOW

Tch CHERT

Tpo PORCELLONITE

Tcs CARBONACEOUS SILTSTONE

Tqs QUARTZ SANDSTONE

 BEDDING

 FOLIATION

 CLEAVAGE

 VEIN

 FAULT

py PYRITE

po PYRRHOTITE

cpy CHALCOPYRITE

gn GALENA

sp SPHALERITE

ep EPIDOTE

qtz QUARTZ

cal CALCITE

mag MAGNETITE

O WEST 16

Jop

HEMLO W

Tbt

G86
py 5%

G87
py 5%
G88

Tqs

G75
py 10%
cpy 2%
G64
G63
py 5%

G65
py 1%

G66
py 7%

G67
py 7%

B20
py tr.

G118
py tr.

G117
py 1%

G120
py tr.

G119

G121

Tbt

Jop

G89

G94

G68
py 7%

G122
py tr.

Tcs

G93

G74
py 7%

G73
py 3%

G72
py 12%

G71

G69
py 12%

G123
py tr.

G124
py tr.

G125

HEMLO WEST 16

G90
py 2%

G91
py 1%

G92
py tr.

Tqs

G93

G90
py 2%

G91
py 1%

G92
py tr.

G93

G94

G95

G96

G97

G98

G99

G100

G101

G102

G103

G104

G105

G106

G107

G108

G109

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G356

G357

G358

G359

G360

G361

G362

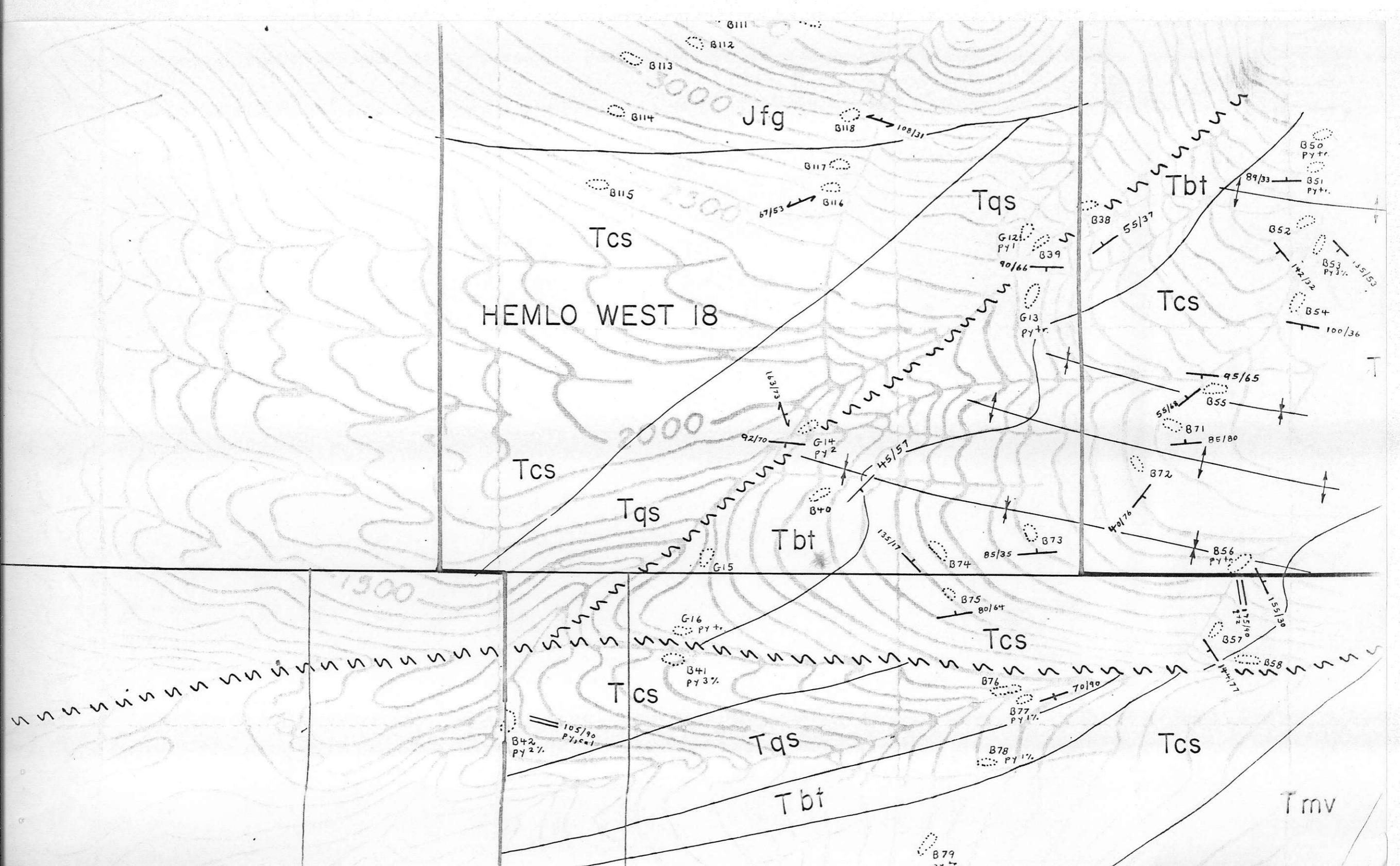
G363

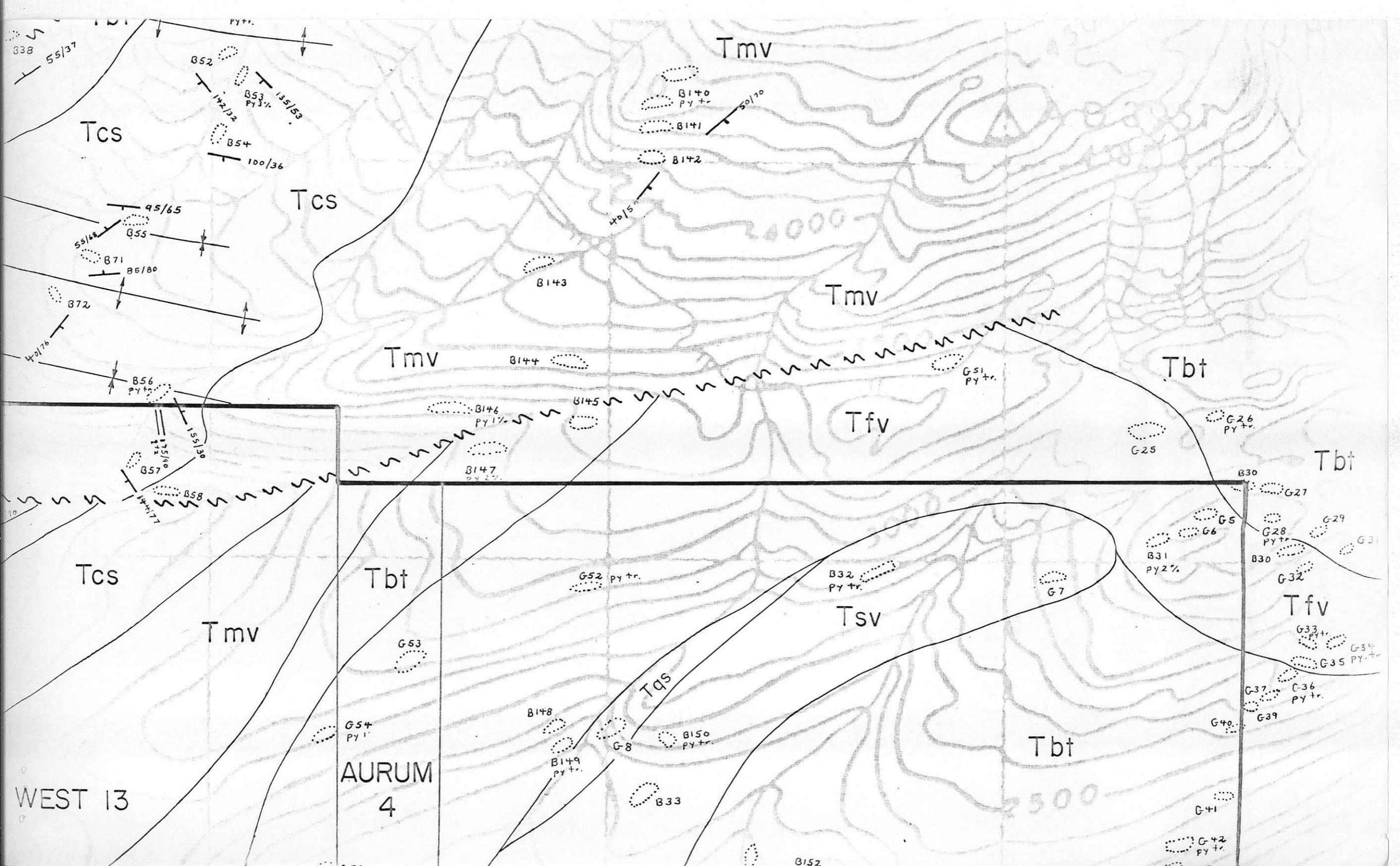
G364

G365

G366

G367





Tmv

Tcs

Tcs

Tmv

Tmv

Tbt

Tfv

Tbt

Tcs

Tbt

Tmv

Tsv

Tfv

Tqs

Tbt

WEST 13

AURUM

4

2500

B152

838

B52

B53

B54

B140

B141

B142

B143

B144

B146

B145

B147

B57

B58

G25

G26

G27

G28

G29

B31

B30

G32

G31

G33

G34

G35

G37

C-36

G40

G39

G41

G42

py tr.

py tr.

py tr.

40/5

50/10

100/36

95/65

55/44

85/80

40/76

15/36

12/30

14/17

AURUM

4

B152



RM/Bevce
November 14, 1983
B.V.H.

LEGEND:

HEAVY MINERAL SAMPLE

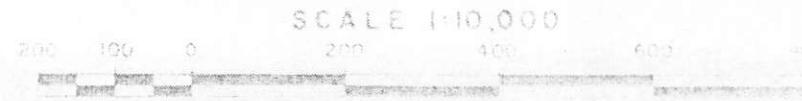
Au, Ag, Pb, Zn, Cd	■	Au, Ag, Pb, Zn, Cd
Cu, Mo, As, Sb, Ba		Cu, Mo, As, Sb, Ba
-20 +80 mesh		-80 mesh

ROCK SAMPLE

▲	Au, Ag, Pb, Zn
	Cu, Mo, As

APEX ENERGY CORP.
 HEMLO WEST - AURUM CLAIMS
 LIARD MD-BC

HEAVY MINERAL & ROCK
 GEOCHEMISTRY



NTS: 104-B-11
 DATE: NOV. 7, 1983
 BY: RM., B.V.H./r.w.r.

FIGURE 4

TH10
 $\frac{30, 2.2, 49, 101, 3.6}{126, 71, 167, 18, 91}$ $\frac{50, 33, 59, 106, 4.5}{96, 64, 222, 19, 88}$

TH11
 $\frac{30, 4.0, 54, 810, 11.9}{376, 36, 193, 14, 157}$ $\frac{45, 4.1, 63, 177, 5.8}{148, 34, 201, 14, 117}$
TH12
 $\frac{3700, 5.9, 121, 228, 11.9}{337, 78, 523, 42, 261}$ $\frac{1550, 5.8, 94, 200, 7.1}{391, 53, 392, 27, 182}$
TH13
 $\frac{50, 3.4, 92, 119, 8.5}{251, 53, 376, 34, 225}$ $\frac{65, 4.3, 38, 100, 4.7}{168, 32, 229, 13, 231}$

TH14
 $\frac{30, 2.6, 85, 69, 6.7}{170, 39, 208, 28, 220}$ $\frac{65, 4.0, 87, 91, 4.8}{148, 34, 210, 14, 230}$

TH15
 $\frac{70, 4.5, 94, 150, 8.9}{339, 45, 362, 26, 197}$ $\frac{85, 5.1, 90, 149, 6.3}{185, 40, 305, 20, 285}$

TH16
 $\frac{60, 2.5, 41, 153, 2.4}{35, 30, 106, 0, 147}$ $\frac{90, 6.8, 55, 182, 0}{79, 24, 209, 10, 225}$

TH17
 $\frac{250, 4.8, 122, 116, 21.7}{703, 64, 839, 46, 229}$ $\frac{3800, 7.6, 139, 107, 16.8}{306, 50, 727, 34, 240}$

G76 $\frac{10, 0.4, 2, 32}{94, 38, 14}$
TH18
 $\frac{90, 3.3, 87, 136, 7.3}{387, 58, 331, 25, 156}$ $\frac{2000, 9.8, 122, 146, 5.1}{379, 89, 451, 34, 173}$

G82 $\frac{10, 0.6, 8, 46}{600, 1, 2}$ G100 $\frac{10, 0.4, 14, 214}{69, 3, 2}$
TH19
 $\frac{100, 8.3, 110, 284, 14.9}{786, 82, 407, 30, 242}$ $\frac{1200, 8.9, 9.7, 195, 9.3}{507, 59, 370, 32, 178}$

EST B125 $\frac{160, 92, 218000, 200}{600, 1, 9700}$

ISKUT 2

B124 $\frac{10, 0.2, 6, 12}{10, 1, 20}$

G21 $\frac{120, 0.6, 6, 44}{98, 1, 14}$ G2 $\frac{70, 0.2, 6, 34}{92, 2, 4}$

$\frac{10, 1.2, 28, 14}{12, 1, 24}$ G18 $\frac{10, 0.4, 2, 30}{28, 7, 2}$ G19 $\frac{120, 0.4, 2, 34}{40, 1, 2}$

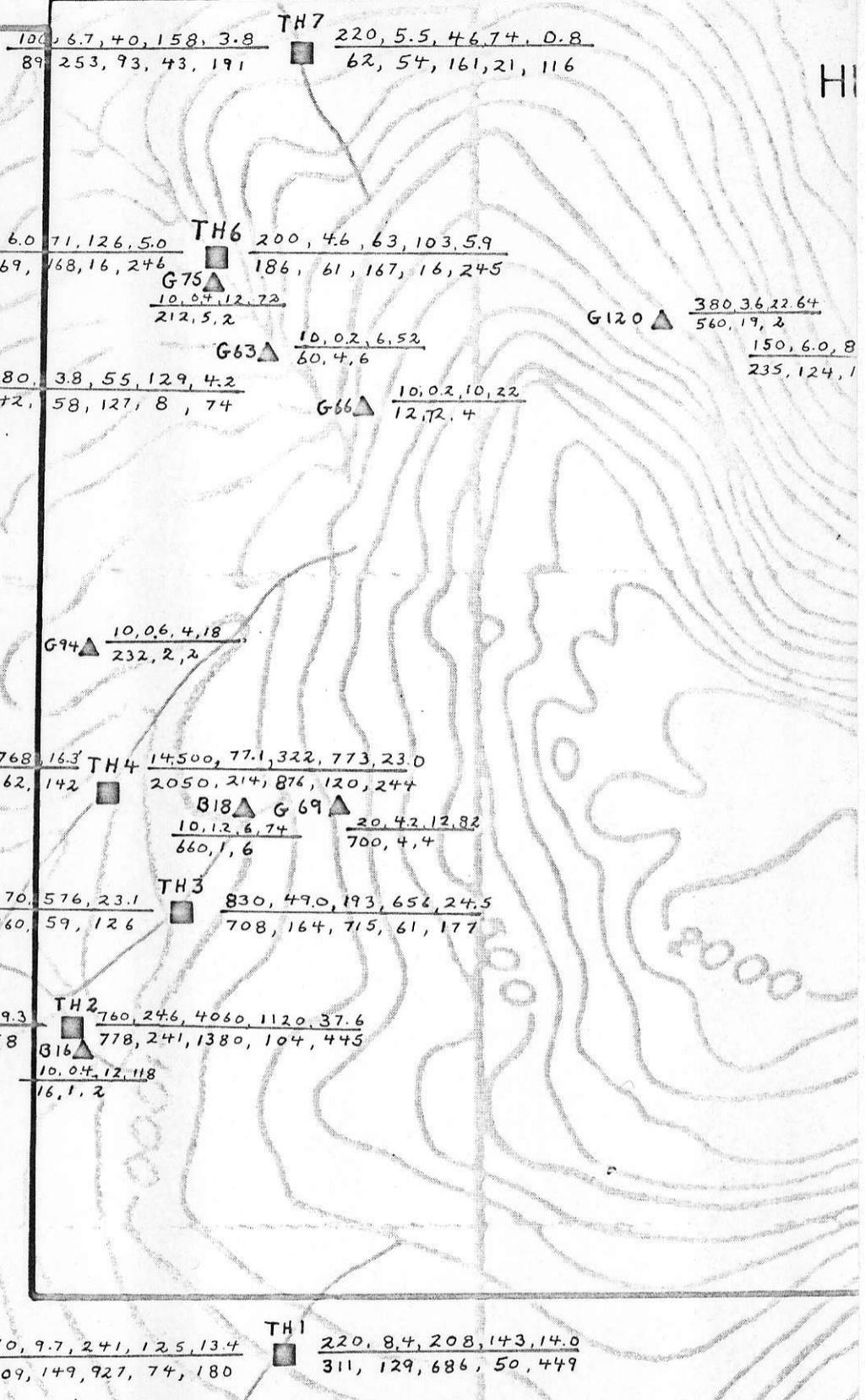
$\frac{10, 2.8, 46, 520}{40, 1, 620}$ B44 $\frac{20, 2.2, 48, 18}{28, 5, 12}$ B121 $\frac{28, 1.0, 16, 130}{70, 2, 104}$ B120 $\frac{30, 0.8, 30, 42}{16, 1, 4}$

G2 $\frac{60, 0.4, 12, 72}{212, 5, 2}$ B7 $\frac{30, 0.8, 30, 42}{62, 3, 4}$ B9 $\frac{10, 2.0, 22, 1240}{76, 1, 148}$ G1 $\frac{10, 2.0, 22, 1240}{76, 1, 148}$

EA $\frac{150, 43.3, 1130, 1510, 56.3}{1380, 322, 2210, 541, 427}$ $\frac{60, 4.5, 71, 247, 8.3}{1970, 65, 127, 0, 1210}$ EA2 $\frac{70, 2.5, 98, 180, 4.4}{893, 42, 128, 11, 334}$
TH17 $\frac{190, 5.7, 200, 357, 12.6}{373, 80, 353, 61, 81}$

60
797

HEMLO
WEST



HEMLO WEST 18

35, 4.9, 77, 152, 4.3
397, 37, 234, 18, 262

EH7

190, 4.2, 62, 98, 5.1
257, 29, 194, 16, 196

10, 2.9, 142, 158, 3.4
382, 42, 95, 19, 390

BH3

110, 4.5, 104, 76, 5.0
429, 37, 170, 19, 293

540, 5.1, 80, 226, 9.6
460, 40, 316, 24, 215
170, 7.2, 143, 128, 8.9
680, 78, 416, 30, 119

EH8

70, 4.3, 87, 95, 5.1
448, 36, 273, 21, 205

285, 5.7, 90, 111, 8.5

EH9

533, 63, 364, 26, 129

90, 19.4, 231, 166, 11.1
1070, 102, 482, 50, 125

BH4

2350, 6.7, 108, 94, 7.4
316, 54, 264, 30, 203

10, 9.1, 270, 376, 11
412, 67, 318, 48, 34

10, 1.7, 86, 98, 5

93, 35, 117, 11, 2

95, 56, 147, 1

494, 49, 254, 5

BH8

B47

320, 22, 28, 22
158, 20, 50

15, 6.0, 154, 162, 10.4
495, 53, 256, 41, 172

6000, 3.7, 110, 125, 7.1
149, 59, 226, 22, 259

BH9

11500, 7.9, 117, 112, 5
130, 47, 204, 4, 27

EH10

210, 7.1, 128, 132, 13.3
618, 58, 540, 37, 147

5, 3.0, 78, 73, 3.9
299, 65, 151, 24, 104

BH10

10, 4.0, 101, 66, 5.4
231, 82, 173, 27, 304

10, 117, 7.1
4, 25, 293

EH11

2100, 8.8, 102, 97, 6.5
440, 94, 356, 35, 206

HEMLO WEST

B89 10, 0.2, 6.28
48, 8, 2

G61 10, 2.0, 2.48
36, 4, 4



LEGEND:

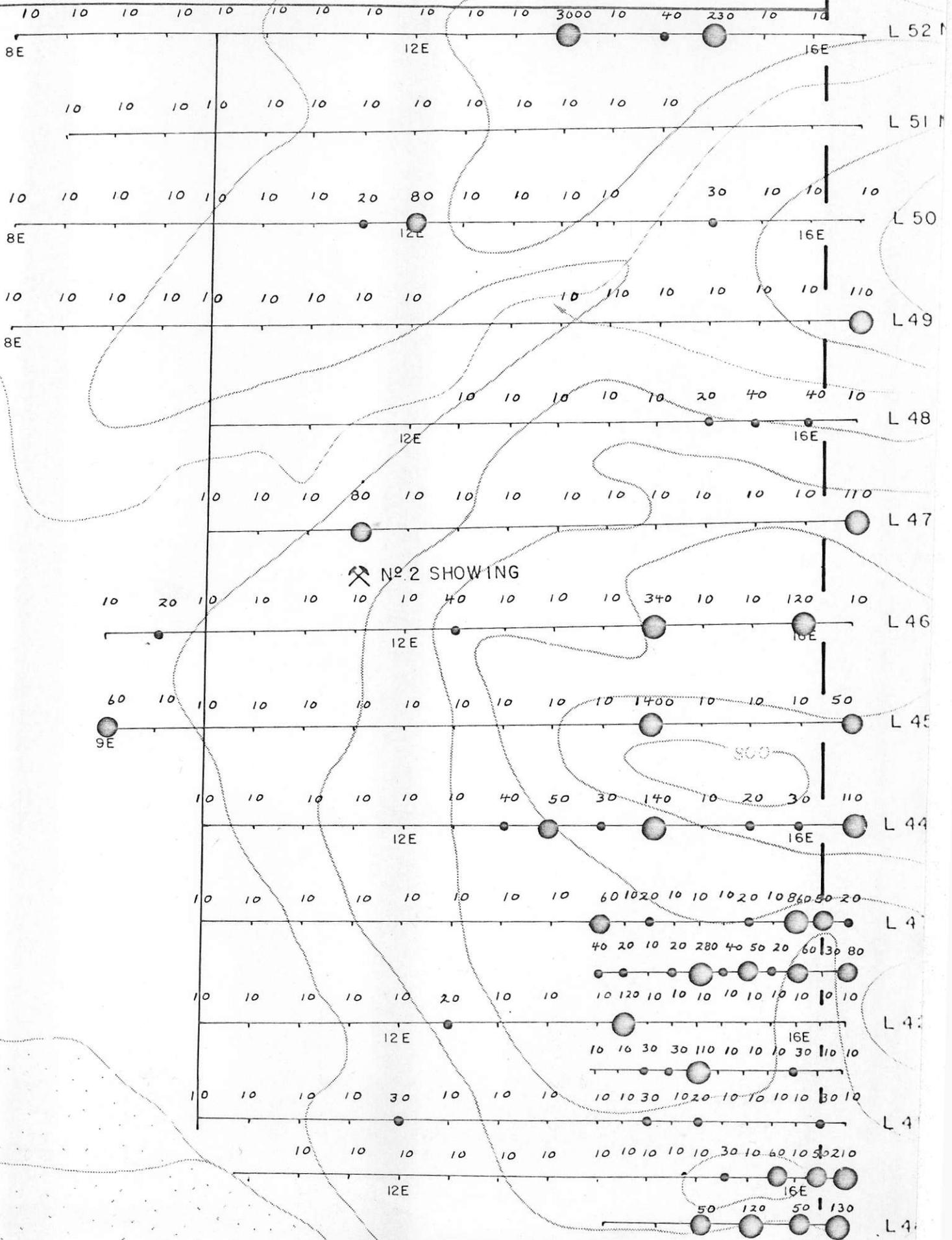
- ABOVE BACKGROUND
20-44 ppb
- ANOMALOUS
45-109 ppb
- HIGHLY ANOMALOUS
> 110 ppb

*R. H. ...
November 14, 1982*

B.V. Hall

<p>APEX ENERGY CORP. HEMLO WEST 14, 15 & 16 M.C. LIARD M.D.-B.C.</p>	
<p>GEOCHEMICAL SURVEY Au RESULTS IN P.P.B.</p>	
<p>SCALE 1:5000</p>	
<p>BY RM, BVH/rwr</p>	<p>NTS 104-B-11</p>
<p>DATE SEPT 1983</p>	<p>FIGURE <u>6</u></p>

B.L. 10E

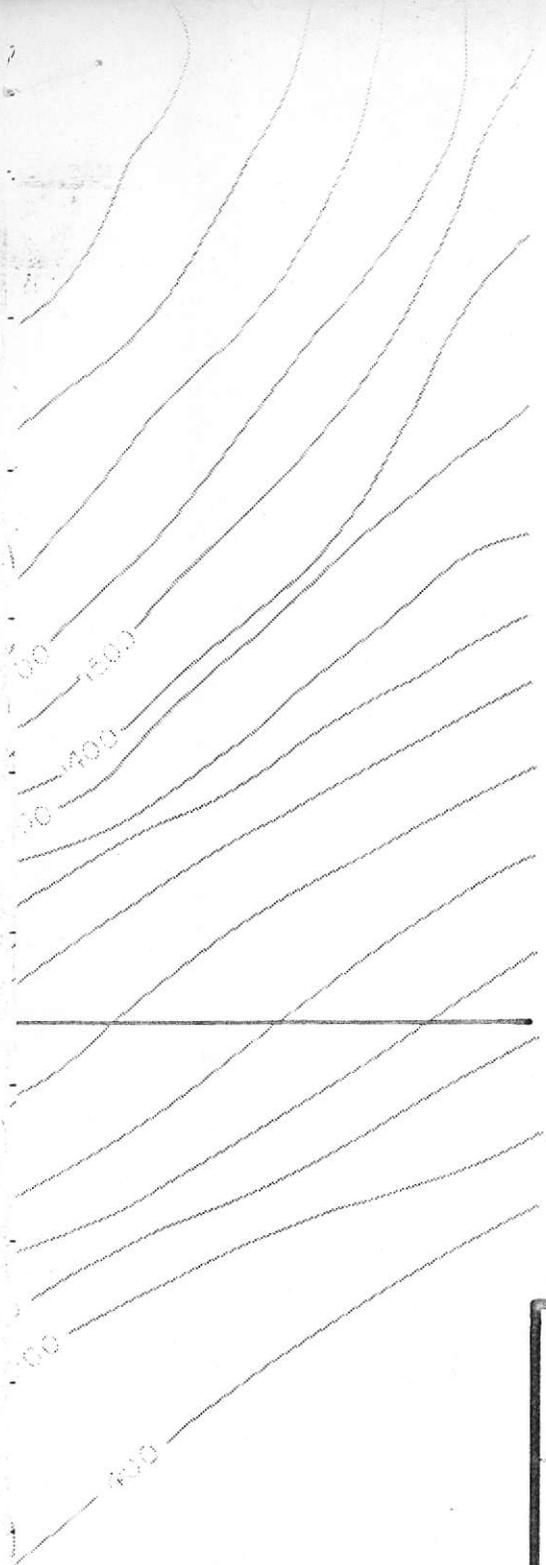


WEST

No 2 SHOWING

500

IP 2 84 N
51



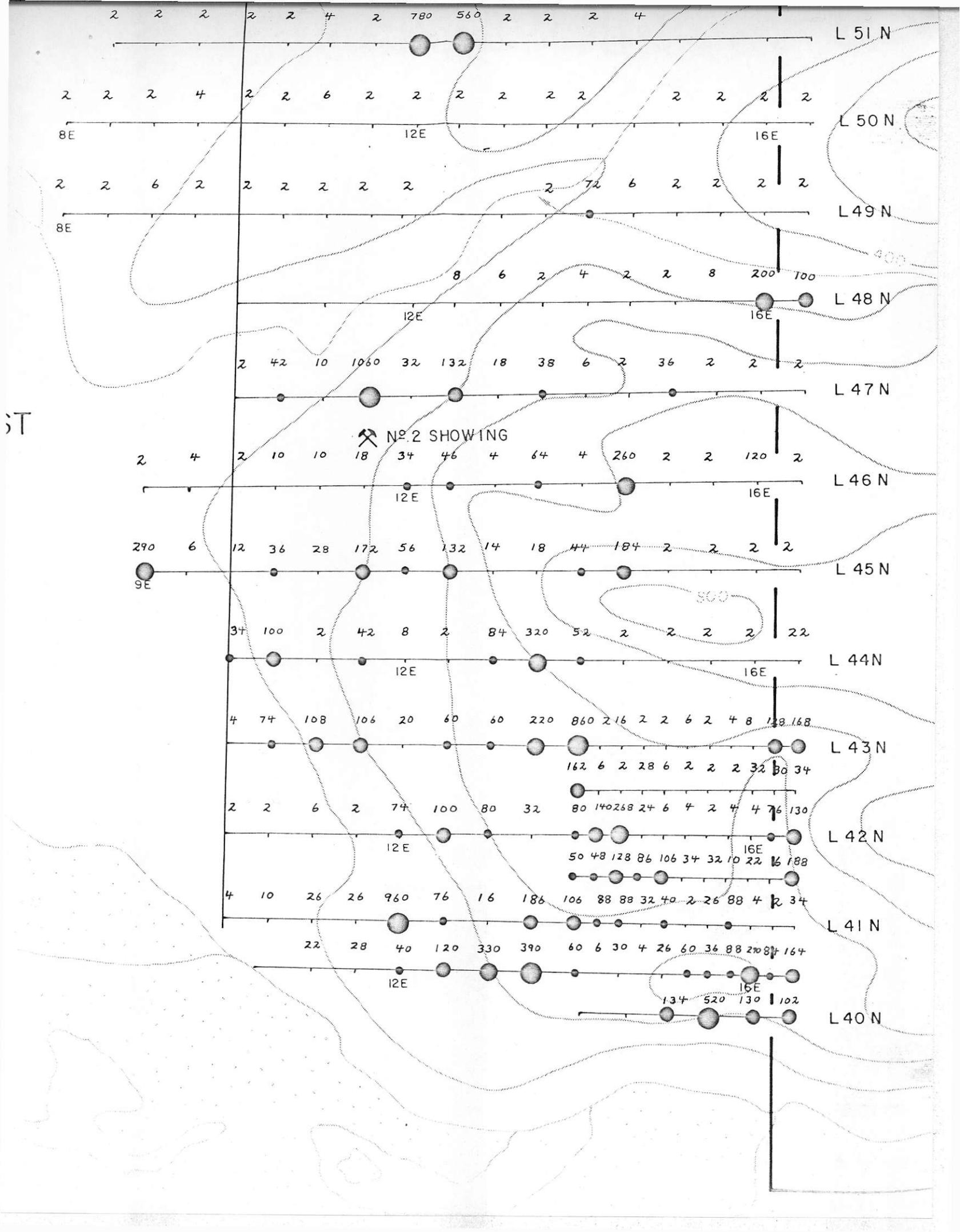
LEGEND:

- ABOVE BACKGROUND
35-94 ppm
- SLIGHTLY ANOMALOUS
95-199 ppm
- ANOMALOUS
200-339 ppm
- HIGHLY ANOMALOUS
>340 ppm

*Approved
November 14, 1983*

BY Hall

<p>APEX ENERGY CORP.</p> <p>HEMLO WEST 14, 15 & 16 M.C. LIARD MD-BC.</p>	
<p>GEOCHEMICAL SURVEY</p> <p>As RESULTS IN P.P.M.</p>	
<p>SCALE 1:5000</p>	
<p>BY RM, BVH./rwr</p> <p>DATE SEPT. 1983</p>	<p>NTS 104-B-II</p> <p>FIGURE 12</p>



B.L. 10E

