

REPORT ON
MAGNETOMETER AND GEOCHEMICAL SURVEY
ON THE
ABERDEEN GROUP

LATITUDE 49° 26.5' LONGITUDE 117° 20.0'
NELSON MINING DIVISION 82 F/6W
BRITISH COLUMBIA

BY: R. E. GALE, P. ENG.

CLAIMS OWNED BY
ASARCO EXPLORATION COMPANY OF CANADA, LTD.

November 28, 1980

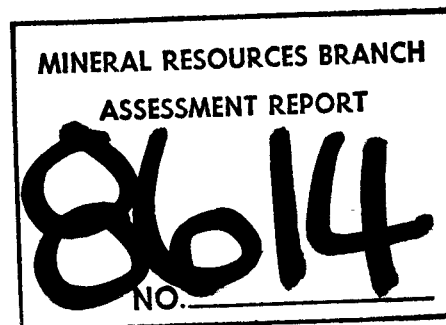


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- Appendix One - Statement of Costs
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INTRODUCTION

Work on the Aberdeen Group of 40 claims was done by W. Fuchter - geologist and J. Mucklow - field assistant during the period from June 27th to August 26th 1980. R. Wahl also worked as a field assistant from July 19th to August 30th. R. E. Gale, D. H. Olson and M. F. Lancaster, Asarco geologists, provided field supervision at intervals totalling 29 days during the period June 3rd through August 30th.

Base map for the work was produced by Pacific Survey Corporation. Initial field work consisted of compass surveying and flagging 25,000 metres of line. This work was followed by soil geochem sampling and magnetometer readings at 50 metre, or in some cases 25 metre intervals. Most of the area is covered so that only a few scattered areas of outcrop were mapped. Cover consists mainly of residual soil with small areas of glacial material.

SUMMARY AND RECOMMENDATIONS

The Silver King Syenite Porphyry Stock occurs at the eastern side of the claims. An 1100 metre wide zone of Rosslund volcano-sedimentary rocks bordering the west contact of the Silver King Syenite intrusion is cut by northerly-trending shear zones mineralized with quartz-carbonate veinlets and disseminated pyrite, and traces of chalcopryrite, lead and zinc. A few large lenticular quartz-chalcopryrite-pyrite veins occur within one of the western-most shear zones.

At several intervals along a 2800 metre strike length of the shear zones, soil geochem sampling indicated zones of anomalous Au, Ag and Cu values in the soils.

The magnetometer survey disclosed a 1500 metre long x 200 metre wide weak magnetic low extending from the southeast portion of the claims to the north central sector. This magnetic low is partly coincident with areas of strong pyrite.

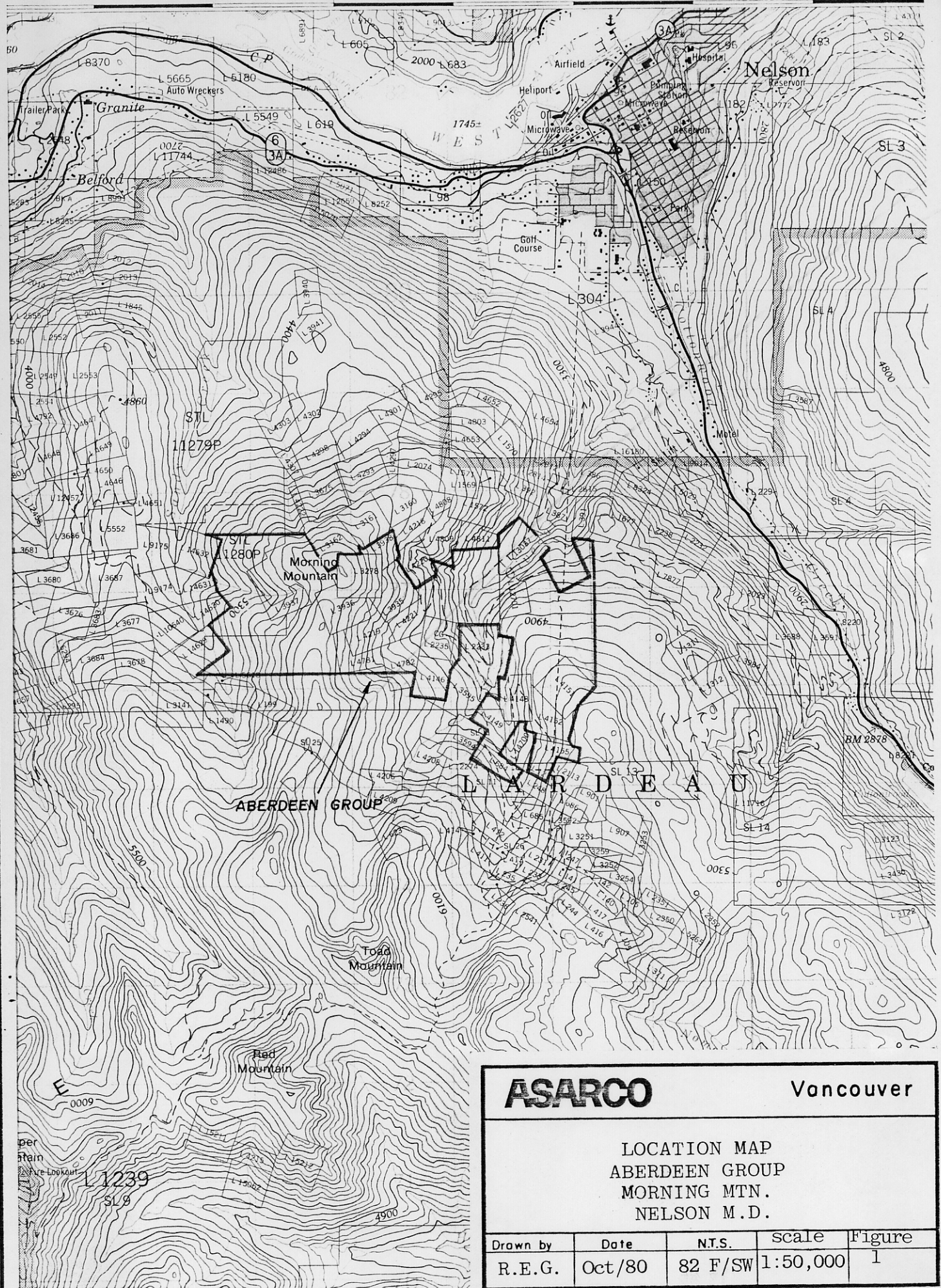
The anomalous geochem results justify further work which should include an I.P. survey and trenching or drilling if the I.P. work proves positive.

PROPERTY - LOCATION AND ACCESS

The Aberdeen claim group is located approximately 6 kms southwest of Nelson on the southeast and southwest slopes of Morning Mountain. (Figure 1) Access is by fairly good gravel road up Giveout Creek. Some road repair work is generally necessary each spring after runoff.

The Aberdeen group comprises 40 claims and units which are wholly owned Crown Grant Claims, claims held under option or by location as follows:

| <u>Asarco Owned Crown Grant Claims</u> | <u>Lot #</u> | <u>Located and Leased Claims</u> | <u>Rec.#</u> | <u># of Units</u> | <u>Claims Under Option</u> | <u>Lot # Rec.#</u> |
|--|--------------|----------------------------------|--------------|-------------------|----------------------------|--------------------|
| Bridseye | L3278 | Gold Eagle | 1302 | 4 | Starlight | L684 |
| Princeton Fr. | L3938 | Gold Eagle#1 Fr. | 1531 | 1 | Black Witch | L4146 |
| | | Gold Eagle#2 | 1532 | 2 | Gold Bell | L4155 |
| | | Gold Eagle#3 | 1533 | 9 | Great Western | 1551 |
| | | Gold Eagle#4 | 1841 | 6 | Great Eastern | 1552 |
| | | Gold Eagle#5 Fr. | 1856 | 1 | Irene | 1553 |
| | | Gold Eagle#6 Fr. | 1857 | 1 | North Star | L4149 |
| | | Lady Aberdeen | 919 | 1 | | |
| | | Minto Fraction | 920 | 1 | | |
| | | Inverness | 918 | 1 | | |
| | | Haddo Fraction | 921 | 1 | | |
| | | Horseshoe | 1307 | 1 | | |
| | | Red Fraction | 1308 | 1 | | |
| | | Tregarden | 1309 | 1 | | |



ASARCO

Vancouver

LOCATION MAP
ABERDEEN GROUP
MORNING MTN.
NELSON M.D.

| Drawn by | Date | N.T.S. | Scale | Figure |
|----------|--------|---------|----------|--------|
| R.E.G. | Oct/80 | 82 F/SW | 1:50,000 | 1 |

HISTORY

The Silver King Mine, about 1000 metres south of the south end of the Aberdeen Group, was one of the earliest copper producers in British Columbia, beginning production about 1889. Over 200,000 tons of copper-silver ore was produced from this mine.

Although several small tunnels and pits dating back to the early 1900's are present on the Starlight, North Star and Birdseye claims, no significant tonnage of mineralized rock is exposed on them and no shipments of ore have been made from these claims.

SURVEY CONTROL

A 1:5000 topographic map and orthophoto with 10 metre contours was prepared as a base map for the area by Pacific Survey Corporation.

A main north-south baseline 1300 metres long was flagged-in along the western summit of Morning Mountain and east-west survey lines L46 through L58 were run off the main grid at 200 metre intervals.

Near the eastern side of the claim group, a secondary north-south baseline 1000 metres long was put in and east-west survey lines L35 through L44 were run off the secondary baseline at 100 metre intervals.

Because of the lack of knowledge of exact locations of claim boundaries and for the sake of completeness of data some overlap of survey coverage onto claims bordering those of the Aberdeen

group has occurred. Figure 2 shows the approximate location of claim boundaries with respect to the survey lines.

Only that portion of the present work falling within the Aberdeen group boundaries is claimed for assessment purposes.

Lines were flagged at 50 metre intervals, or 25 metre intervals in areas of known showings, and soil samples and magnetometer readings were taken at each station.

GEOLOGY

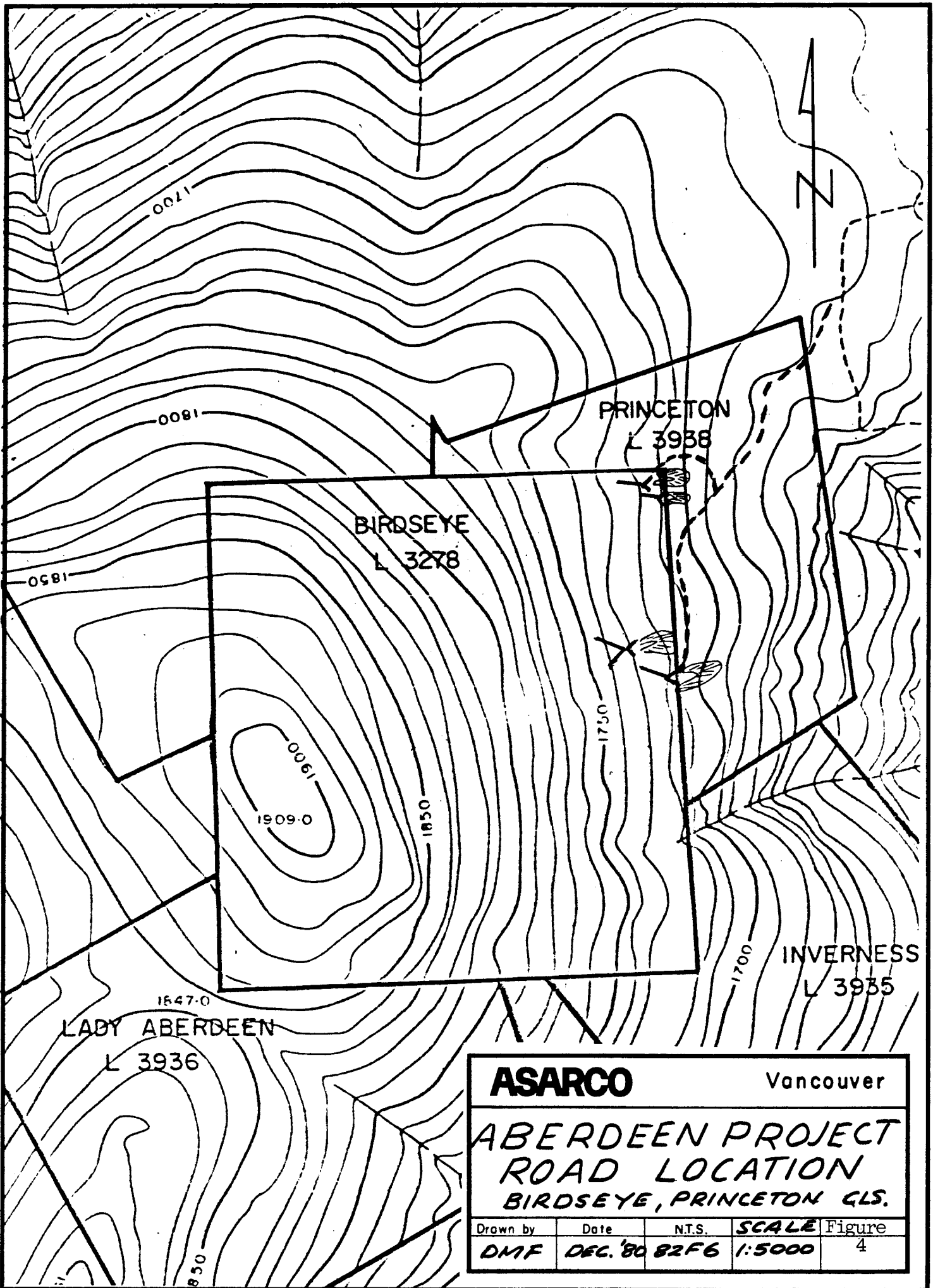
According to Map 1090A accompanying GSC Memoir 308, the area near Morning Mountain consists of rocks of the Lower Jurassic Rossland Formation, andesite flows agglomerate and tuffs with minor shale, intruded by a porphyritic syenite phase of the Mesozoic Nelson plutonic rocks.

Mulligan in GSC Paper 52-13 shows the rocks within the claim area to be undivided Elise and Beaver Mtn. Formations, both being subdivisions within the Rossland volcanics.

Both formations are dominantly volcanic with aphanitic to porphyritic andesitic flows and pyroclastic rocks predominating in the Elise Formation. The Beaver Mtn. Formation, which overlies the Elise Formation, consists chiefly of dark green augite porphyry flows and intrusions.

Outcrop within the area is practically limited to exposures in Giveout Creek, roadcuts and the summits of Morning Mountain. Figure 3 is a schematic representation showing the areas of outcrop, attitude of foliation and the location of old workings.

Near the eastern side of the Aberdeen claim group strongly schistose andesitic tuffs with abundant pyrite outcrop. These



| | | | | |
|--|----------|--------|-----------|--------|
| ASARCO | | | Vancouver | |
| ABERDEEN PROJECT ROAD LOCATION BIRDSEYE, PRINCETON CLS. | | | | |
| Drawn by | Date | N.T.S. | SCALE | Figure |
| DMF | DEC. '80 | 82F6 | 1:5000 | 4 |

rocks grade westerly into massive augite porphyry near the summit of Morning Mountain. Bedding is not apparent in the metamorphosed tuffs but foliation strikes northwest dipping 60° to 70° southwest.

The metamorphosed volcanic rocks are intruded by a stock of syenite porphyry along the eastern edge of the claims.

Scattered quartz-carbonate veinlets occur in the schistose tuffaceous rocks. Some of the pyritized quartz-veined rocks carry low gold values, as on the Starlight, North Star and Birdseye claims.

As part of the present work program, approximately .45 km of new road was built onto the Birdseye claim (Figure 4) to allow re-opening and examination of showings in old tunnels here.

Other recent exploration has been designed to seek out zones of gold mineralization below the extensive covered areas by looking for anomalous gold values in the soils. Also, a magnetometer survey was found useful in defining contacts between the syenite and schists on the east side of the property and the schists and augite porphyry towards the west side of the claims.

GEOCHEMICAL SURVEY

All samples were collected from the C horizon and were submitted to ACME Analytical Labs for analysis for Cu, Mo, Pb, Zn, Ni, Au, Ag.

Lines sampled at 25 metre intervals were as follows.

| | | | | |
|---------------|---------------------|---|-------|---------|
| L34 | 7100 to 7200 metres | = | 5 | samples |
| L35 | 6700 to 7250 | " | = | 23 " |
| L36 | 7100 to 7500 | " | = | 39 " |
| L37 | 6200 to 7500 | " | = | 53 " |
| L38 | 6200 to 6900 | " | = | 29 " |
| L39 | 6200 to 6900 | " | = | 29 " |
| L40 | 6300 to 6900 | " | = | 25 " |
| L41 | 6300 to 6900 | " | = | 25 " |
| L42 | 6200 to 6900 | " | = | 25 " |
| L43 | 6100 to 6900 | " | = | 29 " |
| L44 | 6000 to 6900 | " | = | 33 " |
| L55 | 5200 to 5700 | " | = | 21 " |
| L55+50 | 5450 to 5800 | " | = | 15 " |
| L56 | 5200 to 5700 | " | = | 21 " |
| L56+50 | 5450 to 5800 | " | = | 15 " |
| L57 | 5200 to 5700 | " | = | 21 " |
| L57+50 | 5450 to 5800 | " | = | 15 " |
| L58 | 5200 to 5700 | " | = | 21 " |
| L58+50 | 5450 to 5800 | " | = | 15 " |
| L59 | 5400 to 5700 | " | = | 13 " |
| | | | <hr/> | |
| TOTAL SAMPLES | | | = | 472 |
| | | | <hr/> | |

Lines sampled at 50 metre intervals were as follows:

| | | | | |
|---------------|---------------------|---|-------|---------|
| L45 | 6000 to 6500 metres | = | 11 | samples |
| L46 | 4100 to 6900 | " | = | 57 " |
| L47 | 6000 to 6500 | " | = | 11 " |
| L48 | 4100 to 6900 | " | = | 57 " |
| L50 | 4100 to 6900 | " | = | 57 " |
| L52 | 4100 to 6950 | " | = | 58 " |
| L54 | 4100 to 5900 | " | = | 37 " |
| | 6400 to 6900 | " | = | 11 " |
| L56 | 4100 to 5000 | " | = | 19 " |
| | 6500 to 6900 | " | = | 11 " |
| L58 | 4100 to 4900 | " | = | 17 " |
| | | | <hr/> | |
| TOTAL SAMPLES | | | = | 346 |
| | | | <hr/> | |

Based on the type of mineralization known to occur in the area, the most significant elements which are plotted for the geochem study are copper, gold and silver.

Cumulative frequency diagrams (Figures 5 to 7) for these three elements suggest the following breakdown for background, weakly anomalous, moderately anomalous and strongly anomalous values.

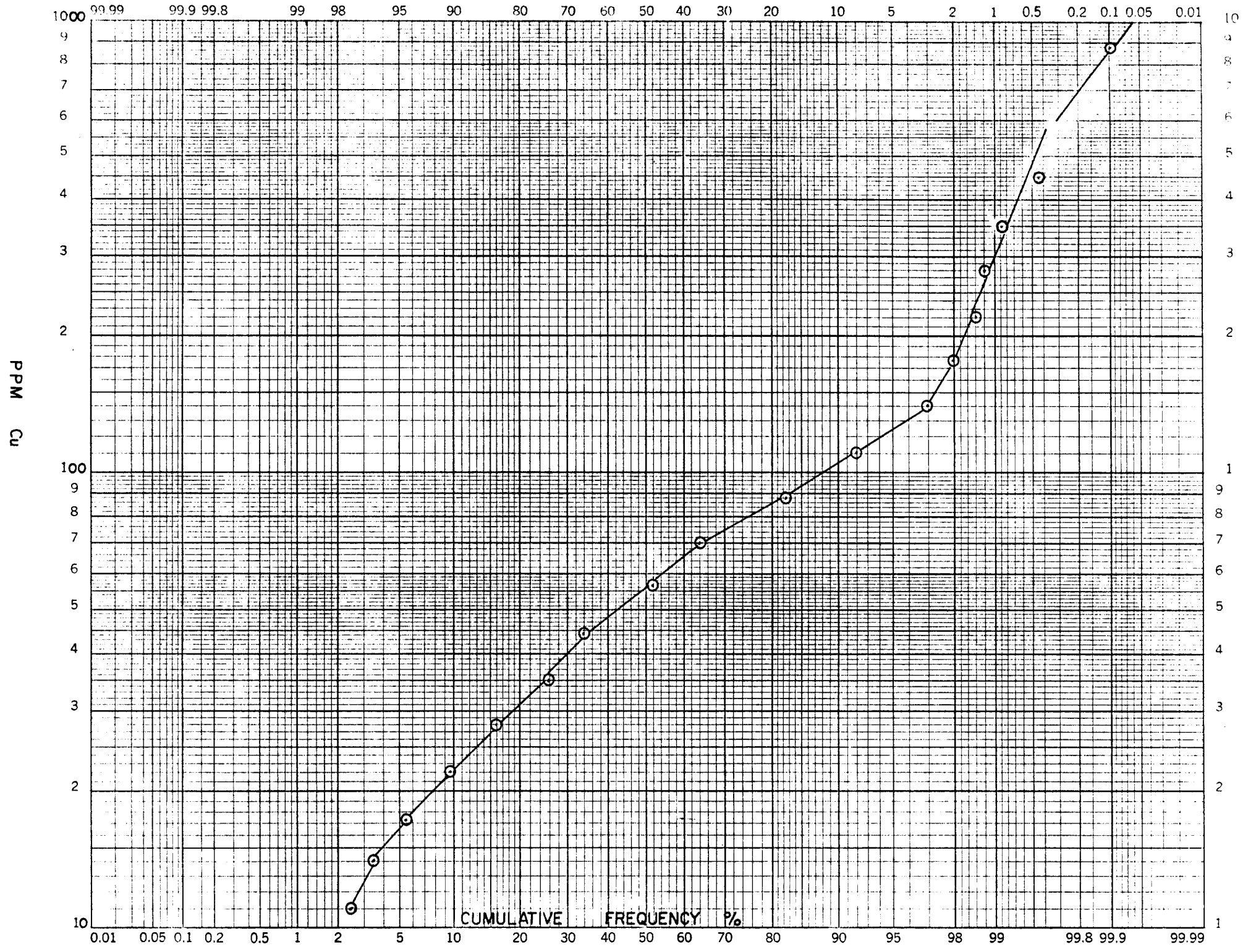


FIGURE 5

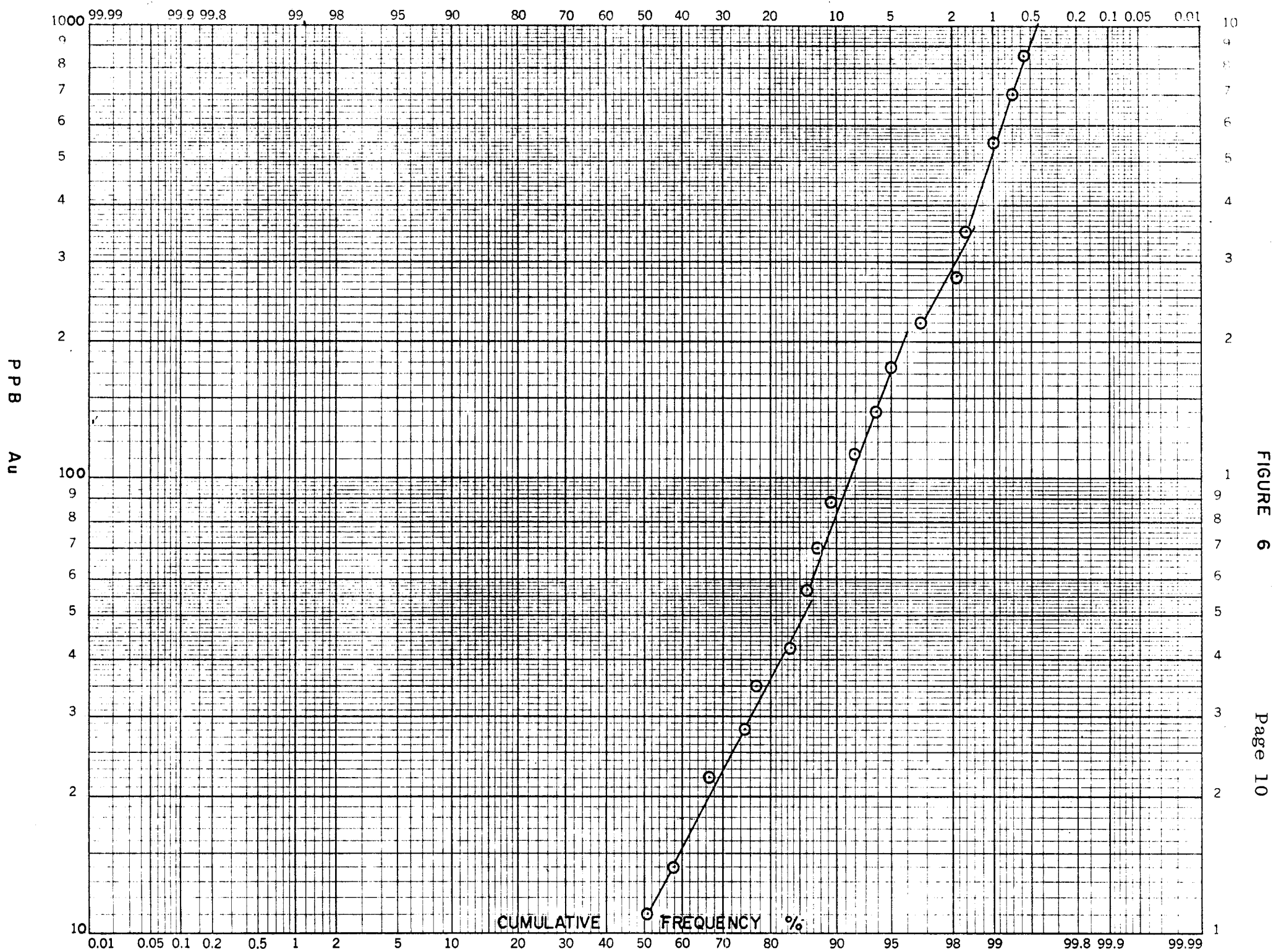


FIGURE 6
Page 10

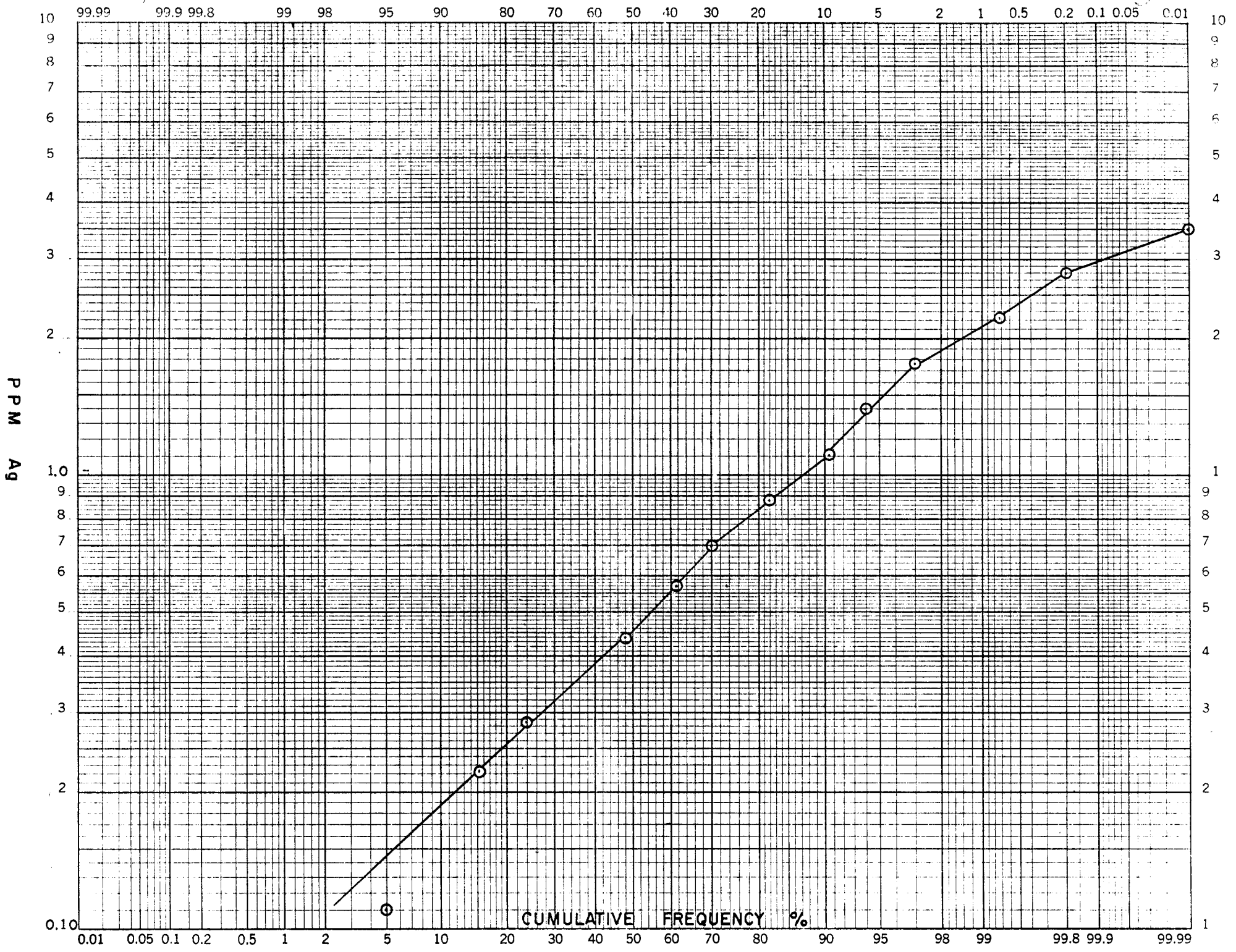


FIGURE 7

| | | | |
|---------------|----------------------|-----------|-----|
| <u>Copper</u> | Background | 0 - 130 | ppm |
| | Weakly anomalous | 130 - 180 | ppm |
| | Moderately anomalous | 180 - 600 | ppm |
| | Strongly anomalous | + 600 | ppm |
| <u>Gold</u> | Background | 0 - 50 | ppb |
| | Weakly anomalous | 50 - 200 | ppb |
| | Moderately anomalous | 200 - 400 | ppb |
| | Strongly anomalous | + 400 | ppb |
| <u>Silver</u> | Background | 0 - 1.1 | ppm |
| | Weakly anomalous | 1.1 - 1.4 | ppm |
| | Moderately anomalous | 1.4 - 2.8 | ppm |
| | Strongly anomalous | + 2.8 | ppm |

DISCUSSION OF GEOCHEMICAL RESULTS

Plotted results for copper soil geochem on Figure 8 show several discontinuous moderately strong anomalies with the best results being downslope from a known quartz copper vein on the Starlight claim. Another anomaly is associated with known occurrences of disseminated copper mineralization on the Princeton and Birdseye claims. Other anomalous areas, although small, may deserve further work where they coincide with anomalous gold or silver values.

In the case of the Au soil geochem, Figure 9, the results for gold show a somewhat more continuous pattern of anomalies trending north to northwest across the North Star, Black Witch and Birdseye claims. Another northerly trending zone of anomalous gold values in soils on the Great Western and other claims appears related to the western contact of the syenite porphyry intrusion. Another apparently significant unrelated anomaly to these two trends occurs on the Lady Aberdeen claim.

On the Starlight, North Star and Great Western claims the Au anomalies are partly explained by known showings of quartz veins in schist carrying some gold values. These and other gold anomalous areas deserve further follow-up work.

Anomalous silver geochem values (Figure 10) in soils tend to support anomalous gold values on the Starlight, North Star and Black Witch claims supporting follow-up work in these areas.

MAGNETOMETER SURVEY

Approximately 25,000 metres of line was surveyed amounting to over 800 station readings.

The magnetometer survey was conducted over the previously established grid of east-west lines, taking readings at 25 metre or in some cases 50 metre intervals.

The instrument used was a Geometrics 826 Proton Precession magnetometer which measures variations in the total intensity of the earth's magnetic field. This magnetometer has a sensitivity of ± 1 gamma over a range from 20,000 to 90,000 gammas. It measures total field and the accuracy of reading is not affected by instrument orientation.

During the survey period, the diurnal variation was checked by tying into base stations at regular intervals and the final results as plotted have been corrected for diurnal variation. (Figure 11)

The magnetometer survey results as plotted in Figure 12 have been reduced by 50,000 gammas for greater ease of plotting.

DISCUSSION OF MAGNETOMETER SURVEY RESULTS

Total magnetic field readings within the area vary from a low of 56,187 gamma on the North Star claim to 59,744 gamma near Morning Mountain.

The most prominent magnetic feature is a weak magnetic low at, or just west of, the presumed contact of schistose volcanic rocks with the syenite porphyry stock near the southeastern side of the claim group.

Along this contact there is an approximate 500 gamma increase in passing from schist on the west into syenite on the east.

Along the western side of the schist belt, which appears to correspond to the weak magnetic low, the magnetic relief rises by about 1000 - 1500 gamma fairly abruptly. This change in magnetic intensity probably marks the transition from altered heavily pyritized schist into a more massive relatively magnetite-rich andesite tuff and/or augite porphyry flow rock.

The zone of magnetic lows running from the Gold Bell claim on the southeast to the Black Witch claim on the northwest is approximately 200 metres wide and 1500 metres long.

If the area of low magnetic intensity readings is related to increased pyrite in the schistose rocks, an I.P. survey would be useful in further defining the limits of better sulfide mineralization. The possibility that increasing gold values may accompany stronger pyrite needs further investigation.

CONCLUSIONS

Scattered weak gold values are associated with pyritized schists on the Aberdeen group and the limits of mineralized rocks are obscured by relatively thin but widespread overburden which appears to be residual soil, in part.

The soil geochemical surveys for Cu, Au and Ag are useful in detecting potential zones of gold mineralization and the ground magnetometer survey appears to outline zones of schistose rocks which could host pyrite-gold mineralization.

Several targets are indicated by this work which should be followed up by an induced polarization survey, and further work such as trenching or drilling if the I.P. results warrant further interest.

R E Gale

R. E. Gale, P. Eng.

November 28, 1980

APPENDIX ONE

STATEMENT OF COSTS

ABERDEEN GROUP

Physical Work

Construction of 0.45 kms new road on Princeton and
Birdseye claims - Kootenay Tractor & Supply Co. Ltd. \$ 3,242.00

Excavation of caved adits on Birdseye claim - Backhoe
15 hrs. @ \$30/hr. - S. Armorsø-Contractor 450.00

TOTAL PHYSICAL WORK \$ 3,692.00
=====

MAGNETIC SURVEY AND
GEOCHEMICAL SURVEY

Wages - Field Work

W. Fuchter - Geologist - 59 days \$ 3,964.80
J. Mucklow - Field Asst. - 55 days 1,478.40
R. Wahl - Field Asst. - 39 days 1,834.56 \$ 7,277.76

Wages - Field Supervision

R. Gale - Geologist - 11 days \$ 1,201.20
D. Olson - Geologist - 8 days 771.12
M. Lancaster - Geologist - 10 days 948.36 2,920.68

Accommodation 1,783.36

Food Costs 2,822.40

Transportation Costs - Truck & Fuel 1,950.20

Supplies 364.90

Topographic Map - Pacific Surveys 1,594.32

Assaying - Acme Labs 4,888.93

Drafting and Report Preparation - 10 days 840.00

TOTAL MAGNETOMETER AND GEOCHEMICAL SURVEY \$ 24,442.55
=====

R E Gale

R. E. Gale, P. Eng.

November 28, 1980



Geochemical Analysis of Cu, Pb, Zn & Ag* & Mo

Sample preparation

Soil samples are dried at 75°C and sieved to -80 mesh.

Rock samples are ground to -100 mesh.

Digestion

A .50 gram sample is digested with dilute aqua regia in boiling water bath and diluted to 10 mls with demineralized water.

Determination

All the above elements are determined by Atomic Absorption from the solution.

* With background correction.

Geochemical Analysis of Au

Digestion and extraction

A 10 gram sample which has been ignited over night at 600°C is digested hot with dilute aqua regia, and the clear solution is extracted with Methyl Isobutyl Ketone.

Determination

Au is determined by AA from the MIBK extractant with background correction.

Geochemical Analysis of Ba

A .100 gram sample is digested hot with NaOH and EDTA solution. The solution is analysis for Ba by Flame Emission.

APPENDIX THREE

GEOCHEMICAL ASSAY RESULTS



To: Asarco Exploration Co. of Canada Ltd.,

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-547

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

Attn.: Mr. Bob Gale

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|----|
| AB 46 4100 | 142 | 2 | 37 | 146 | 35 | .090 | .8 | | | | 1 |
| 4150 | 152 | 1 | 28 | 108 | 33 | .080 | .8 | | | | 2 |
| 4200 | 116 | 1 | 30 | 142 | 27 | .010 | .7 | | | | 3 |
| 4250 | 126 | 2 | 28 | 106 | 24 | .030 | 1.0 | | | | 4 |
| 4300 | 85 | 1 | 23 | 120 | 21 | .030 | .8 | | | | 5 |
| 4350 | 61 | 1 | 47 | 186 | 21 | .020 | .8 | | | | 6 |
| 4400 | 104 | 1 | 29 | 114 | 39 | .005 | .4 | | | | 7 |
| 4450 | 93 | 1 | 29 | 168 | 38 | .020 | .7 | | | | 8 |
| 4500 | 71 | 1 | 25 | 170 | 30 | .020 | .9 | | | | 9 |
| 4550 | 53 | 2 | 26 | 215 | 55 | .020 | .8 | | | | 10 |
| 4600 | 106 | 1 | 24 | 138 | 50 | .050 | .4 | | | | 11 |
| 4650 | 64 | 2 | 25 | 116 | 33 | .050 | .3 | | | | 12 |
| 4700 | 96 | 1 | 72 | 680 | 54 | .030 | .4 | | | | 13 |
| 4750 | 102 | 2 | 30 | 162 | 40 | .030 | .4 | | | | 14 |
| 4800 | 124 | 1 | 21 | 96 | 27 | .020 | .4 | | | | 15 |
| 4850 | 142 | 1 | 17 | 94 | 17 | .005 | .7 | | | | 16 |
| 4900 | 36 | 2 | 12 | 88 | 15 | .005 | .6 | | | | 17 |
| 4950 | 102 | 1 | 15 | 116 | 17 | .540 | .5 | | | | 18 |
| AB 46 5000 | 83 | 1 | 15 | 78 | 29 | .020 | .2 | | | | 19 |
| | | | | | | | | | | | 20 |
| AB 48 4100 | 40 | 1 | 19 | 102 | 19 | .050 | .5 | | | | 21 |
| 4150 | 45 | 1 | 15 | 166 | 33 | .010 | 1.5 | | | | 22 |
| 4200 | 45 | 1 | 16 | 134 | 21 | .005 | 1.2 | | | | 23 |
| 4250 | 42 | 1 | 25 | 140 | 17 | .010 | .7 | | | | 24 |
| 4300 | 51 | 1 | 19 | 130 | 32 | .005 | 1.4 | | | | 25 |
| 4350 | 108 | 1 | 16 | 98 | 43 | .005 | .5 | | | | 26 |
| 4400 | 87 | 1 | 19 | 82 | 33 | .020 | .6 | | | | 27 |
| 4450 | 64 | 2 | 19 | 94 | 36 | .020 | .5 | | | | 28 |
| 4500 | 130 | 1 | 18 | 124 | 46 | .050 | .4 | | | | 29 |
| 4550 | 80 | 1 | 20 | 98 | 46 | .050 | .4 | | | | 30 |
| 4600 | 75 | 1 | 21 | 90 | 30 | .030 | .4 | | | | 31 |
| 4650 | 103 | 1 | 20 | 114 | 25 | .040 | .2 | | | | 32 |
| 4700 | 77 | 1 | 14 | 92 | 29 | .030 | .5 | | | | 33 |
| 4750 | 45 | 1 | 12 | 76 | 12 | .010 | .6 | | | | 34 |
| 4800 | 101 | 1 | 18 | 108 | 28 | .005 | .9 | | | | 35 |
| 4850 | 183 | 1 | 16 | 116 | 36 | .010 | .4 | | | | 36 |
| 4900 | 127 | 1 | 25 | 225 | 23 | .010 | .6 | | | | 37 |
| 4950 | 98 | 1 | 29 | 178 | 44 | .010 | .8 | | | | 38 |
| AB 48 5000 | 152 | 1 | 23 | 245 | 34 | .005 | .7 | | | | 39 |
| | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 11, 1980

DATE REPORTS MAILED July 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



File No. 80-547

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|----|
| AB 50 4100 | 118 | 2 | 16 | 80 | 29 | .030 | .4 | | | | 1 |
| 4150 | 42 | 2 | 15 | 75 | 34 | .005 | 1.0 | | | | 2 |
| 4200 | 77 | 1 | 13 | 85 | 42 | .005 | .4 | | | | 3 |
| 4250 | 39 | 1 | 12 | 72 | 27 | .040 | .2 | | | | 4 |
| 4300 | 115 | 2 | 10 | 60 | 42 | .020 | .4 | | | | 5 |
| 4350 | 76 | 2 | 12 | 90 | 32 | .010 | .2 | | | | 6 |
| 4400 | 103 | 1 | 11 | 64 | 53 | .030 | .2 | | | | 7 |
| 4450 | 51 | 2 | 13 | 75 | 35 | .020 | .4 | | | | 8 |
| 4500 | 77 | 1 | 15 | 76 | 36 | .005 | .2 | | | | 9 |
| 4550 | 75 | 1 | 12 | 70 | 43 | .005 | .2 | | | | 10 |
| 4600 | 47 | 1 | 12 | 65 | 31 | .020 | .2 | | | | 11 |
| 4650 | 90 | 1 | 14 | 70 | 50 | .005 | 1.1 | | | | 12 |
| 4700 | 85 | 1 | 26 | 110 | 39 | .005 | .3 | | | | 13 |
| 4750 | 123 | 1 | 65 | 140 | 41 | .020 | 1.3 | | | | 14 |
| 4800 | 78 | 1 | 17 | 110 | 36 | .005 | .4 | | | | 15 |
| 4850 | 118 | 2 | 25 | 130 | 28 | .005 | .8 | | | | 16 |
| 4900 | 67 | 1 | 13 | 85 | 34 | .005 | .4 | | | | 17 |
| 4950 | 65 | 1 | 14 | 85 | 29 | .005 | .3 | | | | 18 |
| AB 50 5000 | 240 | 3 | 15 | 90 | 42 | .020 | .8 | | | | 19 |
| | | | | | | | | | | | 20 |
| AB 52 4100 | 60 | 1 | 12 | 75 | 24 | .010 | .7 | | | | 21 |
| 4150 | 74 | 1 | 16 | 120 | 34 | .040 | .5 | | | | 22 |
| 4200 | 86 | 1 | 17 | 90 | 27 | .005 | 1.7 | | | | 23 |
| 4250 | 38 | 1 | 13 | 115 | 20 | .005 | .5 | | | | 24 |
| 4300 | 102 | 1 | 14 | 115 | 38 | .005 | .9 | | | | 25 |
| 4350 | 50 | 1 | 10 | 110 | 29 | .020 | .4 | | | | 26 |
| 4400 | 58 | 1 | 11 | 108 | 39 | .005 | .7 | | | | 27 |
| 4450 | 53 | 1 | 13 | 100 | 37 | .005 | .5 | | | | 28 |
| 4500 | 46 | 1 | 10 | 85 | 27 | .005 | .8 | | | | 29 |
| 4550 | 42 | 1 | 10 | 100 | 29 | .005 | .2 | | | | 30 |
| 4600 | 90 | 2 | 13 | 135 | 45 | .060 | .1 | | | | 31 |
| 4650 | 79 | 1 | 21 | 100 | 43 | .005 | .8 | | | | 32 |
| 4700 | 84 | 1 | 13 | 140 | 45 | .005 | .4 | | | | 33 |
| 4750 | 71 | 1 | 19 | 120 | 41 | .005 | .4 | | | | 34 |
| 4800 | 87 | 1 | 20 | 140 | 41 | .005 | .9 | | | | 35 |
| 4850 | 68 | 1 | 19 | 120 | 39 | .005 | .7 | | | | 36 |
| 4900 | 92 | 1 | 18 | 115 | 47 | .030 | .6 | | | | 37 |
| 4950 | 61 | 1 | 16 | 110 | 39 | .005 | .2 | | | | 38 |
| AB 52 5000 | 50 | 1 | 16 | 100 | 40 | .005 | .4 | | | | 39 |
| | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July, 11, 1980

DATE REPORTS MAILED July, 22, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-547

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Table with columns: SAMPLE No., Cu, Mo, Pb, Zn, Ni, Au, Ag, and a column for sample numbers 1-40. Rows include sample groups AB 54, AB 56, and AB 56 with their respective assay values.

All reports are the confidential property of clients. All results are in PPM.

DIGESTION:..... DETERMINATION:.....

DATE SAMPLES RECEIVED July 11, 1980

DATE REPORTS MAILED July 22, 1980

ASSAYER

DEAN TOYE, B.Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.,

852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone: 253 - 3158

File No. 80-547

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Table with columns: SAMPLE No., Cu, Mo, Pb, Zn, Ni, Au, Ag, and a column for sample numbers 1-40. Data rows include AB 58 4100 through AB 58 4900.

All reports are the confidential property of clients. Results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 11, 1980

DATE REPORTS MAILED July 22, 1980

ASSAYER

DEAN TOYE, B.Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd., 852 E. Hastings St., Vancouver, B.C. V6A 1R6
504 - 535 Thurlow St.,
Vancouver, B.C.
V6E 3L2
phone:253 - 3158

File No. 80-600
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Table with columns: SAMPLE No., Cu, Mo, Pb, Zn, Ni, Au, Ag, and a row index column (1-40). Rows include sample IDs like AB34, AB35, AB36 and their corresponding assay values for various elements.

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED July 15, 1980

DATE REPORTS MAILED July 28, 1980

ASSAYER [Signature]

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.,

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-600

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|--|----|
| AB36 7300 | 250 | 2 | 19 | 54 | 37 | .010 | .4 | | | | | 1 |
| 7325 | 104 | 3 | 16 | 82 | 52 | .030 | .5 | | | | | 2 |
| 7350 | 28 | 1 | 14 | 54 | 22 | .170 | .9 | | | | | 3 |
| 7375 | 47 | 1 | 15 | 64 | 34 | .130 | .8 | | | | | 4 |
| 7400 | 32 | 1 | 13 | 68 | 22 | .060 | .7 | | | | | 5 |
| 7425 | 465 | 2 | 12 | 96 | 64 | .045 | .4 | | | | | 6 |
| 7450 | 40 | 1 | 12 | 48 | 19 | .080 | .5 | | | | | 7 |
| 7475 | 18 | 1 | 14 | 50 | 17 | .060 | .5 | | | | | 8 |
| AB36 7500 | 15 | 1 | 13 | 48 | 14 | .135 | .7 | | | | | 9 |
| | | | | | | | | | | | | 10 |
| AB37 7100 | 12 | 1 | 11 | 42 | 8 | .190 | .6 | | | | | 11 |
| 7125 | 6 | 1 | 13 | 32 | 5 | .070 | .3 | | | | | 12 |
| 7150 | 14 | 1 | 14 | 44 | 10 | .030 | .5 | | | | | 13 |
| 7175 | 25 | 1 | 12 | 46 | 9 | .240 | .3 | | | | | 14 |
| 7200 | 18 | 1 | 18 | 54 | 10 | .370 | .4 | | | | | 15 |
| 7225 | 39 | 1 | 14 | 36 | 14 | .110 | .4 | | | | | 16 |
| 7250 | 132 | 1 | 31 | 66 | 19 | .100 | 1.3 | | | | | 17 |
| 7275 | 25 | 1 | 17 | 32 | 14 | .150 | 1.7 | | | | | 18 |
| 7300 | 22 | 1 | 15 | 34 | 14 | .120 | .6 | | | | | 19 |
| 7325 | 11 | 1 | 12 | 30 | 7 | .200 | .4 | | | | | 20 |
| 7350 | 14 | 1 | 16 | 32 | 10 | .060 | .4 | | | | | 21 |
| 7375 | 12 | 1 | 15 | 46 | 11 | .240 | .2 | | | | | 22 |
| 7400 | 12 | 1 | 15 | 32 | 6 | .250 | .4 | | | | | 23 |
| 7425 | 13 | 1 | 14 | 28 | 7 | .120 | .5 | | | | | 24 |
| 7450 | 30 | 1 | 7 | 20 | 6 | .270 | .2 | | | | | 25 |
| 7475 | 19 | 1 | 12 | 30 | 14 | .100 | .5 | | | | | 26 |
| AB37 7500 | 100 | 1 | 15 | 52 | 41 | .100 | .6 | | | | | 27 |
| | | | | | | | | | | | | 28 |
| AB42 6600 | 54 | 1 | 16 | 110 | 21 | .030 | .4 | | | | | 29 |
| 6625 | 50 | 1 | 24 | 122 | 28 | .060 | .6 | | | | | 30 |
| 6650 | 88 | 1 | 20 | 110 | 30 | .060 | .8 | | | | | 31 |
| 6675 | 78 | 1 | 25 | 136 | 32 | .280 | .9 | | | | | 32 |
| 6700 | 76 | 2 | 18 | 108 | 28 | .230 | 1.0 | | | | | 33 |
| 6725 | 56 | 1 | 17 | 84 | 26 | .010 | 2.0 | | | | | 34 |
| AB42 6750 | 56 | 1 | 16 | 60 | 18 | .010 | 1.1 | | | | | 35 |
| | | | | | | | | | | | | 36 |
| | | | | | | | | | | | | 37 |
| | | | | | | | | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

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All results are in PPM.

DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED July 15, 1980

DATE REPORTS MAILED July 28, 1980

ASSAYER *[Signature]*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 80-600

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|-----|----|-----|-----|----|------|-----|--|--|--|--|----|
| AB46 5050 | 78 | 1 | 19 | 134 | 33 | .010 | .2 | | | | | 1 |
| 5100 | 98 | 2 | 21 | 142 | 43 | .005 | .1 | | | | | 2 |
| 5150 | 76 | 1 | 22 | 134 | 45 | .005 | .1 | | | | | 3 |
| 5200 | 54 | 1 | 19 | 172 | 30 | .005 | .5 | | | | | 4 |
| 5250 | 128 | 2 | 22 | 150 | 36 | .005 | .2 | | | | | 5 |
| 5300 | 106 | 1 | 25 | 172 | 38 | .020 | .7 | | | | | 6 |
| 5350 | 108 | 1 | 28 | 110 | 50 | .040 | .1 | | | | | 7 |
| 5400 | 146 | 1 | 24 | 196 | 50 | .005 | .7 | | | | | 8 |
| 5450 | 104 | 1 | 23 | 198 | 40 | .005 | .6 | | | | | 9 |
| 5500 | 130 | 1 | 25 | 168 | 47 | .005 | .4 | | | | | 10 |
| 5550 | 82 | 1 | 22 | 170 | 39 | .005 | .7 | | | | | 11 |
| 5600 | 54 | 1 | 19 | 150 | 22 | .010 | .6 | | | | | 12 |
| 5650 | 70 | 1 | 45 | 200 | 25 | .005 | .5 | | | | | 13 |
| 5700 | 50 | 1 | 27 | 124 | 20 | .010 | .5 | | | | | 14 |
| 5750 | 64 | 1 | 34 | 190 | 26 | .005 | .8 | | | | | 15 |
| 5800 | 58 | 1 | 19 | 118 | 29 | .005 | .7 | | | | | 16 |
| 5850 | 68 | 1 | 44 | 320 | 26 | .030 | 1.3 | | | | | 17 |
| 5900 | 47 | 2 | 114 | 330 | 29 | .005 | 2.7 | | | | | 18 |
| 5950 | 86 | 1 | 17 | 90 | 31 | .010 | .4 | | | | | 19 |
| 6000 | 88 | 2 | 30 | 140 | 28 | .005 | 1.4 | | | | | 20 |
| 6050 | 124 | 1 | 23 | 146 | 23 | .005 | 1.6 | | | | | 21 |
| 6100 | 86 | 1 | 21 | 118 | 26 | .010 | 1.0 | | | | | 22 |
| 6150 | 62 | 2 | 30 | 186 | 39 | .010 | .9 | | | | | 23 |
| AB46 6200 | 42 | 2 | 17 | 172 | 28 | .005 | .7 | | | | | 24 |
| | | | | | | | | | | | | 25 |
| AB48 5050 | 166 | 1 | 26 | 320 | 34 | .005 | .5 | | | | | 26 |
| 5100 | 110 | 1 | 29 | 340 | 25 | .005 | .5 | | | | | 27 |
| 5150 | 114 | 1 | 18 | 260 | 28 | .005 | .3 | | | | | 28 |
| 5200 | 102 | 1 | 24 | 210 | 34 | .005 | .5 | | | | | 29 |
| 5250 | 128 | 1 | 39 | 240 | 36 | .005 | .9 | | | | | 30 |
| 5300 | 118 | 1 | 31 | 170 | 38 | .005 | 2.1 | | | | | 31 |
| 5350 | 136 | 2 | 29 | 116 | 48 | .025 | .1 | | | | | 32 |
| 5400 | 126 | 2 | 27 | 140 | 47 | .010 | .3 | | | | | 33 |
| 5450 | 88 | 1 | 24 | 160 | 42 | .015 | .4 | | | | | 34 |
| 5500 | 106 | 1 | 24 | 130 | 41 | .005 | .4 | | | | | 35 |
| 5550 | 43 | 1 | 18 | 184 | 28 | .125 | .6 | | | | | 36 |
| 5600 | 108 | 3 | 19 | 120 | 38 | .045 | .1 | | | | | 37 |
| AB48 5650 | 76 | 1 | 22 | 146 | 35 | .005 | .4 | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 15, 1980

DATE REPORTS MAILED July 28, 1980

ASSAYER *Dean Toy*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 80-600

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|----|
| AB48 5700 | 52 | 1 | 23 | 128 | 31 | .020 | .5 | | | | 1 |
| 5750 | 96 | 2 | 28 | 192 | 46 | .030 | .7 | | | | 2 |
| 5800 | 52 | 2 | 30 | 210 | 34 | .030 | 1.3 | | | | 3 |
| 5850 | 96 | 1 | 23 | 130 | 46 | .040 | .6 | | | | 4 |
| 5900 | 94 | 1 | 21 | 90 | 32 | .020 | .5 | | | | 5 |
| 5950 | 84 | 1 | 19 | 120 | 44 | .040 | .3 | | | | 6 |
| 6000 | 56 | 2 | 19 | 100 | 26 | .010 | .5 | | | | 7 |
| 6050 | 78 | 1 | 23 | 122 | 37 | .310 | .5 | | | | 8 |
| 6100 | 54 | 2 | 19 | 168 | 22 | .005 | .8 | | | | 9 |
| 6150 | 94 | 2 | 24 | 100 | 41 | .020 | .2 | | | | 10 |
| 6200 | 124 | 2 | 23 | 146 | 38 | .570 | .7 | | | | 11 |
| 6250 | 44 | 1 | 17 | 84 | 24 | .040 | .5 | | | | 12 |
| AB48 6300 | 26 | 1 | 19 | 120 | 21 | .005 | .3 | | | | 13 |
| | | | | | | | | | | | 14 |
| AB50 5050 | 14 | 1 | 18 | 120 | 31 | .005 | .1 | | | | 15 |
| 5100 | 43 | 2 | 16 | 158 | 18 | .005 | .8 | | | | 16 |
| 5150 | 114 | 2 | 17 | 130 | 38 | .020 | .3 | | | | 17 |
| 5200 | 78 | 1 | 20 | 154 | 34 | .005 | .7 | | | | 18 |
| 5250 | 98 | 1 | 29 | 160 | 51 | .070 | .8 | | | | 19 |
| 5300 | 80 | 1 | 26 | 230 | 36 | .020 | .6 | | | | 20 |
| 5350 | 150 | 1 | 26 | 190 | 58 | .220 | 1.0 | | | | 21 |
| 5400 | 86 | 1 | 27 | 170 | 37 | .030 | .6 | | | | 22 |
| 5450 | 124 | 1 | 30 | 164 | 42 | .850 | .5 | | | | 23 |
| 5500 | 52 | 1 | 21 | 104 | 33 | .020 | .6 | | | | 24 |
| 5550 | 120 | 1 | 18 | 122 | 38 | .070 | .1 | | | | 25 |
| 5600 | 62 | 1 | 16 | 122 | 33 | .020 | .3 | | | | 26 |
| 5650 | 96 | 1 | 21 | 118 | 37 | .020 | .5 | | | | 27 |
| 5700 | 94 | 1 | 20 | 124 | 35 | .010 | .4 | | | | 28 |
| 5750 | 110 | 2 | 20 | 108 | 40 | .030 | .5 | | | | 29 |
| 5800 | 80 | 1 | 21 | 92 | 43 | .020 | .5 | | | | 30 |
| 5850 | 122 | 1 | 24 | 94 | 46 | .070 | .3 | | | | 31 |
| 5900 | 84 | 1 | 16 | 100 | 43 | .010 | .2 | | | | 32 |
| 5950 | 134 | 1 | 16 | 88 | 37 | .020 | .6 | | | | 33 |
| 6000 | 76 | 1 | 25 | 92 | 35 | .010 | .4 | | | | 34 |
| 6050 | 66 | 2 | 21 | 88 | 32 | .030 | .6 | | | | 35 |
| 6100 | 72 | 2 | 21 | 102 | 36 | .020 | .5 | | | | 36 |
| 6150 | 82 | 2 | 22 | 118 | 37 | .010 | .9 | | | | 37 |
| 6200 | 94 | 1 | 24 | 114 | 41 | .010 | .9 | | | | 38 |
| 6250 | 78 | 2 | 29 | 96 | 32 | .005 | .6 | | | | 39 |
| AB50 6300 | 64 | 1 | 17 | 128 | 28 | .010 | .8 | | | | 40 |

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All results are in PPM.

REGISTRATION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED July 15, 1980

DATE REPORTS MAILED July 28, 1980

ASSAYER *Dean Toy*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.,
504 - 535 Thurlow St.,
Vancouver, B.C.
V6E 3L2

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

80-667

File No. _____

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

Attn.: Mr. R.E. Gale

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|------|----|-----|-----|----|-------|------|--|--|--|--|----|
| AB36 6550 | 88 | 1 | 25 | 120 | 39 | .005 | .3 | | | | | 1 |
| 6575 | 112 | 1 | 23 | 152 | 43 | .005 | .2 | | | | | 2 |
| 6600 | 46 | 1 | 25 | 128 | 23 | .005 | .6 | | | | | 3 |
| 6625 | 61 | 1 | 21 | 88 | 11 | .005 | .4 | | | | | 4 |
| 6650 | 82 | 1 | 22 | 144 | 17 | .005 | .5 | | | | | 5 |
| 6675 | 89 | 1 | 42 | 148 | 26 | .005 | .8 | | | | | 6 |
| 6700 | 3800 | 2 | 54 | 188 | 28 | +4ppm | 25.0 | | | | | 7 |
| 6725 | 820 | 2 | 275 | 365 | 25 | .660 | 3.0 | | | | | 8 |
| 6750 | 430 | 1 | 170 | 378 | 19 | .130 | 3.8 | | | | | 9 |
| 6775 | 880 | 1 | 72 | 640 | 28 | .040 | 2.0 | | | | | 10 |
| AB36 6800 | 410 | 1 | 34 | 272 | 17 | .005 | 2.0 | | | | | 11 |
| | | | | | | | | | | | | 12 |
| AB52 5050 | 32 | 1 | 26 | 80 | 62 | .005 | .8 | | | | | 13 |
| 5100 | 25 | 1 | 23 | 52 | 17 | .030 | .9 | | | | | 14 |
| 5150 | 70 | 1 | 34 | 138 | 60 | .010 | .2 | | | | | 15 |
| 5200 | 70 | 1 | 31 | 132 | 42 | .020 | .6 | | | | | 16 |
| 5250 | 82 | 1 | 61 | 285 | 68 | .005 | .2 | | | | | 17 |
| 5300 | 52 | 1 | 32 | 132 | 40 | .120 | .5 | | | | | 18 |
| 5350 | 60 | 2 | 32 | 274 | 30 | .080 | .5 | | | | | 19 |
| 5400 | 82 | 1 | 26 | 132 | 33 | .290 | .4 | | | | | 20 |
| 5450 | 60 | 1 | 22 | 162 | 27 | .030 | .4 | | | | | 21 |
| 5500 | 55 | 1 | 23 | 132 | 33 | .010 | .9 | | | | | 22 |
| 5550 | 100 | 1 | 23 | 128 | 31 | .005 | .7 | | | | | 23 |
| 5600 | 31 | 1 | 18 | 70 | 29 | .020 | .2 | | | | | 24 |
| 5650 | 75 | 1 | 24 | 112 | 34 | .005 | .2 | | | | | 25 |
| 5700 | 40 | 1 | 20 | 118 | 21 | .005 | .2 | | | | | 26 |
| 5750 | 31 | 1 | 23 | 105 | 64 | .070 | .3 | | | | | 27 |
| 5800 | 39 | 1 | 23 | 88 | 31 | .010 | .3 | | | | | 28 |
| 5850 | 35 | 1 | 24 | 102 | 20 | .030 | .6 | | | | | 29 |
| 5900 | 58 | 1 | 50 | 154 | 38 | .010 | .6 | | | | | 30 |
| 5950 | 142 | 1 | 23 | 102 | 50 | .020 | .5 | | | | | 31 |
| 6000 | 20 | 1 | 22 | 88 | 23 | .270 | .7 | | | | | 32 |
| 6050 | 28 | 1 | 20 | 76 | 44 | .040 | .3 | | | | | 33 |
| 6100 | 16 | 1 | 25 | 86 | 18 | .005 | .6 | | | | | 34 |
| 6150 | 36 | 1 | 33 | 148 | 27 | .005 | .5 | | | | | 35 |
| 6200 | 29 | 1 | 23 | 124 | 26 | .005 | .6 | | | | | 36 |
| 6250 | 65 | 1 | 27 | 116 | 30 | .005 | .3 | | | | | 37 |
| AB52 6300 | 52 | 1 | 30 | 148 | 56 | .005 | .3 | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

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All results are in PPM.

DISPOSITION: _____
DETERMINATION: _____

DATE SAMPLES RECEIVED July 24, 1980

DATE REPORTS MAILED Aug. 2, 1980

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd., 852 E. Hastings St., Vancouver, B.C. V6A 1R6

phone:253 - 3158

File No. 80-667

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|----|
| AB52 6350 | 35 | 2 | 40 | 128 | 38 | .040 | .4 | | | | 1 |
| 6400 | 11 | 1 | 44 | 156 | 13 | .005 | .3 | | | | 2 |
| 6450 | 45 | 2 | 25 | 90 | 25 | .020 | 2.1 | | | | 3 |
| 6500 | 47 | 1 | 25 | 118 | 26 | .020 | .4 | | | | 4 |
| 6550 | 62 | 1 | 21 | 90 | 29 | .020 | .2 | | | | 5 |
| 6600 | 39 | 1 | 25 | 128 | 26 | .020 | .3 | | | | 6 |
| 6650 | 76 | 1 | 32 | 88 | 25 | .030 | .9 | | | | 7 |
| 6700 | 91 | 1 | 37 | 104 | 30 | .090 | .5 | | | | 8 |
| 6750 | 130 | 1 | 28 | 76 | 31 | .510 | .6 | | | | 9 |
| 6800 | 34 | 1 | 40 | 88 | 23 | .030 | .2 | | | | 10 |
| 6850 | 12 | 1 | 22 | 74 | 14 | .030 | .2 | | | | 11 |
| 6900 | 17 | 1 | 28 | 96 | 19 | .010 | .1 | | | | 12 |
| AB52 6950 | 9 | 1 | 38 | 62 | 11 | .005 | .3 | | | | 13 |
| | | | | | | | | | | | 14 |
| AB54 5050 | 27 | 1 | 26 | 74 | 24 | .005 | .3 | | | | 15 |
| 5100 | 42 | 2 | 26 | 98 | 29 | .005 | .2 | | | | 16 |
| 5150 | 24 | 1 | 34 | 188 | 38 | .010 | .2 | | | | 17 |
| 5200 | 106 | 1 | 35 | 192 | 50 | .030 | .4 | | | | 18 |
| 5250 | 60 | 1 | 22 | 124 | 43 | .040 | .4 | | | | 19 |
| 5300 | 151 | 1 | 27 | 116 | 64 | .020 | .3 | | | | 20 |
| 5350 | 100 | 1 | 22 | 102 | 58 | .010 | .6 | | | | 21 |
| 5400 | 88 | 1 | 23 | 110 | 47 | .010 | .1 | | | | 22 |
| 5450 | 75 | 1 | 25 | 146 | 50 | .030 | .5 | | | | 23 |
| 5500 | 45 | 1 | 22 | 124 | 37 | .050 | .5 | | | | 24 |
| 5550 | 51 | 1 | 25 | 112 | 38 | .210 | .2 | | | | 25 |
| 5600 | 91 | 1 | 27 | 116 | 42 | .010 | .1 | | | | 26 |
| 5650 | 37 | 1 | 24 | 178 | 42 | .030 | .5 | | | | 27 |
| 5700 | 37 | 1 | 23 | 100 | 34 | .010 | .5 | | | | 28 |
| 5750 | 89 | 1 | 22 | 96 | 41 | .030 | .3 | | | | 29 |
| 5800 | 91 | 1 | 26 | 124 | 45 | .160 | .7 | | | | 30 |
| 5850 | 101 | 1 | 23 | 152 | 32 | .030 | .7 | | | | 31 |
| AB54 5900 | 67 | 1 | 25 | 136 | 49 | .010 | .9 | | | | 32 |
| | | | | | | | | | | | 33 |
| AB55 5200 | 67 | 1 | 22 | 115 | 40 | .005 | .6 | | | | 34 |
| 5225 | 43 | 1 | 19 | 160 | 40 | .005 | .2 | | | | 35 |
| 5250 | 89 | 1 | 27 | 130 | 78 | .020 | .2 | | | | 36 |
| 5275 | 41 | 1 | 25 | 94 | 52 | .010 | .5 | | | | 37 |
| AB55 5300 | 83 | 1 | 29 | 118 | 35 | .005 | .2 | | | | 38 |
| | | | | | | | | | | | 39 |
| | | | | | | | | | | | 40 |

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All results are in PPM.

DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED July 24, 1980

DATE REPORTS MAILED Aug. 2, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



File No. 80-667

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|-----|----|----|-----|----|------|----|--|--|--|----|
| AB55 5325 | 105 | 1 | 28 | 88 | 31 | .010 | .6 | | | | 1 |
| 5350 | 24 | 1 | 21 | 72 | 24 | .005 | .3 | | | | 2 |
| 5375 | 41 | 1 | 25 | 104 | 30 | .005 | .4 | | | | 3 |
| 5400 | 57 | 1 | 24 | 122 | 38 | .005 | .3 | | | | 4 |
| 5425 | 75 | 1 | 27 | 132 | 38 | .010 | .2 | | | | 5 |
| 5450 | 18 | 1 | 12 | 41 | 18 | .020 | .1 | | | | 6 |
| 5475 | 22 | 1 | 19 | 102 | 26 | .005 | .2 | | | | 7 |
| 5500 | 29 | 1 | 19 | 122 | 34 | .005 | .2 | | | | 8 |
| 5525 | 58 | 1 | 20 | 140 | 36 | .005 | .7 | | | | 9 |
| 5550 | 75 | 1 | 22 | 80 | 40 | .040 | .4 | | | | 10 |
| 5575 | 30 | 1 | 18 | 90 | 31 | .050 | .7 | | | | 11 |
| 5600 | 28 | 1 | 24 | 98 | 33 | .040 | .4 | | | | 12 |
| 5625 | 24 | 1 | 34 | 90 | 29 | .030 | .2 | | | | 13 |
| 5650 | 35 | 1 | 24 | 90 | 31 | .060 | .2 | | | | 14 |
| 5675 | 20 | 1 | 20 | 74 | 23 | .040 | .6 | | | | 15 |
| AB55 5700 | 22 | 1 | 23 | 90 | 28 | .005 | .2 | | | | 16 |
| | | | | | | | | | | | 17 |
| AB56 5200 | 52 | 1 | 18 | 88 | 37 | .030 | .2 | | | | 18 |
| 5225 | 65 | 2 | 20 | 100 | 45 | .010 | .3 | | | | 19 |
| 5250 | 14 | 1 | 20 | 74 | 17 | .005 | .3 | | | | 20 |
| 5275 | 22 | 1 | 17 | 62 | 26 | .005 | .2 | | | | 21 |
| 5300 | 38 | 2 | 20 | 76 | 35 | .005 | .3 | | | | 22 |
| 5325 | 40 | 1 | 20 | 76 | 34 | .020 | .4 | | | | 23 |
| 5350 | 20 | 1 | 19 | 78 | 30 | .010 | .3 | | | | 24 |
| 5375 | 90 | 2 | 20 | 110 | 47 | .010 | .2 | | | | 25 |
| 5400 | 55 | 1 | 21 | 148 | 38 | .005 | .2 | | | | 26 |
| 5425 | 60 | 1 | 22 | 122 | 34 | .005 | .5 | | | | 27 |
| 5450 | 54 | 1 | 21 | 106 | 41 | .010 | .3 | | | | 28 |
| 5475 | 84 | 2 | 24 | 138 | 40 | .040 | .4 | | | | 29 |
| 5500 | 33 | 1 | 21 | 132 | 33 | .010 | .4 | | | | 30 |
| 5525 | 95 | 1 | 19 | 108 | 45 | .100 | .5 | | | | 31 |
| 5550 | 70 | 1 | 20 | 126 | 38 | .020 | .7 | | | | 32 |
| 5575 | 74 | 1 | 20 | 118 | 41 | .030 | .4 | | | | 33 |
| 5600 | 138 | 1 | 20 | 108 | 56 | .110 | .2 | | | | 34 |
| 5625 | 96 | 1 | 26 | 160 | 45 | .140 | .4 | | | | 35 |
| 5650 | 78 | 1 | 22 | 118 | 51 | .060 | .1 | | | | 36 |
| 5675 | 80 | 1 | 23 | 92 | 44 | .030 | .2 | | | | 37 |
| AB56 5700 | 55 | 1 | 22 | 110 | 40 | .050 | .2 | | | | 38 |
| | | | | | | | | | | | 39 |
| | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 24, 1980

DATE REPORTS MAILED Aug. 2, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 80-667

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|------|-----|----|----|-----|-----|------|-----|--|--|--|----|
| AB57 | 5200 | 25 | 1 | 15 | 68 | 29 | .005 | .9 | | | | 1 |
| | 5225 | 31 | 1 | 20 | 92 | 21 | .005 | .6 | | | | 2 |
| | 5250 | 25 | 1 | 20 | 70 | 19 | .005 | .6 | | | | 3 |
| | 5275 | 23 | 1 | 18 | 60 | 19 | .005 | 1.1 | | | | 4 |
| | 5300 | 60 | 1 | 18 | 106 | 47 | .005 | .7 | | | | 5 |
| | 5325 | 44 | 1 | 20 | 110 | 28 | .005 | 1.0 | | | | 6 |
| | 5350 | 26 | 1 | 16 | 49 | 18 | .005 | .6 | | | | 7 |
| | 5375 | 35 | 1 | 18 | 98 | 36 | .010 | .6 | | | | 8 |
| | 5400 | 136 | 1 | 18 | 132 | 42 | .005 | .2 | | | | 9 |
| | 5425 | 70 | 1 | 23 | 146 | 42 | .005 | .6 | | | | 10 |
| | 5450 | 56 | 1 | 20 | 130 | 38 | .010 | .4 | | | | 11 |
| | 5475 | 102 | 1 | 19 | 112 | 40 | .005 | .3 | | | | 12 |
| | 5500 | 196 | 1 | 16 | 108 | 49 | .005 | .3 | | | | 13 |
| | 5525 | 100 | 1 | 27 | 128 | 42 | .010 | .4 | | | | 14 |
| | 5550 | 80 | 1 | 26 | 120 | 37 | .010 | 1.0 | | | | 15 |
| | 5575 | 67 | 1 | 30 | 116 | 38 | .020 | .5 | | | | 16 |
| | 5600 | 97 | 1 | 29 | 100 | 44 | .030 | .4 | | | | 17 |
| | 5625 | 79 | 1 | 31 | 168 | 36 | .020 | .6 | | | | 18 |
| | 5650 | 73 | 1 | 21 | 134 | 38 | .080 | .5 | | | | 19 |
| | 5675 | 109 | 2 | 29 | 260 | 46 | .030 | 1.7 | | | | 20 |
| AB57 | 5700 | 82 | 1 | 26 | 170 | 45 | .010 | .5 | | | | 21 |
| | | | | | | | | | | | | 22 |
| AB58 | 5200 | 45 | 2 | 22 | 80 | 24 | .005 | .5 | | | | 23 |
| | 5225 | 25 | 2 | 20 | 70 | 25 | .005 | .5 | | | | 24 |
| | 5250 | 20 | 1 | 19 | 62 | 21 | .005 | .7 | | | | 25 |
| | 5275 | 67 | 1 | 17 | 106 | 33 | .005 | .3 | | | | 26 |
| | 5300 | 46 | 2 | 18 | 94 | 30 | .005 | .4 | | | | 27 |
| | 5325 | 76 | 2 | 23 | 132 | 43 | .020 | .9 | | | | 28 |
| | 5350 | 47 | 2 | 23 | 110 | 34 | .005 | .7 | | | | 29 |
| | 5375 | 38 | 2 | 28 | 122 | 30 | .020 | .6 | | | | 30 |
| | 5400 | 67 | 2 | 17 | 90 | 30 | .010 | .4 | | | | 31 |
| | 5425 | 64 | 1 | 17 | 122 | 33 | .005 | .5 | | | | 32 |
| | 5450 | 95 | 2 | 20 | 134 | 37 | .005 | .5 | | | | 33 |
| | 5475 | 102 | 1 | 23 | 122 | 44 | .160 | .4 | | | | 34 |
| | 5500 | 45 | 2 | 21 | 118 | 30 | .010 | .4 | | | | 35 |
| | 5525 | 74 | 2 | 27 | 134 | 26 | .010 | 1.6 | | | | 36 |
| | 5550 | 204 | 3 | 75 | 375 | 47 | .270 | 2.1 | | | | 37 |
| | 5575 | 172 | 1 | 24 | 170 | 44 | .070 | .6 | | | | 38 |
| AB58 | 5600 | 370 | 2 | 42 | 174 | 105 | .110 | .8 | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

ESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 24, 1980

DATE REPORTS MAILED Aug. 2, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.,

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 80-667

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|------|-----|----|----|-----|----|------|-----|--|--|--|--|----|
| AB58 | 5625 | 54 | 3 | 34 | 104 | 31 | .005 | .5 | | | | | 1 |
| | 5650 | 98 | 2 | 27 | 130 | 42 | .005 | 2.0 | | | | | 2 |
| | 5675 | 78 | 1 | 27 | 92 | 38 | .005 | .7 | | | | | 3 |
| AB58 | 5700 | 99 | 1 | 23 | 108 | 60 | .040 | .5 | | | | | 4 |
| | | | | | | | | | | | | | 5 |
| AB59 | 5400 | 58 | 2 | 17 | 102 | 37 | .005 | .2 | | | | | 6 |
| | 5425 | 68 | 2 | 18 | 70 | 29 | .005 | .7 | | | | | 7 |
| | 5450 | 58 | 1 | 16 | 80 | 28 | .005 | .7 | | | | | 8 |
| | 5475 | 80 | 1 | 16 | 78 | 34 | .005 | .5 | | | | | 9 |
| | 5500 | 80 | 1 | 18 | 102 | 45 | .005 | .4 | | | | | 10 |
| | 5525 | 92 | 1 | 14 | 100 | 36 | .005 | .2 | | | | | 11 |
| | 5550 | 130 | 2 | 16 | 108 | 48 | .005 | .1 | | | | | 12 |
| | 5575 | 80 | 2 | 15 | 122 | 35 | .005 | .4 | | | | | 13 |
| | 5600 | 68 | 2 | 17 | 134 | 33 | .005 | .6 | | | | | 14 |
| | 5625 | 58 | 1 | 18 | 120 | 28 | .010 | 1.2 | | | | | 15 |
| | 5650 | 54 | 1 | 20 | 118 | 33 | .005 | .6 | | | | | 16 |
| | 5675 | 34 | 2 | 18 | 110 | 30 | .290 | 1.0 | | | | | 17 |
| AB59 | 5700 | 65 | 1 | 27 | 148 | 41 | .005 | 2.4 | | | | | 18 |
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 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED July 24, 1980
 DATE REPORTS MAILED AUG. 2, 1980
 ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.,
504 - 535 Thurlow St.,
Vancouver, B.C.
V6E 3L2

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

File No. 80-726

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Attn.: Mr. K.E. Gale

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|--|----|
| AB36 6825 | 110 | 1 | 36 | 114 | 22 | .020 | .9 | | | | | 1 |
| 6850 | 108 | 1 | 45 | 132 | 24 | .010 | .8 | | | | | 2 |
| 6875 | 102 | 4 | 31 | 88 | 28 | .720 | .5 | | | | | 3 |
| 6900 | 74 | 1 | 43 | 84 | 19 | .020 | .5 | | | | | 4 |
| 6925 | 35 | 1 | 27 | 100 | 20 | .005 | .8 | | | | | 5 |
| 6950 | 50 | 1 | 29 | 90 | 25 | .045 | .9 | | | | | 6 |
| 6975 | 160 | 1 | 40 | 108 | 22 | .020 | 1.1 | | | | | 7 |
| 7000 | 50 | 1 | 62 | 108 | 20 | .035 | .4 | | | | | 8 |
| 7025 | 40 | 1 | 40 | 100 | 21 | .030 | .3 | | | | | 9 |
| 7050 | 70 | 1 | 36 | 128 | 19 | .005 | .8 | | | | | 10 |
| AB36 7075 | 115 | 1 | 43 | 205 | 12 | .005 | .6 | | | | | 11 |
| | | | | | | | | | | | | 12 |
| AB37 6200 | 33 | 2 | 30 | 118 | 27 | .005 | .3 | | | | | 13 |
| 6225 | 32 | 1 | 22 | 144 | 33 | .005 | .3 | | | | | 14 |
| 6250 | 92 | 1 | 32 | 116 | 41 | .005 | .1 | | | | | 15 |
| 6275 | 108 | 1 | 22 | 126 | 46 | .005 | .4 | | | | | 16 |
| 6300 | 52 | 1 | 34 | 140 | 29 | .005 | .6 | | | | | 17 |
| 6325 | 90 | 1 | 26 | 128 | 35 | .005 | .3 | | | | | 18 |
| 6350 | 60 | 1 | 28 | 132 | 26 | .015 | .5 | | | | | 19 |
| 6375 | 55 | 1 | 40 | 140 | 23 | .005 | .5 | | | | | 20 |
| 6400 | 64 | 1 | 29 | 130 | 28 | .005 | .2 | | | | | 21 |
| 6425 | 36 | 1 | 23 | 140 | 28 | .005 | .4 | | | | | 22 |
| 6450 | 32 | 1 | 19 | 98 | 14 | .005 | .3 | | | | | 23 |
| 6475 | 52 | 1 | 26 | 114 | 15 | .025 | .4 | | | | | 24 |
| 6500 | 32 | 1 | 34 | 150 | 25 | .005 | .6 | | | | | 25 |
| 6525 | 70 | 1 | 22 | 124 | 14 | .005 | 1.0 | | | | | 26 |
| 6550 | 86 | 1 | 40 | 180 | 30 | .015 | .6 | | | | | 27 |
| 6575 | 60 | 1 | 29 | 116 | 21 | .090 | 1.4 | | | | | 28 |
| 6600 | 85 | 1 | 33 | 112 | 18 | .220 | .5 | | | | | 29 |
| 6625 | 70 | 1 | 54 | 138 | 28 | .020 | .6 | | | | | 30 |
| 6650 | 82 | 1 | 34 | 176 | 27 | .005 | .7 | | | | | 31 |
| 6675 | 96 | 1 | 36 | 100 | 23 | .005 | 1.2 | | | | | 32 |
| 6700 | 106 | 1 | 37 | 112 | 36 | .025 | .9 | | | | | 33 |
| 6725 | 66 | 1 | 26 | 86 | 18 | .005 | .9 | | | | | 34 |
| 6750 | 58 | 1 | 29 | 106 | 21 | .005 | .7 | | | | | 35 |
| 6775 | 105 | 1 | 25 | 100 | 19 | .025 | .6 | | | | | 36 |
| 6800 | 134 | 1 | 30 | 144 | 22 | .005 | .8 | | | | | 37 |
| AB37 6825 | 105 | 1 | 28 | 142 | 21 | .005 | 1.0 | | | | | 38 |
| | | | | | | | | | | | | 39 |
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 31, 1980

DATE REPORTS MAILED Aug. 12, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-726

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|-----|----|------|-----|----|------|-----|--|--|--|--|----|
| AB37 6850 | 76 | 1 | 32 | 94 | 37 | .030 | .4 | | | | | 1 |
| 6875 | 34 | 1 | 37 | 86 | 21 | .005 | .6 | | | | | 2 |
| 6900 | 57 | 1 | 38 | 120 | 28 | .010 | .4 | | | | | 3 |
| 6925 | 68 | 1 | 26 | 74 | 28 | .005 | .5 | | | | | 4 |
| 6950 | 52 | 1 | 27 | 74 | 23 | .030 | .4 | | | | | 5 |
| 6975 | 30 | 1 | 17 | 54 | 21 | .150 | .4 | | | | | 6 |
| 7000 | 50 | 1 | 24 | 56 | 20 | .050 | .9 | | | | | 7 |
| 7025 | 10 | 1 | 28 | 56 | 9 | .125 | .5 | | | | | 8 |
| 7050 | 9 | 1 | 32 | 66 | 9 | .045 | 1.1 | | | | | 9 |
| AB37 7075 | 11 | 1 | 16 | 29 | 10 | .190 | .1 | | | | | 10 |
| | | | | | | | | | | | | 11 |
| AB38 6550 | 95 | 1 | 38 | 118 | 36 | .040 | .6 | | | | | 12 |
| 6575 | 66 | 1 | 43 | 152 | 24 | .010 | 1.0 | | | | | 13 |
| 6600 | 52 | 1 | 54 | 130 | 23 | .005 | .9 | | | | | 14 |
| 6625 | 115 | 1 | 38 | 102 | 22 | .005 | 2.4 | | | | | 15 |
| 6650 | 72 | 1 | 35 | 104 | 23 | .005 | 1.3 | | | | | 16 |
| 6675 | 465 | 1 | 1300 | 770 | 21 | .040 | 6.2 | | | | | 17 |
| 6700 | 45 | 1 | 77 | 215 | 16 | .010 | .7 | | | | | 18 |
| 6725 | 33 | 1 | 42 | 134 | 21 | .005 | .3 | | | | | 19 |
| 6750 | 52 | 2 | 34 | 100 | 16 | .005 | .5 | | | | | 20 |
| 6775 | 52 | 1 | 27 | 70 | 16 | .005 | .9 | | | | | 21 |
| 6800 | 30 | 1 | 21 | 42 | 12 | .010 | .8 | | | | | 22 |
| 6825 | 160 | 1 | 71 | 132 | 34 | .540 | 1.2 | | | | | 23 |
| 6850 | 74 | 1 | 34 | 74 | 26 | .140 | .7 | | | | | 24 |
| 6875 | 32 | 1 | 26 | 64 | 19 | .060 | .4 | | | | | 25 |
| AB38 6900 | 30 | 1 | 24 | 52 | 17 | .100 | .3 | | | | | 26 |
| | | | | | | | | | | | | 27 |
| AB46 6250 | 115 | 2 | 70 | 295 | 52 | .280 | 2.3 | | | | | 28 |
| 6300 | 65 | 1 | 36 | 540 | 51 | .005 | .8 | | | | | 29 |
| 6350 | 54 | 1 | 38 | 88 | 24 | .010 | .7 | | | | | 30 |
| 6400 | 72 | 1 | 31 | 88 | 27 | .005 | 1.2 | | | | | 31 |
| 6450 | 135 | 1 | 43 | 112 | 32 | .030 | .6 | | | | | 32 |
| 6500 | 110 | 2 | 26 | 102 | 49 | .040 | .6 | | | | | 33 |
| 6550 | 90 | 1 | 25 | 78 | 40 | .060 | .3 | | | | | 34 |
| 6600 | 52 | 1 | 27 | 60 | 22 | .020 | .6 | | | | | 35 |
| 6650 | 50 | 1 | 27 | 66 | 17 | .010 | .9 | | | | | 36 |
| 6700 | 40 | 1 | 48 | 100 | 24 | .010 | .8 | | | | | 37 |
| AB46 6750 | 42 | 1 | 23 | 56 | 26 | .020 | .1 | | | | | 38 |
| | | | | | | | | | | | | 39 |
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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 31, 1980

DATE REPORTS MAILED Aug 12, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd., 852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

File No. 80-726

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Table with columns: SAMPLE No., Cu, Mo, Pb, Zn, Ni, Au, Ag, and a numbered index column (1-40). Rows include sample IDs like AB46 6800, AB48 6350, AB50 6350, AB54 6400, etc.

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 31, 1980

DATE REPORTS MAILED Aug. 12, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd. 852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

File No. 80-726

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|------------|------|----|----|----|-----|----|------|-----|--|--|--|----|
| AB54 | 6800 | 70 | 1 | 34 | 150 | 44 | .010 | .1 | | | | 1 |
| | 6850 | 75 | 1 | 29 | 130 | 45 | .020 | .4 | | | | 2 |
| AB54 | 6900 | 64 | 1 | 78 | 136 | 32 | .010 | .3 | | | | 3 |
| | | | | | | | | | | | | 4 |
| AB56 | 6500 | 24 | 1 | 20 | 80 | 25 | .040 | .2 | | | | 5 |
| | 6550 | 45 | 1 | 25 | 90 | 23 | .015 | .5 | | | | 6 |
| | 6600 | 65 | 1 | 32 | 68 | 32 | .035 | .2 | | | | 7 |
| | 6650 | 28 | 1 | 26 | 84 | 24 | .235 | .2 | | | | 8 |
| | 6700 | 28 | 1 | 17 | 68 | 18 | .005 | .2 | | | | 9 |
| | 6750 | 50 | 1 | 33 | 96 | 32 | .030 | 1.1 | | | | 10 |
| | 6800 | 36 | 1 | 50 | 92 | 24 | .015 | 1.1 | | | | 11 |
| | 6850 | 18 | 1 | 28 | 130 | 22 | .005 | .5 | | | | 12 |
| AB56 | 6900 | 18 | 1 | 21 | 154 | 23 | .005 | .7 | | | | 13 |
| | | | | | | | | | | | | 14 |
| | | | | | | | | | | | | 15 |
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All results are in PPM.
DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED July 31, 1980

DATE REPORTS MAILED Aug. 12, 1980

ASSAYER *Dean Toy*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd., 852 E. Hastings St., Vancouver, B. C. V6A 1R6
504 - 535 Thurlow St.,
Vancouver, B.C.
V6E 3L2

phone:253 - 3158

File No. 80-778

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

Attn.: Mr. R.E. Gale

From: Nelson

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | | |
|-------------|-----|----|----|-----|----|------|-----|--|--|--|--|--|----|
| AB38 - 6200 | 46 | 1 | 27 | 160 | 40 | .005 | .2 | | | | | | 1 |
| 6225 | 42 | 1 | 17 | 90 | 29 | .005 | .1 | | | | | | 2 |
| 6250 | 96 | 1 | 27 | 149 | 39 | .005 | .1 | | | | | | 3 |
| 6275 | 90 | 1 | 28 | 140 | 43 | .005 | .5 | | | | | | 4 |
| 6300 | 72 | 1 | 31 | 168 | 31 | .010 | .4 | | | | | | 5 |
| 6325 | 76 | 1 | 27 | 158 | 29 | .005 | .4 | | | | | | 6 |
| 6350 | 58 | 1 | 38 | 180 | 28 | .005 | .6 | | | | | | 7 |
| 6375 | 48 | 1 | 39 | 152 | 31 | .005 | .5 | | | | | | 8 |
| 6400 | 23 | 1 | 18 | 120 | 13 | .005 | .3 | | | | | | 9 |
| 6425 | 36 | 1 | 18 | 102 | 14 | .005 | .4 | | | | | | 10 |
| 6450 | 50 | 1 | 20 | 154 | 18 | .005 | .6 | | | | | | 11 |
| 6475 | 106 | 1 | 31 | 176 | 30 | .025 | .5 | | | | | | 12 |
| 6500 | 49 | 1 | 27 | 147 | 21 | .025 | 1.1 | | | | | | 13 |
| AB38 - 6525 | 92 | 1 | 30 | 148 | 21 | .090 | .6 | | | | | | 14 |
| | | | | | | | | | | | | | 15 |
| AB39 - 6200 | 74 | 1 | 30 | 122 | 26 | .095 | .5 | | | | | | 16 |
| 6225 | 148 | 2 | 36 | 130 | 38 | .015 | .5 | | | | | | 17 |
| 6250 | 68 | 1 | 24 | 122 | 24 | .005 | .4 | | | | | | 18 |
| 6275 | 72 | 1 | 23 | 140 | 27 | .005 | .3 | | | | | | 19 |
| 6300 | 108 | 1 | 24 | 110 | 29 | .030 | .4 | | | | | | 20 |
| 6325 | 158 | 1 | 23 | 112 | 33 | .080 | .7 | | | | | | 21 |
| 6350 | 106 | 1 | 26 | 168 | 36 | .020 | .6 | | | | | | 22 |
| 6375 | 140 | 1 | 26 | 135 | 28 | .005 | 1.3 | | | | | | 23 |
| 6400 | 82 | 1 | 30 | 140 | 25 | .005 | .9 | | | | | | 24 |
| 6425 | 52 | 1 | 22 | 101 | 20 | .005 | .7 | | | | | | 25 |
| 6450 | 42 | 1 | 23 | 130 | 18 | .005 | .8 | | | | | | 26 |
| 6475 | 29 | 1 | 34 | 198 | 19 | .005 | 2.4 | | | | | | 27 |
| 6500 | 43 | 1 | 50 | 146 | 35 | .005 | .6 | | | | | | 28 |
| 6525 | 40 | 1 | 43 | 147 | 24 | .015 | 1.0 | | | | | | 29 |
| 6550 | 50 | 1 | 57 | 198 | 25 | .005 | .9 | | | | | | 30 |
| 6575 | 52 | 1 | 34 | 138 | 25 | .010 | 1.7 | | | | | | 31 |
| 6600 | 94 | 1 | 35 | 120 | 33 | .015 | 1.4 | | | | | | 32 |
| 6625 | 66 | 1 | 33 | 130 | 26 | .010 | 1.4 | | | | | | 33 |
| 6650 | 60 | 1 | 28 | 104 | 23 | .040 | 2.8 | | | | | | 34 |
| 6675 | 72 | 1 | 28 | 100 | 29 | .020 | 1.1 | | | | | | 35 |
| 6700 | 68 | 1 | 25 | 79 | 20 | .015 | 2.1 | | | | | | 36 |
| 6725 | 64 | 1 | 25 | 82 | 25 | .040 | 1.6 | | | | | | 37 |
| AB39 - 6750 | 62 | 1 | 21 | 103 | 24 | .045 | 1.1 | | | | | | 38 |
| | | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 7, 1980

DATE REPORTS MAILED Aug. 15, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To:

Asarco Exploration Co. of Canada Ltd.

File No. 80-778

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|-------------|----|----|----|-----|----|------|-----|--|--|--|--|----|
| AB39 - 6775 | 76 | 1 | 22 | 78 | 17 | .020 | 1.6 | | | | | 1 |
| 6800 | 21 | 1 | 32 | 49 | 14 | .025 | .5 | | | | | 2 |
| 6825 | 46 | 1 | 20 | 74 | 28 | .080 | .4 | | | | | 3 |
| 6850 | 19 | 1 | 18 | 32 | 8 | .085 | .6 | | | | | 4 |
| 6875 | 64 | 1 | 43 | 93 | 23 | .120 | .7 | | | | | 5 |
| AB39 - 6900 | 84 | 3 | 29 | 88 | 24 | .060 | 1.4 | | | | | 6 |
| | | | | | | | | | | | | 7 |
| AB40 - 6300 | 64 | 1 | 23 | 90 | 30 | .005 | .3 | | | | | 8 |
| 6325 | 52 | 1 | 20 | 99 | 20 | .005 | .7 | | | | | 9 |
| 6350 | 72 | 2 | 31 | 99 | 29 | .200 | .6 | | | | | 10 |
| 6375 | 66 | 1 | 70 | 127 | 21 | .050 | 1.4 | | | | | 11 |
| 6400 | 45 | 1 | 41 | 126 | 24 | .015 | 1.0 | | | | | 12 |
| 6425 | 42 | 1 | 28 | 108 | 24 | .010 | .9 | | | | | 13 |
| 6450 | 40 | 1 | 25 | 81 | 23 | .005 | .6 | | | | | 14 |
| 6475 | 39 | 1 | 24 | 110 | 27 | .020 | 1.1 | | | | | 15 |
| 6500 | 43 | 2 | 26 | 122 | 23 | .010 | .8 | | | | | 16 |
| 6525 | 29 | 1 | 90 | 182 | 22 | .010 | .7 | | | | | 17 |
| 6550 | 49 | 1 | 26 | 108 | 26 | .050 | .3 | | | | | 18 |
| 6575 | 52 | 1 | 24 | 102 | 30 | .010 | 1.1 | | | | | 19 |
| 6600 | 50 | 1 | 40 | 160 | 26 | .025 | .7 | | | | | 20 |
| 6625 | 72 | 1 | 23 | 110 | 21 | .010 | 1.5 | | | | | 21 |
| 6650 | 38 | 2 | 24 | 90 | 21 | .025 | 1.7 | | | | | 22 |
| 6675 | 21 | 2 | 26 | 52 | 12 | .015 | 1.1 | | | | | 23 |
| 6700 | 52 | 3 | 23 | 79 | 29 | .110 | 1.0 | | | | | 24 |
| 6725 | 48 | 1 | 36 | 70 | 19 | .015 | 1.7 | | | | | 25 |
| 6750 | 35 | 1 | 20 | 68 | 21 | .035 | 1.1 | | | | | 26 |
| 6775 | 38 | 1 | 29 | 60 | 22 | .050 | .9 | | | | | 27 |
| 6800 | 30 | 1 | 16 | 48 | 18 | .085 | 1.2 | | | | | 28 |
| 6825 | 78 | 1 | 29 | 75 | 32 | .055 | .5 | | | | | 29 |
| 6850 | 39 | 2 | 30 | 98 | 20 | .055 | .5 | | | | | 30 |
| 6875 | 54 | 1 | 27 | 79 | 21 | .100 | 1.1 | | | | | 31 |
| AB40 - 6900 | 84 | 3 | 27 | 78 | 30 | .210 | 1.1 | | | | | 32 |
| | | | | | | | | | | | | 33 |
| AB41 - 6300 | 62 | 1 | 29 | 110 | 27 | .020 | 1.0 | | | | | 34 |
| 6325 | 64 | 1 | 27 | 100 | 25 | .020 | 1.0 | | | | | 35 |
| 6350 | 47 | 1 | 25 | 108 | 28 | .020 | .7 | | | | | 36 |
| 6375 | 52 | 1 | 49 | 84 | 18 | .005 | 1.1 | | | | | 37 |
| AB41 - 6400 | 88 | 3 | 54 | 240 | 35 | .055 | .4 | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 7, 1980

DATE REPORTS MAILED Aug. 15, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



File No. 80-778

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|-------------|-----|----|----|-----|----|-------|-----|--|--|--|--|----|
| AB41 - 6425 | 88 | 3 | 26 | 90 | 25 | .010 | .7 | | | | | 1 |
| 6450 | 62 | 2 | 21 | 76 | 16 | .020 | 1.8 | | | | | 2 |
| 6475 | 24 | 1 | 26 | 62 | 15 | .010 | .5 | | | | | 3 |
| 6500 | 28 | 2 | 24 | 74 | 18 | .005 | .8 | | | | | 4 |
| 6525 | 41 | 1 | 21 | 100 | 23 | .005 | .6 | | | | | 5 |
| 6550 | 82 | 1 | 23 | 88 | 39 | .010 | .3 | | | | | 6 |
| 6575 | 86 | 1 | 23 | 84 | 27 | .020 | 1.2 | | | | | 7 |
| 6600 | 82 | 1 | 19 | 78 | 22 | .005 | 1.6 | | | | | 8 |
| 6625 | 44 | 1 | 21 | 58 | 17 | .010 | .6 | | | | | 9 |
| 6650 | 34 | 1 | 33 | 76 | 14 | .010 | 1.2 | | | | | 10 |
| 6675 | 52 | 1 | 17 | 62 | 16 | .020 | 1.8 | | | | | 11 |
| 6700 | 26 | 1 | 13 | 74 | 14 | .015 | 1.0 | | | | | 12 |
| 6725 | 24 | 1 | 12 | 49 | 10 | .025 | .6 | | | | | 13 |
| 6750 | 32 | 1 | 17 | 60 | 15 | .030 | .6 | | | | | 14 |
| 6775 | 156 | 1 | 72 | 138 | 32 | 1.200 | 1.5 | | | | | 15 |
| 6800 | 39 | 1 | 15 | 44 | 16 | .050 | .2 | | | | | 16 |
| 6825 | 108 | 1 | 33 | 74 | 35 | .180 | .8 | | | | | 17 |
| 6850 | 78 | 1 | 52 | 100 | 19 | .030 | .9 | | | | | 18 |
| 6875 | 48 | 2 | 26 | 104 | 21 | .020 | .6 | | | | | 19 |
| AB41 - 6900 | 68 | 2 | 27 | 88 | 23 | .040 | .8 | | | | | 20 |
| | | | | | | | | | | | | 21 |
| AB42 - 6200 | 60 | 1 | 26 | 86 | 24 | .020 | .6 | | | | | 22 |
| 6225 | 56 | 1 | 22 | 102 | 27 | .015 | .6 | | | | | 23 |
| 6250 | 66 | 1 | 24 | 96 | 26 | .020 | 1.1 | | | | | 24 |
| 6275 | 90 | 1 | 21 | 100 | 31 | .015 | 1.0 | | | | | 25 |
| 6300 | 74 | 1 | 34 | 68 | 22 | .020 | 1.0 | | | | | 26 |
| 6325 | 45 | 1 | 24 | 70 | 19 | .020 | .6 | | | | | 27 |
| 6350 | 46 | 1 | 28 | 74 | 21 | .010 | .9 | | | | | 28 |
| 6375 | 90 | 1 | 24 | 92 | 37 | .030 | .6 | | | | | 29 |
| 6400 | 25 | 2 | 64 | 72 | 6 | .020 | .6 | | | | | 30 |
| 6425 | 64 | 1 | 24 | 84 | 23 | .015 | 1.2 | | | | | 31 |
| 6450 | 64 | 1 | 35 | 78 | 19 | .010 | 1.4 | | | | | 32 |
| 6475 | 31 | 1 | 18 | 68 | 11 | .020 | .8 | | | | | 33 |
| 6500 | 100 | 1 | 26 | 122 | 34 | .030 | 1.2 | | | | | 34 |
| 6525 | 80 | 1 | 21 | 80 | 30 | .040 | .3 | | | | | 35 |
| 6550 | 20 | 1 | 19 | 42 | 9 | .020 | .4 | | | | | 36 |
| AB42 - 6575 | 26 | 1 | 16 | 50 | 14 | .015 | .6 | | | | | 37 |
| | | | | | | | | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 7, 1980

DATE REPORTS MAILED Aug. 15, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone:253 - 3158

80-778

File No. -----

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition -----

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|-------------|-----|----|-----|-----|----|-------|-----|--|--|--|--|----|
| AB42 - 6725 | 31 | 1 | 18 | 49 | 12 | .010 | 1.3 | | | | | 1 |
| 6750 | 19 | 2 | 8 | 42 | 26 | .005 | .6 | | | | | 2 |
| 6775 | 108 | 1 | 32 | 108 | 42 | .030 | .6 | | | | | 3 |
| 6800 | 96 | 1 | 34 | 104 | 41 | .070 | .7 | | | | | 4 |
| 6825 | 74 | 1 | 30 | 92 | 33 | .155 | .7 | | | | | 5 |
| 6850 | 46 | 1 | 28 | 103 | 24 | .120 | .4 | | | | | 6 |
| 6875 | 12 | 1 | 37 | 46 | 3 | .040 | .6 | | | | | 7 |
| AB42 - 6900 | 62 | 1 | 24 | 123 | 29 | .185 | .4 | | | | | 8 |
| | | | | | | | | | | | | 9 |
| AB43 - 6100 | 84 | 1 | 52 | 140 | 25 | .005 | 1.1 | | | | | 10 |
| 6125 | 74 | 1 | 48 | 120 | 25 | .005 | .8 | | | | | 11 |
| 6150 | 52 | 1 | 26 | 108 | 24 | .005 | .9 | | | | | 12 |
| 6175 | 42 | 1 | 21 | 100 | 26 | .015 | .5 | | | | | 13 |
| 6200 | 56 | 1 | 29 | 101 | 29 | .005 | .5 | | | | | 14 |
| 6225 | 98 | 2 | 20 | 118 | 33 | .005 | 1.0 | | | | | 15 |
| 6250 | 76 | 2 | 27 | 128 | 31 | .005 | .9 | | | | | 16 |
| 6275 | 30 | 1 | 23 | 93 | 25 | .005 | .7 | | | | | 17 |
| 6300 | 80 | 1 | 41 | 87 | 24 | .005 | 1.2 | | | | | 18 |
| 6325 | 106 | 2 | 24 | 78 | 28 | .020 | 1.6 | | | | | 19 |
| 6350 | 66 | 1 | 23 | 87 | 28 | .005 | 1.5 | | | | | 20 |
| 6375 | 40 | 2 | 100 | 68 | 19 | .005 | .7 | | | | | 21 |
| 6400 | 64 | 3 | 34 | 90 | 30 | .015 | .8 | | | | | 22 |
| 6425 | 70 | 1 | 22 | 83 | 31 | .005 | .9 | | | | | 23 |
| 6450 | 50 | 1 | 20 | 94 | 27 | .010 | 1.0 | | | | | 24 |
| 6475 | 90 | 2 | 25 | 83 | 30 | .005 | 1.6 | | | | | 25 |
| 6500 | 88 | 1 | 24 | 81 | 34 | .115 | .5 | | | | | 26 |
| 6525 | 90 | 1 | 21 | 63 | 26 | .050 | .6 | | | | | 27 |
| 6550 | 62 | 1 | 18 | 54 | 22 | .075 | .4 | | | | | 28 |
| 6575 | 34 | 1 | 19 | 57 | 19 | .025 | .6 | | | | | 29 |
| 6600 | 210 | 1 | 16 | 62 | 23 | .200 | .8 | | | | | 30 |
| 6625 | 144 | 1 | 23 | 79 | 29 | +3ppm | 1.7 | | | | | 31 |
| 6650 | 64 | 1 | 14 | 62 | 14 | .260 | .8 | | | | | 32 |
| 6675 | 34 | 2 | 24 | 72 | 24 | .040 | 1.8 | | | | | 33 |
| 6700 | 66 | 1 | 26 | 120 | 28 | .015 | .7 | | | | | 34 |
| 6725 | 46 | 2 | 16 | 72 | 20 | .130 | .6 | | | | | 35 |
| 6750 | 90 | 1 | 114 | 102 | 19 | .010 | 1.4 | | | | | 36 |
| 6775 | 176 | 2 | 30 | 110 | 28 | .040 | 2.6 | | | | | 37 |
| AB43 - 6800 | 70 | 1 | 52 | 103 | 29 | .260 | 1.0 | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug 7, 1980

DATE REPORTS MAILED Aug 15, 1980

ASSAYER Dean Toy

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-778

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | |
|-------------|-----|----|----|-----|----|------|-----|--|--|--|----|
| AB43 - 6825 | 33 | 1 | 21 | 150 | 23 | .035 | .6 | | | | 1 |
| 6850 | 27 | 1 | 29 | 112 | 24 | .050 | .4 | | | | 2 |
| 6875 | 20 | 1 | 22 | 73 | 16 | .015 | .5 | | | | 3 |
| AB43 - 6900 | 40 | 1 | 23 | 90 | 23 | .060 | .6 | | | | 4 |
| | | | | | | | | | | | 5 |
| AB44 - 6000 | 110 | 1 | 34 | 215 | 35 | .015 | 1.7 | | | | 6 |
| 6025 | 38 | 1 | 22 | 110 | 24 | .005 | .8 | | | | 7 |
| 6050 | 49 | 1 | 24 | 134 | 28 | .005 | .8 | | | | 8 |
| 6075 | 36 | 1 | 18 | 85 | 19 | .005 | .9 | | | | 9 |
| 6100 | 27 | 1 | 30 | 88 | 18 | .005 | .4 | | | | 10 |
| 6125 | 41 | 1 | 20 | 107 | 23 | .005 | .5 | | | | 11 |
| 6150 | 26 | 1 | 27 | 78 | 18 | .025 | .8 | | | | 12 |
| 6175 | 100 | 1 | 20 | 102 | 31 | .010 | 1.3 | | | | 13 |
| 6200 | 26 | 1 | 19 | 90 | 20 | .010 | .6 | | | | 14 |
| 6225 | 45 | 1 | 22 | 135 | 29 | .005 | .4 | | | | 15 |
| 6250 | 62 | 1 | 22 | 90 | 27 | .005 | 1.4 | | | | 16 |
| 6275 | 43 | 1 | 23 | 139 | 26 | .005 | .8 | | | | 17 |
| 6300 | 39 | 1 | 58 | 190 | 25 | .015 | 1.1 | | | | 18 |
| 6325 | 82 | 1 | 45 | 435 | 45 | .010 | 1.4 | | | | 19 |
| 6350 | 96 | 1 | 28 | 168 | 46 | .010 | 1.3 | | | | 20 |
| 6375 | 60 | 1 | 22 | 114 | 33 | .005 | .8 | | | | 21 |
| 6400 | 68 | 1 | 23 | 110 | 33 | .020 | 1.4 | | | | 22 |
| 6425 | 54 | 1 | 27 | 89 | 25 | .030 | .7 | | | | 23 |
| 6450 | 72 | 1 | 35 | 92 | 58 | .085 | .9 | | | | 24 |
| 6475 | 162 | 1 | 70 | 160 | 41 | .200 | 1.8 | | | | 25 |
| 6500 | 146 | 1 | 34 | 152 | 52 | .170 | 1.9 | | | | 26 |
| 6525 | 86 | 1 | 24 | 80 | 32 | .050 | .6 | | | | 27 |
| 6550 | 76 | 1 | 21 | 68 | 28 | .060 | .6 | | | | 28 |
| 6575 | 74 | 1 | 23 | 85 | 27 | .380 | .3 | | | | 29 |
| 6600 | 30 | 1 | 21 | 63 | 17 | .015 | .3 | | | | 30 |
| 6625 | 39 | 1 | 22 | 43 | 15 | .015 | 1.0 | | | | 31 |
| 6650 | 62 | 1 | 24 | 65 | 32 | .030 | .4 | | | | 32 |
| 6675 | 52 | 1 | 25 | 102 | 22 | .020 | .5 | | | | 33 |
| 6700 | 60 | 1 | 24 | 80 | 24 | .030 | .8 | | | | 34 |
| 6725 | 45 | 1 | 23 | 80 | 23 | .025 | 1.2 | | | | 35 |
| 6750 | 36 | 1 | 35 | 72 | 16 | .035 | .7 | | | | 36 |
| 6775 | 46 | 1 | 52 | 90 | 17 | .040 | 1.0 | | | | 37 |
| AB44 - 6800 | 56 | 1 | 39 | 94 | 30 | .135 | .9 | | | | 38 |
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All results are in PPM.

QUESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 7, 1980

DATE REPORTS MAILED Aug. 15, 1980

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. of Canada Ltd.

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 80-778

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|-------------|----|----|----|----|----|------|-----|--|--|--|--|----|
| AB44 - 6825 | 20 | 1 | 23 | 72 | 17 | .145 | .6 | | | | | 1 |
| 6850 | 22 | 1 | 32 | 70 | 15 | .600 | .4 | | | | | 2 |
| 6875 | 42 | 1 | 56 | 70 | 41 | .040 | 1.1 | | | | | 3 |
| AB44 - 6900 | 58 | 1 | 40 | 96 | 63 | .165 | 2.0 | | | | | 4 |
| | | | | | | | | | | | | 5 |
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All reports are the confidential property of clients
All results are in PPM.

REVISION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 7, 1980

DATE REPORTS MAILED Aug. 15, 1980

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Asarco Exploration Co. Of Canada Ltd., 852 E. Hastings St., Vancouver, B. C. V6A 1H6
504 - 535 Thurlow St.,
Vancouver, B.C.
V6E 3L2

phone:253 - 3158

File No. 80-992

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|----|----|-----|-----|----|------|-----|--|--|--|--|----|
| 45 6000 | 54 | 3 | 21 | 168 | 21 | .005 | .9 | | | | | 1 |
| 6050 | 65 | 3 | 31 | 174 | 18 | .220 | 1.0 | | | | | 2 |
| 6100 | 40 | 2 | 22 | 121 | 20 | .005 | .4 | | | | | 3 |
| 6150 | 76 | 3 | 16 | 139 | 27 | .005 | .4 | | | | | 4 |
| 6200 | 51 | 2 | 20 | 75 | 15 | .005 | .4 | | | | | 5 |
| 6250 | 75 | 3 | 19 | 82 | 17 | .005 | 1.1 | | | | | 6 |
| 6300 | 50 | 2 | 25 | 141 | 19 | .005 | .5 | | | | | 7 |
| 6350 | 52 | 2 | 101 | 145 | 16 | .005 | .6 | | | | | 8 |
| 6400 | 70 | 3 | 22 | 148 | 22 | .010 | .3 | | | | | 9 |
| 6450 | 46 | 3 | 32 | 219 | 21 | .020 | .4 | | | | | 10 |
| 45 6500 | 99 | 3 | 23 | 157 | 24 | .410 | .3 | | | | | 11 |
| | | | | | | | | | | | | 12 |
| 47 6000 | 82 | 3 | 34 | 133 | 21 | .020 | .6 | | | | | 13 |
| 6050 | 95 | 3 | 25 | 90 | 15 | .005 | 1.2 | | | | | 14 |
| 6100 | 67 | 3 | 38 | 101 | 15 | .005 | .7 | | | | | 15 |
| 6150 | 96 | 2 | 22 | 64 | 14 | .005 | 1.6 | | | | | 16 |
| 6200 | 47 | 3 | 20 | 179 | 19 | .005 | .6 | | | | | 17 |
| 6250 | 99 | 3 | 18 | 161 | 23 | .035 | .6 | | | | | 18 |
| 6300 | 46 | 3 | 21 | 128 | 17 | .240 | .3 | | | | | 19 |
| 6350 | 40 | 1 | 14 | 94 | 11 | .005 | .3 | | | | | 20 |
| 6400 | 72 | 3 | 25 | 100 | 16 | .005 | 1.3 | | | | | 21 |
| 6450 | 83 | 3 | 17 | 114 | 15 | .005 | .5 | | | | | 22 |
| 47 6500 | 43 | 3 | 20 | 99 | 14 | .040 | .4 | | | | | 23 |
| | | | | | | | | | | | | 24 |
| 59 5725 | 22 | 2 | 25 | 104 | 20 | .005 | .2 | | | | | 25 |
| 5750 | 94 | 3 | 22 | 98 | 41 | .010 | .2 | | | | | 26 |
| 5775 | 47 | 2 | 21 | 106 | 22 | .005 | .8 | | | | | 27 |
| 5800 | 43 | 2 | 23 | 177 | 37 | .005 | .8 | | | | | 28 |
| 5825 | 40 | 2 | 21 | 185 | 18 | .005 | .7 | | | | | 29 |
| 5850 | 97 | 3 | 40 | 138 | 40 | .015 | .4 | | | | | 30 |
| 5875 | 80 | 2 | 19 | 171 | 34 | .005 | .7 | | | | | 31 |
| 5900 | 41 | 2 | 80 | 82 | 26 | .020 | .2 | | | | | 32 |
| 5925 | 20 | 1 | 20 | 84 | 12 | .005 | .2 | | | | | 33 |
| 59 5950 | 21 | 2 | 16 | 65 | 14 | .005 | .3 | | | | | 34 |
| | | | | | | | | | | | | 35 |
| | | | | | | | | | | | | 36 |
| | | | | | | | | | | | | 37 |
| | | | | | | | | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 5, 1980

DATE REPORTS MAILED Sept. 22, 1980

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

File No. _____

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Mo | Pb | Zn | Ni | Au | Ag | | | | | |
|------------|-----|----|----|-----|----|------|-----|--|--|--|--|----|
| 5550 5450 | 47 | 2 | 18 | 93 | 22 | .005 | .2 | | | | | 1 |
| 5475 | 42 | 3 | 18 | 98 | 20 | .005 | .3 | | | | | 2 |
| 5500 | 103 | 3 | 36 | 117 | 27 | .030 | .4 | | | | | 3 |
| 5525 | 34 | 3 | 17 | 92 | 17 | .025 | .5 | | | | | 4 |
| 5550 | 55 | 3 | 18 | 123 | 24 | .010 | .4 | | | | | 5 |
| 5575 | 65 | 3 | 22 | 118 | 26 | .035 | .6 | | | | | 6 |
| 5600 | 46 | 3 | 28 | 101 | 21 | .050 | .5 | | | | | 7 |
| 5625 | 49 | 3 | 22 | 131 | 20 | .055 | .6 | | | | | 8 |
| 5650 | 73 | 3 | 20 | 110 | 23 | .105 | .1 | | | | | 9 |
| 5675 | 40 | 2 | 19 | 117 | 19 | .070 | .3 | | | | | 10 |
| 5700 | 29 | 2 | 16 | 104 | 18 | .005 | .2 | | | | | 11 |
| 5725 | 37 | 3 | 18 | 137 | 21 | .005 | .6 | | | | | 12 |
| 5750 | 33 | 2 | 18 | 119 | 13 | .005 | .7 | | | | | 13 |
| 5775 | 81 | 2 | 23 | 160 | 26 | .005 | .2 | | | | | 14 |
| 5550 5800 | 96 | 3 | 21 | 136 | 25 | .030 | .1 | | | | | 15 |
| 5650 5450 | 33 | 3 | 17 | 120 | 17 | .005 | .4 | | | | | 16 |
| 5475 | 52 | 3 | 20 | 124 | 21 | .005 | .5 | | | | | 17 |
| 5500 | 28 | 3 | 17 | 101 | 18 | .005 | .3 | | | | | 18 |
| 5525 | 167 | 4 | 23 | 133 | 33 | .050 | .4 | | | | | 19 |
| 5550 | 78 | 4 | 23 | 128 | 27 | .005 | .1 | | | | | 20 |
| 5575 | 142 | 3 | 33 | 111 | 31 | .045 | .3 | | | | | 21 |
| 5600 | 70 | 3 | 24 | 137 | 25 | .015 | .5 | | | | | 22 |
| 5625 | 117 | 3 | 25 | 146 | 26 | .045 | .4 | | | | | 23 |
| 5650 | 94 | 3 | 26 | 155 | 23 | .060 | .4 | | | | | 24 |
| 5675 | 82 | 3 | 21 | 139 | 25 | .020 | .3 | | | | | 25 |
| 5700 | 99 | 3 | 28 | 135 | 26 | .015 | .4 | | | | | 26 |
| 5725 | 104 | 3 | 21 | 114 | 28 | .015 | .4 | | | | | 27 |
| 5750 | 106 | 3 | 22 | 153 | 33 | .020 | 1.0 | | | | | 28 |
| 5775 | 68 | 3 | 24 | 123 | 25 | .010 | .6 | | | | | 29 |
| 5650 5800 | 32 | 1 | 26 | 98 | 16 | .025 | 1.0 | | | | | 30 |
| 5750 5450 | 60 | 1 | 36 | 104 | 20 | .005 | .3 | | | | | 31 |
| 5475 | 68 | 1 | 32 | 103 | 20 | .005 | .1 | | | | | 32 |
| 5500 | 44 | 1 | 26 | 82 | 10 | .005 | .2 | | | | | 33 |
| 5525 | 40 | 1 | 27 | 80 | 13 | .005 | .1 | | | | | 34 |
| 5550 | 46 | 1 | 41 | 127 | 17 | .005 | .1 | | | | | 35 |
| 5750 5575 | 75 | 1 | 84 | 180 | 20 | .080 | .9 | | | | | 36 |
| | | | | | | | | | | | | 37 |
| | | | | | | | | | | | | 38 |
| | | | | | | | | | | | | 39 |
| | | | | | | | | | | | | 40 |

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Sept. 5, 1980

DATE REPORTS MAILED Sept. 22, 1980

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

DIGESTION:.....

DETERMINATION:.....

ASSAYER Dean Toye

APPENDIX FOUR

CERTIFICATE

I, Robert E. Gale of 4338 Ruth Crescent, North Vancouver, B.C. hereby certify:

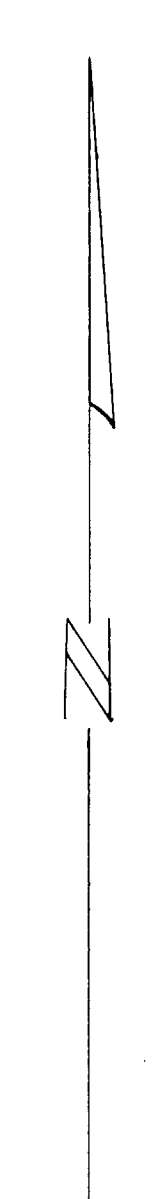
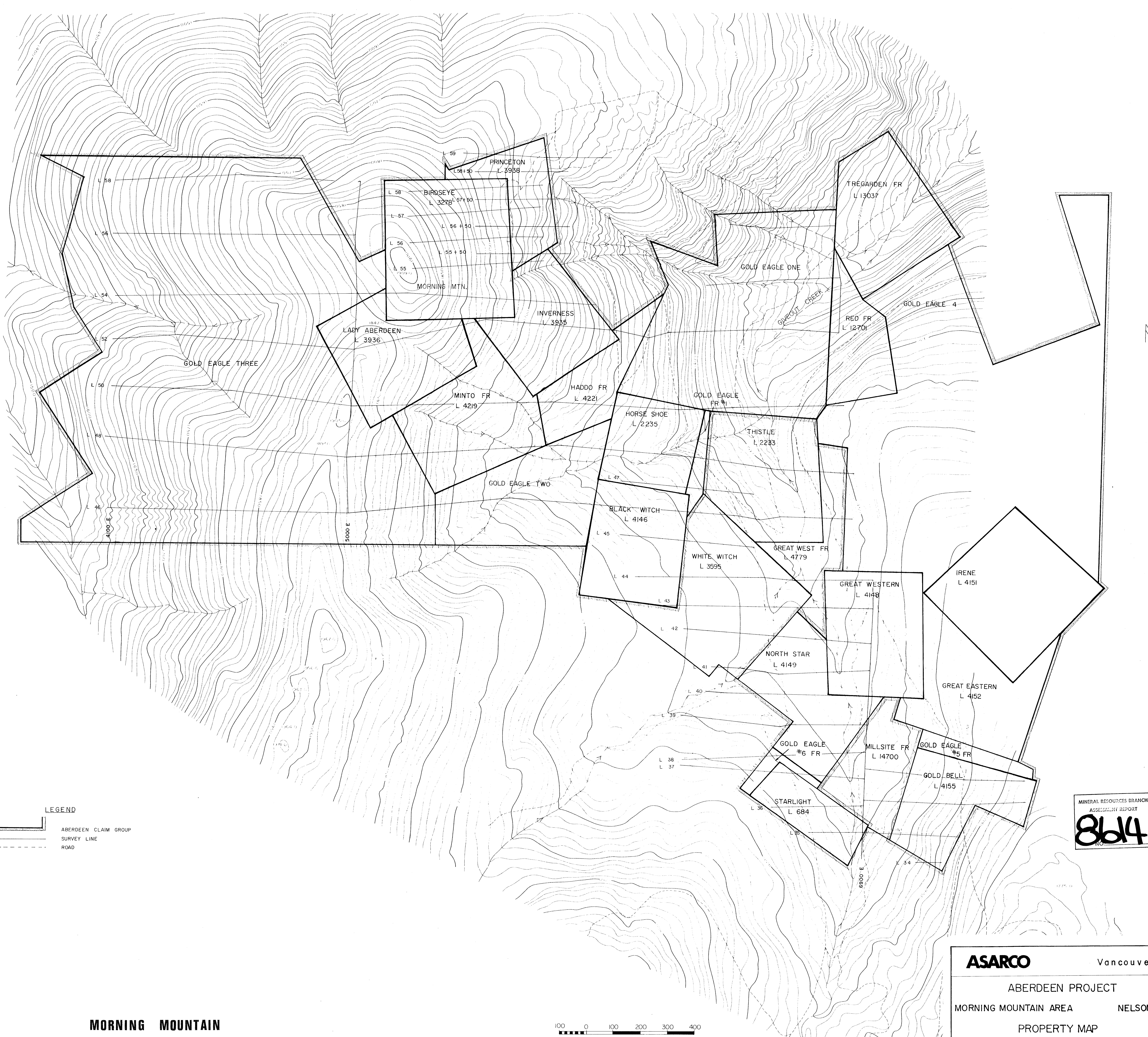
I am a registered Professional Engineer in the Province of British Columbia. I am a graduate of the University of Alberta (BSc - 1955), the University of British Columbia (MSc - 1957) and Stanford University (PhD - 1965).

I have practised my profession for the past 25 years and am presently employed by ASARCO Exploration Company as Manager - Western Canada.



Robert E. Gale

November 28, 1980

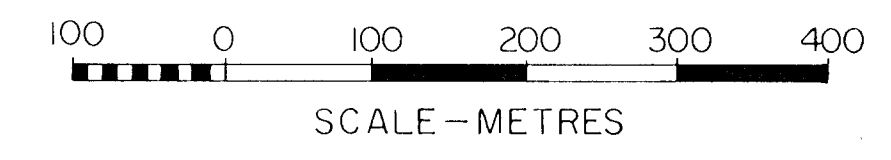


LEGEND

— ABERDEEN CLAIM GROUP
 --- SURVEY LINE
 - - - ROAD

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
8614
 NO.

MORNING MOUNTAIN

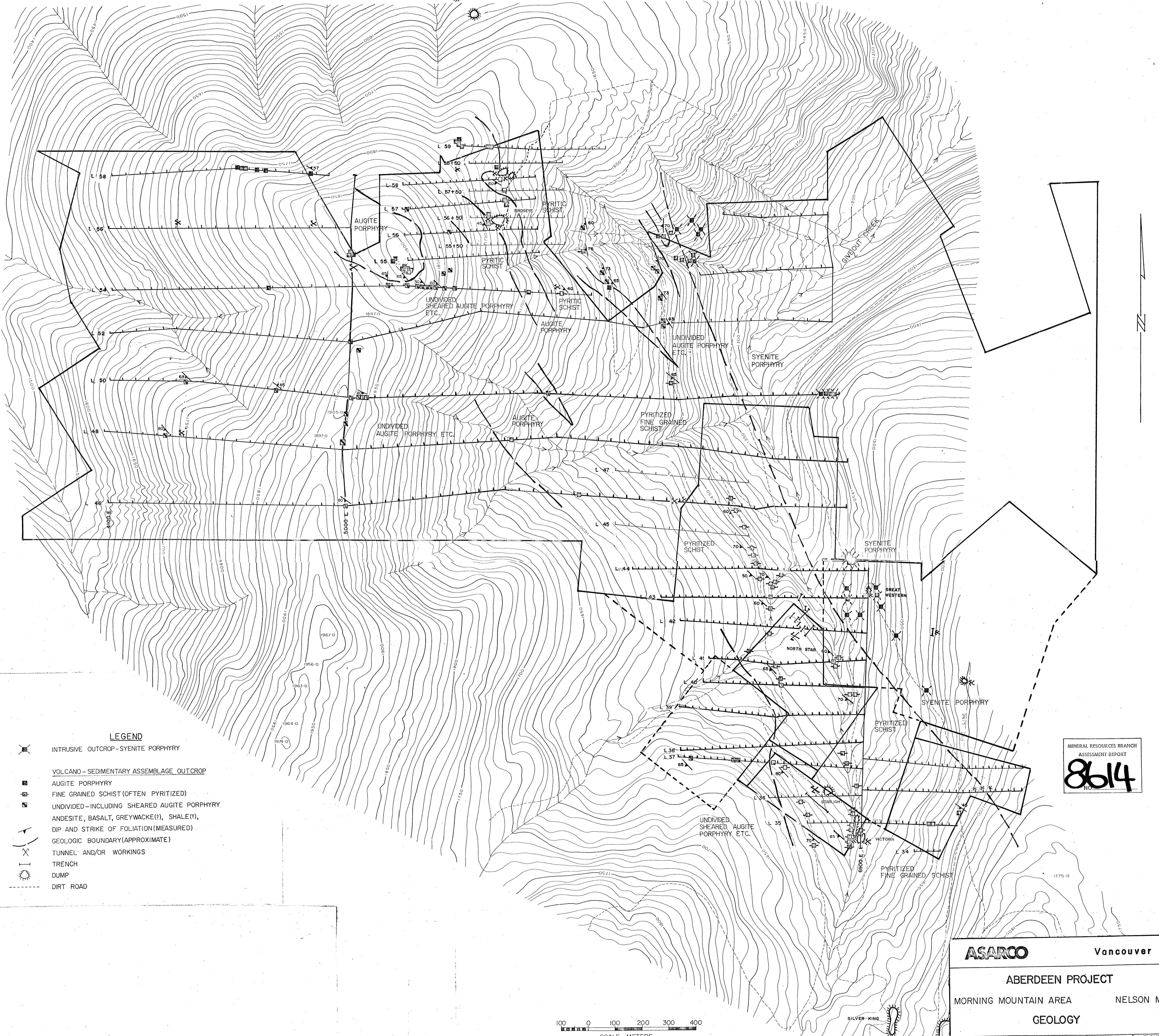


ASARCO Vancouver













ABERDEEN PROJECT
 MORNING MOUNTAIN AREA NELSON M.D.
 PROPERTY MAP

| Drawn by | Date | N.T.S. | FIGURE |
|----------|-----------|--------|--------|
| B. A. S. | AUGUST/80 | 82 F/6 | 2 |

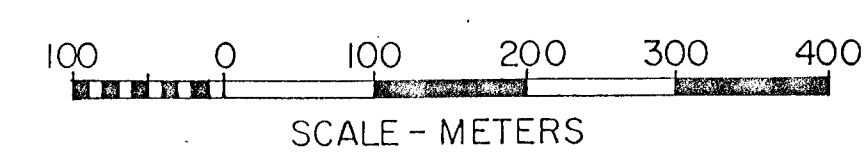
JUNO



LEGEND

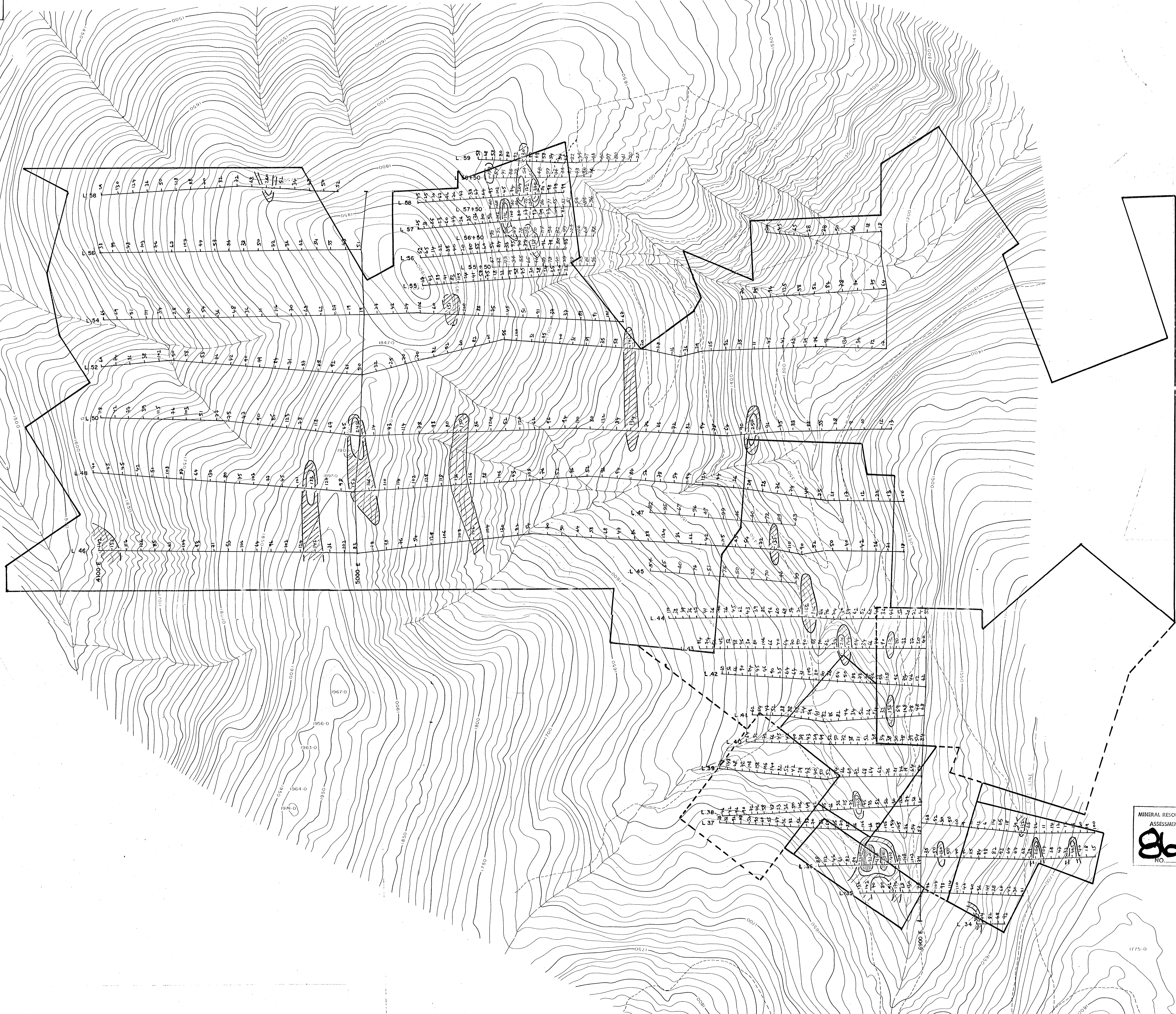
-  INTRUSIVE OUTCROP - SYENITE PORPHYRY
-  VOLCANO - SEDIMENTARY ASSEMBLAGE OUTCROP
-  AUGITE PORPHYRY
-  FINE GRAINED SCHIST (OFTEN PYRITIZED)
-  UNDIVIDED - INCLUDING SHEARED AUGITE PORPHYRY
-  ANDESITE, BASALT, GREYWACKE(?), SHALE(?)
-  DIP AND STRIKE OF FOLIATION (MEASURED)
-  GEOLOGIC BOUNDARY (APPROXIMATE)
-  TUNNEL AND/OR WORKINGS
-  TRENCH
-  DUMP
-  DIRT ROAD

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614
NO.



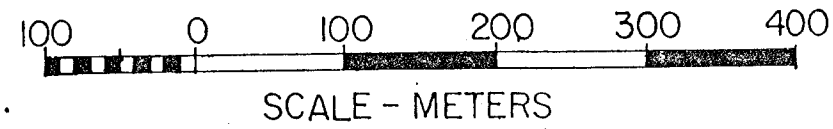
| | | | |
|-------------------------|-----------|-------------|--------|
| ASARCO | | Vancouver | |
| ABERDEEN PROJECT | | | |
| MORNING MOUNTAIN AREA | | NELSON M.D. | |
| GEOLOGY | | | |
| Drawn by | Date | N.T.S. | FIGURE |
| W.H.F. | AUGUST/80 | 82F/6 | 3 |

Cu.



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614
NO.

| EXPLANATION | |
|----------------------|-----------|
| COPPER-PPM | |
| BACKGROUND | 0 - 130 |
| WEAKLY ANOMALOUS | 130 - 180 |
| MODERATELY ANOMALOUS | 180 - 600 |
| STRONGLY ANOMALOUS | + 600 |

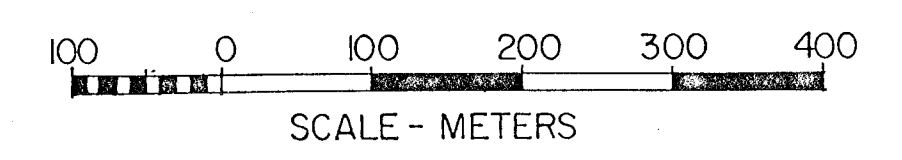


| | | | |
|-------------------------------------|-----------|-------------|--------|
| ASARCO | | Vancouver | |
| ABERDEEN PROJECT | | | |
| MORNING MOUNTAIN AREA | | NELSON M.D. | |
| SOIL GEOCHEMISTRY - Cu (ppm) | | | |
| Drawn by | Date | N.T.S. | FIGURE |
| W.H.F. | AUGUST/80 | 82F/6 | 8 |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614

| EXPLANATION | |
|----------------------|-----------|
| GOLD-PPB | |
| BACKGROUND | 0 - 50 |
| WEAKLY ANOMALOUS | 50 - 200 |
| MODERATELY ANOMALOUS | 200 - 400 |
| STRONGLY ANOMALOUS | + 400 |



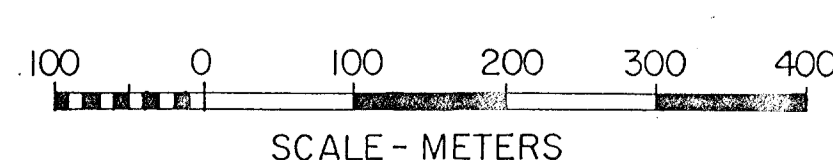
| | | | |
|------------------------------------|-----------|-------------|--------|
| ASARCO | | Vancouver | |
| ABERDEEN PROJECT | | | |
| MORNING MOUNTAIN AREA | | NELSON M.D. | |
| SOIL GEOCHEMISTRY- Au.(ppb) | | | |
| Drawn by | Date | N.T.S. | FIGURE |
| W.H.F. | AUGUST/80 | 82F/6 | 9 |

R.E. Gale



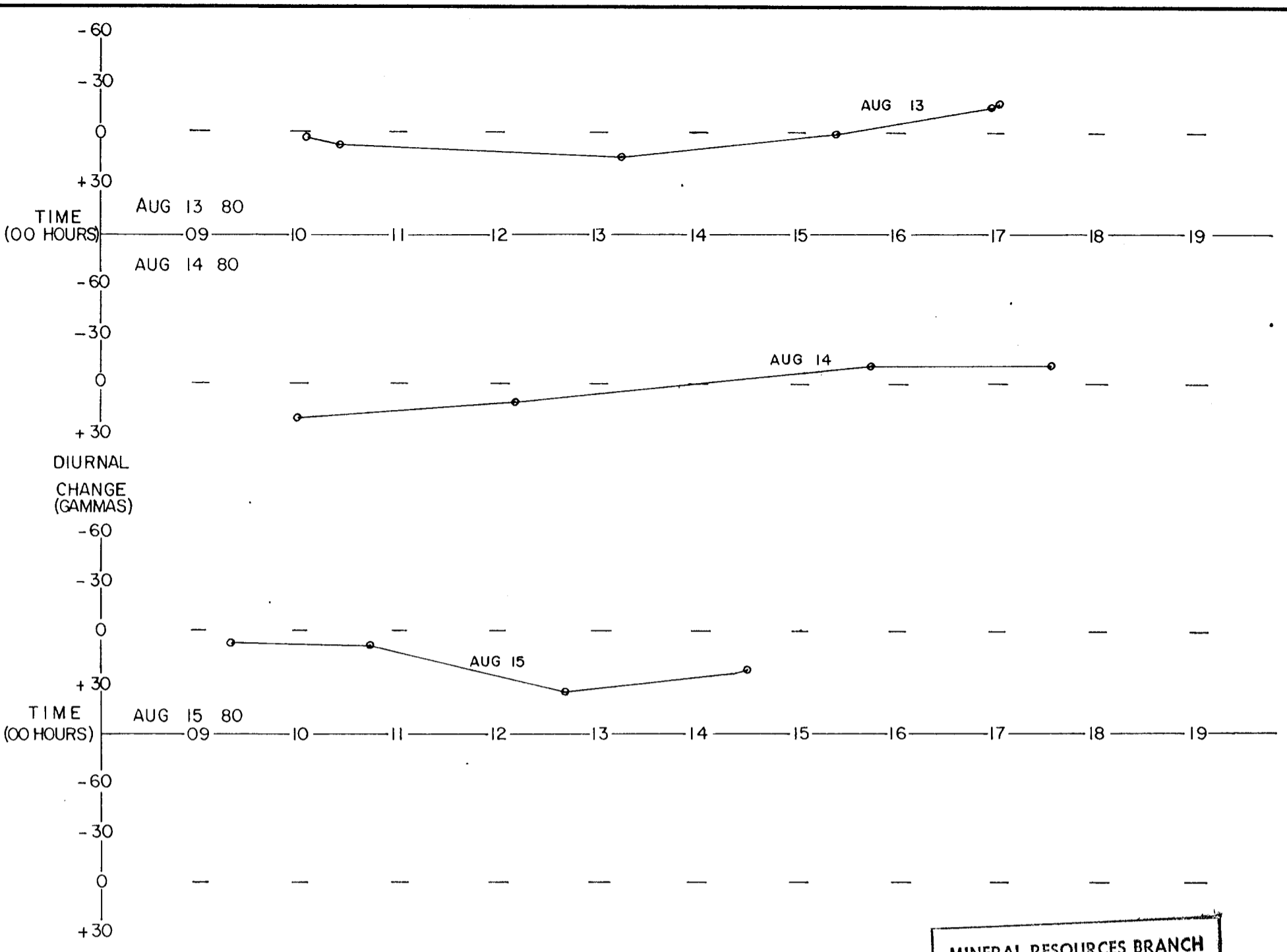
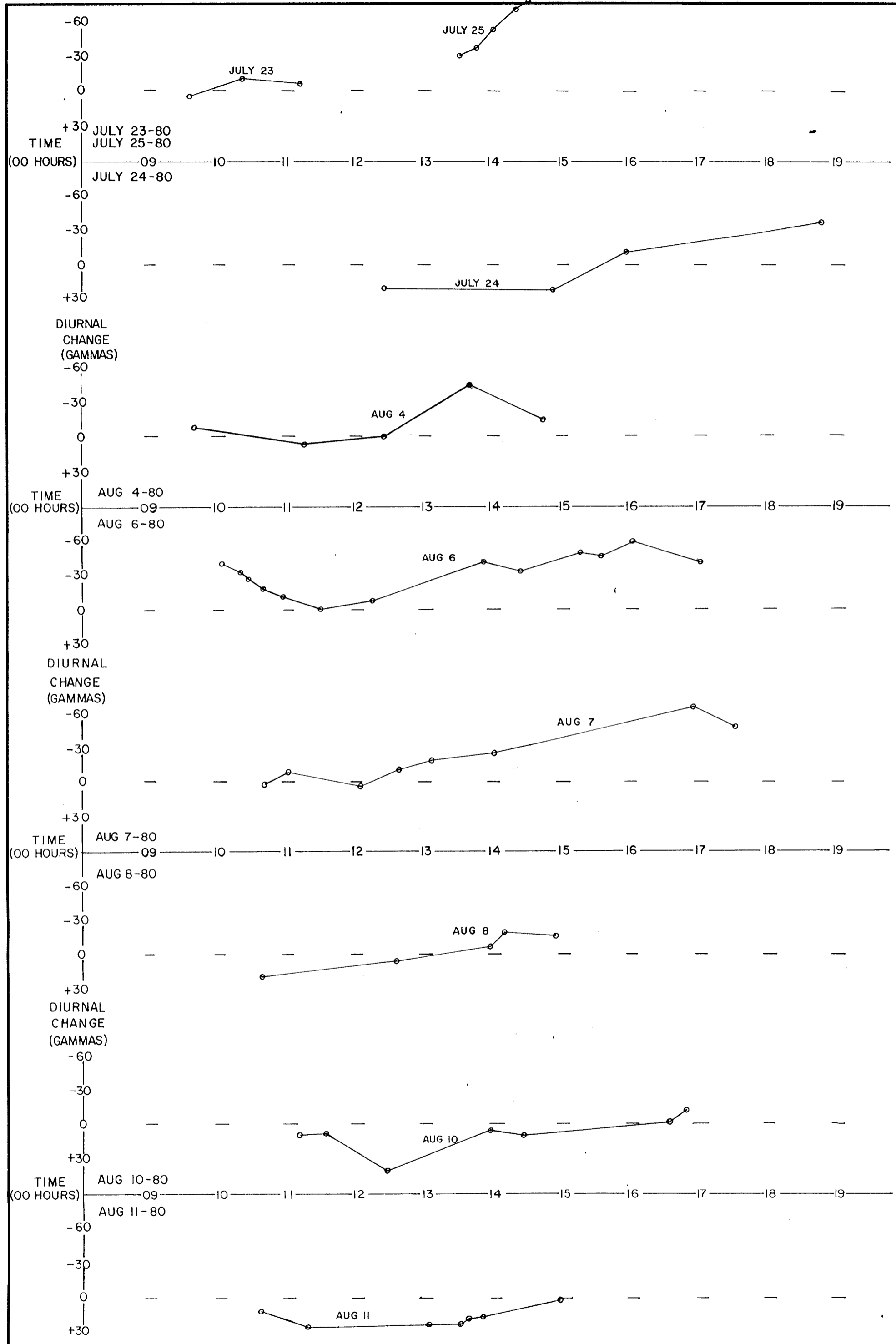
EXPLANATION
SILVER-PPM

| | | |
|----------------------|-----------|---|
| BACKGROUND | 0 - 1.1 | □ |
| WEAKLY ANOMALOUS | 1.1 - 1.4 | ▨ |
| MODERATELY ANOMALOUS | 1.4 - 2.8 | ▩ |
| STRONGLY ANOMALOUS | + 2.8 | ■ |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614
NO.

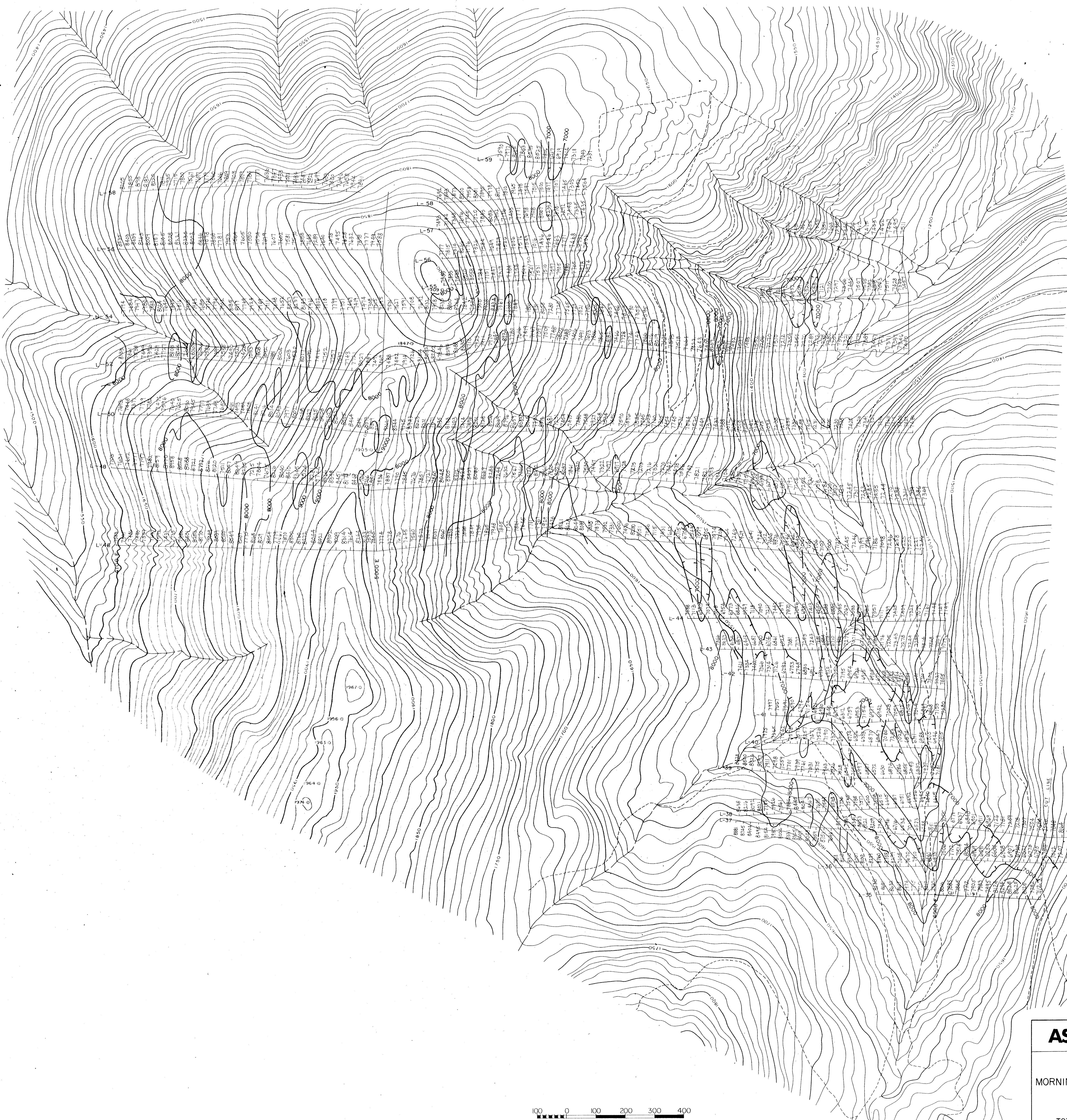
| | | | |
|-----------------------------------|-----------|-------------|--------|
| ASARCO | | Vancouver | |
| ABERDEEN PROJECT | | | |
| MORNING MOUNTAIN AREA | | NELSON M.D. | |
| SOIL GEOCHEMISTRY-Ag.(ppm) | | | |
| Drawn by | Date | N.T.S. | FIGURE |
| W.H.F. | AUGUST/80 | 82F/6 | 10 |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614
NO.

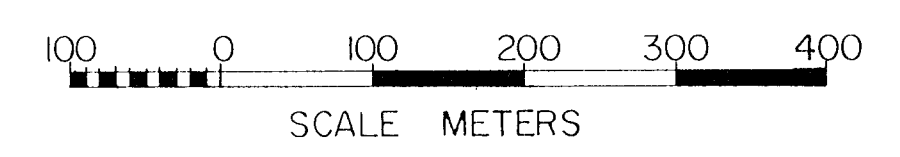
RE Sale

| | | | | |
|---|-----------|-----------|--|--------|
| ASARCO | | Vancouver | | |
| ABERDEEN PROJECT MORNING MOUNTAIN AREA NELSON M.D. MAGNETOMETER SURVEY DIURNAL VARIATION | | | | |
| Drawn by | Date | N.T.S. | | FIGURE |
| B. A. S. | NOV, 1980 | 82 F/6 | | 11 |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8614

| | | | |
|---|--------|-----------|--------|
| ASARCO | | Vancouver | |
| ABERDEEN PROJECT MORNING MOUNTAIN AREA NELSON M.D. MAGNETIC SURVEY INSTRUMENT: GEOMETRICS G-826 TOTAL INTENSITY - ADD 50,000 γ FOR ABSOLUTE VALUE | | | |
| Drawn by | Date | N.T.S. | FIGURE |
| B.A.S. | OCT/80 | 82 F/6 | 12 |



RE Sale