

5135

GEOLOGICAL-GEOCHEMICAL-GEOPHYSICAL REPORT

on the

94D/8E & 9E

BAP MINERAL CLAIMS

Nos. 5,8,9-19,21-23,25,26,30 and 34

owned by BP MINERALS LIMITED

KLIYUL CREEK AREA

Omineca Mining Division, B.C.

located 7 miles S.S.E. of Johanson Lake, B.C.

(126°05' Long., 56°29' Lat.)



BY: D.K. Mustard, P. Eng.

September 12, 1974

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 5135 MAP.....

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SUMMARY

During the period of July 22 to August 13, 1974, a six man crew completed geological mapping, a geochemical, magnetometer and electromagnetic survey on the Bap claims, located approximately seven miles south southeast of Johanson Lake in the Omineca Mining Division, B.C.

The property comprises twenty claims, Bap 5,8,9-19,23, 25,26,30 and 34 which are underlain by folded and sheared tuffs of the Upper Takla Group, intruded by feldspar porphyry dykes and in the southwest by a small hornblende monzonite stock.

Massive and disseminated chalcopyrite, malachite and pyrite with minor galena and sphalerite occur in several north and northwest trending quartz veins. Chalcocite along fracture surfaces in a one foot wide zone, having a strike length of 200 feet was located during channel sampling on Bap 18. Numerous narrow intervals of malachite and manganese staining were located in gossanous ash tuffs.

A molybdenum geochemical anomaly immediately above the hornblende monzonite may represent a contact effect with the overlying volcanics at the time of intrusion. A zone of copper enrichment is in close proximity to the area of chalcocite mineralization and to chalcopyrite along quartz veins located upslope.

A marked zinc enrichment is noted near the centre of the gossan.

The ground magnetometer survey indicates a strong linear anomaly on the southwestern edge of the grid, which is thought

to be a hornblendite contact margin between the hornblende monzonite and gossanous ash tuff.

The electromagnetic survey did not reveal the presence of any conductors indicative of massive sulphide deposits within 100 feet of the surface on the Bap grid.

Further geological mapping of the monzonite and of lithologies adjacent to the gossan are indicated. The zinc anomaly and chalcocite mineralization warrant further investigation.

INTRODUCTION: -

During the period July 22-August 13, 1974, 3 line miles of grid were established and geological mapping, a geochemical (talus, soil, rock chip) survey, a ground magnetometer survey and an electromagnetic survey were completed on the Bap Claims by 10 field personnel, working under the direction of the author.

The Bap property comprises 20 claims, Bap 5,8,9 to 19, 23,25,26,30 and 34; all claims owned by BP Minerals Limited.

LOCATION AND ACCESS: -

The BAP Mineral Claims are situated in the Omenica Mining Division, approximately 7 miles south southeast of Johanson Lake and 14 miles northwest of Aiken Lake, along the northeast flank of the headwaters of Kliyul Creek.

Access to the property is by helicopter from Johanson Lake, current end point of the Omenica Highway from Fort St. James, under construction by the British Columbia Department of Mines and Petroleum Resources. Johanson Lake is accessible by float plane and the local airstrip is serviced during summer months by Twin Otter out of Prince George.

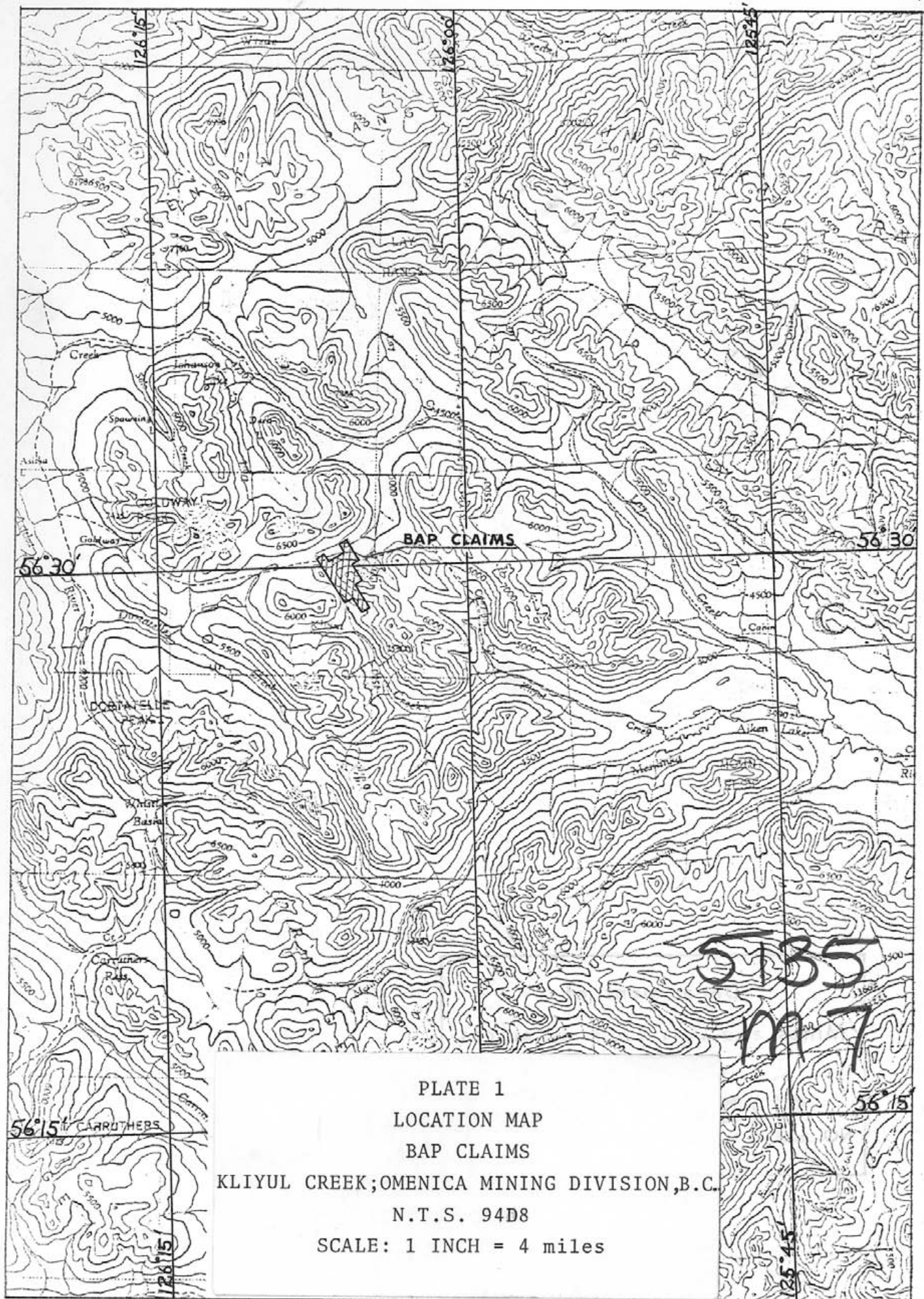


PLATE 1
 LOCATION MAP
 BAP CLAIMS
 KLIYUL CREEK; OMENICA MINING DIVISION, B.C.
 N.T.S. 94D8
 SCALE: 1 INCH = 4 miles

FIELD WORK

Grid Preparation: - A 4-man crew from AMEX Exploration Services Ltd. working July 28,29, 1974, established 3 line miles of grid over Bap Claims nos. 9,10,13 to 15,18 and 19. A northwest-southeast base line was transited (107⁰ mag) for 2800 feet from the west center of Bap 10 to the center of Bap 18. The base line (100 E on each cross line) was surveyed by transit and chain with 400-foot stations, from line 800 N in the southeast to line 828 N at the northwest end. Compass and tape traverse lines were established at right angles to the base line, from each 400-foot station on the base line. Stations were set and marked every 100 feet by multicolored flagging and every 200 feet by pickets, along each line. The whole of the grid was tied by topography and altimeter elevation, to the orthophoto, at a scale of 1 inch = 1000 feet. The grid was later used for control in geological mapping and for the geochemical, magnetometer and electromagnetic surveys.

Orthophoto: - An orthophoto was prepared for the BAP CLAIMS by McElhanney Surveying and Engineering Limited. The orthophoto is an aerial photo mozaic of the Bap Claim area, corrected for horizontal scale distortions, with superimposed contour lines (contour interval 50'); scale 1 inch equals 1000 feet. The 1000-foot scale photo was used for reconnaissance mapping of the BAP Claims and a 500-foot scale topographic enlargement for detailed surveys on the grid.

Geological Mapping: - Two geologists spent 15 man days mapping the Bap Claims.

The grid, which covers a prominent gossan, was geologically mapped at a scale of 1 inch equals 500 feet. Reconnaissance mapping, adjacent to the Bap Claims, at a scale of 1 inch equals 1000 feet, was designated to evaluate the local geological setting with a view to better understanding the rock units which are poorly exposed in the gossan area. Rock chips of possible mineralized lithologies were taken in several locations both on and off the grid. Good control was afforded by the grid and orthophoto.

Geochemical Survey: - A geochemist and a sampler spent 6 man days sampling soil and talus on the grid and in an adjacent cirque at a station interval of 200 feet. In addition, the gossan area was channel sampled between lines 800 N and 804 N over a traverse length of 700 feet; samples represent continuous rock chipping over 5-foot outcrop sections. A total of 344 geochemical samples were collected and analyzed by atomic absorption for total copper, molybdenum and zinc by Vangeochem Lab Ltd., 1521 Pemberton Avenue, North Vancouver, B.C.

Magnetometer Survey: - An operator using a Sharpe M.F.I. fluxgate magnetometer spent 1 day, with helicopter support surveying the grid. Magnetic measurements were taken on the Bap grid at station intervals of 200 feet on cross lines 400 feet apart.

Electromagnetic Survey: - An operator and assistant using a JEM ground electromagnetic survey unit, spent 2 days with helicopter support, surveying the grid. Electromagnetic measurements were made at 100-foot station intervals over the Bap grid.

GENERAL GEOLOGY: -

The Bap mineral claims are underlain for the most part by volcanic rocks of the lower Jurassic, Upper Takla Group. These have been intruded by feldspar porphyry dykes and sills, minor quartz monzonite dykes and, along the southwestern claims, by a small stock of biotite hornblende monzonite having an ultra-mafic hornblendite margin.

Takla Group rocks are generally moderately to strongly sheared and locally pyritiferous, gossanous and moderately silicified. Bedding where available strikes approximately 160° dipping 30° E. Regional shearing in the volcanics most commonly strikes 140° , with dips steep to the northeast. Pyrite, chalcopyrite, chalcocite and minor galena are found in the monzonite or the ash tuffs.

1) Takla Volcanics and Sediments: -

The stratigraphically lowest exposed rocks of the Takla are dark green or grey fine grained, andesitic ash tuffs. Mafics in the ash tuffs are moderately altered to chlorite. Feldspars are weakly to moderately altered to clay minerals, epidote and sericite.

To the northwest of line 804 N on the Bap grid the ash tuff unit contains abundant fine grained pyrite and is generally recessive and gossanous. The tuffs in this area are strongly sheared and chloritized with numerous outcrops of chlorite schist; several bands of less recessive outcrop generally indicate strongly silicified zones within the tuff. Several sills and dykes

of poorly exposed feldspar porphyry were noted in shear zones cutting the gossan. The southeast extent of the gossan (near line 800 N) is bounded by a fault which strikes approximately north.

West and north of the fault, moving up section, the Takla volcanics are predominantly grey to black andesitic lapilli tuffs with minor outcrop of agglomerate. These pyroclastics are commonly monolithic, with fragments, having essentially the same composition as the matrix. The lapilli tuffs have a high content of altered augite together with abundant feldspar.

A few "bands" of pyritiferous ash tuffs, "greywacke" and black, sooty, calcareous argillite were mapped at the 7000' level. These beds contain up to 3% very finely disseminated pyrite and locally form small gossans.

Very minor outcrops of dark green andesitic flows were mapped south of the grid on Bap #30. These appear to have the same composition as the augite rich pyroclastics and as such are difficult to distinguish. Another flow seen in minor outcrop on Bap #34 was an amygdaloidal hornblende andesite porphyry.

2) Intrusive Rocks: -

Ultramafic-Hornblendite: - This unit is best exposed near station 804 N - 94 E in a contact zone between a hornblende monzonite and the gossanous ash tuff. The ultramafic appears to form a margin to the monzonite intrusion, some 10 meters wide, composed of hornblende, biotite and feldspar. Feldspar content is generally less than 10% of the volume of the rock. The hornblendite is strongly magnetic indicating high magnetite content

and though pyrite is absent, minor malachite staining indicates traces of disseminated chalcopyrite.

Hornblende Diorite-Gabbro: - This intrusion was mapped on and southeast of Bap #30 and #34; it is medium grained equigranular with anhedral to subhedral hornblende crystals, is strongly magnetic and exhibits abundant disseminated magnetite. The color index is highly variable from 20-60% with an average of perhaps 35%. Ultramafic-hornblendite is spatially related to this intrusion, however no contact relations were observed. It was not ascertained whether these hornblendite rocks are phases of the same igneous complex or are discreet intrusive bodies.

Hornblende Monzonite: - This unit underlies Bap Claims nos. 9, 13,17,21 and consists of a weakly epidotized medium grained, equigranular rock containing to 10% hornblende, moderately altered to chlorite. Feldspars are weakly altered to epidote and in lesser extent sericite. Fracturing is variable in minor outcrop to 24 fractures per square foot. Quartz veins cutting the monzonite vary from .25 to 1 inch wide, are generally widely spaced and carry disseminated chalcopyrite and show malachite staining.

"Felsite" Porphyry: - This unit generally occurs as wide scattered, rather small dykes of limited extent. The "felsite" is a subtly foliated, porphyritic, leucocratic rock, off white to beige with a color index between 5-10%. The acicular hornblende in the matrix has been pervasively altered to chlorite. Epidotized, broadly tabular plagioclase phenocrysts range from .3 cm-1 cm in diameter.

Quartz Monzonite: - A medium grained, equigranular intrusive containing both hornblende and biotite phenocrysts. Quartz forms up to 25% of the few outcrops of this unit, mapped on Bap claims #25 and 26. Background chlorite-epidote alteration is pervasive in this unit. Contacts with other intrusives are not visible due to the recessive nature of the outcrop area. This unit is moderately sheared and weakly fractured.

STRUCTURAL GEOLOGY:-

Where bedding attitudes were visible in unaltered tuffs and limy argillites of the Takla Group, strikes averaged 160° varying 155° - 180° with dips varying 20° - 35° E. The pyroclastics are generally massive and attitudes difficult to observe.

Regional shearing strikes approximately 140° and dips steeply to the northeast. Foliation in the tuffs of the gossan zone largely conforms to the regional trends. The most pervasive shearing extends from the gossan zone through the southeast head-wall of the cirque cutting Bap #30. Other common shearing directions in the volcanics were at 100° , 115° , 130° , 145° , 160° dipping steeply north and east.

A major fault near line 800 N striking approximately north marks the southeastern boundary of the gossan covering the north and central Bap claims. The fault is marked by the end of the gossan in a zone of shattered and recessive outcrop, with differing volcanic lithologies either side of the fault. The sense of movement along the fault is obscure due to a lack of local, unaltered outcrop.

ECONOMIC GEOLOGY: -1) Mineralization: -

Three main types of mineralization were noted on the property; sulphides in quartz veins, minor sulphides as "smears" along fractures and fracture fillings and minor disseminated sulphides in pyroclastics.

The quartz veins are widespread, range from .25-1 inch wide and carry disseminated and semi-massive chalcopyrite, pyrite, and minor galena and sphalerite. Quartz type mineralization is found in the monzonite near contact with the gossanous ash tuffs and in heavily chloritized shear zones within the tuff unit. In the shear zones in minor outcrop, chalcopyrite ranges up to 15% and is coarse bleb to massive. Occasional shear zones carry some malachite but little or no chalcopyrite with the quartz.

Chalcocite has been recognized over a 1 foot zone of a 10-foot, malachite-manganese dendrite, stained band (in channel sampling traverse, near the base line on line 803 N), which is laterally continuous for 200 feet before disappearing under talus. This zone occurs in the ash tuff unit, locally carrying 3% disseminated pyrite and assays up to 2.15% copper. The chalcocite occurs as a discontinuous "smear" along closely spaced fractures.

Minor disseminated chalcopyrite was noted in porous, black, augite rich, monolithic pyroclastic. This subtly mineralized unit, local to Bap #23, contains up to 1% very fine grained chalcopyrite with minor malachite over a 40-foot outcrop area.

The ash tuff unit is discontinuously mineralized, over several narrow intervals by a combination of malachite and manganese dendrite staining.

The gossan area of the ash tuff and numerous "stain" zones in the hornblende diorite unit, contain disseminated blebby pyrite and fracture fill pyrite varying from 1% to 5%. Most gossanized zones are marked by shearing and silicification.

2) Structure: -

Mineralized quartz veins appear to conform closely to prominent directions of shearing. In the gossanous ash tuff, quartz veins typically follow the regional shearing, striking approximately 140° dipping $45-60^{\circ}$ northeast; while in the monzonite, quartz veins commonly strike 100° , 140° , $170^{\circ}-190^{\circ}$ and dip $65-85^{\circ}$ north and east. Pyrite in the tuffs is found as disseminations, disseminated along microshears and as fracture fill. Again, shearing conforms to the regional orientation of 140° , dipping 80° northeast. The chalcocite occurrence appears to be controlled by a narrow zone of closely spaced fractures that strike 170° and dip 80° E.

GEOCHEMICAL REPORT

Soil and talus sampling: - Samples were collected at 200-foot intervals along a northern grid whose lines were 400 feet apart and at 200-foot intervals along lines on other parts of the property. Approximately 0.5 kg of soil or talus fines were collected at each station, avoiding large pebbles as much as possible, and placed in a numbered wet strength, 8 by 24 cm kraft paper envelope. Because most of the property is overlain by talus cones, the sample depth was generally 0 to 5 cm. If soils were encountered, the top of the B horizon at 10 to 20 cm depth was chosen. Sample sites off the grid were marked by plastic flagging tape.

Samples were returned to base camp and dried in a field oven, sorted according to sampler and sample number, disaggregated by pounding with a rubber mallet and sieved at 10 and 80 mesh. The +10 mesh fraction was used to prepare pebble cards according to a procedure reported by Hoffman (1974) in the "Journal of Geochemical Exploration". The -80 mesh fraction was submitted to Vangeochem Lab Ltd. for chemical analysis of trace metals.

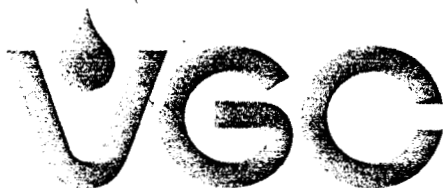
Bedrock sampling: - Bedrock samples were collected as:

- (a) discontinuous chip channel samples
- (b) areal chip samples

Bedrock samples generally contained 0.5 kg of rock chips. Discontinuous chip channel samples represented 10 feet of bedrock surface. Areal chip samples represented 30 square feet of exposed rock. Chip samples were collected using a geological pick in a regular fashion to avoid sampling bias.

Chips were placed into a numbered 8 by 24 cm wet strength kraft paper envelope and sent to Vangeochem Lab Ltd. for crushing and geochemical analysis.

Trace Metal Determination: - The following report by Vangeochem Lab Ltd. outlines the procedure used to determine acid soluble Mo, Cu, Pb, and Zn in geochemical samples.



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

TO: B. P. Minerals Ltd.,
405 - 1199 West Pender Street,
Vancouver, B. C.

FROM: Mr. Conway Chun,
Vangeochem Lab Ltd.,
1521 Pemberton Avenue,
North Vancouver, B. C.

SUBJECT: Analytical procedure used to determine acid soluble
Mo, Pb, Zn, Cu, Ag in geochemical samples.

1. Sample Preparation

- (a) Soil and silt samples analyzed as received.
- (b) Rock chip samples first crushed and then pulverized to 100 mesh by using Siebtechnik Disc mill.

2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Mo, Pb, Zn, Cu and Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamp. The digested samples were aspirated directly into an air and acetylene

Continued.....

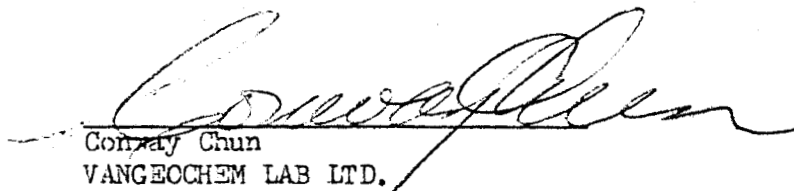


VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

-2-

flame. Mo analyses were aspirated into nitrous oxide and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

4. The analyses were supervised or determined by Mr. Conway Chun, and the laboratory staff.


Conway Chun
VANGEOCHEM LAB LTD.

CC:smb

pH determination: - pH was determined on the -10 +80 mesh sample splits by a modified procedure in current use at the Soil Science Department of the University of British Columbia. Approximately 16 gm of sample was placed in a 100 ml dixie cup to which 20 ml of deionized water was added. The suspension was stirred at 0, 15 and 30 minutes and allowed to stand 30 minutes prior to pH determination. pH measurements were made using a combination glass electrode and a calibrated Orion Model 401 pH meter. Calibration standards were included every 100 determinations to check on instrument drift. About two percent of the determinations were duplicate analysis used to check the precision of the technique.

GEOCHEMICAL INTERPRETATION

Introduction: - Trace metal levels in soils and talus samples were assumed to conform to a log normal distribution. Data were transformed to logarithmic values and the mean content, range (mean minus one standard deviation to mean plus one standard deviation, (M-1SD) to (M+1SD)) and threshold (mean plus two standard deviations, (M+2SD)) values were calculated (Table 1). Maps were plotted utilizing a symbol notation. Each symbol represents a range of trace metal concentrations and was chosen to indicate a statistical interval around the mean value. In order of size from smallest to largest they represent:

< mean (M) - 2 standard deviations (SD)
 (M-2SD) to (M-1SD)
 (M-1SD) to (M)
 (M) to (M+1SD)
 (M+1SD) to (M+2SD)
 (M+2SD) to 2(M+2SD)
 >2(M+2SD)

T A B L E 1Comparison of trace metal levels in soils and talus

		Soils	Talus
Mo (ppm)	Threshold	27	22
	Mean	6	5
	Range	3-13	3-11
Cu (ppm)	Threshold	598	963
	Mean	133	225
	Range	63-282	109-466
Zn (ppm)	Threshold	522	388
	Mean	119	112
	Range	57-249	60-208
Number of Samples		23	197

Actual concentration values for soils and talus fines are listed in Appendix 3, which also shows sample identification (ID) and grid coordinates. Appendix 4 lists channel sample and other selected bedrock data. Appendix 5 is a graphical comparison of the trace metal levels in soils and talus fine data.

The soil and talus results indicate the same anomalous areas and both surveys are treated as one for the purpose of interpretation.

Results: - The gossan zone is overlain by three anomalies, each indicated by a different element. Mo enrichment is localized towards the base of gossanized area immediately above the hornblende monzonite. This zone may represent a contact effect associated with the intrusion whereby Mo was introduced into overlying country rocks at the time of its emplacement. An area of more subtle anomalies (5 to 11 ppm) upslope may be related to quartz veins or sills of dioritic intrusion.

One zone of copper rich overburden is indicated where values range between 466 and 963 ppm. The zone lies in close proximity to the lower trench along which malachite and manganese dendrite staining and chalcocite was observed. Part of the anomaly may also be caused by copper mineralization along quartz veins common to this part of the property.

The zinc distribution shows an area having slight enhancement adjacent and upslope of the hornblende monzonite intrusion and a marked enrichment towards the centre of the gossan. Highest values lie along the most northerly line. No explanation is offered at present to explain this anomaly.

GEOPHYSICAL REPORT

1. Instrument Specifications and Survey Procedures1.1. The Magnetic Survey

The survey was carried out using a direct reading Sharpe M.F.I. fluxgate magnetometer, manufactured by Sharpe Instruments of Canada Limited, now the instrument manufacturing division of Scintrex Limited, Toronto, Ontario. The instrument measures variations in the vertical component of the earth's magnetic field to an accuracy of ± 10 gammas on the most sensitive scale.

Magnetic measurements were made at 200-foot station intervals, on cross lines 400 feet apart. These cross lines trend approximately northeast-southwest. Corrections for diurnal variation of the earth's magnetic field were made by tying-in to a previously established base station at intervals not exceeding one hour. By surveying in this manner it is generally possible to repeat any reading on the property to within ± 20 gammas.

The results of the magnetometer survey, that is the relative readings of the vertical component of the earth's magnetic field, measured in gammas, are shown in contour form on map number 4. The contour interval is 500 gammas and the horizontal scale of the map is 1 inch represents 500 feet.

1.2. The Electromagnetic Survey

The survey was carried out using a JEM ground electromagnetic survey unit manufactured by Crone Geophysics Limited, Toronto, Ontario.

In general an inductive electromagnetic system consists of two coils viz. the transmitting coil and the receiving coil. In the normal scheme of field surveys these two coils do not change their roles, however in the JEM system, known also as the Shootback method, two identical coils are used to transmit and/or receive alternately. This method eliminates errors introduced by rugged topography due to elevation differences, misalignment and separation variations between the transmitting and receiving coils.

The field operation of the Shootback method is that of a moving source inductive system, that is, both the transmitting and receiving coils are maintained at constant separation and moved in unison along the survey lines. At each station one coil, the transmitter, is held with its axis at 15° to the horizontal and the other coil, the receiver, measures the dip angle produced by this configuration. The role of the coils is now reversed and a second dip angle is measured. The inclinometers for measuring the dip angles are designed such that the dip angle in one case is negative and in the other case is positive. Thus the reading recorded for the station midway between the two coils is the sum of the dip angles obtained at both positions and is zero when no conductor is present. The presence of a conductor distorts both of the transmitted fields with the resultant sum not equal to zero but dependent on the shape, position, size and conductivity of the body. Measurements at two frequencies, 480 Hz. and 1800 Hz. were made at each station.

Electromagnetic measurements were made at 100-foot station intervals over the same grid lines as used for the magnetic survey.

The results of the electromagnetic survey, that is the profiles of the resultant dip angle measurements at both frequencies, are shown on map number 3. The vertical scale is 1 inch equals 20 degrees and the horizontal scale of the map is 1 inch represents 500 feet.

2. Discussion of Results

2.1. The Magnetic Survey

The average background magnetic response over the grid area is slightly less than 1500 gammas. This area is known to be underlain by strongly pyritized fine grained tuffs cut by feldspar diorite(?) porphyry dykes with no differentiation possible between the two rock types on the basis of the magnetic data alone.

The main feature of the magnetic map is a strong linear anomaly reaching almost 3000 gammas on the southwest(?) edge of the grid. This anomaly is most probably caused by a band of hornblendites occurring at the margin of a quartz(?) monzonite intrusion.

2.2. The Electromagnetic Survey

The electromagnetic survey did not indicate the presence of any conductors which may be indicative of massive sulphide deposits occurring within 100 feet or less of surface. The slight variation in the electromagnetic response is attributed to a combination of normal instrument and geological noise levels.

A P P E N D I X E S 1 T O 5

APPENDIX 1

STATEMENT OF COSTS: credit for assessment work itemized below to be applied to
BAP CLAIMS, Nos.:5,8,9-19,23,25,26,30,34.

1) Geological Mapping:					
M. Bradley	1 geologist	July 31; Aug. 1/5/6/12	5 man days	\$33/day	\$165
D. Hunter	1 geologist	Aug. 2/3/5/7/8/9/10/11/12/13	10	31/day	310
2) Geochemical Survey:					
G. Seid	1 sampler	July 22,23,24,25	4	\$22/day	88
S. Hoffman	1 geochemist	July 25; Aug. 9	2	45/day	90
3) Magnetometer Survey:					
D. Baker	1 student	Aug. 5	1	\$24/day	24
4) Grid Preparation (see attached billing):					
	4 men	July 28,29	8	\$70/man day	560
5) Electromagnetic Survey:					
	2 men	Aug. 7 & 9	4	\$155/line mile x 2.2 line miles	341
6) Food/Accommodation:					
	total: 11 men		34	@ \$15/man day	510
7) Helicopter Support: G3B-2 (\$160/hour)					
i)	Geological Mapping-Geochemical Survey:		3.0 hours		
ii)	Geophysical Survey		2.5		
iii)	Grid Preparation		1.5		
			total: 7.0 hours	@ \$160/hour	<u>1120</u>
					\$3208

AMEX EXPLORATION SERVICES LTD.

A.A. (AB) ABLETT

Confidential Work



BUS. 376-7490
RES. 374-1123

204, 635 VICTORIA STREET

BOX 286
KAMLOOPS, B.C.

6 September, 1974

BP Minerals Limited,
405-1199 West Pender Street,
Vancouver, B.C.
V6E 2R1


Dear Sirs:

The following is a breakdown of our personnel engaged, and direct costs incurred during completion of 3 miles of grid preparation on your BAP group, Kliyul Creek Area, Omineca M.D. This program was completed July 28 and 29, 1974:

<u>Personnel Engaged</u>	<u>Time Expended</u>	<u>Wages</u>	
C. MacDonald	2 days	\$140.00	
P.F. Cox	2 "	\$140.00	
D. Ringer	2 "	\$140.00	
T. Keehn	2 "	\$140.00	
		\$560.00	\$560.00
 <u>Direct Costs</u>			
8 man-days	Board and accommodation @ \$15/day		\$120.00
	Total cost		<u>\$680.00</u>

YVT

Job #74-11.



A.A. Ablett, President,
Amex Exploration Services Ltd.

APPENDIX 2BAP CLAIMS AND OWNERSHIP

CLAIM No.	RECORD No.	TAG No.	Record Date	Expiry Date
5	127997	449905	13/8/73	13/8/74
8	128034	449946	4/9/73	4/9/74
9	127999	449909	13/8/73	4/9/74
10	128000	449910	13/8/73	4/9/74
11	128001	449911	13/8/73	4/9/74
12	128002	449912	13/8/73	4/9/74
13	128003	449913	13/8/73	4/9/74
14	128004	449914	13/8/73	4/9/74
15	128005	449915	13/8/73	4/9/74
16	128006	449916	13/8/73	4/9/74
17	128007	449917	13/8/73	4/9/74
18	128008	449918	13/8/73	4/9/74
19	128009	449919	13/8/73	4/9/74
21	128035	449947	4/9/73	4/9/74
22	128036	449948	4/9/73	4/9/74
23	128011	449923	4/9/73	4/9/74
25	128013	449925	4/9/73	4/9/74
26	128014	449926	4/9/73	4/9/74
30	128018	449930	4/9/73	4/9/74
34	128022	449934	4/9/73	4/9/74

Claims owned by BP Minerals Limited
#405-1199 West Pender Street
Vancouver, B.C.

Assessment work paid for by BP Minerals Limited

APPENDIX 3

Sample type, sample number, east and north grid coordinates, field notes and Mo, Cu and Zn data (ppm) are listed. 50 represents soil sample field and analytical data, 60 represents talus fine sample field and analytical data, and 80 represents bedrock sample field data only.

SAMPLE
TYPE

ID

EAST NORTH

SAMPLE TYPE	ID	EAST	NORTH				Mo	Cu	Zn	
5074505	770784	X7010200	082800	94D08	3211193	21002C8BFX	85140SW	32	215	142
5074505	770788	XK0094000	082800	94D08	2311119	2350558BF22449	65110	7	460	101
5074505	770794	XK0105000	082000	94D08	3211119	22C05C8BF224	40S	9	210	251
5074505	770796	XK0104000	082000	94D08	3211119	2600758BF20 47	40S	5	25	65
5074505	770798	XK0103000	082000	94D08	3211119	2350458BF24463	60140S	10	90	165
5074505	770799	XK0102000	082000	94D08	3211119	2300408BF22463	60140S	8	155	300
5074505	770800	XK0101000	082000	94D08	3211119	2900958BF23436	60135SW	14	52	80
5074505	770802	XK0100000	082000	94D08	3211119	2900958BF22434	70135SW	8	150	260
5074505	770806	XK0092000	082000	94D08	131219	215030PBM1238	20110NE	4	100	65
5074505	770810	XK0108000	080800	94D08	3212192	2030078BF2266	30135S	3	390	350
5074505	770811	XK0106000	080800	94D08	3211183	215030PBF2265	20135S	6	157	430
5074505	770813	XK0102000	080800	94D08	3211193	2070208BFX	33140SW	5	110	80
5074505	770819	XK0098000	080800	94D08	3211193	2050158BF23443	30145S	35	177	55
5074505	770821	XK0096000	080800	94D08	3211193	21502C8BFX224	40S	10	156	120
5074505	770823	XK0095000	080800	94D08	3225192	210025CBG143	20145S	2	25	55
5074505	770835	XK0094000	080000	94D08	312152	215030PBM1226	30145SW	3	95	220
5074505	840978	XK 9400	82400	94D08	222 16	51220 25HBM	60115SE	3	520	22
5074505	840979	XK 9400	82600	94D08	221116	51220 25PBF	70115SE	8	260	300
5074505	840981	XK 9200	82800	94D08	221 16	48210 15HBM	75110NW	4	72	50
5074505	840995	XK 9400	81800	94D08	321 18	46215 20HBM	75125S	5	87	112
5074505	841028	XK 10300	80400	94D08	321 19	52210 15HBM	75140S	4	145	102
5074505	841031	XK 10600	76550	94D08	321 16	50215 20HBM	80135S	2	140	75
5074505	841054	XK 9450	80025	94D08	321 16	50215 20HBM	30W	3	57	70
6074505	770779	XK0112000	082800	94D08	1 11	50 TF22456	05SW	3	73	130
6074505	770780	XK0110000	082800	94D08	2 11	TF23456	15N	6	150	275
6074505	770781	XK0108000	082800	94D08	3 11	TF23436	30W	8	435	1000
6074505	770782	XK0106000	082800	94D08	3 11	TF22456	40W	9	290	1350
6074505	770783	XK0104000	082800	94D08	3 11	TF23456	40W	12	365	800
6074505	770785	XK0100000	082800	94D08	3 11	TF2344	40SW	17	205	110
6074505	770786	XK0098000	082800	94D08	3 11	TF2245	35SW	10	270	280
6074505	770787	XK0095000	082800	94D08	4 11	TF23436	5 SW	8	275	400
6074505	770790	XK0112000	082000	94D08	1 11	TF23457	05S	7	290	140
6074505	770791	XK0110000	082000	94D08	3 11	TF22496	25S	13	390	175
6074505	770792	XK0108000	082000	94D08	3 11	TF2249	30S	6	207	260
6074505	770793	XK0106000	082000	94D08	3 11	TF20 36	40S	8	230	500
6074505	770803	XK0098000	082000	94D08	3 11	TF224	35S	7	140	240
6074505	770804	XK0095000	082000	94D08	3 11	TF224	35S	7	112	225
6074505	770805	XK0094000	082000	94D08	4 11	TF224	20SW	8	135	229
6074505	770807	XK0112000	080800	94D08	3 1	TF224	30S	3	212	105
6074505	770809	XK0110000	080800	94D08	3 1	TF224	30S	3	160	127
6074505	770812	XK0104000	080800	94D08	3 11	TF23446	35S	6	92	235
6074505	770815	XK0101000	080800	94D08	3 11	TFX 4	35S	3	112	55
6074505	770816	XK0100000	080800	94D08	3 11	TFX 36	35S	8	157	209
6074505	770817	XK0099000	080800	94D08	3 11	TF23434	40S	11	140	130
6074505	770820	XK0097000	080800	94D08	3 11	TFX	40S	15	295	165
6074505	770826	XK0094000	080800	94D08	3 11	TF1225	40S	2	420	470
6074505	770827	XK0112000	080600	94D08	3 11	TF22435	35S	3	170	50
6074505	770828	XK0112000	080200	94D08	3 1	TF32234	35S	4	225	225
6074505	770829	XK0104000	080000	94D08	3 1	TF224	35S	4	220	157
6074505	770830	XK0102000	080000	94D08	3 1	TF224	35S	4	198	157
6074505	770831	XK0101000	080000	94D08	3 11	TF2243	35S	4	190	157
6074505	770832	XK0100000	080000	94D08	3 1	TF224	30S	3	184	155
6074505	770833	XK0095000	080000	94D08	3 1	TF224X	30S	4	210	205
6074505	770834	XK0096000	080000	94D08	3 11	TF224	30S	7	270	149
6074505	810400	XK 12950	7165	94D08	3 1	55 TF22636	30SW	4	238	50
6074505	810401	XK 13050	7150	94D08	3 1	54 TF22636	30SW	2	175	65
6074505	810404	XK 13100	7210	94D08	3 1	60 TF2263	30SW	2	195	80
6074505	810408	XK 13200	7260	94D08	3 1	60 TF226	30SW	4	435	106
6074505	810410	XK 13250	7250	94D08	3 1	58 TF22	30SW	5	290	90

SAMPLE TYPE	ID	EAST	NORTH				Mo	Cu	Zn	
6074505810413	XX	13350	7320	94D08	3 13	49	TF222	30SW	2 385	102
6074505810416	XX	13450	7360	94D08	3 13	54	TF 22	30SW	2 200	85
6074505810417	XX	13450	7385	94D08	3 13	52	TF22	30SW	2 215	77
6074505810418	XX	13400	7410	94D08	3 1	52	TF22	30SW	19 230	110
6074505810419	XX	13350	7425	94D08	3 1	49	TF 226	30SW	2 165	80
6074505810420	XX	13300	7435	94D08	3 1	52	TF226	30SW	2 175	73
6074505810421	XX	13150	7465	94D08	3 1	53	TF22	30SW	3 220	75
6074505810422	XX	13050	7490	94D08	3 1	52	TF226	30SW	4 143	72
6074505810423	XX	12900	7510	94D08	3 1	52	TF226	30SW	3 145	71
6074505810427	XX	11350	6950	94D08	1 1	54	TF 22 39	35SE	9 5800	59
6074505810438	XX	10100	7170	94D08	2 1	48	TF 22	5S	9 325	72
6074505810439	XX	10000	7155	94D08	2 11	51	TF123	5S	15 1620	72
6074505810440	XX	09900	7220	94D08	2 11	51	TF 123	5S	3 230	69
6074505810454	XX	11400	7355	94D08	6 1	50	TF22536		3 350	107
6074505810461	XX	11700	6800	94D08	2 1	41	TF22 35	10E	5 650	46
6074505810468	XX	09850	7265	94D08	2 11	49	TF12349	15W	5 357	50
6074505810470	XX	09500	7335	94D08	2 11	49	TF123	10W	14 430	55
6074505810473	XX	09100	7480	94D08	3 1	51	TF 123	30NW	4 570	75
6074505810474	XX	09100	7495	94D08	3 1	51	TF123	30NW	5 2100	65
6074505810475	XX	09100	7515	94D08	3 1	54	TF123	30NW	4 442	68
6074505810478	XX	09000	7555	94D08	3 1	53	TF1238	30NW	5 630	62
6074505810481	XX	09100	7595	94D08	9 11	47	TF12335	35N	7 252	55
6074505810484	XX	08800	7655	94D08	9 1	48	TF123	35S	2 342	41
6074505810485	XX	08350	7690	94D08	9 11	48	TF12 3	35N	11 136	27
6074505810487	XX	07950	7710	94D08	9 1	47	TF12 3	35NW	12 187	55
6074505810490	XX	09900	8280	94D08	3 11	50	TF	30SW	15 257	160
6074505810491	XX	10000	8280	94D08	3 11	50	TF	30SW	14 210	115
6074505810522	XX	13700	80150	94D08	3 1	55	TF226	30E	2 190	65
6074505810524	XX	11420	78550	94D08	31	53	TF226	30S	1 195	80
6074505810525	XX	11000	78550	94D08	31	53	TF22 53	30E	2 155	66
6074505810526	XX	10800	78440	94D08	3 1	53	TF22	30SE	2 170	95
6074505810528	XX	10830	78300	94D08	3 1	54	TF22	30SE	3 207	102
6074505810531	XX	9900	78190	94D08	3 1	55	TF22	30S	7 356	77
6074505810533	XX	7350	76880	94D08	5 1	60	TF 123	30	3 132	75
6074505840886	XX	9600	74875	94D08	321 18	532	TF	35N	6 710	55
6074505840887	XX	5670	74690	94D08	321 10	512	TF	35N	4 550	50
6074505840888	XX	9760	74460	94D08	321 18	522	TF	25NE	6 740	65
6074505840889	XX	9830	74240	94D08	421 18	542	TF	20NW	6 445	64
6074505840890	XX	9920	74040	94D08	321 18	482	TF	25NW	6 315	45
6074505840891	XX	10000	73850	94D08	321 18	522	TF	25NW	5 235	40
6074505840892	XX	10050	73660	94D08	321 18	532	TF	30NW	5 370	41
6074505840893	XX	10180	73420	94D08	321 18	522	TF	35NW	17 640	118
6074505840894	XX	10270	73230	94D08	321 18	512	TF	35NW	52 235	130
6074505840895	XX	10350	73040	94D08	321 18	562	TF	30N	6 660	105
6074505840896	XX	10440	72850	94D08	321 18	572	TF	35N	4 1050	100
6074505840897	XX	10540	72680	94D08	321 18	572	TF	35N	9 850	90
6074505840898	XX	10650	72470	94D08	322 18	532	TF	40NE	5 600	145
6074505840899	XX	10810	72270	94D08	322 18	532	TF	35N	12 670	67
6074505840900	XX	10970	72130	94D08	322 18	482	TF	35NW	4 273	40
6074505840901	XX	11120	72040	94D08	321 18	1512	TF	40N	7 282	47
6074505840902	XX	11330	71940	94D08	322 18	1572	TF	12 40N	4 415	55
6074505840903	XX	11550	71870	94D08	322 18	552	TF	35NW	7 680	137
6074505840904	XX	11800	71810	94D08	322 18	522	TF	45NW	1 345	40
6074505840905	XX	12050	71840	94D08	322 18	532	TF	40W	5 4830	550
6074505840906	XX	12260	71890	94D08	322 18	532	TF	30SW	8 970	55
6074505840907	XX	12420	71940	94D08	322 18	522	TF	35SW	3 580	92
6074505840908	XX	12600	72050	94D08	322 18	502	TF	25SW	3 210	75
6074505840909	XX	12750	72200	94D08	322 18	602	TF	40SW	3 260	72
6074505840910	XX	12810	72410	94D08	322 16	502	TF	35S	4 365	120
6074505840911	XX	12830	72660	94D08	322 18	582	TF	40SW	5 410	62

SAMPLE
TYPE

ID	EAST	NORTH	Mo	Cu	Zn
60745058840912	12870	72900	40SW	12 215	97
60745058840913	12910	73110	35W	4 226	54
60745058840914	12890	73320	35SW	3 330	120
60745058840915	12810	73540	30SW	2 227	80
60745058840916	12710	73720	35SW	15 770	115
60745058840917	12620	73950	30SW	2 277	70
60745058840918	12550	74120	20W	3 175	80
60745058840919	12500	74340	25SW	3 155	97
60745058840920	12450	74550	25SW	4 150	102
60745058840921	12350	74770	35SW	3 127	90
60745058840922	12210	74960	35SW	2 172	80
60745058840923	12060	75130	35SW	1 160	88
60745058840924	11900	75295	35SW	1 150	75
60745058840925	11730	75440	35S	3 146	76
60745058840926	11560	75600	35S	2 186	76
60745058840927	11395	75770	35S	3 220	97
60745058840928	11220	75940	35S	5 180	90
60745058840929	11070	76090	35S	2 160	50
60745058840930	10910	76230	30S	7 190	80
60745058840931	10750	76390	40S	3 175	54
60745058840966	11275	82400	8W	4 135	242
60745058840967	11100	82400	10NW	2 140	182
60745058840968	11000	82400	10SW	5 142	220
60745058840969	10800	82400	35SW	5 157	450
60745058840970	10600	82400	35SW	5 285	600
60745058840971	10400	82400	38SW	4 200	500
60745058840972	10200	82400	40SW	48 250	220
60745058840973	10000	82400	40SW	10 95	90
60745058840974	10000	82600	40SW	16 140	105
60745058840975	10000	82200	40SW	14 116	125
60745058840976	9800	82400	40S	18 185	160
60745058840977	9600	82400	35S	18 185	162
60745058840982	11200	81600	40SW	4 130	89
60745058840983	11000	81600	40SW	4 135	115
60745058840984	10800	81600	40SW	4 132	130
60745058840985	10600	81600	40SW	4 162	156
60745058840986	10400	81600	40W	5 180	300
60745058840987	10400	81625	40SW	6 70	127
60745058840988	10200	81600	40W	6 80	54
60745058840989	10000	81600	40SW	9 190	80
60745058840990	10000	81400	40SW	16 138	82
60745058840991	10000	81600	40SW	10 85	105
60745058840992	9800	81600	40SW	23 203	85
60745058840993	9600	81600	40SW	22 162	85
60745058840994	9400	81600	40S	7 80	125
60745058840997	11200	81200	25SE	4 105	97
60745058840998	11000	81200	40SW	2 290	185
60745058840999	10800	81200	40SW	6 315	200
60745058841000	10700	81200	40SW	5 160	215
60745058841001	10600	81200	40SW	7 105	260
60745058841002	10500	81200	40SW	9 133	290
60745058841003	10400	81200	40SW	4 60	175
60745058841004	10300	81200	40SW	3 42	120
60745058841005	10200	81200	40SW	3 50	62
60745058841006	10100	81200	40SW	4 72	56
60745058841007	10000	81200	40SW	8 127	62
60745058841008	10000	81000	40SW	2 70	55
60745058841009	10000	80800	40SW	15 250	200
60745058841010	10000	806	40W	9 135	177
60745058841011	10100	80400	40W	5 210	137

SAMPLE
TYPE

ID

EAST NORTH

Mo Cu Zn

6074505	841012	XX	10000	80400	9400E	321	181522	TF	3	40W	4	350	225
6074505	841013	X	10000	80200	9400E	321	18 502	TF		40W	4	195	135
6074505	841014	X	10050	80200	9400E	321	18 542	TF	5	40W	4	195	130
6074505	841015	X	9900	80400	94009	321	18 552	TF		40W	12	455	270
6074505	841016	X	9800	80400	94008	321	18 522	TF		40W	9	550	320
6074505	841017	X	9700	80400	9400E	321	18 502	TF		40W	28	530	182
6074505	841018	X	9600	80400	94008	321	18 492	TF	5	40W	16	405	145
6074505	841019	X	9500	80400	9400E	21	18 502	TF		10SE	6	470	115
6074505	841020	X	9400	80400	9400E	21	18 542	TF		40SW	2	93	124
6074505	841021	X	11200	80400	94008	321	182582	TF		40S	3	315	115
6074505	841022	X	11100	80400	94008	321	182592	TF		40S	6	245	226
6074505	841023	X	11000	80400	94008	321	182572	TF		40S	4	215	172
6074505	841024	X	10900	80400	94008	321	182572	TF		40S	3	210	120
6074505	841025	X	10800	80400	94008	321	182562	TF		40S	3	196	115
6074505	841026	X	10650	80400	9400E	321	18 562	TF		40S	2	210	137
6074505	841027	X	10400	80400	94008	322	18 552	TF		40S	4	225	125
6074505	841029	X	10200	80400	9400E	321	18 522	TF		40S	3	190	95
6074505	841030	X	9400	80400	94008	321	18 532	TF		40SW	3	95	101
6074505	841032	X	10470	76710	94008	321	18 502	TF		30SW	3	150	75
6074505	841033	X	10310	76900	94008	321	18 542	TF		35SW	3	140	72
6074505	841034	X	10150	77050	94008	321	18 542	TF		35S	3	150	72
6074505	841035	X	9990	77200	9400E	321	18 512	TF		35S	3	165	70
6074505	841036	X	9810	77350	9400E	321	18 552	TF		35SW	4	155	80
6074505	841037	X	9660	77500	9400E	321	182502	TF		35S	11	310	58
6074505	841038	X	9490	77620	9400E	21	182482	TF		35S	27	425	55
6074505	841039	X	9310	77770	94008	21	182512	TF		35S	4	260	115
6074505	841040	X	9160	77870	9400E	321	182552	TF		38SW	4	253	80
6074505	841041	X	8950	77990	94008	321	182502	TF		40S	3	126	72
6074505	841042	X	8820	78120	94008	321	18 502	TF		35SW	4	105	65
6074505	841043	X	8820	78270	9400E	321	18 492	TF		35S	4	140	80
6074505	841044	X	8880	78420	94008	321	18 502	TF		35S	4	80	82
6074505	841045	X	8550	78590	94008	321	18 492	TF		35SW	4	85	77
6074505	841046	X	9020	78750	9400E	321	18 492	TF		35SW	5	142	130
6074505	841047	X	9100	78900	94008	321	18 502	TF		35SW	5	147	110
6074505	841048	X	9200	79080	9400E	321	18 522	TF		35SW	7	205	95
6074505	841049	X	9240	79220	94008	321	18 582	TF		35W	7	228	110
6074505	841050	X	9300	79400	94008	321	18 522	TF		30SW	4	145	90
6074505	841051	X	9380	79550	9400E	321	18 562	TF		35SW	3	146	90
6074505	841052	X	9420	79700	94008	321	18 542	TF		35SW	4	170	87
6074505	841053	X	9450	79840	9400E	321	18 582	TF		35SW	2	15	55
6074505	841055	X	9450	80200	9400E	321	18 532	TF		35SW	4	600	100

BEDROCK

ID	EAST	NORTH									
804505770789	X09400	082800	94008	22	146	MRE53	5309876NE	DGR CF	3	224M E M12PY21PY	12
804505770795	X010500	082000	94008	31	442	DRB43		CGROF	6	234M EQ102PY22PY	7 11
804505770797	X010400	082000	94008	32	442	DOB64		MW10F	2	1 X Q102PY22PY	10 11
804505770801	X010100	082000	94008	32	442	MCP42		LGR0M	5	123PFEMC2PY22PY	1 1
804505770808	X011200	080800	94008	37	436	DGR61		DGRJF	X	123M H 122PY22CP32CC	1 12
804505770814	X010200	080800	94008	34	444	DRB52		LGR0M	7	234M EHM22PY22PY	1 1
804505770818	X005500	080800	94008	32	1134	DRB63		MGR0F	2	6 234M EHM22PY02PY	5 1
804505770822	X009600	080800	94008	34	446	DGR42		DGR0F	4	224M EHM22PY	1
804505770824	X005500	080800	94008	35	126	DBK32		DBK2M	9	142NBH w	
804505770825	X005400	080800	94008	35	126	MRE42		EGY1M	6	123BFHEW	
804505800540	X10520	80191	94008	2	13	DGY		DGYCF	224	H 1C1PY	TR
804505800541	X10510	80192	94008	32	13	DGY		DGYOF	224	H M	
804505800542	X10500	80193	94008	31	136	DGY		DGYOF	224	H M	TR
804505800543	X10490	80194	94008	31	136	DGY		DGYCF	224	H M	1
804505800544	X10480	80195	94008	31	136	DGY		DGYOF	224	H M	
804505800545	X10470	80196	94008	31	136	DGY		CGYCF	224	H M1PY	
804505800546	X10460	80197	94008	31	126	CBK		EGYCF	123	QHMC1PY22PY	1.
804505800547	X10450	80198	94008	31	126	CBK		EGYOF	123	QHMC1PY22PY	1.
804505800548	X10440	80199	94008	32	136	DGY		DGYCF	224	CHMC1PY22PY	1.

ID EAST NORTH

8074505	800549	X	10430	80200	94008	32	136	OBR
8074505	800550	X	10420	80201	94008	32	136	OBR
8074505	800551	X	10410	80202	94008	31	136	DCY
8074505	800552	X	10400	80203	94008	32	126	CBR
8074505	800553	X	10390	80204	94008	32	146	LCY
8074505	800554	X	10380	80205	94008	32	136	MGY
8074505	800555	X	10370	80206	94008	31	126	OBR
8074505	800556	X	10360	80207	94008	31	126	OBR
8074505	800557	X	10350	80208	94008	31	126	CBR
8074505	800558	X	10340	80209	94008	31	126	OBR
8074505	800559	X	10330	80210	94008	31	126	CBR
8074505	800560	X	10320	80211	94008	31	126	CBR
8074505	800561	X	10310	80212	94008	31	126	OBR
8074505	800562	X	10300	80213	94008	31	126	OBR
8074505	800563	X	10290	80214	94008	31	136	OBR
8074505	800564	X	10280	80215	94008	31	126	OBR
8074505	800565	X	10270	80216	94008	31	126	CBR
8074505	800566	X	10260	80217	94008	31	126	OBR
8074505	800567	X	10250	80218	94008	31	126	OBR
8074505	800568	X	10240	80219	94008	31	126	CBR
8074505	800569	X	10230	80220	94008	31	126	OBR
8074505	800570	X	10220	80221	94008	31	126	OBR
8074505	801116	X	10010	80191	94008	32	136	OBR
8074505	801117	X	10000	80192	94008	32	136	OBR
8074505	801118	X	9990	80193	94008	32	136	CBR
8074505	801119	X	9980	80194	94008	32	136	OBR
8074505	801120	X	9970	80195	94008	32	136	OBR
8074505	801121	X	9960	80196	94008	32	136	MBR
8074505	801122	X	9950	80197	94008	32	136	MGR
8074505	801123	X	9940	80198	94008	32	136	MGY
8074505	801124	X	9930	80199	94008	32	136	OBR
8074505	801125	X	9920	80200	94008	31	126	OBR
8074505	801126	X	9910	80201	94008	31	126	CBR
8074505	801127	X	9900	80202	94008	31	126	MBR
8074505	801128	X	9890	80203	94008	31	126	OBR
8074505	801129	X	9880	80204	94008	31	126	MBR
8074505	801130	X	9870	80205	94008	32	136	OBR
8074505	801131	X	9860	80206	94008	31	126	MBR
8074505	801132	X	9850	80207	94008	31	126	OBR
8074505	801133	X	9840	80208	94008	31	126	MBR
8074505	801134	X	9830	80209	94008	31	126	MGY
8074505	801135	X	9820	80210	94008	31	129	MBR
8074505	801136	X	9810	80211	94008	31	129	MGY
8074505	801137	X	9800	80212	94008	31	126	OBR
8074505	801138	X	9790	80213	94008	31	129	OBR
8074505	801139	X	9780	80214	94008	31	136	OBR
8074505	801140	X	9770	80215	94008	31	136	OBR
8074505	801141	X	9760	80216	94008	31	136	OBR
8074505	801142	X	9750	80217	94008	31	136	OBR
8074505	801143	X	9740	80218	94008	31	126	OBR
8074505	801144	X	9730	80219	94008	31	126	CBR
8074505	801145	X	9720	80220	94008	31	126	OBR
8074505	801146	X	9710	80221	94008	31	126	MBR
8074505	801147	X	9700	80222	94008	31	129	MBR
8074505	801148	X	9690	80223	94008	31	126	OBR
8074505	801149	X	9680	80224	94008	31	129	
8074505	801150	X	9670	80225	94008	31	129	OBR
8074505	801151	X	9660	80226	94008	31	129	OBR
8074505	801152	X	9650	80227	94008	31	126	OBR
8074505	801153	X	9640	80228	94008	31	12	MBR

53170

DGYOF	224	HCM01PY22PY	3.
DGYCF	224	H W01PY22PY	2.
LGYOF	224	CHI22PY	TR
LGYOF	224	C M22PY	.5
LGYCF	224	CSW	
MGYOF	224	H M22PY	.5
LGYOF	123	HCM01PY22PY	2.
LGYCF	123	HCM01PY22PY	4.
LGYOF	123	CGM01PY22PY	4.
LGYOF	123	CGM01PY22PY	3.
LGYOF	123	CGIC1PY22PY	2.
LGYOF	123	CS101PY22PY	5. 1
LGYCF	123	CS1C1PY22PY	5. 1
LGYOF	123	CS1C1PY22PY	7. 1
LGYOF	123	CSM01PY22PY	5.
LGYCF	123	SCM01PY22PY	5.
LGYOF	123	SCM01PY22PY	5.
LGYCF	123	SCM01PY22PY	4.
LGYOF	123	SC1C1PY22PY	4. 1
LGYOF	123	CS101PY22PY	4. 1
LGYCF	123	CS1C1PY22PY	3. 1
LGYOF	123	CGM01PY22PY	2. 1
LGYCF	224	CS101PY22PY	3.
LGYCF	224	CS1C1PY22PY	3.
LGYCF	224	CS101PY22PY	1.
LGYCF	224	SHM01PY22PY	1.
LGYOF	2 224	QSMC1PY22PY	.1 2
LGYCF	3 224	SCM01PY22PY	TR
MGRCF	224	HSMC1PY22PY	TR 22
DGYOF	224	H M01PY22PY	.5
DGYCF	224	H M01PY22PY	.5 2
LGYCF	224	QC1C1PY22PY	5.
LGYOF	224	EQM01PY22PY	5.
LGR0M	224	EQM01PY22PY	5. 1
LGYOM	3 6	123EQHCWC1PY22PY	.5 1
LGYOM	3 6	113EQCSW01PY22PY	.5
LGYCF	224	CSM01PY22PY	2.
LGYOM	3 6	123EQHCWC1PY22PY	TR 1
LGYOM	3 6	123EQHCWC1PY22PY	1. 1
LGR0M	2 6	123F HCWC1PY22PY	.1
MGYOF	224	HSM22MA22CC22PY1. 40 12	
LGYOM	3 6	123F HCM22MA22PY01PY. 5 10	
LGYOM	2 5	123F EHW22MA01MA .1 50	
LGYOM	2 5	123F CHW22MA22PY01PY. 5	
LGR0M	2 5	123F HCM22MA22PYC1PY. 5 22	
LGYCF	3 250	1C7	
WHCF	123	CHM22PY01PY	.5
LGR0F	123EQCHM22PY01PY		.2
LGR0F	123	C M22PY01PY	.2 x
LGYCF	123	HCM22PY01PY	.5
MGR0F	1 2 224	HSM22PY01PY	4. 2
MGYOM	2 5	123F HEM22PY01PY	5.
LGYOM	2 4	123F EHW22PY01PY	3.
MGYOF	123EQCSW22MA22PY01PY2. 50		
LGYCF	123EQCHM22PY01PY		4. 1
LGYOM	2 5	123F H M22MA22PY01PY2. 10 12	
MGYCF	123	HGM22MA01MA22PY. 3 10 1	
LGYCF	123EQCHW22MA22PY01PY. 5 1 32		
LCYOF	123EQCHW22PY01PY		1. x
LGYCF	224	HCM01PY	TR 3

ID	EAST	NORTH											
8074505801154	X	9630	80229	94008	31	126	MER		LCYOF		123EQHCW22PYC1PY	.2	1
8074505801155	X	9620	80300	94008	31	126	OBR		LGYOM	3 4	123F HCM22PYU1PY	5.	1
8074505810383	X	11700	80650	94008	31		DBR		DGYC		322CL PY		
8074505810384	X	11650	80550	94008	31				MGYO		123EQ PY	1	
8074505810385	X	11650	80550	94008	31				DGRC		14		
8074505810386	X	11650	80550	94008	31			4408080N	MGR0		222P H L		
8074505810387	X	11600	80200	94008	31			1415530NE			224 PY01		2
8074505810388	X	11600	80200	94008	31				BKC		227M		
8074505810389	X	11600	80200	94008	31						322 PYC1		2
8074505810390	X	11300	79900	94008	31			1415030NE5303065NW			222P		2
8074505810391	X	11300	79900	94008	31			1415030NE	DPUC		321CL		2
8074505810392	X	11050	79700	94008	31				MGR0		224 PY01		
8074505810393	X	10800	79600	94008	31				BKO		225M PY		
8074505810394	X	10900	79800	94008	31		WH		LPI		123PF PYC2		4
8074505810395	X	09900	79750	94008	3		32		1	30	222FFH M		
8074505810396	X	11950	71850	94008	63				MGR0		123ECH M		
8074505810397	X	11950	71850	94008	63		5		DGR1		222P		
8074505810398	X	12100	72000	94008	63				BK		225 F W01CP		1
8074505810399	X	12100	72000	94008	63						215 CP		
8074505810402	X	13050	71500	94008	31				0		226 PY		
8074505810403	X	13050	71500	94008	31				C		226		3
8074505810405	X	13100	72100	94008	31			1400520NE	BK C		226 PY		1
8074505810406	X	13150	72350	94008	31		LGY		MGYO		226 CP PY		1
8074505810407	X	13150	72350	94008	31						226 PY		9
8074505810409	X	13200	72600	94008	37		BK		BK 0		123EQ		9
8074505810411	X	13250	72500	94008	31		MCR		MGR		222FFH		9
8074505810412	X	13250	72900	94008	31		LGR		LGR	1C	222PF		
8074505810414	X	13350	73200	94008	31				MGY		224 H W		
8074505810415	X	13350	73200	94008	31						224 PY		1
8074505810424	X	12000	70250	94008	31		LGR		0		226M E W		
8074505810425	X	12050	70250	94008	35				3		225M E L MT PY CP		
8074505810426	X	11900	69800	94008	11		DGR	5413590 52080	DGRC		222P H M CP		
8074505810428	X	10950	69800	94008	11						222P PY		
8074505810429	X	10950	69600	94008	16				BK C		212PF		1
8074505810430	X	10850	70000	94008	16				C		222F H PY		
8074505810431	X	10850	70000	94008	11				1		225M E M PY		2
8074505810432	X	10800	70400	94008	14				DGR1		222P E L32CP		9
8074505810433	X	10800	70550	94008	11						123EQHEMPYC1 CP		1
8074505810434	X	10800	70550	94008	11						123PF		
8074505810435	X	10800	70550	94008	17		32				123PF		
8074505810436	X	10300	71450	94008	27				DGR1		221		
8074505810437	X	10200	71600	94008	27				1		225 E M PY22		
8074505810441	X	09900	72200	94008	21		5		2		123EQHELPYX2		
8074505810442	X	09900	72550	94008	2		5		2		123EQHEMPY01		
8074505810443	X	09900	72550	94008	2				C		123EQHEMPYC1		
8074505810444	X	09900	72550	94008	21				GRO		123EQHEMCPY		3
8074505810445	X	09900	72550	94008	21				0		123EQFH1PY01		
8074505810446	X	12000	72100	94008	63				C		123EQ C1PY		
8074505810447	X	12000	72100	94008	63				DGR2		225 CP PY GA		2
8074505810448	X	12250	71550	94008	63				1		225M E M		
8074505810449	X	12000	72350	94008	63				LGRC		226M E M		
8074505810450	X	12000	72350	94008	63		WH		WHO		123EQFLM		
8074505810451	X	12000	72350	94008	65						123PFHEMPC2PY		
8074505810452	X	11600	73200	94008	65						122EQEHW PY		
8074505810453	X	11600	73200	94008	61			4308012N	MGR		225M E M22CP		3
8074505810455	X	11050	74100	94008	61		WH	5307590	DGRC		123PF CP PY		
8074505810456	X	10300	75600	94008	61			54100	0		123PF PY22		2
8074505810457	X	11100	67500	94008	11		BK		BK 2		143EQ MT		
8074505810458	X	11000	67500	94008	11		WH	33	LGY1		123PF PYC		
8074505810459	X	11050	68000	94008	11			4408090	2		123EQ PYO CP34		

ID	EAST	NORTH									
8074505810460	XX	11500	67850	94008	11				2	123EQ PYC	
8074505810462	XX	11800	68050	94008	23		5410090	DGR1		225M EML PY	3
8074505810463	XX	13150	67850	94008	21	WH			1	123PFH M	1
8074505810464	XX	13150	67850	94008	21	WH			1	123PFH M	1
8074505810465	XX	13150	67850	94008	21					123PF	1
8074505810466	XX	13300	67700	94008	31			DGYZ		2248	
8074505810467	XX	13300	67700	94008	31	WH			1	123PF	
8074505810469	XX	09700	73100	94008	23				1	123EQE L PY	
8074505810471	XX	09450	73550	94008	23		54130		C	123PFHEM	
8074505810472	XX	09100	74800	94008	31		53		1	123EQHEL PY	
8074505810476	XX	09100	75150	94008	31				2	123EQHEL01PY CP	3
8074505810477	XX	09100	75150	94008	31				2	123EQE L PY CP MA	
8074505810479	XX	08850	75500	94008	31	WH		MGY1		123PFHEM	
8074505810480	XX	09100	75950	94008	56	CR			C	123EQHEMPY11	4
8074505810482	XX	09100	75550	94008	56				0	123 HEMPY11	
8074505810483	XX	09000	76850	94008	51	GY		BK1		123EQ	9
8074505810486	XX	08250	77000	94008	91			GY1		123FP PY12	
8074505810488	XX	07950	77100	94008	91				1	123PF PY	
8074505810489	XX	07950	77100	94008	91			LGR		12 HEMPY22	
8074505810492	XX	10100	82800	94008	34		3414580NE				
8074505810493	XX	10100	82800	94008	34	1	3414580NE			12 Q MPY01	
8074505810494	XX	10300	82800	94008	34					12 QHMPY01	
8074505810495	XX	10300	82800	94008	34	WH		WHO		12 QHMPY	1
8074505810496	XX	10500	82800	94008	34				C	123 HSMPY22	
8074505810497	XX	10500	82800	94008	34				C	123 HSMPY22	
8074505810498	XX	10500	82800	94008	34				0	123EQHSMFY	
8074505810499	XX	10500	82800	94008	34				C	123 H PY	
8074505810500	XX	10900	82800	94008	34					22 H MPY	
8074505810501	XX	10900	82800	94008	34	WH				123PFHEW	
8074505810502	XX	10700	82000	94008	34				C	12 HEMPY	
8074505810503	XX	10550	82000	94008	34	1		CCRO		12 HEMPY01	
8074505810504	XX	10550	82000	94008	34			DGRO		12 HEMPY01	
8074505810505	XX	10420	82000	94008	34	1		MGR0			
8074505810506	XX	10335	82000	94008	31	1					
8074505810507	XX	10335	82000	94008	31	1		LGR0		225 HE1 PY	
8074505810508	XX	10325	82000	94008	31	1 WH	3413065NE		0	12 USIPY01	4
8074505810509	XX	10070	82060	94008	31	LGR		LGR0		123PFHEM	
8074505810510	XX	10070	82060	94008	31				C		
8074505810511	XX	10070	82060	94008	31	1 WH		WHO		12 PF SWPY11	5
8074505810512	XX	10070	82060	94008	31	1			C		
8074505810513	XX	09830	81600	94008	31		5	GR0		123QFHEM PY	
8074505810514	XX	09830	81600	94008	31	1				12 Q MPY01	
8074505810515	XX	10010	81600	94008	31	1		LGR0		12 PFC M2 PY	3
8074505810516	XX	10100	81600	94008	31					12 Q PY	
8074505810517	XX	10100	81600	94008	31			LGR0		12 EHM2 PY	
8074505810518	XX	10325	81560	94008	3						
8074505810519	XX	10660	81350	94008	33					123PF	
8074505810520	XX	10660	81350	94008	33					123PFH M	
8074505810521	XX	10850	81200	94008	36					12 H M	
8074505810522	XX	13250	75550	94008	31	DGY		BK0		211AF	
8074505810527	XX	10800	79440	94008	31	WH			C	123PFH W	
8074505810529	XX	10580	78170	94008	31	3 LGY		MGY0		2248 PY	
8074505810530	XX	10580	78170	94008	31	LGY		LGY0		331	
8074505810532	XX	9130	78170	94008	33				C	113EQHEW	1
8074505810534	XX	7040	77070	94008	52	3		LGY0		123ECH MPY22	9

EXECUTION TERMINATED

SAMPLE CODING KEY

SAMPLE TYPE	PROJECT NO.	I.D. NO.	ZONE	EAST	NORTH	MAP SHEET NO.	OUTCROP PHOTOGRAPH	OUTCROP EXPOSURE	TYPE OF OUTCROP WEATHERING	TYPE OF WEATHERING	WEATHERED SURFACE COLOUR	STRUCTURAL FEATURE	STRUCTURAL FEATURE (AZIMUTH)	STRUCTURAL FEATURE (DIP ANGLE)	STRUCTURAL FEATURE (DIP DIRECTION)	FRESH SURFACE COLOUR	MINERALOGIC CHARACTER	GRAIN SIZE	SEDIMENT SORTING	% PHENOCRYSTS	ROCK TYPE	ALTERATION MINERALS	DEGREE OF ALTERATION	TYPE AND HABIT	OF MINERALIZATION	% TOTAL SULPHIDES	SECONDARY FILLINGS	
80745050850544			XX	10500	36500	94C03	34	34	4	4	DR				LRLOA						224	C						
80745050850549			XX	10675	37600	94C03	35	35	5	5	LR				LRLOA						121EO		22PY					
81745050800234			XX	17180	30380	94C03	45	45	4	4	LR				LRLOA													
81745050800247			XX	16070	26710	94C03	46	46	5	5	LR				LRLOA													
81745050300320			XX	14560	30900	94C03	44	44	5	5	LR				LRLOA													
81745050800323			XX	14560	31200	94C03	44	44	5	5	LR				LRLOA													
81745050800330			XX	14200	32000	94C03	26	26	5	5	LR				LRLOA													
81745050800357			XX	10630	37600	94C03	35	35	4	4	LR				LRLOA													

SAMPLE TYPE	PROJECT NO.	I.D. NO.	ZONE	EAST	NORTH	MAP SHEET NO.	STREAM WIDTH (M)	CHANNEL DEPTH (CM)	VELOCITY	PH	GRAVITY INCREMENT	TEMPERATURE	ORGANIC CONTENT	FEATURE	BEDROCK GEOLOGY	DIR OF STREAM	SLOPE OF STREAM (DEGREES)	DIRECTION OF STREAM FLOW	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag
10745050850346			XX	13800	39600	94C03	1	33	0.00	8.0	224					1	1	S	3	49		123	13
10745050850400			XX	13900	39200	94C03	1	30	0.00	8.0	22					2	2	S	3	43		103	11
10745050850443			XX	14000	38800	94C03	1	20	0.00	8.0						1	1	S	3	51		164	20
10745050850456			XX	10650	38400	94C03	.5	5	0.00	8.0						1	1	S	3	165		86	16
20745050800139			XX	10820	36800	94C03	.1	15	0.00	8.0						1	1	S	3	127		74	11
20745050800187			XX	18100	27380	94C03	.2	24	0.00	8.0						1	1	S	3	45		42	11
20745050800270			XX	13100	29600	94C03	.1	16	0.00	8.0						1	1	S	3	63		104	12
20745050800282			XX	11280	29050	94C03	.5	35	0.00	8.0						1	1	S	3	70		82	14

SAMPLE TYPE	PROJECT NO.	I.D. NO.	ZONE	EAST	NORTH	MAP SHEET NO.	TYPE OF SAMPLE	INTERVAL (CM)	TOP OF SAMPLE INTERVAL (CM)	BOTTOM OF SAMPLE INTERVAL (CM)	SOIL TYPE AND HORIZON	% COARSE FRAGMENTS	SHRIMP CORRECTION	MOISTURE	SLOPE (DEGREES)	SLOPE DIRECTION	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag
50745050760199			XX	9400	38000	94C03	2	2	0	18	PDF	10	10	S	1	1	33			115	16
50745050760200			XX	9200	38000	94C03	2	2	0	20	PDF	10	10	S	3	3	47			127	16
50745050760201			XX	9000	38000	94C03	3	3	0	20	PDF	10	10	S	5	5	102	25		84	
50745050760202			XX	9000	37600	94C03	3	3	0	20	PDF	10	10	S	5	5	205	32		97	
50745050760203			XX	9200	37600	94C03	6	6	0	16	PDF	10	10	S	4	4	42	28		175	
50745050760204			XX	9400	37600	94C03	3	3	0	20	PDF	10	10	S	3	3	53	27		83	
50745050760205			XX	9600	37600	94C03	3	3	0	15	PDF	10	10	S	3	3	39	27		122	
50745050760209			XX	10400	37600	94C03	5	5	0	15	PDF	10	10	S	3	3	62	20		113	

BLACK
10YR 4/4

LIST 1

1----	INTRUSIVE ROCKS	MODIFIERS
-1---	QUARTZ RICH	---EQ equigranular
--1--	Granite	---AF aphanatic
--2--	Quartz monzonite	---MI microcrystalline
--3--	Granodiorite	---QF quartz-feldspar porphyry
--4--	Quartz diorite	other phenocryst types
		---H hornblende
		---B biotite
-2---	INTERMEDIATE	---KF feldspar-orthoclase
--1--	Syenite	---PF feldspar-plagioclase
--2--	Monzonite	---FU feldspar-undifferentiated
--3--	Diorite	---Q quartz
--4--	Gabbro	---P pyroxene
		---XX other types
-3---	FELDSPATHOID RICH	
--1--	Nepheline syenite	
--2--	Nepheline monzonite	
-4---	ULTRABASIC	
--1--	Dunite	
--2--	Pyroxenite	
--3--	Hornblendite	
--4--	Peridotite	
--5--	Serpentinite	
-5---	CARBONATITES	
-6---	SPECIAL TYPES	
--0--	Unspecified	
--1--	Pegmatite	
--2--	Aplite	
--3--	Lamprophyre	
--4--	Trap	
--5--	Felsite	
--6--	Intrusion breccia	
--7--	Diabase	

LIST 2

2----	VOLCANIC ROCKS	MODIFIERS
-0---	UNDIFFERENTIATED	PYROCLASTIC ASH TUFFS
-1---	BASALT	---M- massive
-2---	ANDESITE	---B- bedded
-3---	DACITE	---S- siliceous
-4---	RHYOLITE	---G- gossanized
-5---	QUARTZ LATITE	
-6---	LATITE	PYROCLASTIC CRYSTAL TUFFS
-7---	TRACHYTE	---Q- quartz phenocrysts
-8---	PHONOLITE	---F- feldspar phenocrysts
-9---	NEPHELINE LATITE	---QF quartz and feldspar phenocrysts
--1--	Fine grained flows	
--2--	Porphyritic flows	ASH TUFF, LAPILLI TUFFS, AGGLOMERATES, BRECCIAS
--3--	Crystal tuffs	---M- monolithic
--4--	Ash tuffs	---P- polyolithic
--5--	Lapilli tuffs	---1 1.0-3.2cm
--6--	Agglomerate	---2 3.2-10.cm
--7--	Lapilli breccia	---3 10.-30.cm
--8--	Block breccia	---4 30.-100.cm
--9--	Turbidite	---5 >100.cm
--X--	Other	
		FLWS
---	P- pyroxene porphyry	
---	H- hornblende porphyry	
---	F- feldspar porphyry	
---	A- augite porphyry	
---	PF pyroxene-feldspar porphyry	
---	Hf hornblende-feldspar porphyry	
---	AF amygdaloidal flows-specify amygd. Infillings (calcite, native Cu, chalcedony, etc.)	
---	PH hornblende-pyroxene	

- Make a note of composition of fragments and matrix if they differ.

LIST 3

3----	SEDIMENTARY ROCKS	MODIFIERS
-1---	ARENACEOUS	---CL calcareous
-1--	Siltstone	---CR carbonaceous
-2--	Mudstone	
-3--	Graywacke	
-4--	Sandstone	
-5--	Quartzite	
-6--	Conglomerate	
-2---	ARGILLACEOUS	
--1--	Shale	
--2--	Argillite	
-3---	CALCAREOUS	
--1--	Limestone	
--2--	Dolomite	
-4---	CHEMICAL PRECIPITATE	
--1--	Chert	
--2--	Marble	
--3--	Iron formation	

LIST 4

4----	METAMORPHIC ROCKS	MODIFIER MINERALS
-1---	FINE GRAINED CONTACT	---AC - actinolite
--1--	Hornfels	---AD - andalucite
		---AL - albite
-2---	PHANERITIC	---AM - albite-mica
--1--	Meta quartzite	---AP - anthophyllite
--2--	Marble	---BC - biotite-chlorite
--3--	Soapstone	---BI - biotite
--4--	Argillite	---CH - chlorite
--5--	Serpentinite	---CL - chloritoid
--6--	Skarn	---CO - cordierite
--7--	Amphibolite	---DI - diopside
--8--	Eclogite	---EC - epidote-chlorite
		---EN - enstatite
-3---	MECHANICAL	---EP - epidote
--1--	Kyanite	---GA - garnet
--2--	Flaser	---GC - garnet-chlorite
--3--	Augen	---GL - glaucophane
--4--	Ultramylonite	---GP - garnet-pyroxene
		---GR - graphite
-40--	SLATE	---HB - hornblende-biotite
		---KY - kyanite
-50--	PHYLLITE	---MU - muscovite
		---OL - olivine
-60--	SCHIST	---PH - phlogopite
		---PY - pyrophyllite
-7---	GNEISS	---QM - quartz-mica
		---QS - quartz-sericite
-8---	MIGMATITE	---SC - scapolite
--1--	Granite	---SE - sericite
--2--	Monzonite	---SP - serpentine
--3--	Granodiorite	---SI - sillimanite
--4--	Augen	---SK - staurolite-kyanite
--5--	Granulite	---ST - staurolite
--6--	Quartz diorite	---TM - tourmaline-mica
--7--	Diorite	---TO - tourmaline
--8--	Amphibolite	---TR - tremolite
		---WO - wollastonite
		---XX - other

BEDROCK

ID	EAST	NORTH														
80745051	770789	X10094000	082800	94D08	22	146	MR653	5309876NE	DGR CF	3	224M	E	M12PY21PY		12	
80745054	770795	X10105000	082000	94D08	31	442	DR843		DGR OF	6	234M	E	EQ102PY22PY	7	11	
80745057	770797	X10104000	082000	94D08	32	442	D0864		MW1 OF	2	1	X	CQ102PY22PY	10	11	
80745058	770801	X10101000	082000	94D08	32	442	MCE42		LGR OM	5	123PF	F	EHMC2PY22PY	1	1	
80745059	770808	X10112000	080800	94D08	37	436	DGR61		DGR JF	X	123M	H	I22PY32CP32CC	1	12	
80745054	770814	X10102000	080800	94D08	34	444	DR852		LGR CM	7	234M	E	EHMC2PY22PY	1	1	
80745054	770818	X10055000	080800	94D08	32	1134	DR863		MGR OF	2	6	234M	E	EHM22PY02PY	5	1

BEDROCK CODING KEY

123PF Plagioclase Diorite Porphyry
 234M Dacitic ash tuff - monolithic
 226M2 Monolithic Andesitic agglomerate
 - upper size range of
 fragments (3.2-10 cm)

APPENDIX 4

Chemical analyses were performed for some of the bedrock samples. Results for Mo, Cu, Pb (for some samples), and Zn are listed. Sample locations are available from Appendix 3 by referring to the sample ID.

UPPER CHANNEL

ID	Mo	Cu	Pb	Zn
85 4505 800540	10	245	25	332
85 4505 800541	15	161	25	225
85 4505 800542	16	340	20	285
85 4505 800543	15	380	25	220
85 4505 800544	14	325	25	225
85 4505 800545	20	400	30	285
85 4505 800546	12	150	20	210
85 4505 800547	21	157	25	230
85 4505 800548	6	44	22	55
85 4505 800549	5	100	24	95
85 4505 800550	3	101	24	50
85 4505 800551	5	160	27	75
85 4505 800552	5	124	25	95
85 4505 800553	2	14	15	10
85 4505 800554	7	81	23	110
85 4505 800555	6	111	25	100
85 4505 800556	5	85	26	140
85 4505 800557	9	85	28	100
85 4505 800558	7	53	26	117
85 4505 800559	3	30	21	70

LOWER CHANNEL

85 4505 800560	3	60	25	80
85 4505 800561	2	29	21	95
85 4505 800562	2	37	15	85
85 4505 800563	6	91	21	175
85 4505 800564	4	46	20	145
85 4505 800565	3	32	20	160
85 4505 800566	3	19	21	145
85 4505 800567	3	27	20	105
85 4505 800568	2	27	21	125
85 4505 800569	2	50	20	145
85 4505 800570	2	24	19	175
85 4505 801122	4	172		205
85 4505 801123	5	72		160
85 4505 801124	3	200		460
85 4505 801125	6	335		162
85 4505 801126	7	420		155
85 4505 801127	4	220		145
85 4505 801128	5	125		148
85 4505 801129	2	117		156
85 4505 801130	3	335		190
85 4505 801131	1	110		135
85 4505 801132	2	205		101
85 4505 801133	2	160		120
85 4505 801134	221	500		205
85 4505 801135	2	910		140
85 4505 801136	1	475		160
85 4505 801137	3	265		85
85 4505 801138	3	210		98
85 4505 801139	3	290		107
85 4505 801140	6	116		66
85 4505 801141	5	66		98
85 4505 801142	3	42		52
85 4505 801143	3	72		56
85 4505 801144	77	135		56
85 4505 801145	3	80		85
85 4505 801146	3	40		65
85 4505 801147	3	1650		205
85 4505 801148	5	95		112
85 4505 801149	3	315		85
85 4505 801150	2	251		65
85 4505 801151	3	102		62
85 4505 801152	3	82		82
85 4505 801153	3	283		75
85 4505 801154	3	172		66

ID	Mo	Cu	Pb	Zn
81 4505 801155	3	120		46
81 4505 810399	2	1070		75
81 4505 810402	1	210		45
81 4505 810407	1	350		55
81 4505 810415	1	230		52
81 4505 810464	2	270	12	46
81 4505 810465	1	28	5	3
81 4505 810472	1	82	14	25
81 4505 810482	1	278	11	32
81 4505 810492	2	70	11	76
81 4505 810494	1	275	15	62
81 4505 810496	2	465	18	122
81 4505 810500	1	48	25	300
81 4505 810502	2	57	30	300
81 4505 810503	2	42	20	196
81 4505 810505	3	27	30	75
81 4505 810506	2	136	18	147
81 4505 810510	1	92	12	110
81 4505 810514	1	118	15	135
81 4505 810516	1	40	12	132
81 4505 810509	1	52	27	350

APPENDIX 5FREQUENCY DISTRIBUTION PLOTS OF SOIL AND TALUS FINE GEOCHEMICAL DATA

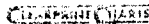
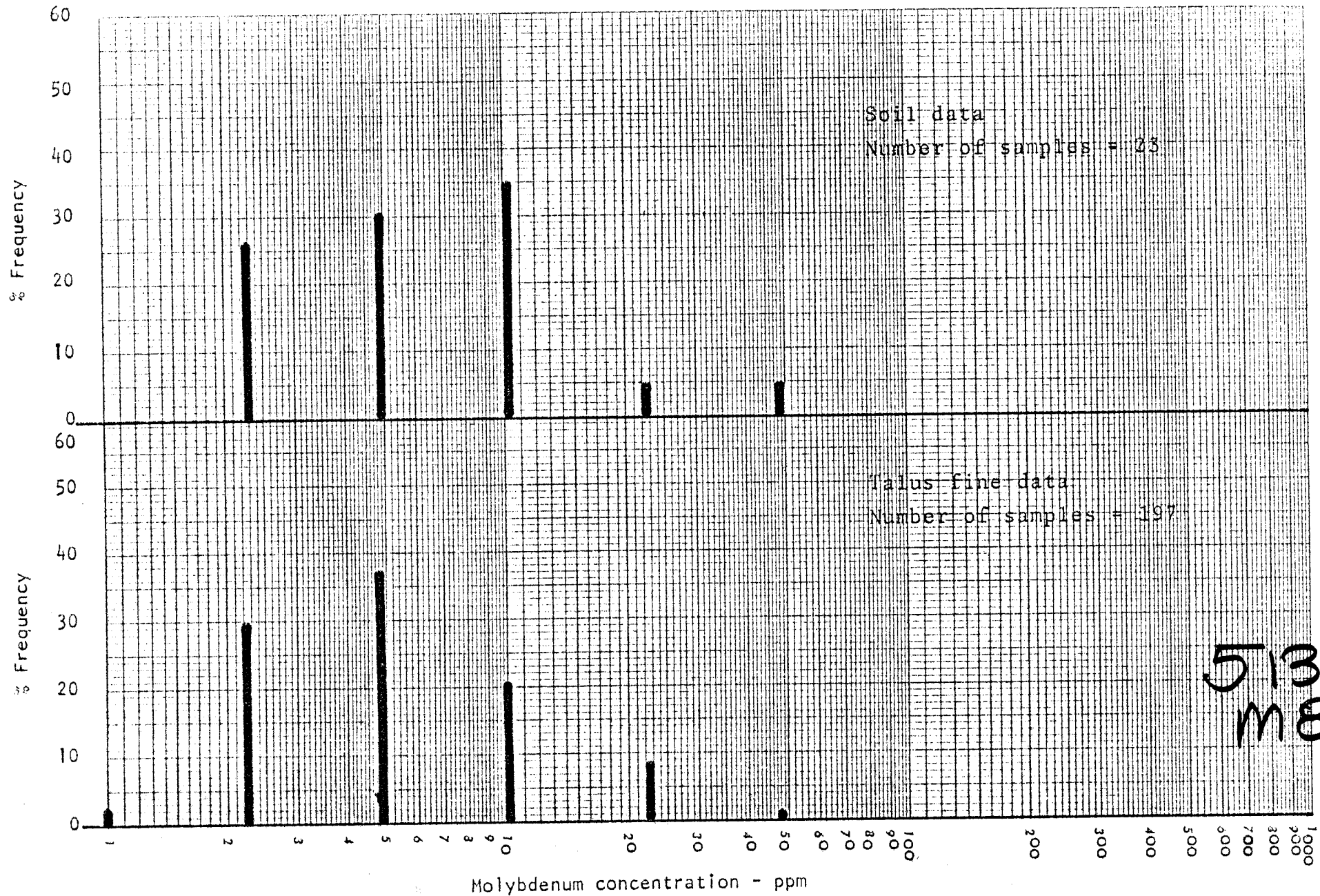


Plate 2: Frequency distribution for molybdenum



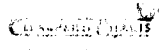
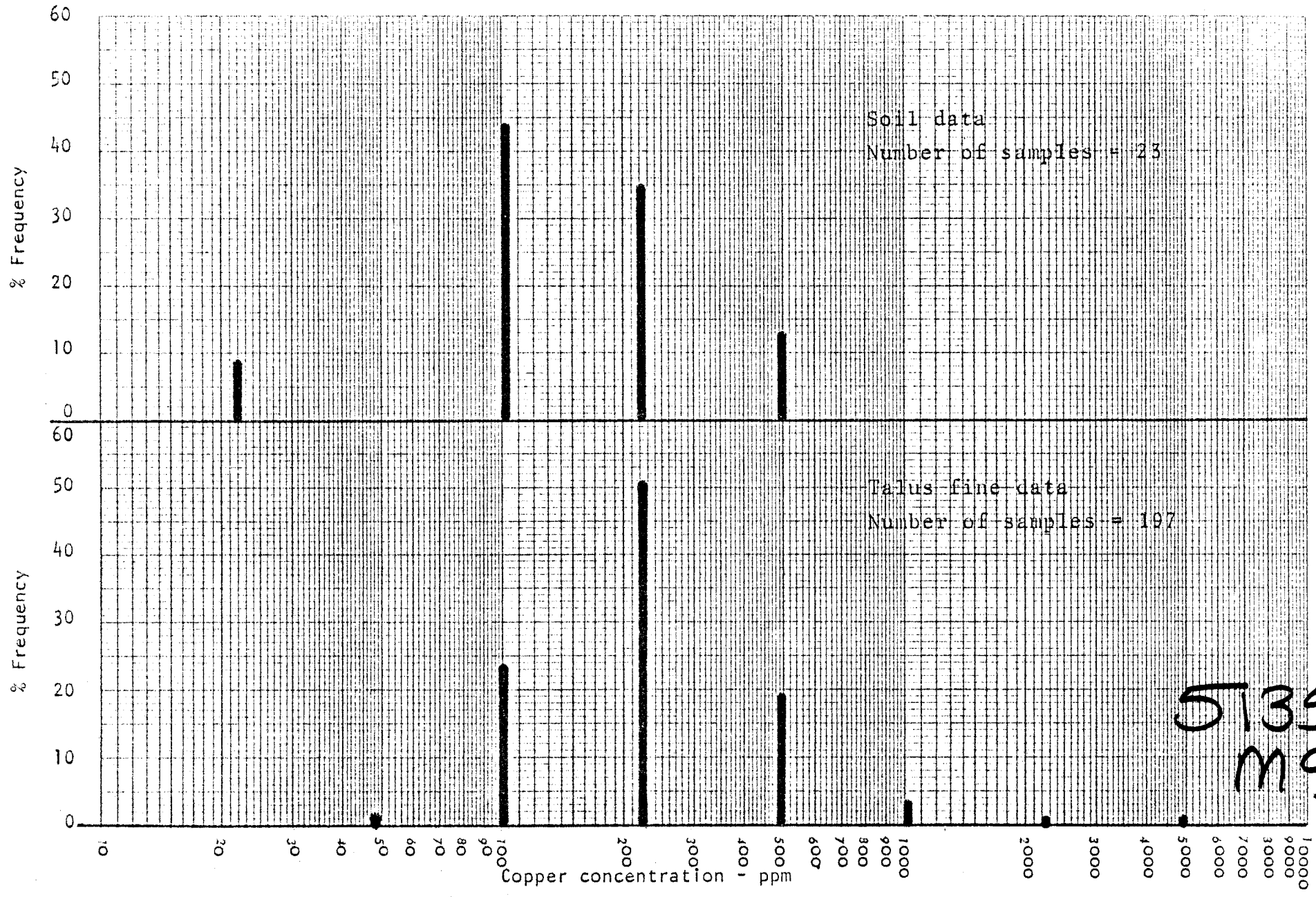


Plate 3: Frequency distribution for copper



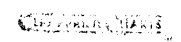
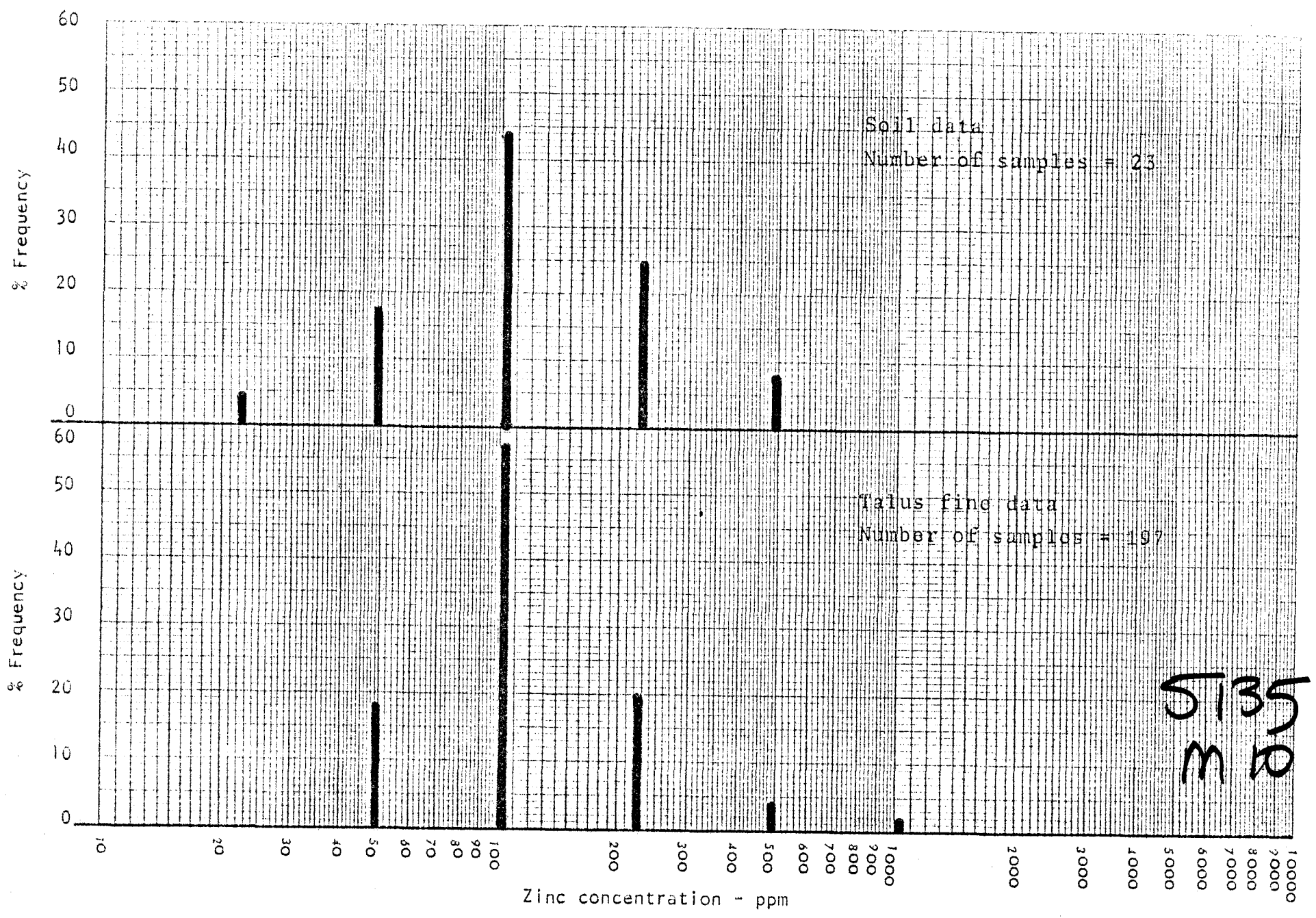
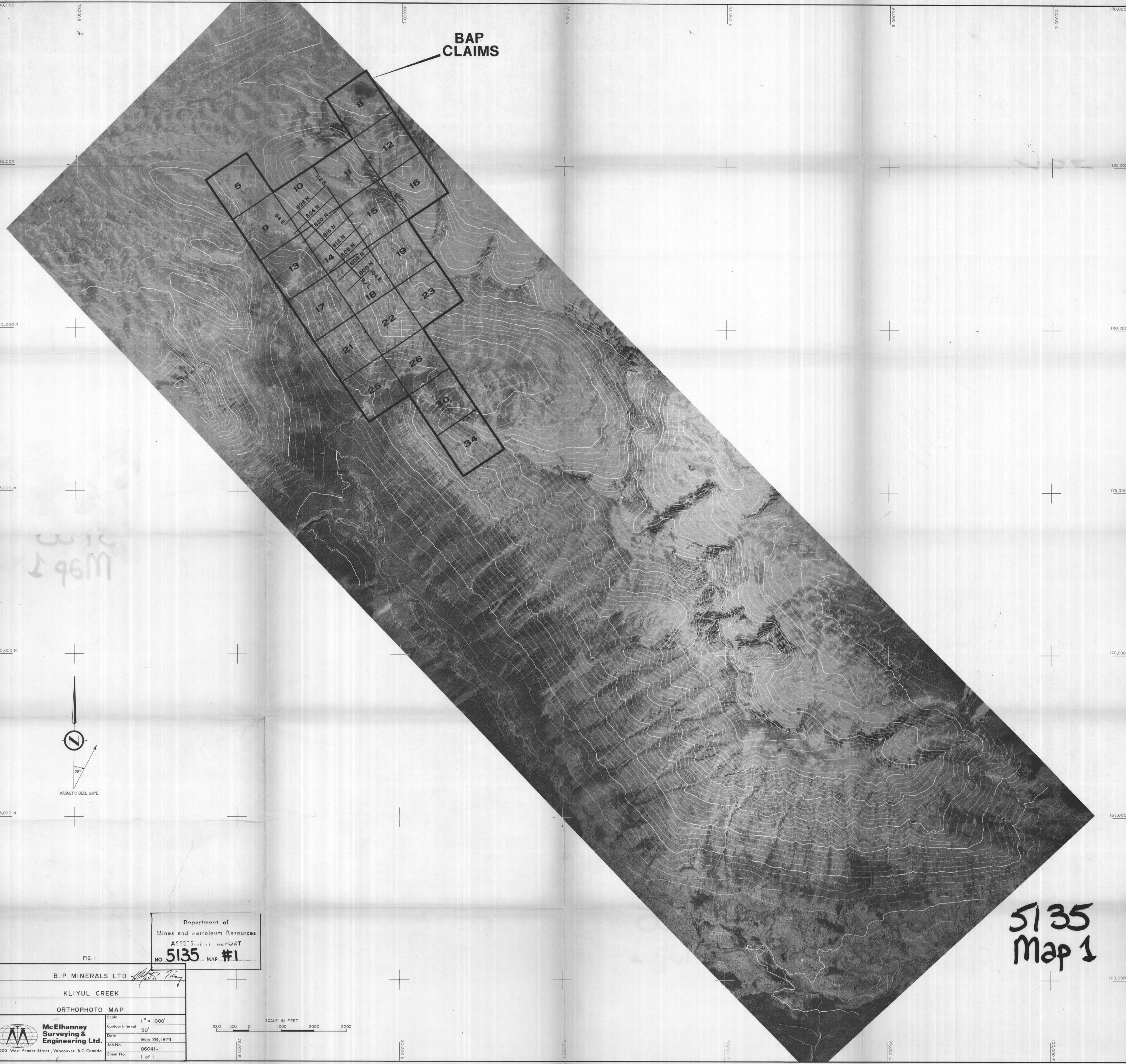


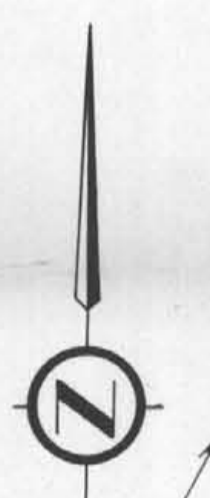
Plate 4: Frequency distribution for zinc



BAP CLAIMS



396M



MAGNETIC DECL. 28°E.

5135
Map 1

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5135 MAP #1

B. P. MINERALS LTD
KLIYUL CREEK

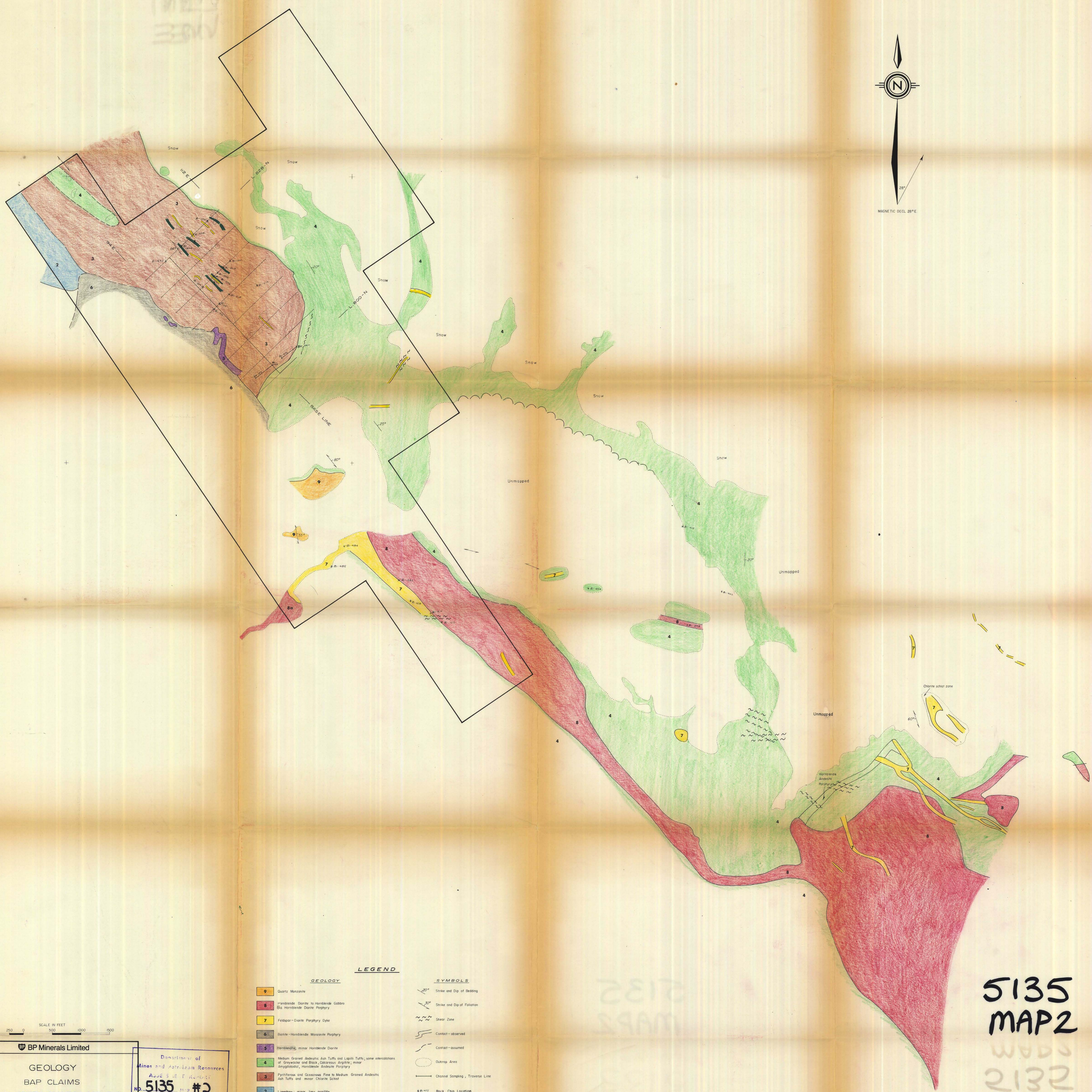
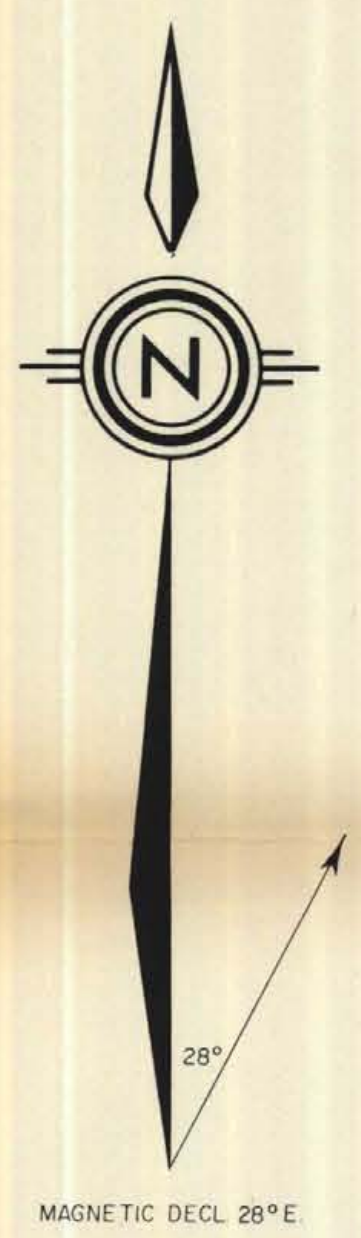
ORTHOPHOTO MAP

 **McElhanney
Surveying &
Engineering Ltd.**
1200 West Pender Street, Vancouver B.C. Canada

Scale 1" = 1000'
Contour Interval 50'
Date May 28, 1974
Job No. 06041-1
Sheet No. 1 of 1

SCALE IN FEET
1000 500 0 1000 2000 3000

5135
MAP 2



LEGEND

GEOLOGY		SYMBOLS	
9	Quartz Monzonite	20°	Strike and Dip of Bedding
8	Hornblende Diorite to Hornblende Gabbro Bt Hornblende Diorite Porphyry	30°	Strike and Dip of Foliation
7	Feldspar-Diorite Porphyry Dyke	~ ~ ~	Shear Zone
6	Biotite-Hornblende Monzonite Porphyry	— —	Contact - observed
5	Hornblende, minor Hornblende Diorite	— —	Contact - assumed
4	Medium Grained Andesitic Ash Tufts and Lapilli Tufts, some intercalations of Greywacke and Black, Carbonaceous Argillite; minor amphibolite, Hornblende Andesite Porphyry	○	Outcrop Area
3	Pyritic and Gossanous Fine to Medium Grained Andesitic Ash Tufts and minor Chlorite Schist	— —	Channel Sampling, Trench Line
2	Limestone, minor limy argillite	✱	Rock Chip Location
1	Alteration - Strong Sulfidation, Chloritization	—	Cliffs

5135
MAP 2

WADJ
2132

BP Minerals Limited

GEOLOGY
BAP CLAIMS
KLIYUL CREEK OMINICA MD, B.C.

Department of
Mines and Petroleum Resources
AUG 5 1994
NO. 5135 #2

SCALE 1" = 500'

SCALE IN FEET
500 250 0 500 1000 1500

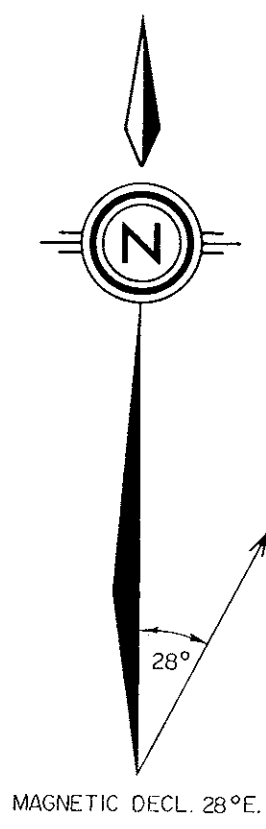
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NTS 94 08

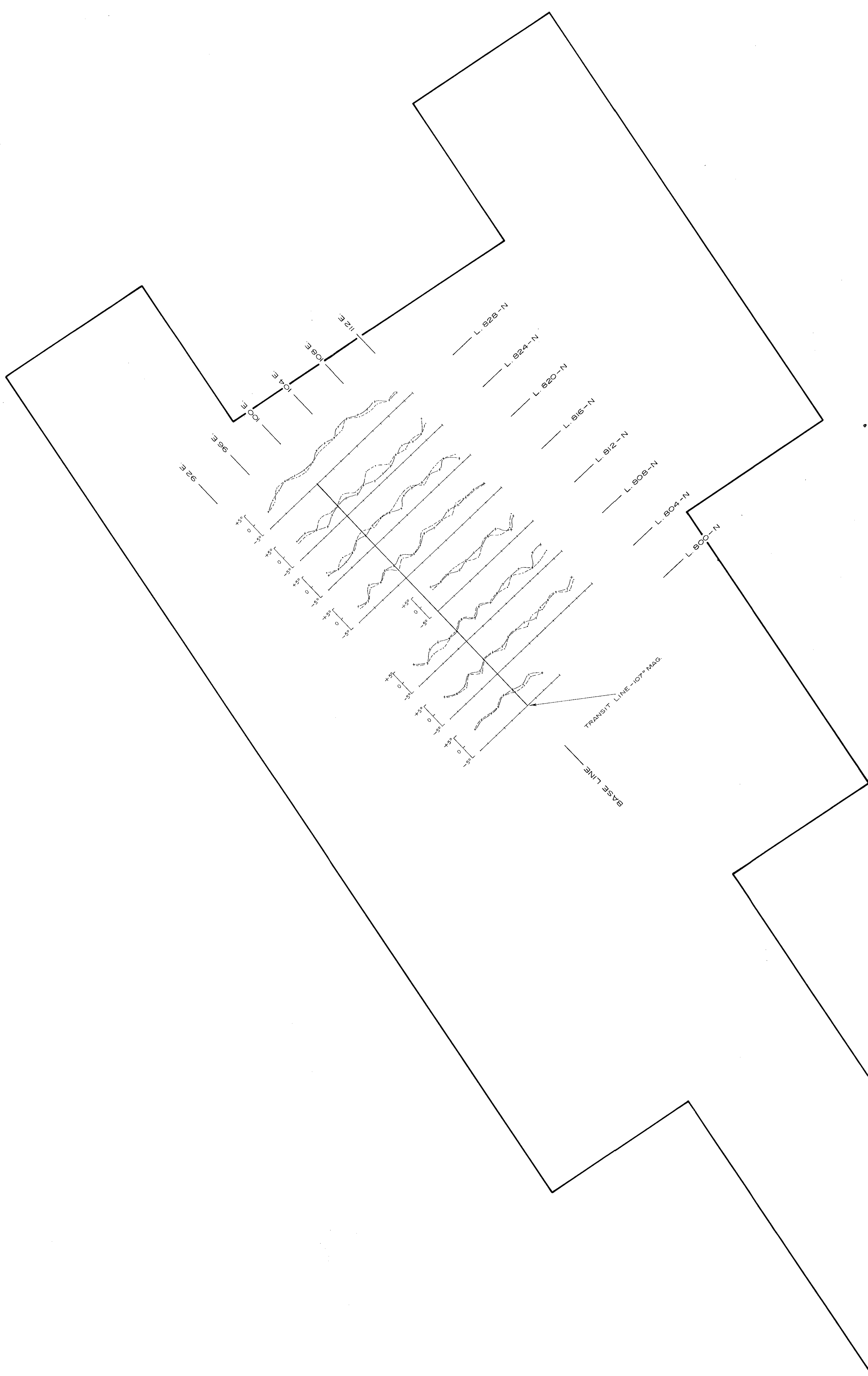
PROJ. 505

FIG. 2

To accompany report: Geological - Geochemical - Geophysical Report on
Bap Claims, Kiyul Creek by D.K. Mustafa P. Eng.



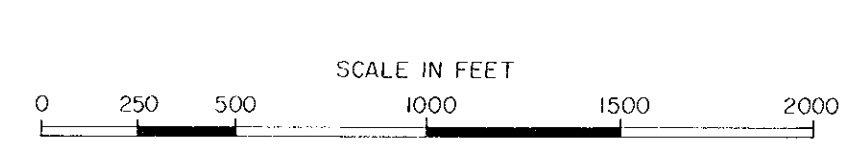
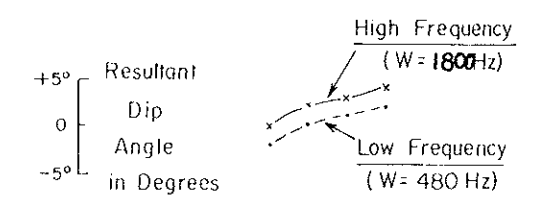
MAGNETIC DECL. 28° E.



5135
M3

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5135 MAP #3

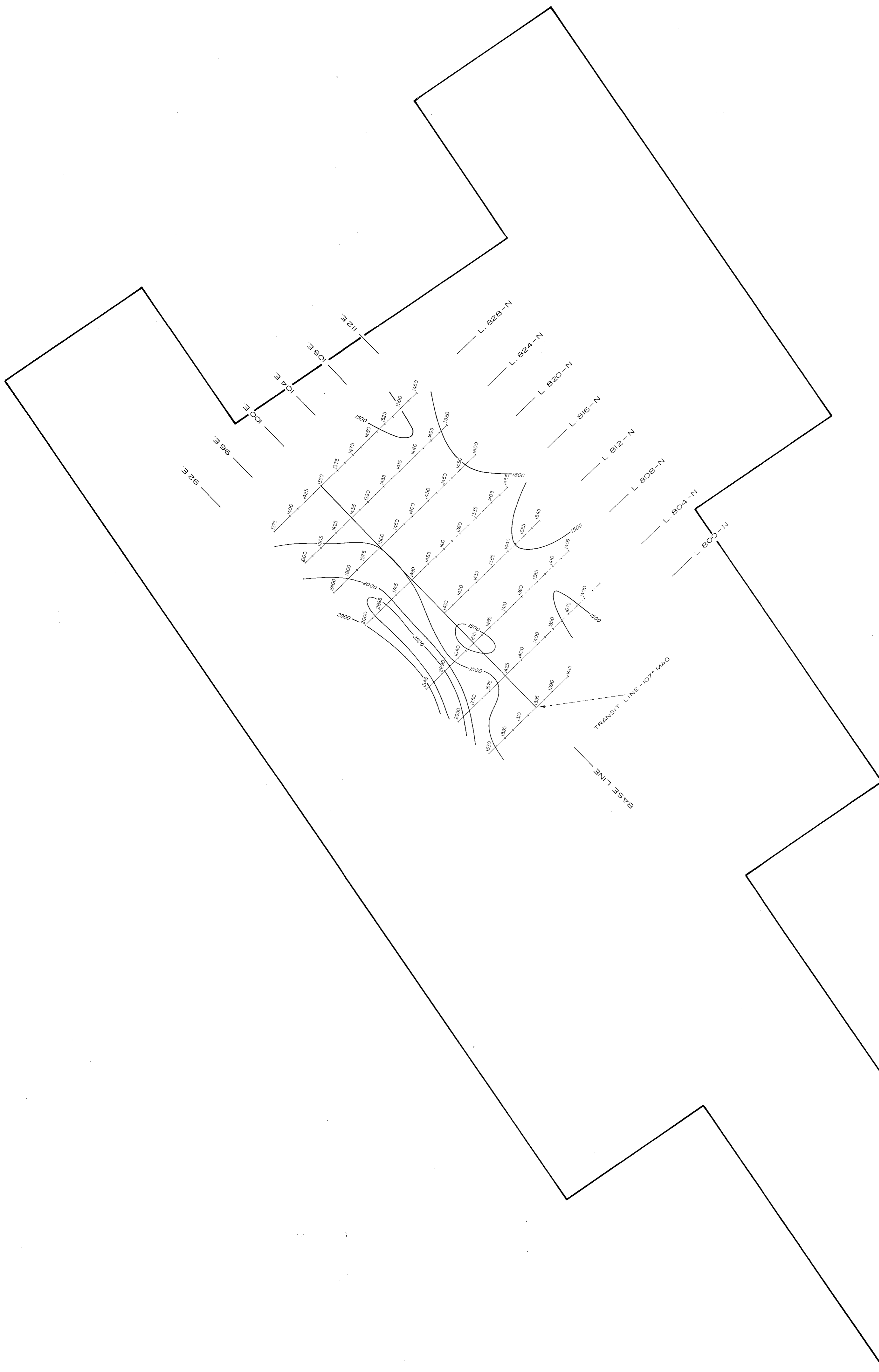
LEGEND



BP Minerals Limited

ELECTROMAGNETIC SURVEY
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

SCALE	1" = 500'	NTS	94 08	FIG. 3
DRAWN	Altair	DATE	SEP 12 1974	PROJ. 505
To accompany report: Geological - Geochemical - Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.				

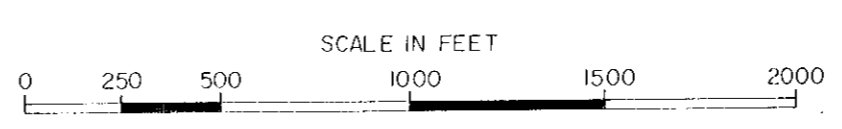


5135
M4

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5135 #4

LEGEND

2000
Contour interval 500 gammas



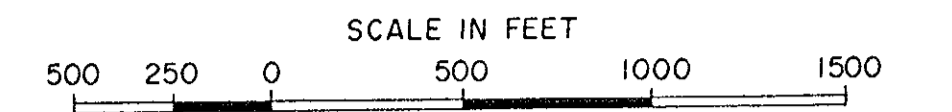
BP Minerals Limited

MAGNETOMETER SURVEY
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

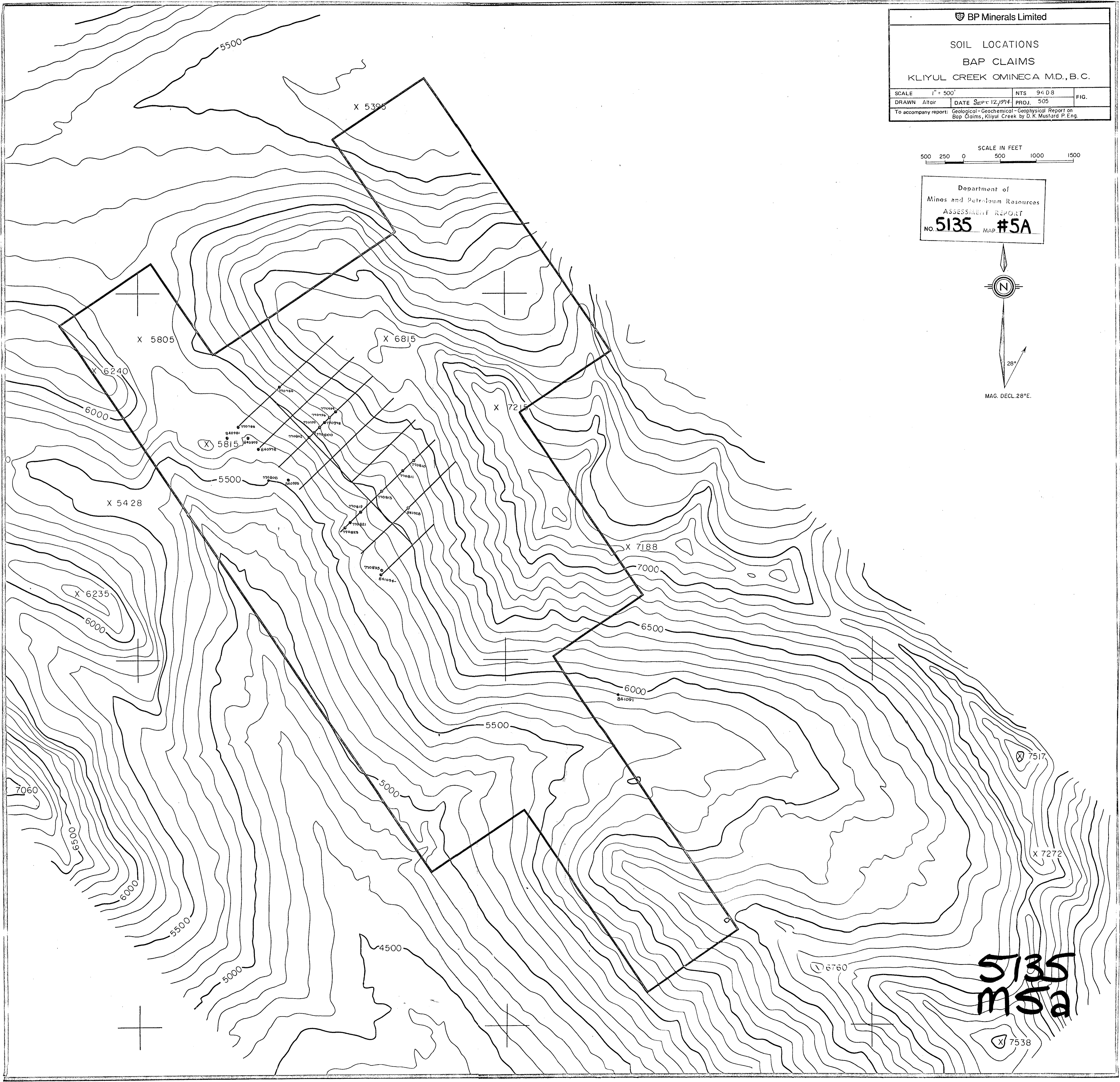
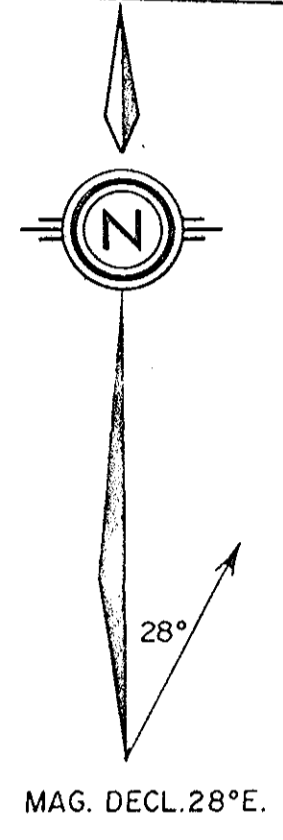
SCALE	1" = 500'	NTS	94 D8	FIG. 4	
DRAWN	Altair	DATE	SEP 12 1974	PROJ.	505
To accompany report: Geological - Geochemical - Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P.Eng.					

SOIL LOCATIONS
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

SCALE	1" = 500'	NTS	94 D.8	FIG.	
DRAWN	Atfir	DATE	SEPT 12, 1974	PROJ.	505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P.Eng.					



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **5135** MAP **#5A**



5135
MSA

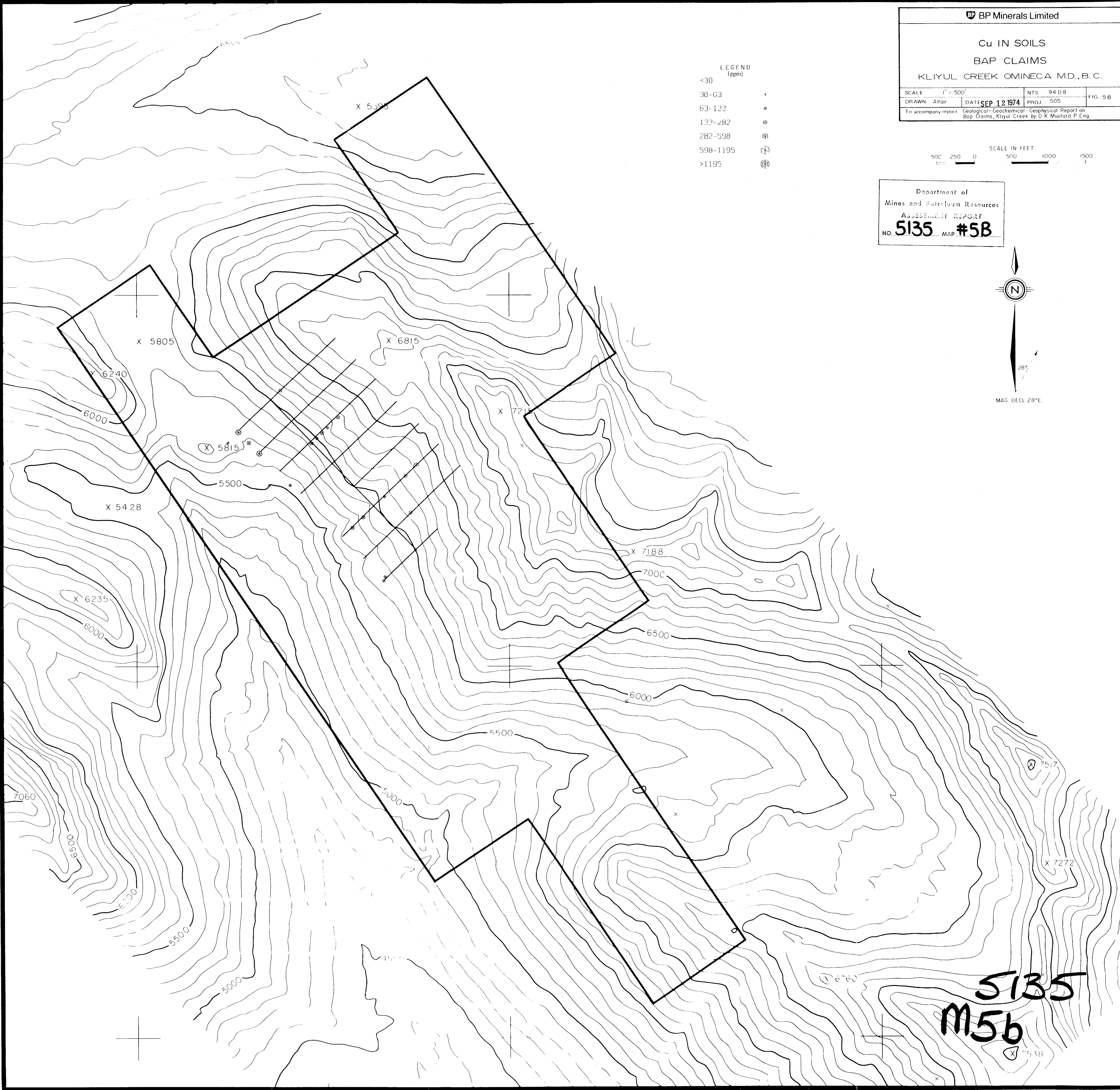
Cu IN SOILS
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

SCALE 1" = 500'	NTS 94 D 8	FIG. 5B
DRAWN Altair	DATE SEP 12 1974	PROJ. 505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.		

- LEGEND (ppm)
- <30
 - 30-63
 - 63-133
 - 133-282
 - 282-598
 - 598-1195
 - >1195

SCALE IN FEET
500 250 0 500 1000 1500

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5135 MAP #5B



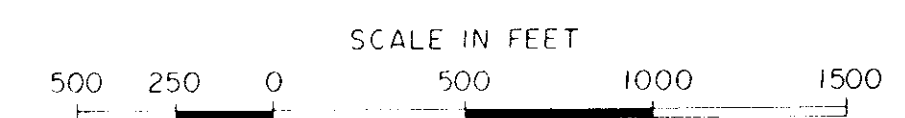
5135
M5b

Mo IN SOILS
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B. C.

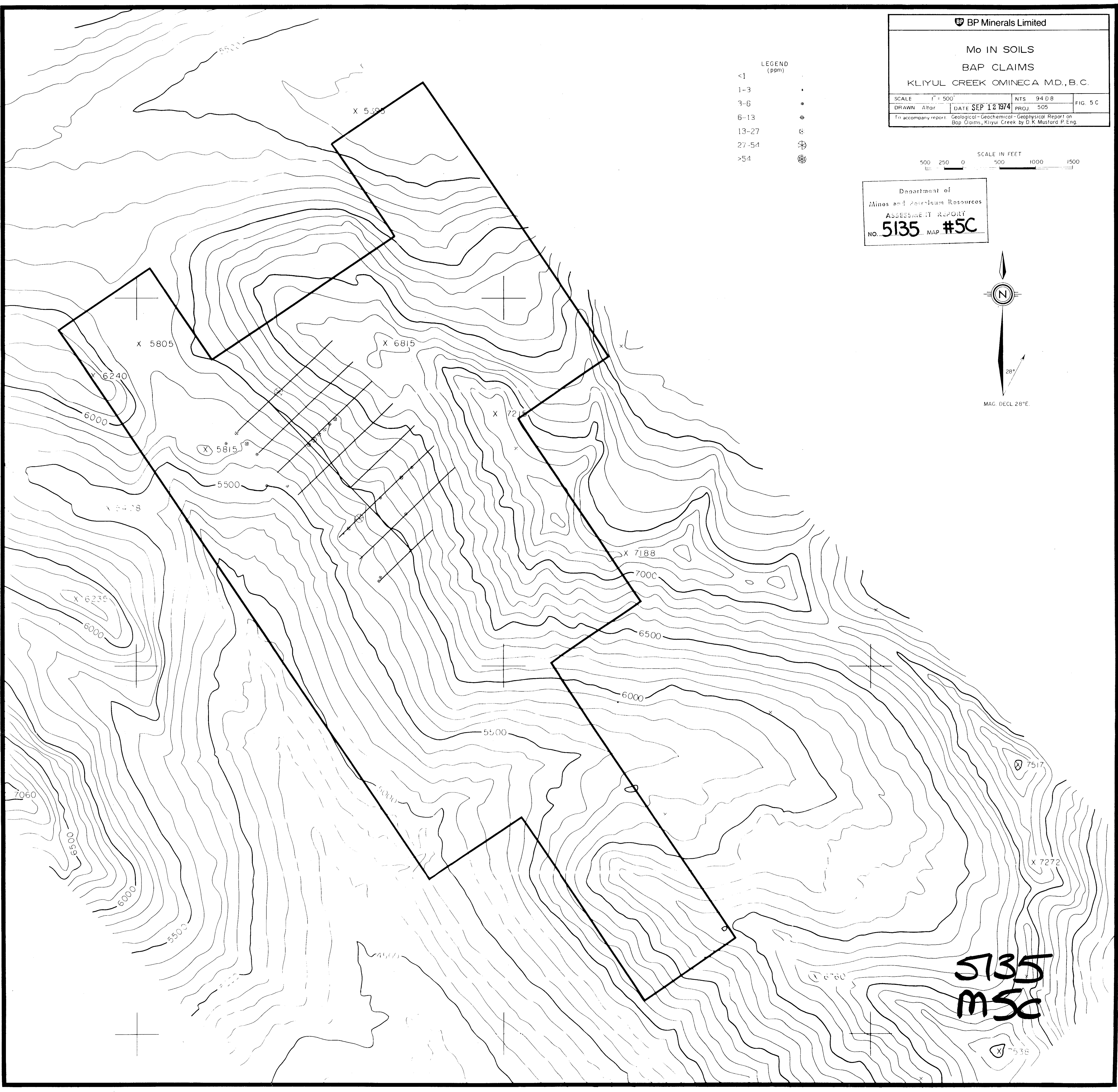
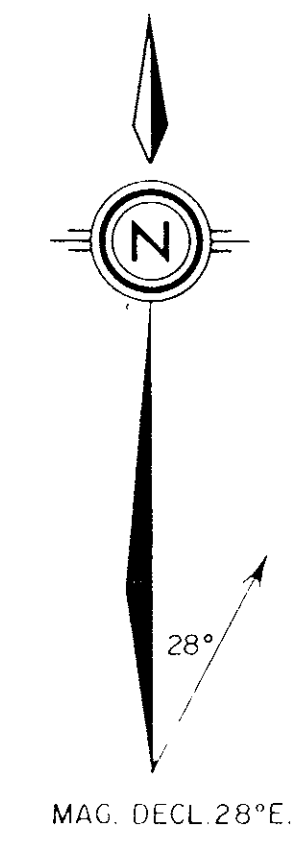
SCALE	1" = 500'	NTS	94 DB	FIG. 5 C
DRAWN	Altair	DATE	SEP 12 1974	PROJ. 505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P.Eng.				

LEGEND (ppm)

<1	•
1-3	•
3-6	•
6-13	•
13-27	•
27-54	•
>54	•



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5135 MAP #5C



5135
MSC

Zn IN SOILS
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

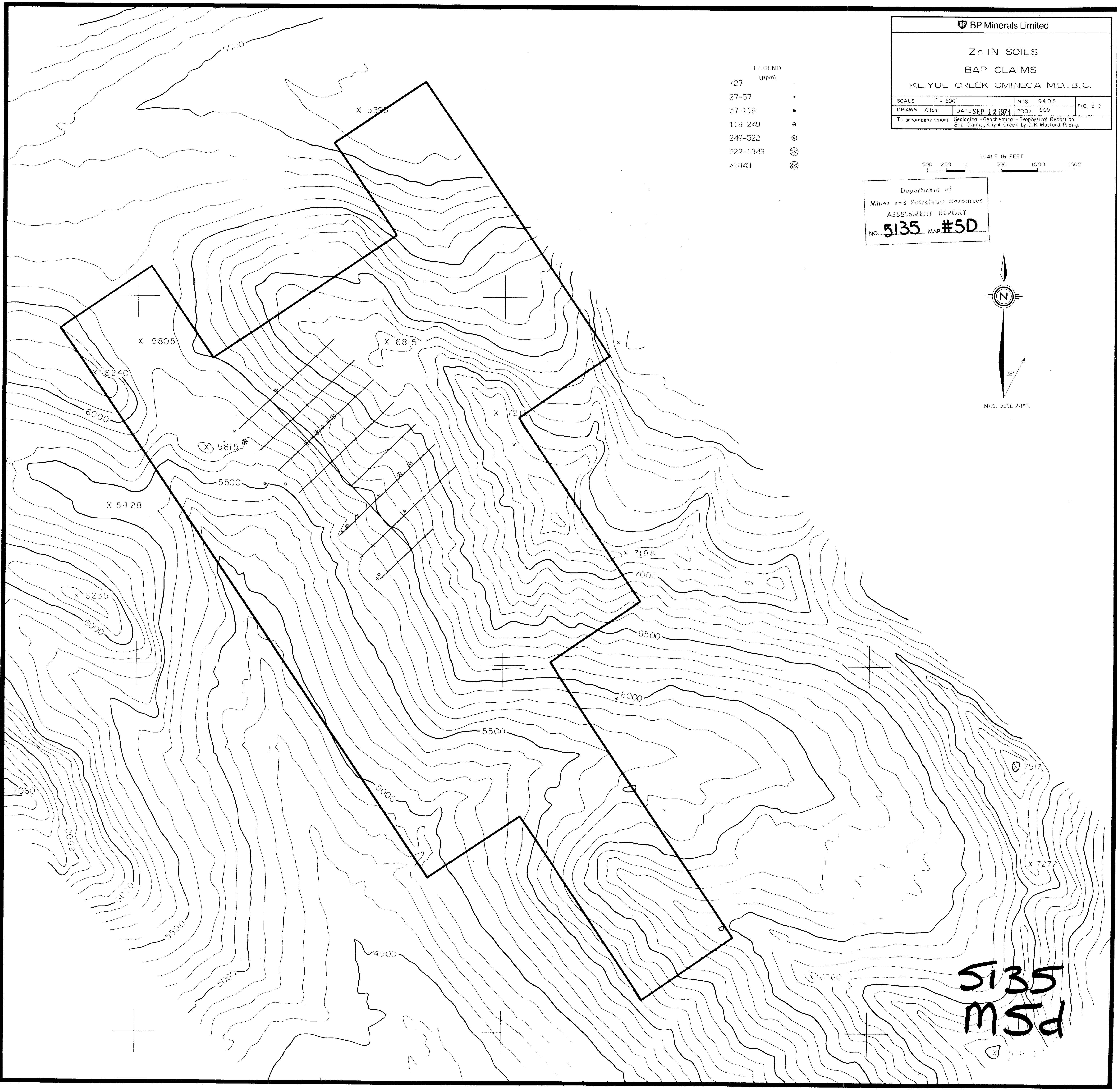
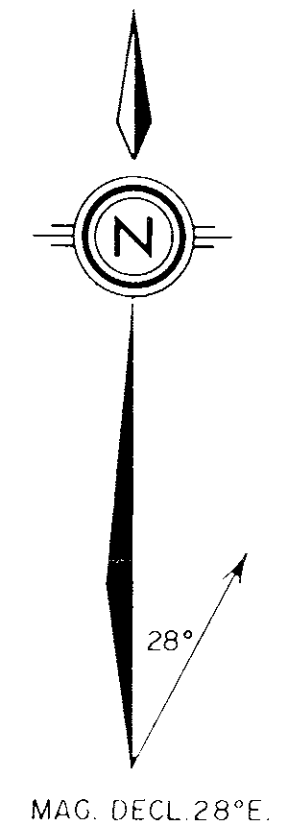
SCALE	1" = 500'	NTS	94 D 8	FIG. 5 D	
DRAWN	Altair	DATE	SEP 12 1974	PROJ.	505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.					

LEGEND (ppm)

<27	•
27-57	•
57-119	•
119-249	⊕
249-522	⊕
522-1043	⊕
>1043	⊕

SCALE IN FEET
500 250 500 1000 1500

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Cu IN TALUS FINES

BAP CLAIMS

KLIYUL CREEK OMINECA M.D., B.C.

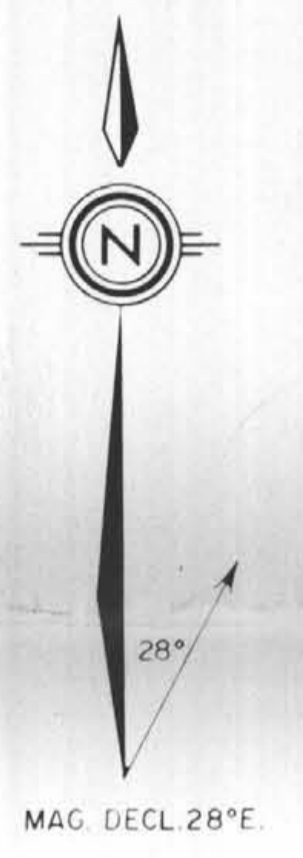
SCALE	1" = 500'	NTS	94 D8	FIG	6B
DRAWN	Altair	DATE	SEP 12 1974	PROJ.	505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.					

LEGEND (ppm)

<53	•
53-109	•
109-225	•
225-466	•
466-963	•
963-1827	•
>1827	•

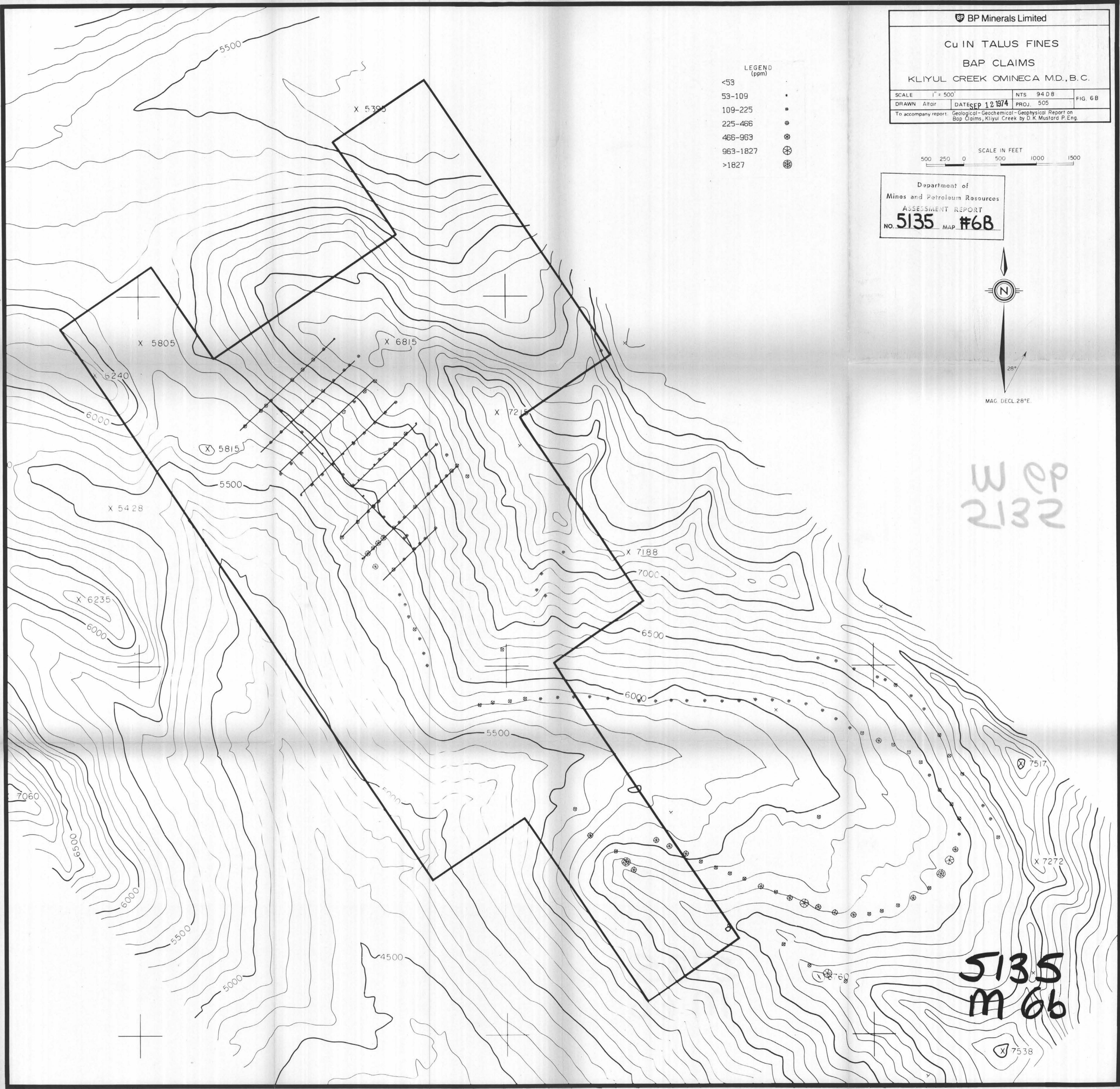


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W op
2132

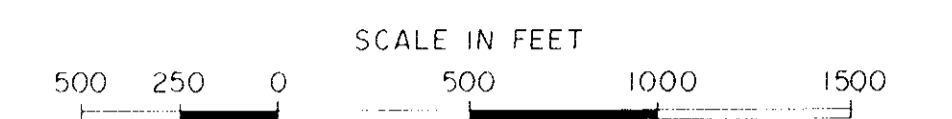
5135
M 68



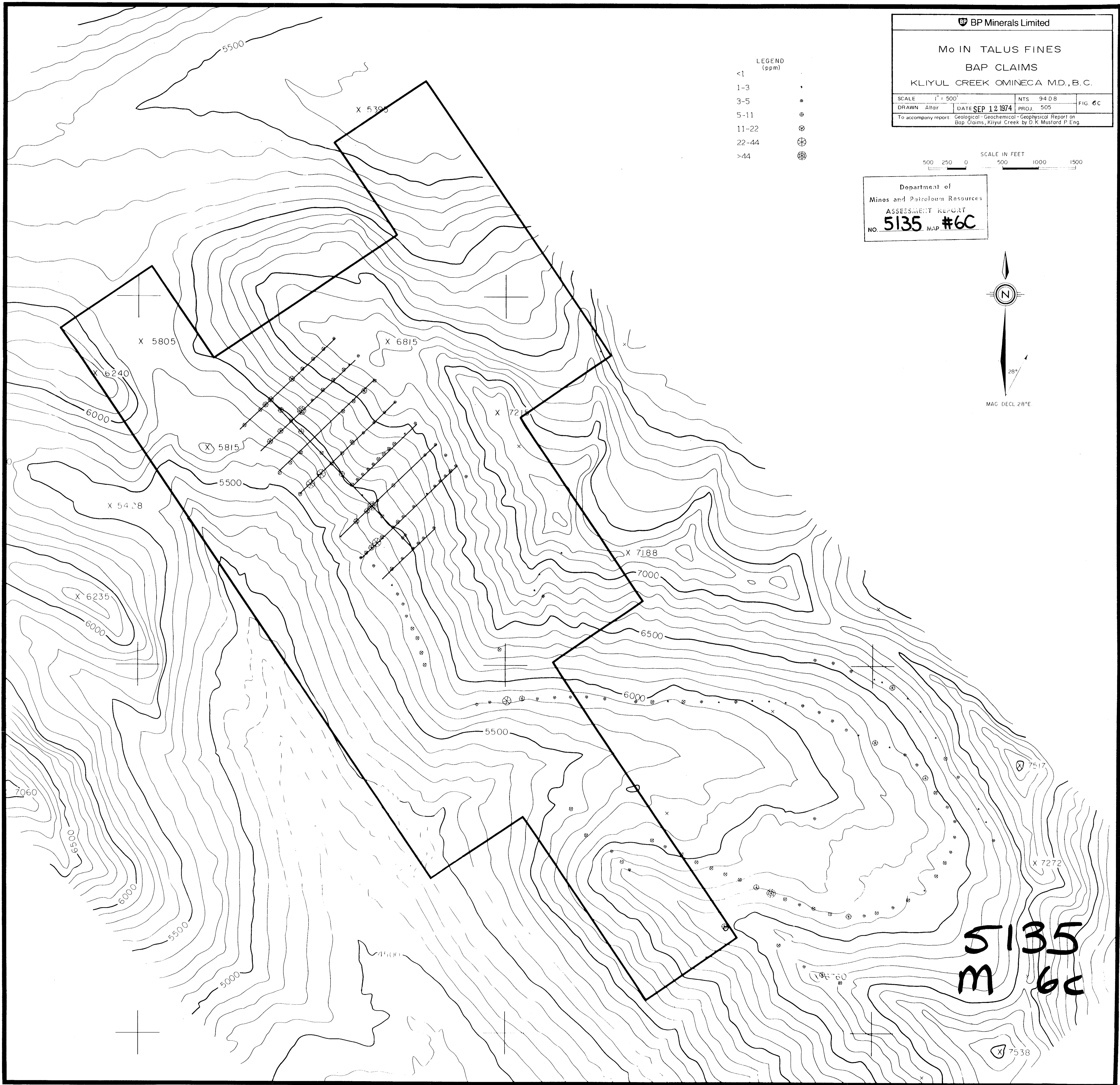
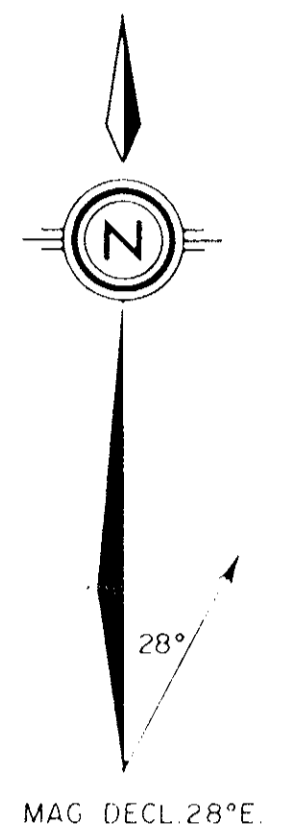
SCALE	1" = 500'	NTS	94 08	FIG	6C
DRAWN	Altair	DATE	SEP 12 1974	PROJ.	505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.					

LEGEND (ppm)

<1	•
1-3	•
3-5	•
5-11	•
11-22	•
22-44	•
>44	•



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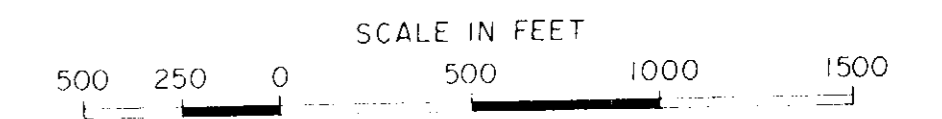


Zn IN TALUS FINES
BAP CLAIMS
KLIYUL CREEK Omineca M.D., B.C.

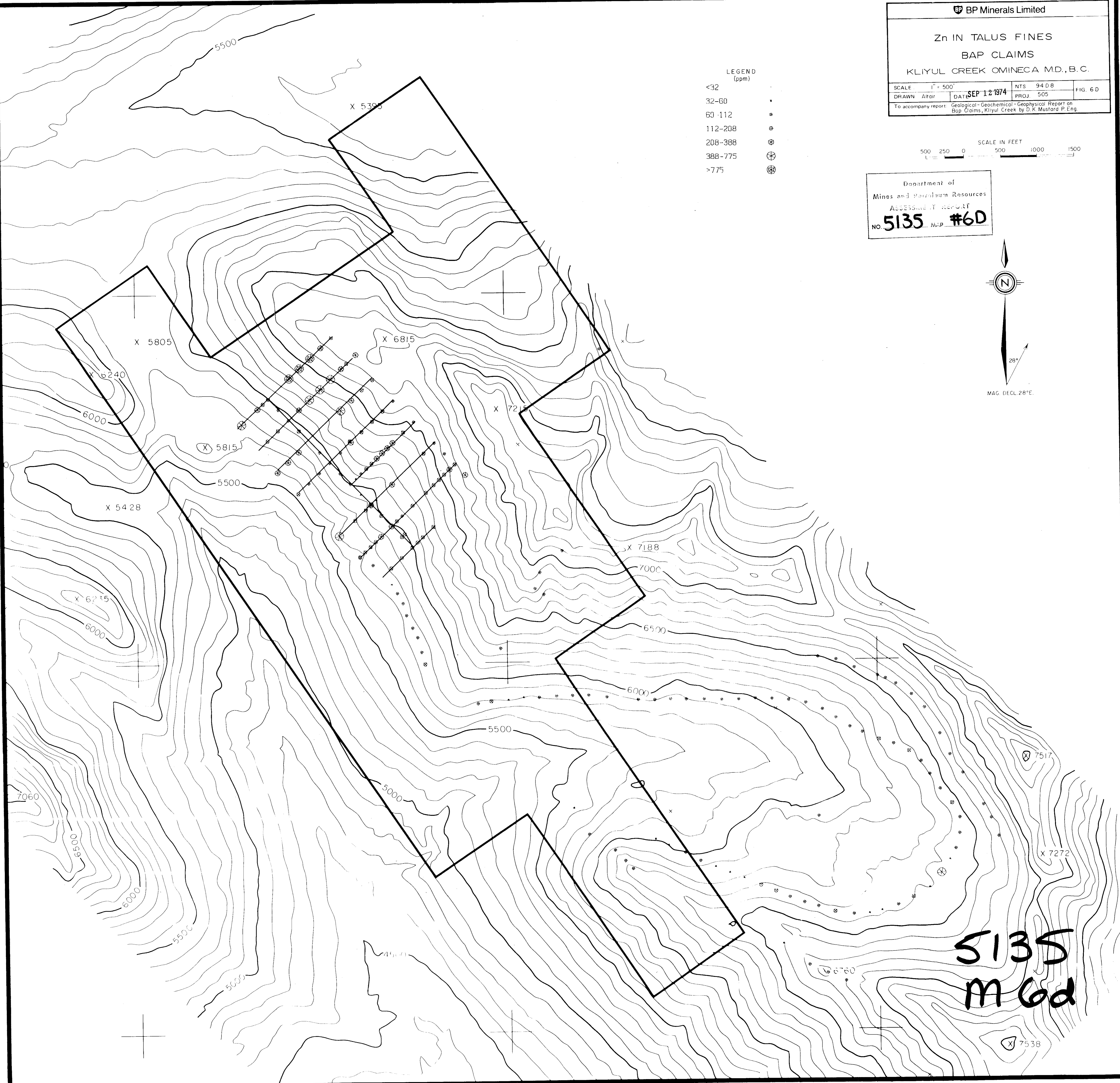
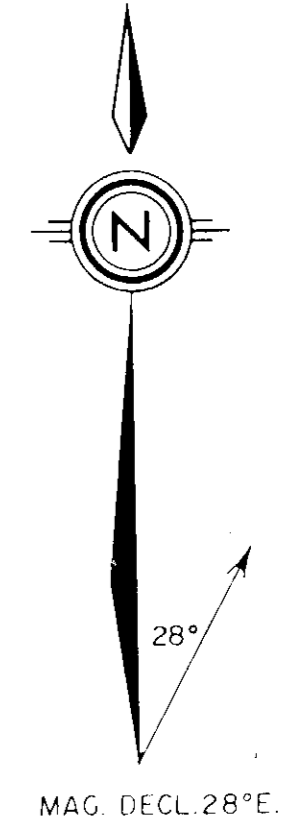
SCALE	1" = 500'	NTS	94 D 8	FIG.	6 D
DRAWN	Allair	DATE	SEP 12 1974	PROJ	505
To accompany report: Geological - Geochemical - Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustard P. Eng.					

LEGEND (ppm)

<32	.
32-60	*
60-112	o
112-208	⊕
208-388	⊗
388-775	⊙
>775	⊛



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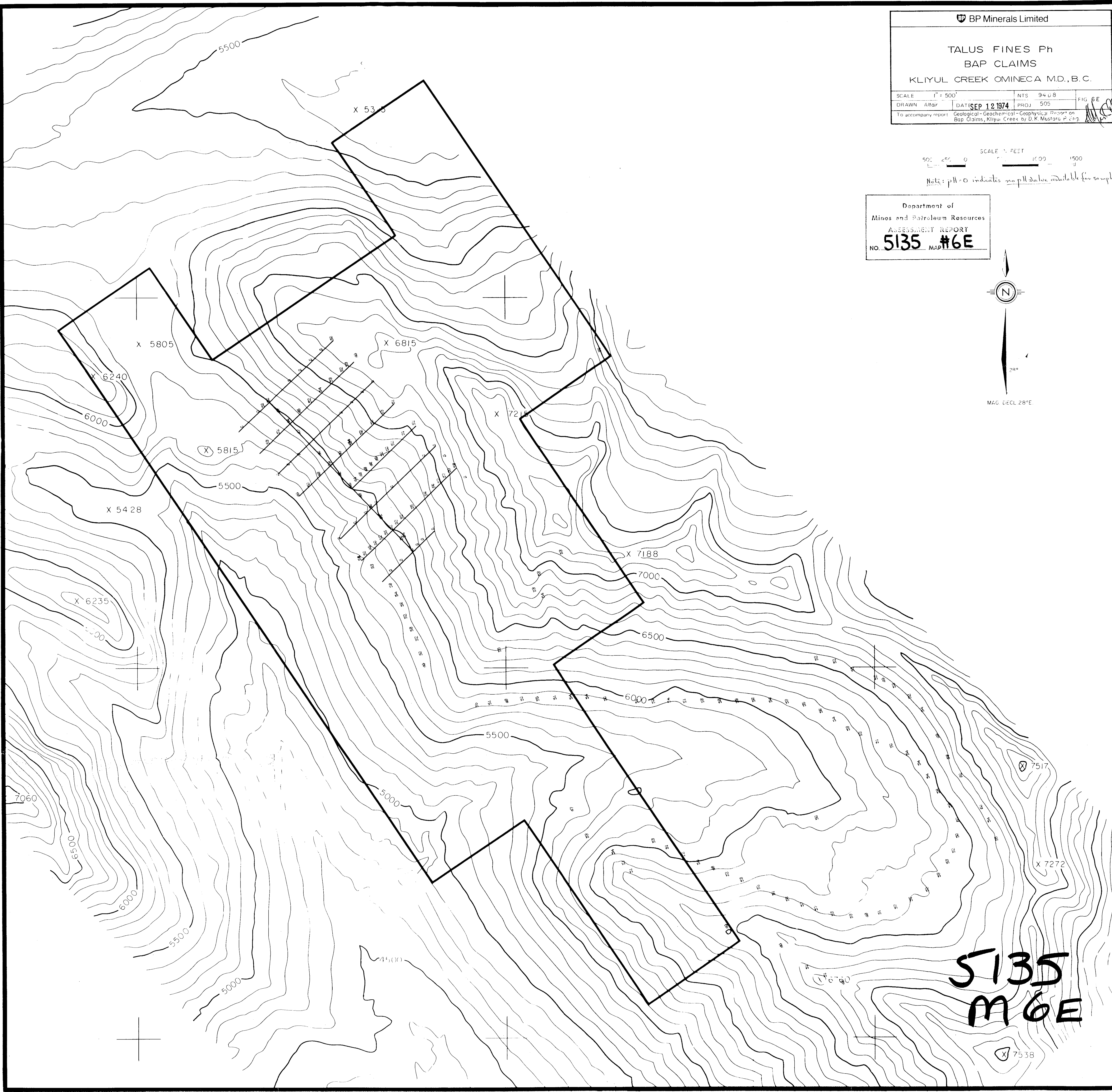
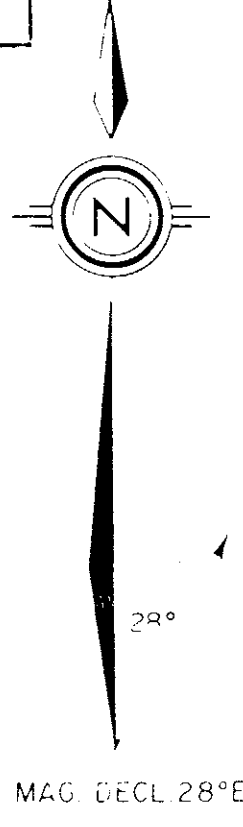
TALUS FINES Ph
BAP CLAIMS
KLIYUL CREEK OMINECA M.D., B.C.

SCALE	1" = 500'	NTS	9408	FIG	BE
DRAWN	Altair	DATE	SEP 12 1974	PROJ	505
To accompany report: Geological-Geochemical-Geophysical Report on Bap Claims, Kliyul Creek by D.K. Mustaru P. Eng.					

SCALE: 1" = 500'
500 250 0 250 500

Note: pH=0 indicates no pH value available for sample.

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5135
M 6E