

5897

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

CAT Mineral Claims

(CAT #1 and CAT #2)
(each of 14 units)

Owned and Operated by

BP MINERALS LIMITED

Oslinka River Area

Omineca Mining Division

NTS 94C/3

Located 9.5 kilometres WSW Uslika Lake, B.C.

56°03' Lat 125°22' Long

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5897 MAP



By: D.K. Mustard, P.Eng.
April 30, 1976

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INTRODUCTION

The Oslinka River property comprises two claims, CAT #1 and CAT #2, each consisting of fourteen units for a total of twenty-eight units.

The claims were staked on March, 30, 31 and April 1, 1975.

During late April, early May, 1975, a contract low-level airborne magnetic survey was flown over the property area as part of a larger airborne survey.

During the 1975 field season the following surveys were conducted over the CAT claims by BP Minerals Limited: geological mapping, geochemical sampling and ground magnetometer. In addition, a line-cutting survey was conducted by a contractor.

Claim credits of 28 years have been applied to CAT #1 and to CAT #2 for 2 years credit on each unit.

The CAT claims are predominantly underlain by Takla Group volcanic rocks of Upper Triassic-Lower Jurassic age. The volcanics have been intruded by syenitic feldspar porphyry, fine-grained granite and hornblende diorite. Mineralization consisting of magnetite, hematite, pyrite, chalcopyrite, minor bornite and their secondary products has been observed principally in veins but also as fracture-fill and disseminations.

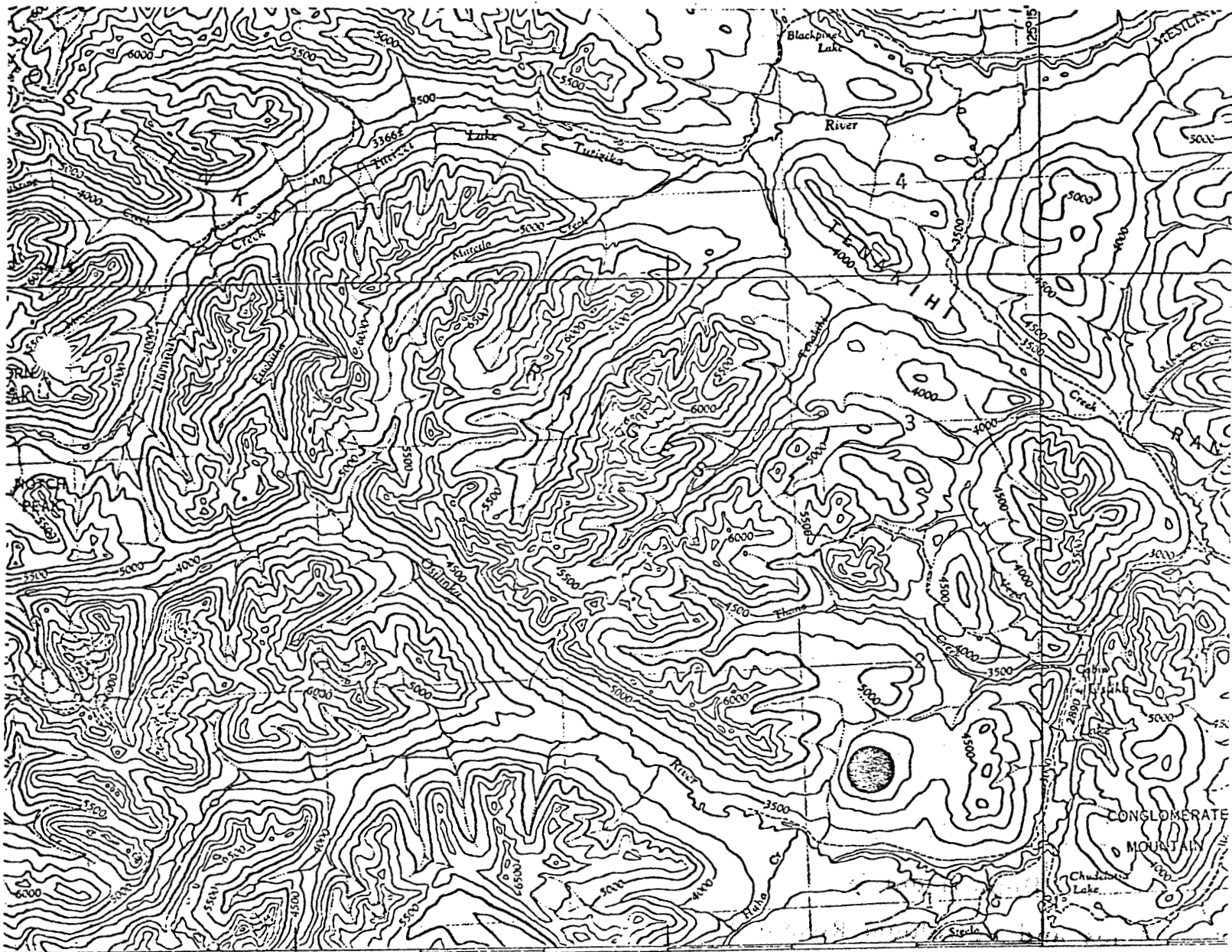
Figure 1

Location Map

OSLINKA RIVER PROPERTY

CAT 1 and CAT 2 Claims

Scale: 1" = 4 miles (1:253,440)



007-E 45° 13' 30' 15°

LOCATION AND ACCESS (see Figures 1 and 2)

The CAT claims are situated in the Omineca Mining Division, 9.5 kilometers WSW of Uslika Lake, B.C.

Access to the claims area is by helicopter from Uslika Lake which is located on the Omineca highway from Fort St. James. Access can also be gained via an old road which was put into the property area by previous operators but which is presently impassable.

FIELD WORK

i) Airborne Magnetic Survey (Appendix 1)

During the period April 25 to May 5, 1975 a low-level helicopter-borne aeromagnetic survey was flown in the Oslinka River and Tutizzi Lake area of northern British Columbia. The survey was flown by Morrison and DePaoli, geophysical consultants, on behalf of BP Minerals Limited. The report in Appendix 1 outlines the instrumentation, field procedure and results obtained from one segment of the total survey related to the CAT claims. Of the 1244.5 line-kilometres of geophysical coverage attained over the total survey area some 109.5 line-kilometres have been applied to the CAT claims.

ii) Grid Preparation (see Figure 3)

During the period June 29 to July 1 9.6 kilometres of line-cutting was conducted over the CAT claims. The base-line was surveyed with transit and chain. The east-west cross-lines, which were established every 400 feet along the base-line,

were surveyed with compass and tape. Station intervals were established every 200 feet. The line-cutting survey (4 man-crew) was contracted to D.K. Bragg of Vancouver - an exploration service contractor.

Additional grid control was also established by BP personnel using compass and biodegradeable "topofil" thread. A total of 48 line-kilometres was established by this method with cross-lines every 800 feet and with station intervals of 400 feet.

iii) Orthophotography (see Figure 3)

An orthophotograph was prepared for the CAT claims by McElhanney Surveying and Engineering Limited. The orthophoto. is an aerial photo mosaic which has been corrected for horizontal scale distortions, with superimposed contour lines (contour interval 50 feet) and a scale of 1 inch equals 1000 feet. The orthophoto. was used as a base for geological mapping and as an additional ground control for geochemical, geophysical and line-cutting surveys.

iv) Geological Mapping (see Figure 4)

A total of 19 man days were spent geologically mapping the CAT claims. The geology of the claims area was mapped at a scale of 1 inch equals 1000 feet on an orthophoto. base map with the superimposed grid system.

v) Ground Magnetometer Survey (see Figures 5 and 6)

A total of 10 man days were spent conducting a ground magnetometer survey over the established grid system on the

CAT claims. Readings were taken every 100 feet along the base-line and cross-lines. A rental Scintrex MF-2 fluxgate magnetometer was used for the survey.

iv) Geochemical Surveys (see Figures 7 and 9)

A geochemist and sampler spent 16 man days sampling soil, talus, rock-chip, seepage and stream sediments. Samples were collected at each station interval on the established grid system as well as other localities such as streams, seepage areas and talus cones.

A total of 6 man days (field technician) were spent in sample preparation (drying and sieving to -80 mesh) and pH measurements using an Orion model 401 pH meter.

A total of 620 samples were collected and submitted for AAS analysis by Vangeochem Lab Ltd. of North Vancouver, B.C. Fifty-four of these samples were later re-analyzed using a partial extraction method. The samples were analyzed for copper, lead, zinc and molybdenum.

GEOLOGICAL MAPPING

General Geology

The CAT claims encompass a conical hill composed of Takla Group andebasalt pyroclastics and augite porphyry flows. These units are intruded by syenite porphyry in the center of the property and by a northwest elongate mass of hornblende diorite in the south and southwest. The diorite is intruded by a granite stock(?) in the southwest. Both of these bodies are satellite intrusives of the Hogem Batholith which outcrops 2.5 kilometers west of the property.

A major northeast striking fault transects the CAT claims; and other less prominent faults and shear zones strike north and northwest. Massive mineralization is localized along north and west trending structures. Several magnetite veins of varying width up to 0.5 meters carry chalcopyrite. Minor disseminated chalcopyrite, molybdenite, tourmaline and specular hematite are found in syenite porphyry exposed in the trenches.

A detailed examination of existing trenches was not possible due to groundwater in and extensive slumping of the workings.

Description of Units

TAKLA VOLCANICS (Upper Triassic)

a) Augite Andebasalt Porphyry (Unit 4)

This unit is found in the north and south central

sections of the property. The porphyry is commonly recessive, moderately fractured and moderate to strongly magnetic. It varies from dark gray to very dark green in color, contains up to 15% feldspar "microlites" moderately altered to sericite and occasional amygdules infilled with calcite, zeolite and epidote. Augite porphyry is pervasively weak to moderately epidotized and chloritized. The unit is composed of 50% augite euhedra, weakly altered to chlorite, set in a very fine-grained matrix. Disseminated fine-grained pyrite averages 1% in the unit but can vary 3-5%. Pyrite is also found in vugs, as disseminated blebs and as fracture fill.

In the trenches, augite porphyry is strongly fractured and healed with k-feldspar, quartz and calcite veinlets. It is pervasively strongly epidotized and chloritized and weakly silicified except adjacent to quartz magnetite veins, where it is strongly silicified and chloritized. Quartz veinlets are more numerous in the east of the trenches with k-feldspar veinlets most numerous in the west. Disseminated fine-grained pyrite varies 1-3% locally and fracture fill pyrite is occasionally found in concentrations of 2 mineralized fractures per square foot.

b) Andesite Ash tuff (Unit 3)

This unit is restricted to the eastern edge of the property, although non-pyritiferous ash tuff is occasionally found as minor intercalations in augite porphyry (92N BL) and as intercalations and fragments in andebasaltic agglomerate (112N, 89E).

The ash tuff is characteristically medium to dark green, strongly fractured, non-magnetic and very recessive. The matrix is fine-grained and pervasive, weakly altered to chlorite and epidote. In minor part, ash tuff contains weakly sericitized "microlites" and subrounded phenocrysts of feldspar. An outcrop at 106N 129E is strongly silicified throughout and contains 1% fine-grained disseminated pyrite. In some outcrop the unit contains lapilli size subrounded fragments of augite porphyry and argillite.

Ash tuff contains an average of 1% disseminated pyrite, variable 0-3%. In the southeast of the property the unit is weak to moderately limonitized and contains approximately 2% disseminated pyrite. A single outcrop in this area is strongly fractured and healed with quartz veins - 7 per square foot, containing blebs of pyrite and possible admixed fine-grained chalcopyrite.

c) Andesitic Lapilli tuff (Unit 2)

Lapilli tuff is located in the south central and southwest of the property. It is moderately to strongly fractured, massive, weakly magnetic and dark gray to green in color. The tuff contains 60-70% subrounded fragments of augite porphyry (Unit 4) and 10-20% fine-grained flow or ash tuff (Unit 3). The unit is pervasively weakly chloritized and epidotized, more strongly so altered local to quartz and magnetite veins. Lapilli tuff is characteristically compact except in minor outcrop near the contact with syenite porphyry (Unit 7) where it is strongly altered, vuggy and contains amygdules infilled with zeolite, quartz and acicular tourmaline(?)

Pyrite content averages 1% as irregular blebs and fine-grained disseminations. In the eastern contact zone with syenite porphyry the tuff is cut by several quartz-magnetite veins, locally contains 3% disseminated fine- and coarse-grained pyrite and is moderately limonitized throughout.

d) Andebasaltic Agglomerate (Unit 1)

The agglomerate unit is located in a northwest elongate zone in the south center of the property. It is characteristically dark green in color, massive and weakly to moderately magnetic. Agglomerate is moderately fractured throughout, shows well preserved joint faces and weathers to medium gray, angular outcrop. The unit contains approximately 70% subrounded fragments of augite porphyry varying in size from 10 to 100 cm in diameter, and occasional fragments of ash tuff and altered diorite(?) porphyry less than 10 cm in diameter set in a fine-grained matrix. The agglomerate is weakly chloritized and epidotized throughout. Agglomerate shows k-feldspar flooding local to k-feldspar veins and syenite(?) porphyry and weak silicification adjacent to quartz veins.

The unit contains minor disseminated pyrite throughout and approximately 5% disseminated fine- and coarse-grained pyrite local to zones of quartz, calcite and k-feldspar veining.

2. INTRUSIVE ROCKS

Hogem Batholith(?) (Jurassic or older)

a) Hornblende Diorite (Unit 5)

Diorite occurs in the south and southwest sections of the property. The unit is poorly exposed in a northwest elongate zone which coincides with a northwest elongate 1750-4000 gamma magnetic "high".

Diorite is massive, moderately fractured, moderately magnetic and dark gray-green in color. It is composed of 50% subhedral and anhedral hornblende phenocrysts, 5-10% fine- to medium-grained biotite and 30-40% interstitial plagioclase. The unit is moderately epidotized throughout; hornblende is moderately altered to chlorite and in part to biotite and feldspar is moderately altered to epidote and sericite(?). In the south, diorite is frequently cut by k-feldspar veins in epidotized fractures, enveloped for several centimeters outwards by salmon pink colored diorite with green mafics. The pink coloration is due to secondary k-feldspar but in some samples the pink mineral is plagioclase. In the southwest, diorite has been intruded and strongly altered by granite. Mafics are strongly altered to chlorite and biotite, fine-grained, interstitial, secondary k-feldspar is abundant and magnetite content is reduced to 1%.

The unit contains variable amounts of fine-grained and blebby pyrite up to 2%. Magnetite content is commonly 10%, occurring as blebs disseminated in hornblende phenocrysts; less commonly interstitial to mafics.

b) Syenite Porphyry (Unit 7)

This unit is found in the east on line 92N intruding lapilli tuff and as small dykes scattered about the property. It is moderately fractured, non-magnetic, medium gray-green in color, massive and recessive weathering. Syenite porphyry contains 30-40% generally euhedral, medium-grained, lath and subrounded k-feldspar phenocrysts; 5% (variable up to 20%) euhedral plagioclase phenocrysts and 10-15% fine-grained, subhedral hornblende, in a matrix of very fine-grained feldspar. Feldspar phenocrysts are moderately altered to clay or sericite and hornblende is altered to chlorite. In minor outcrop this unit is pervasively-moderately silicified and sericitized. Pyrite content in syenite porphyry is variable up to 1% as blebby and fine-grained disseminations.

c) Syenite Porphyry (Unit 6)

Unit 6 appears to be an altered version of Unit 7 (see above) and is restricted to the trench area of the property. The porphyry is very recessive, moderately to strongly fractured, massive, moderately magnetic and medium to dark gray pink in color. It contains 40-50% subhedral and anhedral, medium-grained, stubby and subrounded k-feldspar phenocrysts, 5-15% anhedral hornblende and 1-10% fine-grained quartz eyes in a matrix of very fine-grained gray k-feldspar. The k-feldspar phenocrysts are mainly salmon pink in color (lending an overall pink cast to the rock) and moderately altered to sericite. Hornblende is moderately to strongly altered to chlorite. It

is presently believed that syenite porphyry was moderately metasomatized by a granite stock(?) exposed to the southwest of the trenches.

The syenite porphyry is pyrite deficient but contains 1-5% blebby magnetite throughout. Fracture fill quartz veinlets were noted to carry hematite and magnetite.

d) Granite (Unit 8)

A mass of granite is partially exposed in the southwest of the property. It intrudes and underlies hornblende diorite, large fragments of which are preserved in minor outcrop of intrusion breccia, in the contact zone. The granite is variable in composition to quartz monzonite and granodiorite in part, over narrow zones within the unit. It is massive, non-magnetic, weak to moderately fractured and jointed, medium pink in color and weathers to blocky talus and bold, angular outcrop. The unit is fine- to medium-grained equigranular and composed of 20% (varying 5-25%) medium-grained interstitial quartz, 5% euhedral to subhedral k-feldspar, 10% (varying 5-20%) generally euhedral plagioclase, 5% fine-grained hornblende and minor fine-grained biotite. Hornblende is weakly altered to chlorite and plagioclase is moderately altered to sericite. The unit is deficient in sulphides but minor tourmaline was noted in 2 quartz veins.

Structure

Regional structure in the Omineca Mountains follows a northwest trend but does not significantly control local tectonic "grain" on the CAT claims.

A prominent fault, marked by a creek gully in the northeast, strikes 40° and dips 60° northwest and appears to transect the property. This structure does not seem to have influenced emplacement of mineralization but may have controlled the intrusion of units 6 and 7.

High angle faulting striking north (variable 15° east and west) and dipping 75° - 90° east has provided strong control for quartz-calcite and quartz-magnetite veins carrying copper and gold mineralization. A high angle, northeast trending shear zone (see A, Fig.4) has localized quartz-calcite veins containing specular hematite and copper mineralization.

Radial fracturing was noted in the vicinity of 112N and 90N 120E.

No significant structure was observed in the intrusive units. No bedding attitudes were exposed in volcanic units.

Mineralization

Three types of economic mineralization were noted on the CAT claims: copper-gold in quartz-magnetite veins, disseminated and fracture-fill copper mineralization.

a) Mineralized Veins

Massive magnetite and quartz magnetite veins from 0.1 to .5 meters in width are exposed in the trenches in the west center of the property and at 3 locations in

the east center of the property. All of these veins are iron stained and in part weathered to gossan and minor boxwork of limonite and quartz. The veins in the east appear to contain only minor amounts of blebby chalcopyrite, pyrite and malachite. Magnetite veins in the trenches carry irregular knots, blebs and fine-grained disseminations of chalcopyrite, pyrite and minor bornite.

A one meter wide quartz-carbonate vein exposed 160 meters west of D.D.H.1* contains massive chalcopyrite and pyrite, much malachite, minor tetrahedrite(?) and some blebs of magnetite and specular hematite. Numerous fracture-fill quartz-calcite veins and veinlets in a shear zone at line 90N 110E contain massive specular hematite with minor blebs of chalcopyrite, bornite and chalcocite(?), with malachite alteration.

b) Disseminated Mineralization

Minor amounts of disseminated fine-grained and blebby chalcopyrite, associated with disseminated magnetite and pyrite, is found in altered augite porphyry at line 99N 93E and line 100N 94E in the trenches. Vein type mineralization occurs nearby. Altered lapilli tuff near contact with Unit 7 (see A, Figure 4) contains up to 2% admixed fine-grained pyrite and chalcopyrite in a 5-square meter zone.

* Previous drilling conducted by Bralorne in mid 1950's.

c) Fracture-Fill Mineralization

Fracture-fill chalcopyrite, sometimes with pyrite or magnetite-specular hematite, occurs in average concentrations of 1 mineralized fracture per square foot local to and subparalleling most vein type mineralization. It is difficult to estimate the extent and significance of this mode of mineralization as outcrop exposure is very poor in the areas of interest.

GEOCHEMISTRY

Overburden sampling

Samples were collected over most of the property at 400-foot intervals along Topofil grid lines spaced 800 feet apart. However, samples were also collected at 200-foot intervals along lines spaced 400 feet apart over the top of the mountain. Soil samples were taken from the top of the 'B' horizon at 10 to 20 cm depths. Talus fine samples were collected, when encountered, over steeply sloping portions of the property, from 0 to 5 cm depths. Stream and seepage sediment was also collected when channelways were crossed by traverse lines. All sample sites were marked by plastic flagging tape. Approximately 0.5 kg of stream or seepage sediment, soil or talus fines were collected at each station, avoiding large pebbles, and placed in a numbered wet strength, 8 by 24 cm Kraft paper envelope.

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 to 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 areal chip samples,

and generally contained 0.5 kg of rock chips. Each sample represented 10 square meters of exposed rock. Chip samples were collected using a geological pick in a regular fashion to avoid sampling bias. Chips were placed into prenumbered 8 by 24 cm wet strength Kraft paper envelopes and sent to Vangeochem Lab Ltd. for crushing and geochemical analysis. Rock geochemical data are reported in Appendix 5.

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

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

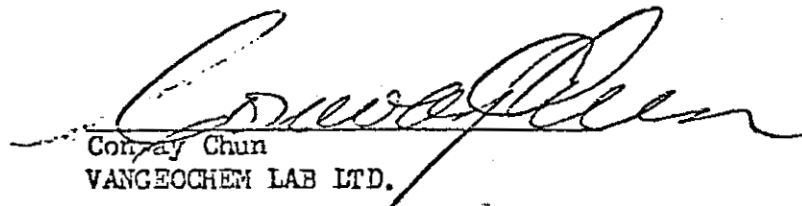
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VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-21

flame. No 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

Partial extraction techniques

A sequential partial extraction technique was employed in order to evaluate the extent of Cu accumulation associated with organic matter, amorphous Fe and Mn sesquioxides, sulphide minerals and silicate minerals. The experimental procedure is such that the residue from the first partial extraction, using sodium hypochlorite to oxidize organic matter, is then subjected to a second partial extraction, using acid ammonium oxalate to dissolve amorphous Fe and Mn sesquioxides. That residue is then treated with nitric and perchloric acids to determine the Cu content of the silicate residue.

The procedure used for the CAT claims is an abbreviated version of a procedure reported by Hoffman (1976) in an unpublished PhD thesis at the University of British Columbia. A 1.0 gm sample is placed in a test tube (20 x 155 mm) and 10 ml of reagent grade sodium hypochlorite solution (4 to 6 percent active chlorine), freshly adjusted to pH 9.5 is added to oxidize sample organic matter (Lavkulich and Weins, 1971). Test tube contents are agitated intermittently for 3 hours and then placed in a steam bath at 90°C for 3 hours. The sample is cooled to room temperature and centrifuged, and the supernatant liquid is decanted into a clean test tube (22 x 175 mm) for analysis. The residue is washed with 5 ml of distilled water.

The procedure continues with the addition of 10 ml of distilled water, adjusted to pH 2.5 by 1.5 M hydrochloric

acid, to the hypochlorite residue. This acidified distilled water dissolves base metal precipitates formed as a consequence of the alkaline conditions of the hypochlorite extraction. Contents of the test tube are shaken and pH of the resulting suspension measured with a pH meter employing a combination glass-calomel electrode pair. Suspension pH is adjusted to 3.0 ± 0.3 by addition of 1.5 M hydrochloric acid which is delivered dropwise from a burette.

Treatment is continued to dissolve amorphous Fe and Mn sesquioxides by addition of acid ammonium oxalate (24.9 gm ammonium oxalate monohydrate and 12.6 gm oxalic acid dihydrate dissolved in 1 l water). Test tubes are shaken intermittently for 12 hours and allowed to settle for 12 hours. The suspension is then centrifuged, the supernatant liquid decanted and residues washed with 10 ml distilled water prior to treatment with nitric and perchloric acids. The nitric and perchloric acid digestion is identical to that used to determine total acid soluble metals.

pH determination

pH was determined on the -10 +80 mesh sample splits by a procedure modified from that 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 duplicated to check the precision of the technique.

Geochemical interpretation

i) Introduction

Trace metal levels in stream and seepage sediments, 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)

Actual concentration values for stream and seepage sediments, bogs, soils and talus fines are listed in Appendix 4, which also shows sample identification (ID) and grid coordinates. Concentrations of Cu released by each of the sequential partial extraction reagents is listed on Table 2.

TABLE 1

Summary of trace metal content in overburden
sample media, CAT claims

		Stream Sediments (10+20)	Soils (40+50)	Talus Fines (60+62)
Cu	Threshold	618	342	1020
	Mean	154	93	206
	Range	77-308	48-178	92-460
Zn	Threshold	115	122	119
	Mean	40	54	67
	Range	24-68	36-81	50-90
Mo	Threshold		6.2	6.9
	Mean		2.4	3.3
	Range		1.5-3.9	2.3-4.8
pH	Mean		5.5	5.7
	Range		4.9-6.0	5.4-6.1
Number of samples		54	557	26

- Mean - determined after logarithmic transformation
- Range - (mean - 1 standard deviation) to
(mean + 1 standard deviation)
- represents 67% of sample data
- Threshold - (mean + 2 standard deviations)
represents 2.5% of sample data

TABLE 2
Sequential cold extraction of copper(ppm)
from anomalous soil samples, CAT claims

ID	1	2	3	4	TOT	R1	R2	R3	R4
870086	52	98	80	130	360	14	27	22	36
870087	68	112	35	20	235	29	48	15	9
870104	39	103	58	60	260	15	40	22	23
870107	83	159	68	60	370	22	43	18	16
870108	74	132	44	30	280	26	47	16	11
870113	25	107	40	50	222	11	48	18	23
870139	12	111	42	220	385	3	29	11	57
870151	46	464	120	370	1000	5	46	12	37
870152	34	309	77	200	620	5	50	12	32
870153	86	1034	540	940	2600	3	40	21	36
870154	32	183	50	135	400	8	46	13	34
870156	87	537	206	620	1450	6	37	14	43
870157	27	311	152	370	860	3	36	18	43
890307	13	100	27	270	410	3	24	7	66
890323	32	218	40	360	650	5	34	6	55
890325	24	91	50	180	345	7	26	14	52
890413	14	101	25	180	320	4	32	8	56
890425	15	125	25	155	320	5	39	8	48
890456	12	66	42	280	400	3	16	10	70
890464	54	341	195	430	1020	5	33	19	42
890465	39	299	127	475	940	4	32	14	51
890490	36	454	85	425	1000	4	45	8	42
890491	18	289	73	350	730	2	40	10	48
890499	19	81	35	120	255	7	32	14	47
890500	21	307	57	215	600	3	51	9	36
890512	23	109	33	255	420	5	26	8	61
890514	59	576	105	710	1450	4	40	7	49
890517	46	347	57	200	650	7	53	9	31
890518	38	167	65	130	400	9	42	16	32
890523	46	454	80	150	730	6	62	11	21
890528	66	132	60	72	330	20	40	18	22
890535	19	198	63	260	540	4	37	12	48
890555	27	83	50	240	400	7	21	13	60
890570	20	78	32	120	250	8	31	13	48
890574	35	110	35	185	365	10	30	10	51
890575	20	70	50	280	420	5	17	12	67
890576	67	470	203	900	1640	4	29	12	55
890583	12	153	40	395	640	2	30	6	62
890586	34	74	32	260	400	8	18	8	65
890587	27	273	60	290	650	4	42	9	45
890590	16	104	35	160	315	5	33	11	51
890593	12	103	25	160	300	4	34	8	53
890599	14	66	20	180	280	5	24	7	64
890606	28	127	33	212	400	7	32	8	53
890609	15	273	50	362	700	2	39	7	52
890611	14	124	60	282	480	3	26	13	59
890618	12	328	110	640	1090	1	30	10	59
* 900276	20	155	0	0	215	9	91	0	0
900307	197	174	61	8	440	45	40	14	2
900443	28	64	35	163	290	10	22	12	56
900467	300	749	113	88	1250	24	60	9	7
900475	12	102	35	280	430	3	24	8	65
900476	228	136	71	15	450	51	30	15	3
900480	33	145	55	92	325	10	45	17	28
900481	17	83	60	440	600	3	14	10	73
900483	30	310	120	270	730	4	42	16	37
900543	26	65	35	150	280	5	25	13	54
900547	32	195	57	136	420	8	46	14	32
900556	24	31	115	140	310	8	10	37	45

- ID - identification
1 - sodium hypochlorite extraction pH 9.5, copper bound in organic matter.
2 - acidified distilled water extraction pH 3.0, copper bound in sulphides.
3 - acid ammonium oxalate extraction pH 3.5, copper bound by amorphous Fe and Mn sesquioxides.
4 - nitric perchloric acid digestion on residue, copper bound in crystalline sesquioxides and silicate lattices.
TOT - 'total' determination by nitric perchloric acid digestion.
R1 - $(1/(TOT)) \times 100$
R2 - $(2/(TOT)) \times 100$
R3 - $(3/(TOT)) \times 100$
R4 - $(4/(TOT)) \times 100$
* - only sodium hypochlorite extraction performed.

ii) Results

Overburden samples from the CAT claim group were subdivided (see Table 1) into several classes for purpose of statistical evaluation of the data. For this property, stream and seepage sediments were found to contain approximately the same amounts of Cu, Zn and Mo. However, when soils data are compared with those of talus fines, the latter are enriched by 2.2 x in Cu, 1.2 x in Zn and 1.4 x in Mo. This feature is probably a consequence of leaching of soils compared to talus deposits.

Trace metal distributions (Figures 7 to 9) can be divided into 5 anomalous zones. These are centered around the following grid coordinates

- (1) 90N/80E
- (2) 95N/90E
- (3) 100N/100E
- (4) 110N/100E
- (5) 40N/100E

Anomaly (1) has developed over steeply sloping ground along the southwestern quarter of the mountain in association with partially overgrown talus deposits. Bedrock is comprised of hornblende diorite, and is reflected by Zn and Mo enhancement.

Anomaly (2) overlies the southwestern flank of the mountain, and is associated with residual overburden, talus cones and colluvial material. Bedrock underlying the region is an andebasalt agglomerate, and is associated with Cu (and

Au)-rich overburden. Chalcopyrite, bornite and native Au are prominent in outcrop and float blocks. Partial extraction studies indicate anomalies of this region have a mechanical clastic origin.

Anomaly (3) overlies the flat mountain top in proximity to old trenches. Overburden is thin and locally derived. Bedrock, comprising syenomonzonite, is associated with Cu and Mo enrichment, particularly near the contacts with andebasalt agglomerate units. Anomalous Cu levels of this region have a syngenetic clastic origin.

Anomaly (4) overlies an overburden covered area northeast of the trenches. Bedrock exposures are widely spaced, and appear to be the same andebasalt agglomerate unit of anomaly (2). Anomaly genesis is primarily clastic syngenetic. However, epigenetic enrichment of Cu along seepage zones near the main stream drainage the anomaly is responsible for Cu enrichment in 3 samples (Fig.9F).

Anomaly (5) comprises several Cu-rich samples south of the mountain. Overburden is comprised of sandy and gravelly glacial deposits through which large volumes of groundwater are emerging, particularly near the base of the mountain. Bogs and gleysols are prominent, and seepages are numerous. Despite the abundance of bogs and the presence of Fe sesquioxide stained overburden, only 50% of the anomalies can be considered hydro-morphic (Fig. 9F). The remainder apparently have a syngenetic clastic origin.

iii) Anomaly genesis

Cu anomalies on the CAT claims are elongated along a northeastwardly trending zone. On the property, the eastern half of the zone coincides with a valley along which the main stream drains the mountain plateau. Correspondence between topography and geochemistry suggests a fault control on the distribution of Cu anomalies on this part of the property. By contrast, Cu enrichment in the west is associated with a mountain ridge rather than a valley. Further, Zn and Mo contents are also enriched in this region. Geological controls along the western half of the linear anomaly are uncertain.

Cu anomalies can also be explained as a contact zone feature between a syenomonzonite intrusion in the trench area (unit 6) and andebasalt agglomerate units to the north and west. The intrusion is also enriched in Mo. Although correlation between geology and Cu geochemistry around this central pluton is relatively direct, field observations to confirm this relationship particularly in the north are not available because overburden thicknesses are too great.

Other intrusions are also associated with distinctive trace element distributions. The hornblende diorite (unit 5) is overlain by Zn and Mo-rich overburden, whereas the syenite porphyry in the east (unit 7) is not reflected by any abnormal trace element levels. The granite in the southwest (unit 8) is similarly not metal-rich.

References:

- Hoffman, S.J., 1974
Pebble cards - A record of the coarse fraction of
stream sediments for geochemical exploration.
J. Geochem Expl. 3: 387-388.
- Hoffman, S.J., 1976
Mineral Exploration on the Nechako plateau, central
British Columbia, using lake sediment geochemistry.
Unpublished PhD thesis, U.B.C.
- Lavkulich, L.M. and Weins, J.H., 1970
Comparison of organic matter destruction by hydrogen
peroxide and sodium hypochlorite and its effects on
selected mineral constituents.
Soil Science Society of America Proceedings, 34:
755-760, 1970.

APPENDIX 2

Statement of Costs

APPENDIX 2

Statement of Costs

CAT Mineral Claims

CAT #1 - 14 units

CAT #2 - 14 units

1. Geological Mapping

Geologist - M. Bradley 29-30 June, 2-10, 13-16 July
11.5 days @ \$68/day \$782.00

Geologist - R. Wong 1-9 July
7.5 days @ \$60/day 450.00

\$1232.00

2. Geochemical Surveys

Geochemist - S. Hoffman 29,30 June, 3-9 July
9 days @ \$91/day \$ 819.00

Sampler - B. McBride 29 June, 3-8 July
7 days @ \$45/day 315.00

technician - M. Wilson 6,7,10,11,12,14 July
6 days @ \$41/day 246.00

\$1380.00

3. Ground Magnetometer Survey

Geologist - D. Baker 2-9, 12,13 July
10 days @ \$60/day \$600.00

4. Aeromagnetic Survey (see Appendix 1)

Contractor - Morrison and DePaoli
109 line-kilometres \$1787.80

5. Grid Preparation

Contractor - D.K. Bragg - 4 man-crew 29,30 June, 1 July
9.66 line-kilometres \$870.00

6. Orthophotography

Contractor - McElhanney Surveying and
Engineering Ltd. \$448.00

7. Helicopter Support - Bell 206B

Contractor - Vancouver Island Helicopters

Total hours invoiced to CAT property - 15.4 hours
(for mobilization/demobilization of daily geological,
geochemical, geophysical and line-cutting crews).

	15.4 hours @ \$250/hr	\$3850.00	
Operating cost	15.4 hours @ \$18/hr	277.20	
		<u>#4127.20</u>	

50% claimed towards assessment

\$2063.60

8. Food and Accommodation

51 man days @ \$15/day

\$765.00

9. Sample Analysis (Vangeochem Lab Ltd.)

620 samples @ \$2.42/sample

\$1500.00

54 samples for partial Cu extraction

110.00

\$1610.00

10. Equipment Rental

i) magnetometer rental (Scintrex MF-2)
9 days @ \$8.60/day

\$77.40

ii) toprofil rental 7 days @ \$4.00/day

28.00

\$105.40

11. Report Preparation

i) Keypunching and computing costs

620 samples @ \$0.50/sample

\$310.00

ii) Drafting costs 46 hours @ \$8.00/hr

368.00

iii) Printing costs

100.00

iv) Compilation costs - S. Hoffman 2 days @ \$91/day

182.00

- M. Bradley 2 days @ \$68/day

136.00

\$1096.00

TOTAL 1-11 \$11,958.20

APPORTIONMENT

Total \$11,958.20

Credit CAT #1 (14 units) for 28 years (2 years/unit)

\$ 5,600

Credit CAT #2 (14 units) for 28 years (2 years/unit)

5,600

\$11,200

(with \$758.20 credit to be carried forward)

APPENDIX 3

List of Qualifications

List of Qualifications - S.J. Hoffman

- BSc 1969 - McGill University (Hons Geology and Chemistry)
MSc 1972 - The University of British Columbia (Geochemistry)
PhD est 1976 - The University of British Columbia (Geochemistry)

List of Publications

1. Hoffman, S.J., 1972
Geochemical dispersion in bedrock and glacial overburden around a copper property in south central British Columbia.
MSc thesis, unpublished, U.B.C., 209 pp.
2. Hoffman, S.J. and Fletcher, W.K., 1972
Distribution of copper at the Dansey-Rayfield River property, south central British Columbia.
J. Geoch. Expl. 1, 163-180.
3. Hoffman, S.J. and Waskett-Myers, M.J., 1974
Determination of molybdenum in soils and sediments with a modified zinc dithiol procedure.
J. Geoch. Expl. 3, 61-66.
4. Hoffman, S.J., 1974
Pebble Cards - A record of the coarse fraction of stream sediments for geochemical exploration.
J. Geoch. Expl. 3, 387-388.
5. Hoffman, S.J. and Fletcher, W.K., 1976
Reconnaissance lake sediment geochemistry over the Nechako Plateau, B.C.
In press, J. Geoch. Expl.
6. Hoffman, S.J., 1976
Talus fine sampling - an alternative to drainage surveys in mountainous terrain.
In preparation, (presented at the GAC Symposium, Vancouver, February 1976).
7. Hoffman, S.J., Arnold, P.M. and Zink, E.W., 1976
Rapid field determination of copper by anodic stripping voltammetry (ASV).
In press, Encyclopedia of Earth Sciences

8. Hoffman, S.J., 1976
Lake sediment geochemistry.
In press, Encyclopedia of Earth Sciences.
9. Hoffman, S.J. and Fletcher, W.K., 1976
Detailed lake sediment sampling of anomalous lakes
on the Nechako Plateau, central British Columbia -
Comparison of trace metal distributions in Capoose
and Fish Lakes.
In preparation.
10. Hoffman, S.J. and Fletcher, W.K., 1976
Sequential extraction of copper, zinc, iron,
manganese and molybdenum from lake sediments.
In preparation.

SAMPLE

Type	I.D.	East	North					Mo	Cu	Pb	Zn				
1	1075505H	870047	XX 13718	2700	94C01	1.2	4567412								
2	1075505H	870050	XX 12900	2750	94C03	1.2	5562412	112	3	15	1075505 870047	4	31	5	15
3	1075505H	870051	XX 9700	2700	94C03	1.0	4465413	1239	2	1W	1075505 870050	2	30	6	17
4	1075505H	870052	XX 10075	1900	94C03	0.7	2565411		2	25	1075505 870051	3	310	10	20
5	1075505H	870053	XX 12050	1400	94C03	0.3	2458530		2	45	1075505 870052	4	200	10	21
6	1075505H	870054	XX 12400	2000	94C03	0.6	5360243	110YR21	1	35	1075505 870053	10	152	12	26
7	1075505H	870055	XX 13966	1900	94C03	2.0	7570443		2	25	1075505 870054	4	60	9	26
8	1075505H	870084	XX 12800	5900	94C01	0050053	2421		3	15	1075505 870055	1	13	6	15
9	1075505H	870085	XX 11950	5900	94C03	0050053	2421	123	1	05S	1075505 870084	10	142	11	52
10	1075505H	870088	XX 11300	5900	94C03	0060053	2421	123	1	05S	1075505 870085	4	92	10	30
11	1075505H	870092	XX 9300	5900	94C03	0090063	2421		1	05S	1075505 870088	1	82	6	15
12	1075505H	870093	XX 8500	5900	94C03	0090053	2421	123	1	10S	1075505 870092	4	200	19	48
13	1075505H	870106	XX 8875	5100	94C03	0090093	2421	123	1	10S	1075505 870093	4	270	17	35
14	1075505H	870112	XX 11000	5100	94C03	0090063	2421		1	05SW	1075505 870106	5	350	18	38
15	1075505H	890166	XX 10000	10600	94C03	0100204625141			1	10S	1075505 870112	3	201	13	27
16	1075505H	890539	XX 12010	11200	94C03	005030	70814	10YR32	3	15E	5075505 890466	12	700	60	63
17	1075505H	950080	XX 14150	4300	94C03	.3	23 1401		15NE	1075505 890539	2	600		59	
18	1075505H	950081	XX 12900	4300	94C03	.2	33 1401		1	5S	1075505 950080				
19	1075505H	950082	XX 11450	4300	94C03	1	54 143		1	20S	1075505 950081				
20	1075505H	950083	XX 9650	4300	94C03	.8	52 143		2	15S	1075505 950082	2	130		20
21	1075505H	950084	XX 8300	4300	94C03	.9	54 1331		1	10S	1075505 950083	2	88		37
22	1075505H	950085	XX 8670	3530	94C03	1	53 443		2	15S	1075505 950084	4	165		35
23	1075505H	950086	XX 8900	3540	94C03	.7	54 443		2	5S	1075505 950085	5	118		28
24	1075505H	950087	XX 11425	3625	94C03	.8	54 443		2	10S	1075505 950086	2	115		57
25	1075505H	950088	XX 14100	3725	94C03	.8	54 443		2	15S	1075505 950087	3	190		32
26	1075505H	950132	XX 12775	5900	94C03	.4	33 443		2	5S	1075505 950088	0	45		27
27	1075505H	950133	XX 8500	5900	94C03	.3	33 4431		1	5S	1075505 950132	6	105	12	50
28	1075505H	950134	XX 6400	5100	94C03	.4	33 443		1	15SW	1075505 950133	5	242	11	35
29	1075505H	950139	XX 8150	5120	94C03	.8	33 443		1	10S	1075505 950134	5	76	10	14
30	1075505H	950139	XX 11950	5210	94C03	.5	34 4431	122	1	15S	1075505 950138	3	240	10	50
31	1075505H	950141	XX 15400	9900	94C03	.4	53654431	21	1	20S	1075505 950139	3	53	9	21
32	1075505H	950142	XX 15400	10860	94C03	1	10465443		1	10 E	1075505 950141	3	80	9	31
33	1075505H	950143	XX 15400	11670	94C03	.5	53604431		2	10 E	1075505 950142	4	102	18	82
34	1075505H	950144	XX 15400	12937	94C03	2.0	7463443		1	10 E	1075505 950143	4	150	21	90
35	1075505H	950145	XX 12400	12400	94C03	.8	5467644		3	10 E	1075505 950144	4	240	20	62
36	1075505H	950146	XX 14600	12100	94C03	.7	103651431	226	1	30 E	1075505 950145	3	310	19	44
37	1075505H	950150	XX 6600	12100	94C03	.3	34 6401		1	5 E	1075505 950146	3	125	18	71
38	1075505H	950153	XX 6800	10400	94C03	.3	33651431	222	1	20 W	1075505 950150	3	215		57
39	1075505H	950154	XX 10000	10600	94C03	.7	3365144		1	20 W	1075505 950153	3	242		57
40	1075505H	950155	XX 10750	13100	94C03	.2	3365642		1	5 E	1075505 950154	11	1100	21	57
41	1075505H	950158	XX 7925	13100	94C03	.2	33656441		1	15 E	1075505 950155	3	80		38
42	1075505H	950159	XX 7200	13900	94C03	.4	3360142		1	40NW	1075505 950158	3	180		65
43	1075505H	950160	XX 8800	13900	94C03	.2	3360642		1	25NW	1075505 950159	3	203		40
44	1075505H	950162	XX 10900	13900	94C03	.3	3363642		1	30W	1075505 950160	6	185		52
45	1075505H	950163	XX 14950	13900	94C01	.5	53601401		1	15N	1075505 950162	3	220		55
46	1075505H	950166	XX 13130	12000	94C03	2.0	10465644		1	5NE	1075505 950163	3	246		90
47	1075505H	950167	XX 13100	12050	94C03	1.0	5465643		3	20NE	1075505 950166	4	82		65
48	1075505H	950169	XX 13000	10220	94C03	.5	53656401		2	15 E	1075505 950167	3	405		78
49	1075505H	950173	XX 14600	9300	94C03	.3	33656401		1	15 E	1075505 950169	3	276		65
50	1075505H	950174	XX 14600	10250	94C03	1	53 642		1	15 E	1075505 950173	3	190		77
51	1075505H	950182	XX 10900	10400	94C03	.3	3363643	1	2	15 E	1075505 950174	3	810		48
52	1075505H	950183	XX 11400	10520	94C03	.2	33636401	1	1	10NE	1075505 950182	2	280		73
53	1075505H	950198	XX 11250	10900	94C03	2.0	5565644	1	1	5NE	1075505 950183	4	240		70
54	2075505H	950148	XX 8900	12000	94C03	.3	5362143		3	3 E	1075505 950188	2	502		53
									1	20 W	1075505 950148	4	120		93

115	5075505H	870157	XX	8400	10000	94C03	321119	57310020BBM222	35130W	5075505	870157	10	860	62
116	5075505H	870150	XX	8200	10000	94C03	321119	51310020BBM222	35130W	5075505	870158	3	260	45
117	5075505H	870159	XX	7800	10000	94C03	351116	54320030BBM	45130W	5075505	870159	2	85	65
118	5075505H	870160	XX	7400	10000	94C03	351116	53315020BBM	30130W	5075505	870160	2	110	55
119	5075505H	870161	XX	7000	10000	94C03	351216	54325035BBM	20130W	5075505	870161	1	58	78
120	5075505H	870162	XX	6400	10000	94C03	351422	47230040BBM113	20 30W	5075505	870162	1	12	25
121	5075505H	890298	XX	15000	4300	94C03	751421	62210025BBM	10YR44 10 0000	5075505	890298	1	50	125
122	5075505H	890299	XX	14600	4300	94C03	3514 2	54205015BBM	10YR44 60 20S	5075505	890299	1	80	55
123	5075505H	890300	XX	14200	4300	94C03	751422	54210025BBM	10YR44 40 0000	5075505	890300	1	54	54
124	5075505H	890301	XX	13900	4300	94C03	751422	48215025BBM	10YR44 45 0000	5075505	890301	2	100	47
125	5075505H	890302	XX	13400	4300	94C03	751422	62730045BBM	10YR44 50 0000	5075505	890302	2	135	52
126	5075505H	890303	XX	13000	4300	94C03	251422	49730045BBM	75YR44 55 05S	5075505	890303	4	120	107
127	5075505H	890304	XX	12600	4300	94C03	251422	65735050BBM	10YR44 50 05S	5075505	890304	2	112	92
128	5075505H	890305	XX	12200	4300	94C03	251422	52735045BBM	75YR44 50 05S	5075505	890305	2	94	70
129	5075505H	890306	XX	11900	4300	94C03	251422	51735045BBM	10YR44 40 10S	5075505	890306	1	65	70
130	5075505H	890307	XX	11400	4300	94C03	251 16	53730050BBM	10YR44 45115W	5075505	890307	8	410	122
131	5075505H	890308	XX	11000	4300	94C03	251424	54210025BBM	75YR44 15 05S	5075505	890308	2	53	32
132	5075505H	890309	XX	10600	4300	94C03	751424	59215030BBM	10YR44 20 0000	5075505	890309	1	43	30
133	5075505H	890310	XX	10200	4300	94C03	751424	54220045BBM	10YR44 70 0000	5075505	890310	1	35	65
134	5075505H	890311	XX	9800	4300	94C03	351 21	55330045BBM	75YR44 15 20W	5075505	890311	3	55	34
135	5075505H	890312	XX	9400	4300	94C03	751 21	54340055BBM	75YR44 15 0000	5075505	890312	3	23	37
136	5075505H	890313	XX	9000	4300	94C03	251424	51235040BBM	5YR44 10 10S	5075505	890313	4	23	48
137	5075505H	890314	XX	8600	4300	94C03	751 21	63360065BBM	10YR44 35 0000	5075505	890314	6	75	34
138	5075505H	890315	XX	8200	4300	94C03	251424	51230045BBM	10YR44 35 15S	5075505	890315	3	113	84
139	5075505H	890316	XX	7800	4300	94C03	751 21	55320035BBM	75YR44 25 0000	5075505	890316	2	55	25
140	5075505H	890317	XX	7400	3900	94C03	751422	55215030BBM	10YR44 30 0000	5075505	890317	0	48	30
141	5075505H	890318	XX	7400	3500	94C03	751 21	55315025BBM	10YR44 25 0000	5075505	890318	12	88	28
142	5075505H	890319	XX	7900	3520	94C03	751 21	58325040BBM	10YR44 20 0000	5075505	890319	2	43	24
143	5075505H	890320	XX	8200	3540	94C03	752521	54320030BBM	10YR44 05 0000	5075505	890320	2	30	20
144	5075505H	890321	XX	8600	3560	94C03	751424	57220030BBM	5YR44 05 0000	5075505	890321	2	43	56
145	5075505H	890322	XX	9000	3580	94C03	751424	60210025BBM	75YR44 15 0000	5075505	890322	2	60	49
146	5075505H	890323	XX	9400	3600	94C03	751 21	59310025BBM	10YR44 40 0000	5075505	890323	10	650	80
147	5075505H	890324	XX	9800	3620	94C03	251 21	56335045BBM	10YR44 35 05S	5075505	890324	3	60	62
148	5075505H	890325	XX	10200	3640	94C03	751 21	67315030BBM	75YR44 30 0000	5075505	890325	4	345	85
149	5075505H	890326	XX	10600	3660	94C03	251 21	54320030BBM	10YR44 30 15S	5075505	890326	2	75	36
150	5075505H	890327	XX	11000	3680	94C03	751424	51240055BBM	10YR44 40 0000	5075505	890327	1	50	67
151	5075505H	890328	XX	11400	3700	94C03	251 21	60335050BBM	10YR44 30 10S	5075505	890328	2	110	65
152	5075505H	890329	XX	11800	3710	94C03	751 21	53335050BBM	75YR44 35 0000	5075505	890329	1	33	28
153	5075505H	890330	XX	12200	3720	94C03	251 21	57350065BBM	10YR44 30 5S	5075505	890330	1	112	12
154	5075505H	890331	XX	12600	3730	94C03	351 21	54330045BBM	10YR44 20 30E	5075505	890331	1	35	10
155	5075505H	890332	XX	13000	3740	94C03	751 21	60330045BBM	10YR44 35 0000	5075505	890332	2	25	11
156	5075505H	890333	XX	13400	3750	94C03	25 21	57320025BBM	75YR44 35 05S	5075505	890333	2	53	11
157	5075505H	890334	XX	13800	3760	94C03	251 24	54220035BBM	10YR44 35 5S	5075505	890334	1	43	12
158	5075505H	890335	XX	14200	3770	94C03	251424	59250060BBM	5YR44 25 10S	5075505	890335	2	55	15
159	5075505H	890336	XX	14600	3780	94C03	251424	57215065BBM	75YR44 36 15S	5075505	890336	2	50	20
160	5075505H	890337	XX	15000	3800	94C03	2514 2	51225040BBM	10YR44 30 10S	5075505	890337	2	47	21
161	5075505H	890338	XX	15400	3800	94C03	2514 2	52220035BBM	10YR44 20 05S	5075505	890338	3	42	16
162	5075505H	890409	XX	10000	12000	94C03	221 19	53300015RC	10YR44 45 10W	5075505	890409	2	97	17
163	5075505H	890410	XX	10000	11800	94C03	221 19	56 00010RC	10YR44 50 10SW	5075505	890410	2	110	15
164	5075505H	890411	XX	10000	11600	94C03	221 19	58305015BBM	10YR44 60 05SE	5075505	890411	2	150	18
165	5075505H	890412	XX	10200	11600	94C03	321 19	57300015RTP	10YR44 40 35S	5075505	890412	2	100	17
166	5075505H	890413	XX	10400	11600	94C03	321 19	62300015CTP	10YR44 35 20SE	5075505	890413	2	320	18
167	5075505H	890414	XX	10600	11600	94C03	721 19	55300025RCI	75 0000	5075505	890414	1	64	16
168	5075505H	890415	XX	10800	11600	94C03	221 19	60300015RTP	10YR44 60 15SE	5075505	890415	2	219	17
169	5075505H	890416	XX	11000	11600	94C03	2	55		5075505	890416	3	177	19
170	5075505H	890417	XX	11200	11600	94C03	2	59		5075505	890417	2	145	20
171	5075505H	890418	XX	11400	11600	94C03	2	57		5075505	890418	3	215	16
172	5075505H	890419	XX	11600	11600	94C03	2	50		5075505	890419	4	215	15
173	5075505H	890420	XX	11800	11600	94C03	2	53		5075505	890420	4	114	12
174	5075505H	890421	XX	11600	12000	94C03	321 19	57310030BBM	10YR44 30150E	5075505	890421	3	235	16

175	5075505H	890422	XX	12000	11800	94C03	351	11	59310020BBH	10YR44	25150E	5075505	890422	2	210	15	58
176	5075505H	890423	XX	12000	12000	94C03	351	11	50310025BBH	10YR44	20150E	5075505	890423	3	135	18	73
177	5075505H	890424	XX	12000	12200	94C03	351	11	56310020BBH	75YR44	25130E	5075505	890424	4	240	18	88
178	5075505H	890425	XX	12000	12400	94C03	251	21	69320035BBH	10YR44	2510E	5075505	890425	3	320	20	58
179	5075505H	890426	XX	11800	12400	94C03	251	11	60315030BBH	10YR44	4010E	5075505	890426	3	58		70
180	5075505H	890427	XX	11600	12400	94C03	351	11	45305020BBH	10YR44	3025E	5075505	890427	3	130		38
181	5075505H	890428	XX	11400	12400	94C03	321	19	52305015BBH	10YR44	50135E	5075505	890428	3	116		70
182	5075505H	890429	XX	11200	12400	94C03	321	19	51700010BBH	10YR44	55145E	5075505	890429	3	82		59
183	5075505H	890430	XX	11000	12400	94C03	321	19	51700015BBH	10YR44	60140E	5075505	890430	3	115		62
184	5075505H	890431	XX	10800	12400	94C03	351	19	45308015BBH	10YR44	2525N	5075505	890431	3	105		64
185	5075505H	890432	XX	10600	12400	94C03	321	19	46705015BBH	10YR44	40125NE	5075505	890432	3	52		48
186	5075505H	890433	XX	10400	12400	94C03	321	19	52300010RC1	10YR44	40120NE	5075505	890433	2	55		35
187	5075505H	890434	XX	10200	12400	94C03	321	19	50700010RC1	10YR44	50130NE	5075505	890434	3	155		66
188	5075505H	890435	XX	10000	12400	94C03	321	19	49700010RC1	10YR44	55135N	5075505	890435	2	68		57
189	5075505H	890436	XX	10000	12200	94C03	321	19	52300010RC1	10YR44	70140N	5075505	890436	3	125		51
190	5075505H	890437	XX	9800	12490	94C03	321	19	50300015RC1	10YR44	60130N	5075505	890437	2	135		46
191	5075505H	890438	XX	9600	12380	94C03	321	19	49305030BBH	75YR44	65120N	5075505	890438	3	85		38
192	5075505H	890439	XX	9400	12375	94C03	321	19	46320035BBH	75YR44	40125N	5075505	890439	3	123		64
193	5075505H	890440	XX	9200	12360	94C03	321	19	45305015BBH	10YR74	70120N	5075505	890440	3	66		44
194	5075505H	890441	XX	9000	12350	94C03	321	19	46310020BBH	10YR44	2530V	5075505	890441	3	77		62
195	5075505H	890442	XX	8800	12340	94C03	321	19	44615030BBH	10YR44	25140NV	5075505	890442	2	85		35
196	5075505H	890443	XX	8600	12330	94C03	321	19	52300015BBH	10YR44	35145NV	5075505	890443	3	170		43
197	5075505H	890444	XX	8400	12320	94C03	321	19	46310030BBH	10YR44	30150NV	5075505	890444	4	46		50
198	5075505H	890445	XX	8200	12310	94C03	351	19	40310025BBH	10YR44	35140NE	5075505	890445	4	70		52
199	5075505H	890446	XX	8000	12300	94C03	351219		43715030BBH	10YR33	70135NV	5075505	890446	1	38		39
200	5075505H	890447	XX	8000	12200	94C03	351	19	49710030BBH	10YR44	5035NV	5075505	890447	2	50		41
201	5075505H	890448	XX	8000	12000	94C03	351	19	48710020BBH	10YR44	70120NV	5075505	890448	3	74		51
202	5075505H	890449	XX	8000	11900	94C03	251	21	49315030BBH	10YR44	3010NV	5075505	890449	2	30		37
203	5075505H	890450	XX	8000	11800	94C03	351	19	51710020BBH	10YR43	30135V	5075505	890450	3	87		56
204	5075505H	890451	XX	8000	11700	94C03	351	21	44315030BBH	10YR44	40145W	5075505	890451	2	45		40
205	5075505H	890452	XX	8200	11690	94C03	351	21	48325040PDP	5YR33	3040W	5075505	890452	3	66		40
206	5075505H	890453	XX	8400	11680	94C03	351	19	45715030BBH	10YR32	50130V	5075505	890453	2	32		25
207	5075505H	890454	XX	8600	11670	94C03	321	19	51230045BBH	10YR44	35120NV	5075505	890454	2	88		48
208	5075505H	890455	XX	8800	11660	94C03	321	19	47210020BBH	75YR44	30135NV	5075505	890455	4	196		43
209	5075505H	890456	XX	9000	11650	94C03	321	11	52220035BBH	10YR44	4025NV	5075505	890456	5	400		61
210	5075505H	890457	XX	9200	11640	94C03	321	19	50205015BBH	10YR44	50130V	5075505	890457	2	78		38
211	5075505H	890458	XX	9400	11630	94C03	221	19	49220030BBH	75YR44	4515V	5075505	890458	3	130		48
212	5075505H	890459	XX	9600	11620	94C03	221	19	44215030BBH	10YR44	6515SW	5075505	890459	1	33		44
213	5075505H	890460	XX	9800	11610	94C03	221	19	53205020	75YR44	6515SW	5075505	890460	2	116		71
214	5075505H	890461	XX	10000	11400	94C03	321	19	49210020BBH	10YR44	40120S	5075505	890461	4	118		66
215	5075505H	890462	XX	10000	11200	94C03	221	19	49220030BBH	10YR44	75115S	5075505	890462	4	146		43
216	5075505H	890463	XX	10000	11000	94C03	222215		59120035BBH	10YR31	80115SE	5075505	890463	5	262		100
217	5075505H	890464	XX	10000	10900	94C03	22219		573250400BBH	10YR33	50110SE	5075505	890464	6	1020		102
218	5075505H	890465	XX	10000	10600	94C03	221	19	52305020RC1	10YR44	40110E	5075505	890465	11	940		51
219	5075505H	890467	XX	10000	10400	94C03	221	19	4449214025BBH	10YR44	33115N	5075505	890467	3	160		50
220	5075505H	890468	XX	10000	10200	94C03	221	19	49310035BBH	10YR44	501	5075505	890468	4	130		46
221	5075505H	890469	XX	10000	10000	94C03	221	19	49315030BBH	10YR44	40115W	5075505	890469	3	70		53
222	5075505H	890470	XX	9800	11200	94C03	221	19	49715025BBH225	10YR44	45115S	5075505	890470	4	202		46
223	5075505H	890471	XX	9600	11200	94C03	221	19	50705015BBH225	10YR44	60110S	5075505	890471	3	91		53
224	5075505H	890472	XX	9400	11200	94C03	721	19	52710015BBH225	10YR44	400000	5075505	890472	3	237		56
225	5075505H	890473	XX	9200	11200	94C03	221419		55720030BBH222	10YR44	45110NV	5075505	890473	5	112		52
226	5075505H	890474	XX	9000	11200	94C03	321	19	51700010RTP	10YR44	50125NV	5075505	890474	4	132		53
227	5075505H	890475	XX	8800	11200	94C03	321	19	54310025BBH	10YR44	40130V	5075505	890475	4	174		48
228	5075505H	890476	XX	8400	11200	94C03	321	19	51305015BBH	10YR44	30130NV	5075505	890476	2	56		35
229	5075505H	890477	XX	8000	11200	94C03	321	6	53710020BBH226	10YR44	70130V	5075505	890477	2	132		40
230	5075505H	890478	XX	7600	11200	94C03	351	11	50210020	10YR44	40130V	5075505	890478	2	54		47
231	5075505H	890479	XX	7200	11200	94C03	351	21	57310020BBH	75YR44	4035W	5075505	890479	3	50		57
232	5075505H	890480	XX	6800	11200	94C03	351	6	47315025BBH122	10YR44	7030V	5075505	890480	3	50		33
233	5075505H	890481	XX	6400	11200	94C03	351	11	52325035BBH	10YR44	3530V	5075505	890481	4	34		37
234	5075505H	890482	XX	6000	11200	94C03	252	21	57220030BBH	10YR44	3015W	5075505	890482	5	39		30

235	5075505H	R90483	XX	5700	1200	94C03	251421	522100208BH	75R44	05	15	5075505	890483	3	36	
236	5075505H	R90484	XX	10000	9200	94C03	21	557000158BH	10Y44	32	70155N	5075505	890484	2	137	
237	5075505H	R90485	XX	9800	9200	94C03	21	597000108TF	10Y44	65	150N	5075505	890485	2	250	
238	5075505H	R90486	XX	9600	9200	94C03	321	607000158TF	10Y44	65	150N	5075505	890486	2	245	
239	5075505H	R90487	XX	9200	9200	94C03	321	607000158TF	10Y44	70	160N	5075505	890488	6	110	
240	5075505H	R90490	XX	8800	9200	94C03	321	603100208BH	75R44	40	145N	5075505	890490	4	1000	
241	5075505H	R90491	XX	8400	9200	94C03	321	543150258BH224	10Y44	50	145N	5075505	890491	6	730	
242	5075505H	R90492	XX	8000	9200	94C03	321	543200308BH225	10Y44	60	140W	5075505	890492	3	175	
243	5075505H	R90493	XX	7600	9200	94C03	351	531150258BH225	10Y44	40	108	5075505	890493	4	120	
244	5075505H	R90494	XX	7200	9200	94C03	351	493100208BH	10Y44	40	30W	5075505	890494	3	120	
245	5075505H	R90495	XX	6800	9200	94C03	351	493100208BH	10Y44	40	30W	5075505	890495	3	92	
246	5075505H	R90496	XX	6400	9200	94C03	351	493100208BH	10Y44	40	30W	5075505	890496	2	90	
247	5075505H	R90498	XX	5700	9200	94C03	321	543200308BH	10Y44	30	30W	5075505	890498	1	13	
248	5075505H	R90499	XX	4800	9600	94C03	321	583000158BH	10Y44	35	125S	5075505	890499	4	255	
249	5075505H	R90500	XX	4000	9600	94C03	221	553000108CI	10Y44	35	10000	5075505	890500	5	600	
250	5075505H	R90501	XX	10200	10000	94C03	221	443100208BH	10Y44	40	115E	5075505	890501	1	70	
251	5075505H	R90502	XX	10400	10000	94C03	321	583050158BH	10Y44	60	120E	5075505	890502	3	73	
252	5075505H	R90503	XX	10600	10000	94C03	321	493100208BH	10Y44	55	130E	5075505	890503	3	173	
253	5075505H	R90504	XX	10800	10000	94C03	322	493100258BG	10Y44	60	120N	5075505	890504	2	48	
254	5075505H	R90505	XX	11000	10000	94C03	221	453100158BH	10Y44	40	108E	5075505	890505	3	67	
255	5075505H	R90506	XX	11200	10000	94C03	251	463050158BH	10Y44	40	115N	5075505	890506	4	67	
256	5075505H	R90507	XX	11400	10000	94C01	151	463100208BH	10Y44	40	115N	5075505	890507	2	112	
257	5075505H	R90508	XX	11600	10000	94C03	351	493100258BH	10Y44	50	120N	5075505	890508	3	75	
258	5075505H	R90509	XX	11800	10000	94C03	251	497100208BH	10Y44	75	110N	5075505	890509	3	84	
259	5075505H	R90510	XX	12000	10000	94C03	321	467050158BH	10Y44	25	NE	5075505	890510	1	50	
260	5075505H	R90511	XX	10000	9600	94C03	321	493150258BH222	10Y44	40	125NE	5075505	890511	3	80	
261	5075505H	R90512	XX	9800	9600	94C03	321	583100208TF226	10Y44	40	125W	5075505	890512	3	420	
262	5075505H	R90513	XX	9600	9600	94C03	321	563150258RT	10Y44	45	130E	5075505	890513	3	150	
263	5075505H	R90514	XX	9400	9600	94C03	321	577000108TFX	10Y44	60	130S	5075505	890514	4	1450	
264	5075505H	R90516	XX	9800	9600	94C03	321	533150258BH225	75R44	35	120SW	5075505	890516	4	178	
265	5075505H	R90517	XX	8600	9600	94C03	321	563050158BH	10Y44	45	130W	5075505	890517	6	650	
266	5075505H	R90518	XX	8400	9600	94C03	321	563050158BH	10Y44	40	125W	5075505	890518	6	400	
267	5075505H	R90519	XX	8000	9675	94C03	351	54	050158BH	10Y44	30	30W	5075505	890519	4	95
268	5075505H	R90520	XX	7600	9725	94C03	351	503200358BH	75R44	55	130W	5075505	890520	2	75	
269	5075505H	R90521	XX	7200	9750	94C03	351	533150258BH	10Y44	45	30W	5075505	890521	4	92	
270	5075505H	R90522	XX	6800	9800	94C03	351	493100408BH	10Y44	30	30W	5075505	890522	4	200	
271	5075505H	R90523	XX	9800	11000	94C03	251	583150208BH222	10Y44	75	120SE	5075505	890523	4	730	
272	5075505H	R90524	XX	9600	11000	94C03	251	573100208BH226	10Y44	65	155E	5075505	890524	3	82	
273	5075505H	R90525	XX	9400	11000	94C03	251	543150208BH225	10Y44	70	205E	5075505	890525	2	128	
274	5075505H	R90526	XX	9000	10800	94C03	751	483150208BH225	10Y44	60	10000	5075505	890526	2	237	
275	5075505H	R90527	XX	9600	10900	94C03	222	533150208BH	10Y44	50	110E	5075505	890527	4	205	
276	5075505H	R90528	XX	9800	10800	94C03	222	5811002	08H	10Y44	40	110E	5075505	890528	8	330
277	5075505H	R90529	XX	10200	11200	94C03	321	613050158BH	10Y44	35	120S	5075505	890529	3	107	
278	5075505H	R90530	XX	10400	11200	94C03	221	513150208BH226	10Y44	25	20S	5075505	890530	3	210	
279	5075505H	R90531	XX	10400	11200	94C03	221	513150208BH220	10Y44	50	120S	5075505	890531	1	97	
280	5075505H	R90532	XX	10400	11200	94C03	321	513100258BH	10Y44	45	30S	5075505	890532	2	108	
281	5075505H	R90533	XX	11000	11200	94C03	321	543100208BH	10Y44	20	30S	5075505	890533	1	162	
282	5075505H	R90534	XX	11200	11200	94C03	321	503150258BH	10Y44	45	125S	5075505	890534	1	150	
283	5075505H	R90535	XX	11400	11200	94C03	321	513150208BH222	10Y44	30	130SE	5075505	890535	3	540	
284	5075505H	R90536	XX	11600	11200	94C03	321	513150208BH226	10Y44	35	120E	5075505	890536	3	185	
285	5075505H	R90537	XX	11800	11200	94C03	351	503100258BH224	10Y44	25	130E	5075505	890537	2	170	
286	5075505H	R90539	XX	12000	11200	94C03	351	533150258BH	10Y44	30	130E	5075505	890538	2	175	
287	5075505H	R90540	XX	12400	11200	94C03	351	563100208BH	10Y44	40	140NE	5075505	890540	1	225	
288	5075505H	R90541	XX	12800	11200	94C03	251	503100258BH224	10Y44	35	120E	5075505	890541	4	68	
289	5075505H	R90542	XX	13200	11200	94C03	751	523050208BH224	10Y44	40	10000	5075505	890542	2	47	
290	5075505H	R90543	XX	13200	10800	94C03	251	523100208BH224	10Y44	45	115E	5075505	890543	3	124	
291	5075505H	R90544	XX	13200	10400	94C03	251	4783100208BH224	10Y44	30	10E	5075505	890544	1	46	
292	5075505H	R90545	XX	13200	10000	94C03	251	4783100208BH225	10Y44	65	115E	5075505	890545	1	36	
293	5075505H	R90546	XX	13200	9600	94C03	251	50	100258BH224	75R44	35	120E	5075505	890546	4	81
294	5075505H	R90547	XX	13200	9200	94C03	251	493100208BH224	10Y44	30	115E	5075505	890547	3	85	

295	5075505H	890540	XX	13200	8800	94C03	351	16	49315025BBM224	75YR44	45130E	5075505	890548	2	156	36	
296	5075505H	890549	XX	13200	8400	94C03	351	16	56320030BBM224	10YR44	30130E	5075505	890549	3	108	48	
297	5075505H	890550	XX	13200	8000	94C03	251	16	52305010BBM224	10YR44	40120E	5075505	890550	2	63	72	
298	5075505H	890551	XX	13200	7600	94C03	251	16	50315025BBM224	10YR44	30120S	5075505	890551	3	172	145	
299	5075505H	890552	XX	13200	7200	94C03	251	16	5410020BBM122	10YR44	50130S	5075505	890552	2	67	70	
300	5075505H	890553	XX	13200	7000	94C03	351	16	55315025BBM	75YR44	35130S	5075505	890553	3	88	46	
301	5075505H	890554	XX	12800	7025	94C03	351	16	5515025BBM	10YR44	45125S	5075505	890554	4	94	56	
302	5075505H	890555	XX	12400	7050	94C03	351	16	55305015BBM224	10YR44	45140S	5075505	890555	11	400	70	
303	5075505H	890556	XX	12000	7080	94C03	351	16	6305015BBM224	75YR44	50140S	5075505	890556	4	140	98	
304	5075505H	890557	XX	11600	7100	94C03	351	16	55320030BBM224	10YR44	2530S	5075505	890557	2	60	85	
305	5075505H	890559	XX	10800	7120	94C03	51	16	62300015BBM	10YR44	30170S	5075505	890559	2	70	95	
306	5075505H	890560	XX	10400	7135	94C03	351	16	60300010BBM	10YR44	60145S	5075505	890560	4	33	98	
307	5075505H	890561	XX	10000	7140	94C03	351	19	58325035BBM226	10YR44	80130S	5075505	890561	2	76	68	
308	5075505H	890562	XX	9600	7170	94C03	351	21	60300010BBM	10YR44	2025SW	5075505	890562	1	83	30	
309	5075505H	890563	XX	9200	7185	94C03	351	16	59305015BBM	10YR44	30135S	5075505	890563	2	123	56	
310	5075505H	890564	XX	8800	7200	94C03	351	16	54310015BBM226	10YR44	60130S	5075505	890564	2	57	120	
311	5075505H	890565	XX	8400	7200	94C03	271	19	60310025BBM121	10YR44	75120S	5075505	890565	4	72	170	
312	5075505H	890566	XX	8000	7200	94C03	251	16	50315025BBM121	10YR44	30120S	5075505	890566	1	98	110	
313	5075505H	890567	XX	7600	7200	94C03	251	21	56310030BBM121	10YR44	55110S	5075505	890567	4	38	37	
314	5075505H	890568	XX	7200	7200	94C03	271	21	52320030BBM121	10YR44	4020S	5075505	890568	6	72	58	
315	5075505H	890569	XX	6800	7200	94C03	271	16	62320035BBM122	10YR44	60120S	5075505	890569	6	100	207	
316	5075505H	890570	XX	10000	8800	94C03	21	16	61305020BBM226	10YR44	45145S	5075505	890570	2	250	88	
317	5075505H	890571	XX	9800	8800	94C03	351	16	60315020BBM222	10YR44	30135S	5075505	890571	2	94	74	
318	5075505H	890572	XX	9600	8800	94C03	321	16	64305010BBM226	10YR44	70130SW	5075505	890572	1	235	96	
319	5075505H	890573	XX	9400	8800	94C03	321	16	60335040BBM222	10YR44	70130SW	5075505	890573	2	190	78	
320	5075505H	890574	XX	9200	8800	94C03	321	16	57310015BBM222	10YR44	5530S	5075505	890574	3	365	99	
321	5075505H	890575	XX	9000	8800	94C03	351	16	58315025BBM222	10YR44	4030S	5075505	890575	3	420	117	
322	5075505H	890576	XX	8800	8800	94C03	351	16	57320025BBM222	10YR44	40130S	5075505	890576	19	1640	140	
323	5075505H	890578	XX	8400	8800	94C03	352	16	56310020BBM	10YR44	30130S	6075505	890578	2	76	83	
324	5075505H	890579	XX	8000	8900	94C03	351	16	54315020BBM122	10YR44	30S	6075505	890579	3	255	237	
325	5075505H	890580	XX	7800	8800	94C03	351	16	50310020BBM121	10YR44	35130S	6075505	890580	10	250	460	
326	5075505H	890581	XX	7400	8800	94C03	351	19	58305010BBM121	10YR44	50130SW	6075505	890581	8	280	178	
327	5075505H	890582	XX	7000	8800	94C03	351	19	52305010B	121	10YR44	60130W	6075505	890582	3	96	68
328	5075505H	890583	XX	6600	8800	94C03	351	21	52315025BBM121	75YR44	2530W	6075505	890583	10	640	138	
329	5075505H	890584	XX	6200	8800	94C03	251	21	55225035BBM	10YR44	3010W	6075505	890584	5	58	89	
330	5075505H	890586	XX	9925	8600	94C03	321	16	60310025BBM	10YR44	50135S	5075505	890586	6	400	68	
331	5075505H	890587	XX	9900	8400	94C03	351	16	60305015BBM	10YR44	40135S	5075505	890587	11	650	65	
332	5075505H	890588	XX	9815	8000	94C03	351	16	52315025BBM	10YR44	50135S	5075505	890588	2	75	118	
333	5075505H	890589	XX	9780	7600	94C03	351	16	55320030BBM	10YR44	35145S	5075505	890589	4	245	75	
334	5075505H	890590	XX	9600	7600	94C03	351	16	61305015BBM225	10YR44	65145S	5075505	890590	2	315	95	
335	5075505H	890591	XX	9200	7600	94C03	351	16	53315025BBM	10YR44	2530S	5075505	890591	1	138	68	
336	5075505H	890592	XX	8800	7600	94C03	351	16	54710020BBM121	10YR44	90145S	5075505	890592	2	175	128	
337	5075505H	890594	XX	8400	7600	94C03	351	16	60305015BBM121	10YR44	30130S	5075505	890593	3	300	210	
338	5075505H	890594	XX	8000	7600	94C03	351	16	5631001BBM121	10YR44	3530S	5075505	890594	3	32	138	
339	5075505H	890595	XX	7600	7600	94C03	351	19	53315020BBM121	10YR44	6030S	5075505	890595	4	125	255	
340	5075505H	890596	XX	7200	7600	94C03	351	19	62315020BBM111	10YR44	60130S	5075505	890596	3	74	180	
341	5075505H	890597	XX	6800	7600	94C03	351	19	53315025BBM111	10YR44	40130S	5075505	890597	2	25	33	
342	5075505H	890598	XX	6400	7600	94C03	251	16	50315020BBM112	10YR44	40120S	5075505	890598	1	17	29	
343	5075505H	890599	XX	9800	8400	94C03	351	16	62302004BBM225	10YR44	40130S	5075505	890599	2	280	112	
344	5075505H	890600	XX	9600	8400	94C03	351	19	55715025BBM225	10YR44	75130S	5075505	890600	4	150	105	
345	5075505H	890601	XX	9200	8400	94C03	351	16	57710025BBM	10YR44	40140S	5075505	890601	2	88	118	
346	5075505H	890602	XX	9000	8400	94C03	351	16	59210020BBM122	10YR44	30130S	5075505	890602	4	112	118	
347	5075505H	890603	XX	8800	8400	94C03	351	16	57205015BBM121	10YR44	30130S	5075505	890603	2	112	118	
348	5075505H	890604	XX	8600	8400	94C03	351	16	5615025BBM121	10YR44	60130SW	5075505	890604	3	102	104	
349	5075505H	890605	XX	8400	8400	94C03	351	116	55315030BBM121	75YR44	25130S	5075505	890605	2	158	80	
350	5075505H	890606	XX	8200	8400	94C03	351	16	61310020BBM111	10YR44	30145S	5075505	890606	8	400	340	
351	5075505H	890607	XX	8000	8400	94C03	351	16	61710015BBM111	10YR44	50145S	5075505	890607	4	225	380	
352	5075505H	890608	XX	7800	8400	94C03	351	16	56305015BBM	10YR44	30130S	5075505	890608	2	156	80	
353	5075505H	890609	XX	7600	8400	94C03	351	16	62305025BBM	10YR44	40145S	5075505	890609	8	700	340	
354	5075505H	890610	XX	7400	8400	94C03	351	19	62310020BBM121	10YR44	55130S	5075505	890610	10	88	113	

355	5075505H	890611	XX	7000	8400	94C03	351	16	61310030BDM121	75YR44	401459	5075505	890611	7	480	120
356	5075505H	890612	XX	6600	8400	94C03	51	16	57302005BBM121	10YR44	55130W	5075505	890612	2	25	68
357	5075505H	890613	XX	6200	8400	94C03	51	21	56J20035PHF121	75YR44	20 20W	5075505	890613	2	25	28
358	5075505H	890614	XX	9000	10800	94C03	221	19	57305010PC1226	10YR44	35115W	5075505	890614	2	165	54
359	5075505H	890615	XX	8800	10800	94C03	121	19	54305015BDM226	10YR44	5010000	5075505	890615	2	102	32
360	5075505H	890616	XX	8600	10800	94C03	321	16	59315010BDM2261275YR44	40130W		5075505	890616	2	95	54
361	5075505H	890617	XX	8600	10800	94C03	321	16	57315025BDM2261210YR44	55130W		5075505	890617	2	146	54
362	5075505H	890618	XX	8400	10800	94C03	321	16	60305020RCI	10YR44	35130W	5075505	890618	4	1090	45
363	5075505H	890619	XX	8200	10800	94C03	321	16	55305015BDM	10YR44	40140W	5075505	890619	1	55	70
364	5075505H	890620	XX	8000	10800	94C03	321	16	55315025BDM	10YR44	35130S	5075505	890620	2	86	49
365	5075505H	890621	XX	7600	10800	94C03	351	16	61325035BDM	75YR44	30 30S	5075505	890621	2	179	45
366	5075505H	890622	XX	7200	10800	94C03	351	16	58315025BDM226	10YR44	45130W	5075505	890622	3	135	63
367	5075505H	890623	XX	6800	10800	94C03	351	21	54325035BDM	75YR44	20 25S	5075505	890623	1	44	50
368	5075505H	890624	XX	6400	10800	94C03	251	21	54320030BDM121	10YR44	60 15W	5075505	890624	3	46	20
369	5075505H	900273	XX	15400	3500	94C03	251	22	55210 20PBF	75YR44	25 1S	5075505	900273	1	60	62
370	5075505H	900274	XX	15400	3100	94C03	251	22	60210 20PBF	75YR44	0 3S	5075505	900274	1	53	60
371	5075505H	900275	XX	15400	2700	94C03	252	22	67220 30GRG	10YR54	1 2S	5075505	900275	2	63	25
372	5075505H	900276	XX	15000	2700	94C03	251	22	61230 40PBF	75YR44	0 2S	5075505	900276	6	215	25
373	5075505H	900280	XX	13400	2700	94C03	251	22	49210 20PBF	75YR44	10 3S	5075505	900280	1	30	27
374	5075505H	900281	XX	11000	2700	94C03	151	22	66210 20PHF123	75YR44	10 25H	5075505	900281	2	53	32
375	5075505H	900282	XX	12900	2700	94C03	451	16	16252220 30BBM1239	10YR44	40140H	5075505	900282	1	35	20
376	5075505H	900283	XX	12600	2700	94C03	251	22	60215 25BBM123	10YR44	35 10S	5075505	900283	0	133	46
377	5075505H	900284	XX	12200	2700	94C03	251	22	57210 20BBM	OLIVE	15 5S	5075505	900284	1	95	22
378	5075505H	900285	XX	11800	2700	94C03	251	22	60210 20PBF	75YR44	10 1S	5075505	900285	1	53	24
379	5075505H	900286	XX	11400	2700	94C03	252	22	59215 25	75YR44	10 2S	5075505	900286	0	68	20
380	5075505H	900287	XX	11000	2700	94C03	251	22	63210 20PBF	75YR44	10 1S	5075505	900287	2	53	26
381	5075505H	900288	XX	10600	2700	94C03	251	22	61210 20BBM	10YR44	10 1S	5075505	900288	1	80	38
382	5075505H	900290	XX	9800	2700	94C03	251	22	56210 20PBF	75YR44	10 1W	5075505	900290	2	45	30
383	5075505H	900291	XX	9800	2300	94C03	952	22	69220 30GRG	10YR54	40 1S	5075505	900291	4	120	20
384	5075505H	900292	XX	9800	1900	94C03	251	22	57210 20PBF	75YR44	20 2S	5075505	900292	1	50	22
385	5075505H	900293	XX	10200	1900	94C03	251	22	57210 20PBF	75YR44	20 5S	5075505	900293	0	55	38
386	5075505H	900294	XX	10600	1900	94C03	252	22	60210 20GRG	10YR44	20 2S	5075505	900294	4	53	25
387	5075505H	900295	XX	11000	1900	94C03	251	22	57210 20PBF	75YR44	50 5S	5075505	900295	2	30	26
388	5075505H	900296	XX	11400	1900	94C03	251	22	60210 20PBF	75YR44	15 2S	5075505	900296	2	28	20
389	5075505H	900297	XX	11800	1900	94C03	251	22	63210 20PBF	75YR44	10 1S	5075505	900297	2	50	34
390	5075505H	900299	XX	12200	1900	94C03	251	22	60210 20BBM	10YR44	25 2S	5075505	900298	1	85	34
391	5075505H	900299	XX	12600	1900	94C03	251	28	57230 40RPF	10YR44	99 20W	5075505	900299	1	25	42
392	5075505H	900300	XX	13000	1900	94C03	251	22	56210 20PBF	75YR44	10 3W	5075505	900300	2	45	26
393	5075505H	900301	XX	13400	1900	94C03	251	22	56210 20BBM	10YR44	70 5S	5075505	900301	1	33	44
394	5075505H	900302	XX	13800	1900	94C03	251	22	62210 20BBM	10YR44	30 2S	5075505	900302	2	50	105
395	5075505H	900303	XX	14150	1900	94C03	252	22	68210 20GRG	10YR54	60 25W	5075505	900303	2	53	29
396	5075505H	900304	XX	14600	1900	94C03	252	22	66210 20GRG	10YR54	50 2S	5075505	900304	5	28	29
397	5075505H	900305	XX	15000	1900	94C03	251	22	59210 20BBM	10YR44	1 2S	5075505	900305	0	33	22
398	5075505H	900306	XX	15330	1900	94C03	251	22	55210 20PBF	75YR44	20 25E	5075505	900306	1	48	32
399	5075505H	900422	XX	15400	5500	94C03	251	22	62215 25PBF	75YR44	60 2S	5075505	900422	3	100	20
400	5075505H	900423	XX	15400	6300	94C03	251	22	64215 20PBF	75YR44	10 3S	5075505	900423	2	54	20
401	5075505H	900424	XX	15400	6700	94C03	271	22	57215 25BBM	10YR44	50 10S	5075505	900424	1	45	10
402	5075505H	900425	XX	15400	7100	94C03	251	22	58210 20PBF	75YR44	60 1S	5075505	900425	3	72	19
403	5075505H	900426	XX	15400	7500	94C03	251	22	54210 20BBM	10YR44	30 1S	5075505	900426	2	50	14
404	5075505H	900427	XX	15400	7900	94C03	251	21	56210 20BBM	10YR44	301 1S	5075505	900427	3	88	21
405	5075505H	900428	XX	15400	8300	94C03	251	22	62215 25BBM	10YR32	501 1S	5075505	900428	2	77	18
406	5075505H	900429	XX	15400	8700	94C03	252	22	64215 25BBM	10YR44	50 35E	5075505	900429	3	138	23
407	5075505H	900430	XX	15400	9100	94C03	251	22	56210 20BBM	10YR44	40 10E	5075505	900430	3	42	16
408	5075505H	900431	XX	15400	9500	94C03	252	22	69150 60CBI	BLACK	50 3E	5075505	900431	3	200	20
409	5075505H	900432	XX	15400	9900	94C03	252	22	69130 40CBI	BLACK	50 2E	5075505	900432	3	238	18
410	5075505H	900433	XX	15400	10300	94C03	251	22	48210 20BBM	10YR44	70 2E	5075505	900433	1	50	12
411	5075505H	900434	XX	15400	10700	94C03	271	22	55210 20BBM	10YR44	70 2S	5075505	900434	2	85	17
412	5075505H	900435	XX	15400	11100	94C03	252	22	66210 20BBM	10YR44	85 1E	5075505	900435	4	133	25
413	5075505H	900436	XX	15400	11500	94C03	251	22	58210 20BBM	10YR44	351 2E	5075505	900436	2	62	22
414	5075505H	900437	XX	15400	11900	94C03	251	11	58210 20BBM	10YR44	501155E	5075505	900437	3	150	24

415	5075505H	900438	XX	15400	12300	94C03	251	11	53210	20PBP	75YR44	401	38	5075505	900438	3	50	23	88	
416	5075505H	900439	XX	15400	12700	94C03	251	11	54710	20BBM	10YR44	851	1E	5075505	900439	3	77	21	57	
417	5075505H	900440	XX	15400	13100	94C03	243	11	67325	35BBM	10YR44	701	1E	5075505	900440	4	68	20	62	
418	5075505H	900441	XX	15400	13500	94C03	251	11	70320	30BBM	10YR44	501	2E	5075505	900441	2	82	21	42	
419	5075505H	900442	XX	15800	13500	94C03	933	11	56170	850BH	10YR21	501	1E	5075505	900442	4	160	20	40	
420	5075505H	900443	XX	12400	12400	94C03	353	16	67310	20BBM	10YR44	10135E		5075505	900443	2	290	21	60	
421	5075505H	900444	XX	12400	12800	94C03	351	16	50210	20PBP	75YR44	25140SE		5075505	900444	3	155	20	73	
422	5075505H	900445	XX	12400	13200	94C03	451	16	53210	20BBM	10YR44	40135NE		5075505	900445	3	155	20	80	
423	5075505H	900446	XX	12400	13600	94C03	251	11	47210	20BBM	10YR44	501	5E	5075505	900446	2	55	22	65	
424	5075505H	900447	XX	14000	12400	94C03	251	16	44215	25BBM	10YR44	651	3E	5075505	900447	1	45	20	60	
425	5075505H	900448	XX	14400	12400	94C01	652	11	57310	20BBM	10YR32	151	1E	5075505	900448	4	160	25	72	
426	5075505H	900449	XX	14800	12400	94C03	252	11	59210	20BBM	10YR43	251	1E	5075505	900449	4	83	21	63	
427	5075505H	900450	XX	15200	12400	94C03	252	17	65115	25BBM	10YR31	5	1E	5075505	900450	4	240	25	92	
428	5075505H	900451	XX	9800	12000	94C03	231	16	250310	20BBM	10YR32	50115W		5075505	900451	2	65	16	34	
429	5075505H	900452	XX	9600	12000	94C03	231	16	252310	20BBM	10YR32	80115W		5075505	900452	3	92	23	70	
430	5075505H	900453	XX	9400	12000	94C03	231	16	50315	20BBM	10YR32	70110W		5075505	900453	3	160	16	32	
431	5075505H	900454	XX	9200	12000	94C03	231	16	50315	25BBM	10YR32	50110W		5075505	900454	2	68	15	26	
432	5075505H	900455	XX	9000	12000	94C03	251	16	56315	25BBM	10YR44	50110W		5075505	900455	3	90	13	32	
433	5075505H	900456	XX	8800	12000	94C03	251	16	61310	20BBM	10YR32	50110W		5075505	900456	4	210	18	47	
434	5075505H	900457	XX	8600	12000	94C03	231	16	56315	25PBP	75YR44	10	5W	5075505	900457	2	120	21	56	
435	5075505H	900458	XX	8400	12000	94C03	251	12	57310	20RC1	10YR44	30	10W	5075505	900458	3	80	16	46	
436	5075505H	900459	XX	8200	12000	94C03	251	12	54210	20BBM	10YR44	50	10W	5075505	900459	3	55	16	40	
437	5075505H	900460	XX	7900	12000	94C03	251	22	2249210	20BDM222	10YR44	50	5W	5075505	900460	3	55	18	40	
438	5075505H	900461	XX	7640	12000	94C03	351	18	251210	20BDM222	10YR32	80	35W	5075505	900461	2	43	16	45	
439	5075505H	900462	XX	7320	12000	94C03	351	18	253215	25BBM222	10YR44	50145W		5075505	900462	1	35	15	43	
440	5075505H	900463	XX	7000	12000	94C03	351	16	48210	20BDM222	10YR44	75	45W	5075505	900463	3	80	39	244	
441	5075505H	900464	XX	6680	12000	94C03	351	16	252310	20BDM222		75145W		5075505	900464	2	110	16	67	
442	5075505H	900465	XX	6280	12000	94C03	451	22	50210	20PBP	75YR44	20	10W	5075505	900465	1	55	12	32	
443	5075505H	900466	XX	5890	12000	94C03	451	22	57210	20BBM	10YR32	80	2W	5075505	900466	2	60	11	30	
444	5075505H	900467	XX	8800	10400	94C03	131	16	151310	20BBM	10YR32	951	3N	5075505	900467	2	1250	16	35	
445	5075505H	900469	XX	8490	10400	94C03	331	18	149210	20BDM22214	10YR44	75140V		5075505	900469	6	185	17	37	
446	5075505H	900470	XX	8360	10400	94C03	351	18	253215	25BDM222	10YR32	95140W		5075505	900470	3	180	16	55	
447	5075505H	900471	XX	8100	10400	94C03	51	18	253215	25BBM222	10YR32	95140W		5075505	900471	3	112	13	47	
448	5075505H	900472	XX	7840	10400	94C03	351	22	45215	25BDM2221	10YR32	99	30W	5075505	900472	2	78	7	25	
449	5075505H	900473	XX	7520	10400	94C03	351	22	58210	20PBP	75YR44	25	30W	5075505	900473	4	52	12	60	
450	5075505H	900474	XX	7200	10400	94C03	351	16	57210	20BBM	10YR44	40	25W	5075505	900474	3	235	17	45	
451	5075505H	900475	XX	68	0	10400	94C03	351	16	54210	20BBM	10YR44	50125W		5075505	900475	6	430	24	86
452	5075505H	900476	XX	6560	10400	94C03	34	12	65135	450RH	BLACK	50	40W	5075505	900476	7	450	17	25	
453	5075505H	900477	XX	6240	10400	94C03	442	22	65225	35GBG	10YR44	25	15W	5075505	900477	10	63	14	35	
454	5075505H	900478	XX	9000	10400	94C03	251	18	2543	0	2	TP		5075505	900478	2	193	18	66	
455	5075505H	900479	XX	9200	10450	94C03	251	16	25513	0	5	TP		5075505	900479	6	245	25	52	
456	5075505H	900480	XX	9400	10500	94C03	251	16	254210	20BBM	75YR44	501	3SE	5075505	900480	4	325	18	43	
457	5075505H	900481	XX	9600	10530	94C03	251	16	253210	20BBM	75YR44	751	5SE	5075505	900481	5	600	21	36	
458	5075505H	900482	XX	9900	10560	94C03	251	16	254210	20BBM	10YR44	901	2SE	5075505	900482	5	142	15	42	
459	5075505H	900483	XX	10000	10600	94C03	932	16	66225	35CBM	10YR44	251	3SE	5075505	900483	7	730	18	28	
460	5075505H	900484	XX	10200	10630	94C03	932	16	57225	35GBG	10YR41	251	3SE	5075505	900484	7	235	17	59	
461	5075505H	900485	XX	15000	13100	94C03	251	16	51215	25	10YR44	401	5SE	5075505	900485	3	102		65	
462	5075505H	900486	XX	14600	13100	94C03	251	16	51210	20BBM	10YR44	401	5S	5075505	900486	1	36		60	
463	5075505H	900487	XX	14200	13100	94C03	251	16	43210	20PBP	75YR44	60110SE		5075505	900487	2	69		97	
464	5075505H	900488	XX	13800	13100	94C03	251	16	48210	20PBP	75YR44	75115SE		5075505	900488	3	45		75	
465	5075505H	900489	XX	13400	13100	94C03	251	16	43220	30PBP	75YR44	501	5W	5075505	900489	2	117		70	
466	5075505H	900490	XX	13000	13100	94C03	251	16	55210	20PBP	75YR44	75115E		5075505	900490	1	92		60	
467	5075505H	900491	XX	12600	13100	94C03	251	16	50210	20BBM	10YR44	50120E		5075505	900491	3	210		58	
468	5075505H	900492	XX	12200	13100	94C03	251	16	52210	20PBP	5	75YR44	751	1E	5075505	900492	3	132		60
469	5075505H	900493	XX	11800	13100	94C03	251	16	49215	25BBM	10YR32	251	2E	5075505	900493	2	75		48	
470	5075505H	900494	XX	11400	13100	94C03	251	16	45215	25BBM	10YR44	501	5E	5075505	900494	2	76		70	
471	5075505H	900495	XX	11000	13100	94C03	251	22	58215	25BBM	10YR44	50	10E	5075505	900495	2	82		68	
472	5075505H	900496	XX	10600	13100	94C03	231	16	48220	30BBM	10YR32	751	5E	5075505	900496	2	140		52	
473	5075505H	900497	XX	10200	13100	94C03	231	16	47210	20BBM	10YR44	50110NE		5075505	900497	2	98		38	
474	5075505H	900499	XX	9900	13100	94C03	231	16	48210	20BBM	10YR44	851	8W	5075505	900498	1	162		61	

475	5075505H	900499	XX	9400	13100	94C03	231	16	47210	20BDM	10YR32	50	15NW	5075505	900499	2	82	45	
476	5075505H	900500	XX	9000	13100	94C03	251	22	48215	25BDM	10YR21	50	15NW	5075505	900500	2	62	42	
477	5075505H	900501	XX	8600	13100	94C03	351	22	52315	25BDM	10YR32	50	25NW	5075505	900501	2	108	50	
478	5075505H	900502	XX	8200	13100	94C03	251	22	43215	25BDM	10YR43	50	15NW	5075505	900502	2	40	26	
479	5075505H	900503	XX	7800	13100	94C03	251	22	51210	20BDM	10YR44	50	10NW	5075505	900503	3	56	50	
480	5075505H	900504	XX	7400	13100	94C03	351	22	44215	25BDM	10YR22	85	25NW	5075505	900504	2	48	26	
481	5075505H	900505	XX	7000	13100	94C03	251	22	44210	20BDM	10YR44	50	15NW	5075505	900505	3	72	46	
482	5075505H	900506	XX	6600	13100	94C03	351	11	50210	20PDP	75YR44	50	125NW	5075505	900506	3	150	60	
483	5075505H	900507	XX	6200	13100	94C03	451	22	48210	20BDM	10YR44	50	5W	5075505	900507	2	42	47	
484	5075505H	900508	XX	5800	13100	94C03	851	22	46210	20BDM	10YR44	25	10N	5075505	900508	2	57	36	
485	5075505H	900509	XX	5800	13500	94C03	851	22	49210	20BDM	75YR44	5	5N	5075505	900509	3	52	44	
486	5075505H	900510	XX	5400	13900	94C03	851	22	51210	20PDP	75YR44	30	5S	5075505	900510	2	47	90	
487	5075505H	900511	XX	6200	13900	94C03	851	22	52210	20BDM	10YR44	30	2S	5075505	900511	3	54	60	
488	5075505H	900512	XX	6600	13900	94C03	452	22	58315	25BDM	10YR32	90	1W	5075505	900512	2	54	25	
489	5075505H	900513	XX	7000	13900	94C03	251	22	49210	20BDM	10YR43	25	2W	5075505	900513	2	32	37	
490	5075505H	900514	XX	7400	13900	94C03	252	22	62215	25BDM	10YR32	10	5W	5075505	900514	4	128	42	
491	5075505H	900515	XX	7800	13900	94C03	351	22	48215	25BDM	10YR44	50	40W	5075505	900515	2	46	45	
492	5075505H	900516	XX	8200	13900	94C03	251	22	44215	25BDM	10YR54	95	10W	5075505	900516	2	30	40	
493	5075505H	900517	XX	8600	13900	94C03	251	22	55210	20BDM	10YR44	90	15NW	5075505	900517	2	67	49	
494	5075505H	900518	XX	9000	13900	94C03	252	22	61215	25BDM	10YR32	20	15NW	5075505	900518	2	130	65	
495	5075505H	900519	XX	9400	13900	94C03	251	22	45315	25BDM	10YR32	85	10NW	5075505	900519	2	26	41	
496	5075505H	900520	XX	9800	13900	94C03	251	1924	49210	20BDM222	10YR44	85	110N	5075505	900520	1	85	54	
497	5075505H	900521	XX	10200	13900	94C03	251	1624	48210	20BDM222	10YR44	50	15N	5075505	900521	1	52	40	
498	5075505H	900522	XX	10600	13900	94C03	251	16	48315	25BDM	10YR32	15	10N	5075505	900522	1	73	29	
499	5075505H	900523	XX	11000	13900	94C03	251	22	48210	20BDM	10YR32	50	10N	5075505	900523	1	32	39	
500	5075505H	900524	XX	11400	13900	94C03	251	22	61215	25BDM	10YR44	40	10N	5075505	900524	1	74	86	
501	5075505H	900525	XX	11800	13900	94C03	252	22	472	8	15BDM	10YR44	60	10N	5075505	900525	3	50	44
502	5075505H	900526	XX	12200	13900	94C03	251	22	46210	20BDM	10YR44	25	5N	5075505	900526	3	62	56	
503	5075505H	900527	XX	12600	13900	94C03	251	22	50215	25BDM	10YR43	10	15NE	5075505	900527	3	55	52	
504	5075505H	900528	XX	13000	13900	94C03	251	22	46210	20BDM	10YR44	25	5NE	5075505	900528	3	85	60	
505	5075505H	900529	XX	13400	13900	94C03	251	22	55210	20BDM	10YR44	55	3NE	5075505	900529	3	102	103	
506	5075505H	900530	XX	13800	13900	94C03	251	11	46210	20BDM	10YR44	60	13E	5075505	900530	1	45	75	
507	5075505H	900531	XX	14200	13900	94C03	251	22	47210	20BDM	10YR44	50	3E	5075505	900531	2	82	85	
508	5075505H	900532	XX	14600	13900	94C03	252	22	62215	25BDM	10YR53	30	3E	5075505	900532	3	84	73	
509	5075505H	900533	XX	15000	13900	94C03	351	22	49210	20PDP	75YR44	25	25W	5075505	900533	2	66	66	
510	5075505H	900534	XX	15400	13900	94C03	652	11	51210	20BDM	10YR44	90	1PLAT	5075505	900534	3	67	76	
511	5075505H	900538	XX	10680	12000	94C03	231	16	462	5	15BDM	10YR44	50	115W	5075505	900538	1	98	55
512	5075505H	900539	XX	10880	12000	94C03	231	16	452	5	15BDM	10YR44	90	13N	5075505	900539	3	40	41
513	5075505H	900540	XX	11040	12000	94C03	331	1825	0210	20BDM225	10YR33	50	135E	5075505	900540	2	98	47	
514	5075505H	900541	XX	11200	12000	94C03	331	1825	1210	20BDM225	10YR33	50	135E	5075505	900541	1	106	63	
515	5075505H	900542	XX	11400	12000	94C03	431	1825	0210	20BDM225	10YR33	85	115W	5075505	900542	2	94	57	
516	5075505H	900543	XX	11600	12000	94C03	231	1825	1210	20BDM225	10YR44	50	110W	5075505	900543	2	280	65	
517	5075505H	900544	XX	11800	12000	94C03	231	16	51210	20BDM	10YR33	30	115W	5075505	900544	1	96	55	
518	5075505H	900545	XX	12000	12000	94C03	231	16	54210	20BDM	10YR33	50	115W	5075505	900545	2	89	50	
519	5075505H	900546	XX	12200	12000	94C03	251	16	50210	20BDM	10YR33	50	110W	5075505	900546	3	77	44	
520	5075505H	900547	XX	12600	12000	94C03	251	16	60210	20BDM	10YR33	75	110E	5075505	900547	4	420	85	
521	5075505H	900548	XX	12800	12000	94C03	451	16	50210	20BDM	10YR33	50	140SE	5075505	900548	2	157	62	
522	5075505H	900549	XX	12950	12000	94C03	451	16	52210	20BDM	10YR44	50	140NW	5075505	900549	4	200	80	
523	5075505H	900550	XX	13400	12000	94C03	251	1624	5210	20BDM222	10YR44	25	110E	5075505	900550	2	44	53	
524	5075505H	900551	XX	13800	12000	94C03	452	11	60510	20LBT	10YR32	10	2E	5075505	900551	3	158	90	
525	5075505H	900552	XX	13800	11600	94C03	451	11	63310	20LBT	10YR33	5	3E	5075505	900552	4	165	112	
526	5075505H	900553	XX	13800	11200	94C03	251	11	61310	20BDM	10YR32	50	110E	5075505	900553	2	160	73	
527	5075505H	900554	XX	13900	10800	94C03	251	11	47210	20BDM	10YR43	50	15E	5075505	900554	1	45	60	
528	5075505H	900555	XX	13800	10400	94C03	251	11	47210	20BDM	10YR44	50	13E	5075505	900555	1	55	65	
529	5075505H	900556	XX	13800	10000	94C03	232	11	64215	25BDM	10YR44	10	12E	5075505	900556	3	310	90	
530	5075505H	900557	XX	13800	9600	94C03	251	11	64210	20BDM	10YR32	50	12E	5075505	900557	3	132	95	
531	5075505H	900558	XX	13800	9200	94C03	251	11	61210	20BDM	10YR44	50	12E	5075505	900558	4	82	115	
532	5075505H	900559	XX	13900	8800	94C03	251	11	51210	20BDM	10YR44	70	15E	5075505	900559	5	74	67	
533	5075505H	900560	XX	13800	8400	94C03	251	11	51210	20PDP	75YR44	35	15E	5075505	900560	4	47	98	
534	5075505H	900561	XX	13800	8000	94C03	851	1124	48210	20BDM22535	10YR44	50	110E	5075505	900561	3	58	97	

535	5075505H	900562	XX	13800	7600	94C03	251	11	56310	20BBH	10YR44	25	5E	5075505	900562	3	65	37	
536	5075505H	900563	XX	13800	7200	94C03	251	16	62710	20BBH	10YR44	951	5E	5075505	900563	2	135	60	
537	5075505H	900564	XX	13800	6800	94C03	251	16253210	20PDP22535	75YR44	501	8E	5075505	900564	3	70	53		
538	5075505H	900565	XX	14200	6800	94C03	251	16267310	20BBM2253	10YR32	501	5E	5075505	900565	4	850	78		
539	5075505H	900566	XX	14600	6800	94C03	251	22	62210	20BBH	10YR44	70	1E	5075505	900566	2	72	58	
540	5075505H	900567	XX	14600	7215	94C03	251	11	57210	20BBH	10YR44	40110E		5075505	900567	2	58	40	
541	5075505H	900568	XX	14600	7630	94C03	271	11	56210	20BBH	10YR44	40	8E	5075505	900568	4	100	53	
542	5075505H	900569	XX	14600	8045	94C03	251	11	50210	20BBH	10YR32	10	5E	5075505	900569	2	58	45	
543	5075505H	900570	XX	14600	8460	94C03	251	11	52210	20BBH	10YR44	301	5E	5075505	900570	4	72	68	
544	5075505H	900571	XX	14600	8875	94C03	272	11	64	30	40BBH	10YR21	50	1E	5075505	900571	3	290	62
545	5075505H	900572	XX	14600	9290	94C03	253	11	56230	40CBBH	10YR54	401	1E	5075505	900572				
546	5075505H	900573	XX	14600	9705	94C03	251	11	62210	20BBH	10YR32	401	2E	5075505	900573	4	72	250	
547	5075505H	900574	XX	14600	10120	94C03	651	11	46210	20PBP	75YR44	10	1W	5075505	900574	3	75	88	
548	5075505H	900575	XX	14600	10535	94C03	251	11	62215	25BBH	10YR54	401	1E	5075505	900575	3	82	100	
549	5075505H	900576	XX	14600	10950	94C03	251	11	58210	20BBH	10YR44	401	2E	5075505	900576	3	83	105	
550	5075505H	900577	XX	14600	11365	94C03	252	11	59210	20BBH	10YR54	601	2E	5075505	900577	3	97	96	
551	5075505H	900578	XX	14600	11770	94C03	251	11	61210	20BBH	10YR54	501	4E	5075505	900578	3	98	75	
552	5075505H	900579	XX	14600	12185	94C03	251	11	50210	20BBH	10YR44	30110E		5075505	900579	2	95	77	
553	5075505H	900580	XX	10000	7630	94C03	351	22253210	20BBM2223	10YR44	50	455W	5075505	900580	3	72	50		
554	5075505H	900581	XX	10400	7660	94C03	351	18253210	20BBM2223	10YR44	751455W		5075505	900581	2	30	45		
555	5075505H	900585	XX	12000	7780	94C03	351	182573	0	2	20BBM22435	10YR44	951455W	5075505	900585	3	103	127	
556	5075505H	900586	XX	12400	7800	94C03	351	182603	0	2	TF22435	10YR44	951455E	5075505	900586	4	130	68	
557	5075505H	900587	XX	12800	7800	94C03	351	18254210	20BBM224	10YR44	401305		5075505	900587	3	154	110		
558	5075505H	900588	XX	12800	8200	94C03	351	18254220	30BBM224	75YR44	851455		5075505	900588	4	90	113		
559	5075505H	900589	XX	12800	8600	94C03	351	18252210	20BBM2243	10YR32	601455		5075505	900589	4	105	152		
560	5075505H	900592	XX	12200	8600	94C03	131	182562	0	2	TF22535	10YR44	501	1S	5075505	900592	2	136	70
561	5075505H	900597	XX	11200	8600	94C03	331	18250210	20BBM222	10YR44	50135S		5075505	900597	1	92	50		
562	5075505H	900598	XX	11000	8600	94C03	331	182622	0	2	TF222	10YR43	351405W	5075505	900598	2	180	58	
563	5075505H	900599	XX	10800	8600	94C03	331	18249210	20BBM222	10YR44	501305W		5075505	900599	1	67	60		
564	5075505H	900600	XX	10600	8600	94C03	331	18247210	20BBM222	10YR43	99	305W	5075505	900600	2	52	52		
565	5075505H	900602	XX	10200	8600	94C03	351	18253210	20BBM222	10YR32	501355W		5075505	900602	8	205	54		
566	5075505H	900605	XX	10600	8990	94C03	331	18255210	20BBM222	10YR43	50	35S	5075505	900605	2	57	54		
567	5075505H	900606	XX	10800	9020	94C03	331	18254210	20BBM222	10YR44	701355W		5075505	900606	1	140	59		
568	5075505H	900607	XX	11000	9050	94C03	331	182582	0	2	TF2225	10YR33	355W	5075505	900607	4	282	68	
569	5075505H	900609	XX	11400	9100	94C03	131	182562	5	10BBH	10YR44	601	1E	5075505	900609	4	240	83	
570	5075505H	900610	XX	10200	10430	94C03	231	16	55210	20BBH	10YR43	301	5NE	5075505	900610	6	278	45	
571	5075505H	900611	XX	10400	10460	94C03	231	16	54210	20BBH	10YR43	301	8NE	5075505	900611	2	96	48	
572	5075505H	900612	XX	10600	10490	94C03	251	16	50210	20PBP	75YR44	401	5NE	5075505	900612	2	113	72	
573	5075505H	900613	XX	10800	10520	94C03	251	16	60210	20PBP	50Y	32	401	2NE	5075505	900613	4	220	60
574	5075505H	900614	XX	11000	10550	94C03	251	16	59210	20BBH	10YR44	501	2E	5075505	900614	2	275	75	
575	5075505H	900615	XX	11200	10580	94C03	251	16	53210	20PBP	50Y	32	501	3E	5075505	900615	3	130	62
576	5075505H	900616	XX	11400	10610	94C03	251	16	48210	20BBH	10YR43	501	3N	5075505	900616	3	105	72	
577	5075505H	900617	XX	11600	10640	94C03	251	16	60210	20BBH	10YR44	401	3N	5075505	900617	2	86	55	
578	5075505H	900618	XX	11600	10440	94C03	251	16	65210	20BBH	10YR44	401	3N	5075505	900618	2	212	55	
579	5075505H	900619	XX	11800	10440	94C03	251	16	49210	20BBH	10YR44	401	3N	5075505	900619	1	99	62	
580	5075505H	900620	XX	12000	10440	94C03	231	16	53210	20BBH	10YR44	401	3N	5075505	900620	2	123	75	
581	5075505H	900621	XX	12180	10470	94C03	251	16	56210	20BBH	10YR44	40110E		5075505	900621	2	85	56	
582	5075505H	900622	XX	12360	10500	94C03	251	16	55210	20BBH	10YR44	50110E		5075505	900622	2	90	67	
583	5075505H	900623	XX	12540	10530	94C03	251	16	53210	20BBH	10YR44	40110E		5075505	900623	2	82	60	
584	5075505H	900624	XX	12720	10560	94C03	251	16	59210	20BBH	10YR44	40110E		5075505	900624	4	135	65	
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587	5075505H	900627	XX	13000	10800	94C03	251	16	53210	20BBH	10YR44	401	5E	5075505	900627	3	188	74	
588	5075505H	900628	XX	12800	10800	94C03	251	16	56210	20BBH	10YR43	40115E		5075505	900628	2	62	54	
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591	5075505H	900631	XX	12200	10800	94C03	331	16	63210	20BBH	10YR44	20140E		5075505	900631	2	105	83	
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593	5075505H	900633	XX	11800	10800	94C03	231	16	56210	20BBH	10YR44	301	3N	5075505	900633	3	145	63	
594	5075505H	900634	XX	11600	10800	94C03	231	16	57210	20BBH	10YR44	401	3N	5075505	900634	2	45	48	

595	5075505H	900635	XX	11400	10800	94C03	231	16	53210	20BBM	10YR44	601	3N	5075505	900635	2	70	58		
596	5075505H	900636	XX	11200	10800	94C03	232	16	54210	20BBM	10YR44	151	3S	5075505	900636	4	172	58		
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600	5075505H	900640	XX	10400	10800	94C03	231	16	51210	20BBM	10YR44	601	8SE	5075505	900640	6	470	55		
601	5075505H	900641	XX	10200	10800	94C03	231	16	63210	20BBM	10YR44	751	3SE	5075505	900641	6	300	84		
602	5075505H	900642	XX	10200	9600	94C03	231	16	252310	20BBM222	10YR44	401	3NE	5075505	900642	1	38	50		
603	5075505H	900643	XX	10400	9600	94C03	231	16	264310	20BBM2223	10YR44	401	3NE	5075505	900643	2	135	60		
604	5075505H	900644	XX	10600	9600	94C03	231	16	53210	20BBM	10YR44	401	3NE	5075505	900644	2	220	56		
605	5075505H	900645	XX	10800	9600	94C03	231	16	55210	20BBM	10YR44	401	5N	5075505	900645	2	65	45		
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607	5075505H	900647	XX	11200	9600	94C03	231	16	53210	20BBM	10YR44	501	5N	5075505	900647	2	58	64		
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612	5075505H	870128	XX	12000	9200	94C03	391	118	55	22543		30	3SE	6075505	870128	5	890	28		
613	5075505H	870143	XX	10600	9200	94C03	321	18	593	225	593100	20BBM225	70	30S	6075505	870143	1	320	29	
614	5075505H	870145	XX	10400	9200	94C03	321	18	593	225	593100	20BBM225	60	40SW	6075505	870145	2	142	24	
615	5075505H	870146	XX	10200	9200	94C03	321	18	611	225	593100	20BBM225	60	40S	6075505	870146	2	283	78	
616	5075505H	890487	XX	9400	9200	94C03	321	19	567000	10RTP	10YR44	60160N			5075505	890487	5	450	60	
617	5075505H	890489	XX	9000	9200	94C03	321	19	627000	15RTP	10YR44	60150N			6075505	890489	4	650	82	
618	5075505H	890515	XX	9200	9600	94C03	321	18	63	22212	10YR44	70130S			6075505	890515	7	2400	40	
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620	5075505H	890585	XX	10000	9000	94C03	321	16	603050	10BBM	10YR44	60140S			6075505	890585	3	340	49	
621	5075505H	900468	XX	8640	10400	94C03	331	18	1622	0	5	TP	14	10YR44	95140W	4	1300	24		
622	5075505H	900535	XX	10160	12000	94C03	331	18	2522	0	5	TP22534	10YR44	99135E	6075505	900535	3	260	50	
623	5075505H	900536	XX	10320	12000	94C03	331	18	2502	0	5	TP22534	10YR44	99135E	6075505	900536	2	170	53	
624	5075505H	900582	XX	10800	7690	94C03	331	18	2593	0	2	RTP2223	10YR44	15130S	6075505	900582	2	62	56	
625	5075505H	900583	XX	11200	7720	94C03	331	18	2593	0	2	TP2223	10YR44	40145SE	6075505	900583	3	156	85	
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628	5075505H	900591	XX	12400	8600	94C03	331	18	2513	0	2	2243	10YR44	45S	6075505	900591	2	58	74	
629	5075505H	900593	XX	12000	8600	94C03	331	18	2582	0	2	TP22435	10YR54	50130SW	6075505	900593	4	195	115	
630	5075505H	900594	XX	11800	8600	94C03	331	18	2562	0	2	TP123	10YR54	50130S	6075505	900594	5	122	95	
631	5075505H	900595	XX	11600	8600	94C03	331	18	2572	0	2	TP123	10YR44	50145SW	6075505	900595	2	105	55	
632	5075505H	900596	XX	11400	8600	94C03	331	18	2562	0	2	TP22495	10YR32	90145S	6075505	900596	3	100	54	
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634	5075505H	900603	XX	10200	8930	94C03	331	18	2602	0	2	TP222	10YR43	50135S	6075505	900603	5	295	70	
635	5075505H	900604	XX	10400	8960	94C03	331	18	2582	0	2	TP222	10YR43	50135S	6075505	900604	4	160	66	
636	5075505H	900608	XX	11200	9080	94C03	331	18	2572	0	2	TP2225	10YR44	60115S	6075505	900608	3	235	105	
637	5075505H	900537	XX	10480	12000	94C03	431	18	2492	0	5	BBM22534	10YR43	95130E	6175505	900537	2	75	52	

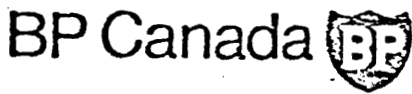
END OF FILE
T=0.28 DR=0 \$.72, \$1.92T

SCOP *SKIP

A P P E N D I X

Trace metal content (ppm) in rock chip samples, CAT claims

Sample Number	Mo	Cu	Pb	Zn	Au(ppb)
870298	800	7000	37	56	80
870301	2	278	24	12	20
870302	6	10000	20	48	120



BP Minerals Limited

1199 West Pender Street, Vancouver, B.C. V6E 2R1 • Telephone (604) 682-8345

31 May, 1976

Mining Recorder
Box 340
Smithers
B.C.
VOJ 2N0

Re: CAT claims - Osilinka River
Omineca Mining Division

Dear Sir,

Following conversation with E.J. Bowles, Chief Gold Commissioner, we wish to apply a total of \$11,958.20 rather than \$14,029.38 as previously requested in the "affidavit on application to record work" which was filed with the Vancouver sub-mining recorder on April 2, 1976 (MR#101993E).

We request that the amount be applied as follows:

CAT #1 - 28 years - 14 units		
(2 years per unit)		\$ 5,600
CAT #2 - 28 years - 14 units		
(2 years per unit)		<u>5,600</u>
		\$11,200

and that a credit of \$758.20 be carried forward.

The breakdown of this amount is itemized in the "statement of costs" (Appendix 2) in the enclosed assessment reports on the CAT mineral claims.

A copy of the original affidavit with the modified amounts is also enclosed.

Yours sincerely,

C.D.S. Bates

Canada Post / Postes Canada

Registration / Récépissé de recommandation

No. 015

To: Mining Recorder
C.D.S. Bates

Post Office: Smithers B.C.

Destination	Up to	Initials	Time
Canada, United States, Etats-Unis, les Territoires et Possessions, leurs possessions.	\$50		
	\$100		
	\$200		

Other Countries / Les autres pays: 44.60

Equivalent to 40* gold francs / Equivalent à 40* francs-or

Post Station / Centre de poste: Smithers B.C.

17 VI 1976

Postal regulations provide that indemnity will not be paid for damage to articles of a fragile or perishable nature. This receipt is necessary if enquiry is desired. / Règlement des Postes prévoit que l'indemnité ne sera pas payée pour l'avarie d'un objet fragile ou périssable. A procurer en cas de réclamation.

I wish to apply \$ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

C. PROSPECTING

(Details as per report submitted)

COST

I wish to apply \$ _____ of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

D. GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL (Includes line cutting)
(State type of work)

	COST
Geological, Geochemical & Magnetometer Surveys & Support Costs ✓	6,040.60
Geophysics: IP - 4 line-miles, Aeromagnetometer - 68 line-miles	(3,800.58) 1727.80
Grid Preparation - 6 line-miles ✓	870.00
Orthophoto (McElhanney) ✓	448.00
Sample Analysis (Vangeochem)	(1,658.80) 1610.00
Report Preparation, Rental Costs	(1,211.40) 1201.40
<i>Report to follow in 4 weeks.</i>	TOTAL (14,029.38) (11,358.20)

I wish to apply \$ ^{11,200.00} (14,000.00) of this work to the claims listed below.
(State number of years to be applied to each claim and its month of record)

Apply ²⁸(42) years to CAT 1; ³(3) years to each unit (14 units)

Apply 28 years to CAT 2; 2 years to each unit (14 units)

with credit of \$758.20 to be carried forward.

Month of Record: CAT 1 - April, CAT 2 - April

NOTE—Dollar value of work done under A, B, C, or D sections, totalling \$200, may be applied as one year's work.

Who paid for the above-described work?

Name BP Minerals Limited

Address #405-1199 West Pender Street

Vancouver, B.C. V6E 2R1

If you intend to claim a refund of cash in lieu under the provisions of the Mineral Act, you must make application on this affidavit under A, B, C, or D sections as applicable.

4. That I have not and will not use the work declared herein in any way for the purposes of obtaining tax exemption on a Crown-granted mineral claim under the terms of the Taxation Act.

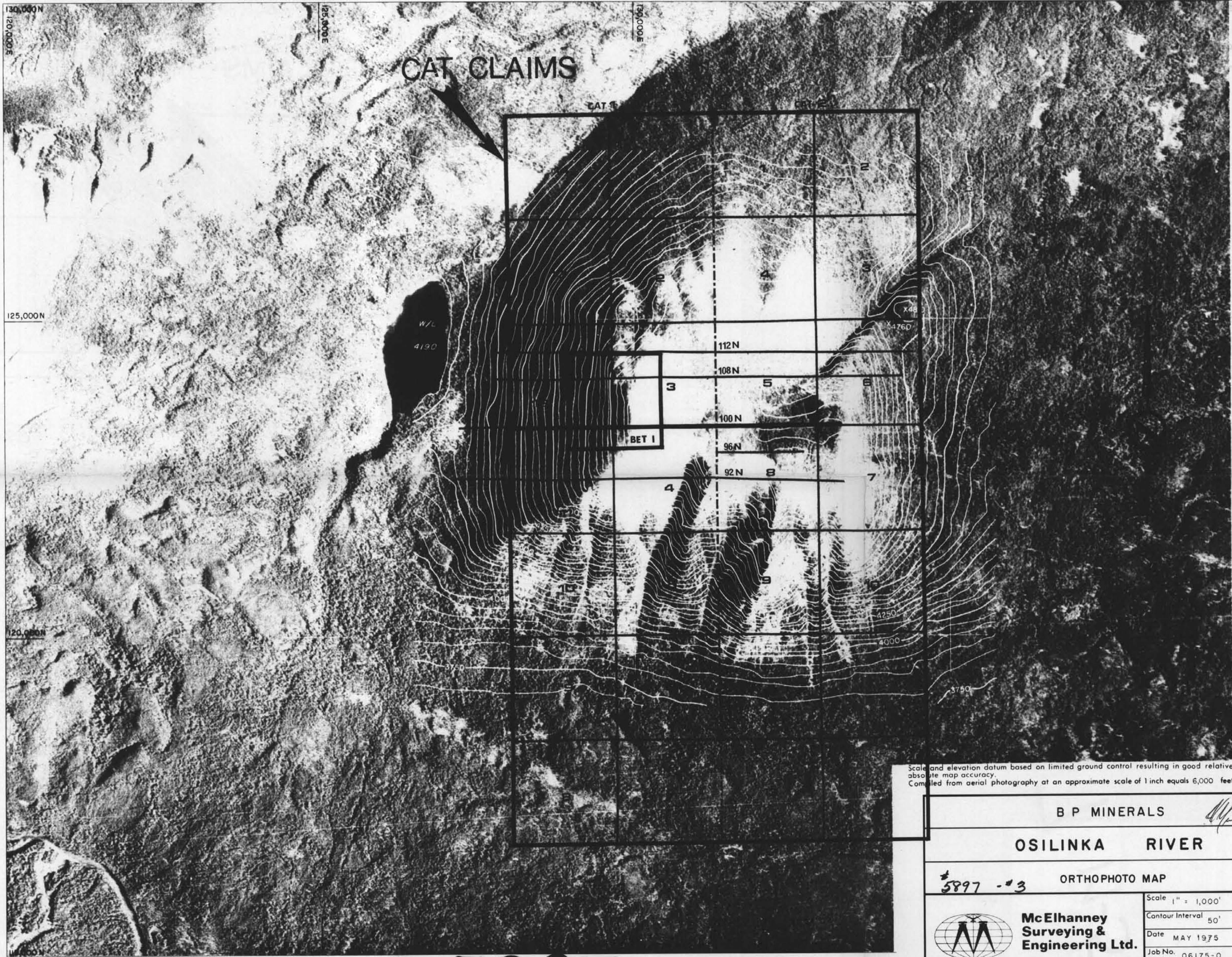
SWORN and subscribed to at VANCOUVER, B. C.
this _____ day of _____

19 _____ before me— APR 2 1976


• *John D. [Signature]*
Sub-Mining Recorder

Russell H. [Signature]

* This affidavit may be taken by a person empowered to take affidavits by the Evidence Act of British Columbia.



Scale and elevation datum based on limited ground control resulting in good relative, but uncertain absolute map accuracy.
 Compiled from aerial photography at an approximate scale of 1 inch equals 6,000 feet flown in 1971

B P MINERALS <i>W/S 85</i>	
OSILINKA RIVER	
#5897 - #3	ORTHOPHOTO MAP Fig. 3
 McElhanney Surveying & Engineering Ltd. 1200 West Pender Street, Vancouver B.C. Canada	Scale 1" = 1,000'
	Contour Interval 50'
	Date MAY 1975
	Job No. 06175-0
	Sheet No. 1 OF 1

5897 M-3



LEGEND

INTRUSIVE ROCKS
Jurassic or Older (Hogem?)

- 8 Fine grained granite, minor quartz monzonite
- 7 Syenite porphyry - minor alteration
- 6 Syenite porphyry - mod - strongly metasomatized
- 5 Hornblende diorite - altered in west

VOLCANIC ROCKS
Upper Triassic (Takla)

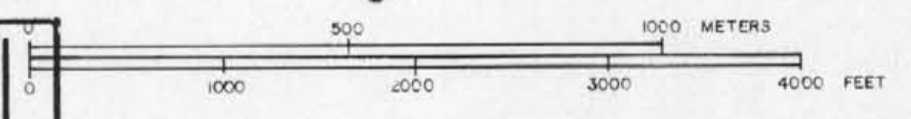
- 4 Augite andesalt porphyry
- 3 Andesitic ash tuff
- 2 Andesitic lacilli tuff and minor breccia
- 1 Andesaltic agglomerate

SYMBOLS

- Fault
- Joint strike and dip
- Strike of vertical joint
- Tension fracture strike and dip, vertical
- Vein or dyke
- Shear zone showing dip
- Outcrop area
- Contact observed, inferred, gradational
- Diamond drill hole
- Geodetic survey monument
- Bedrock sample number
- Magnetite, Pyrite

NOTES: **A** Sp He as fracture fill and knots and vugs in narrow shear zone also Ma, cp, bc - cc (minor) in quartz-calcite veins/numerous in area.
B Au with minor cp in 1" wide Mt-quartz vein Grades up to 16 oz Au/ton.

5897 M-4
SCALE

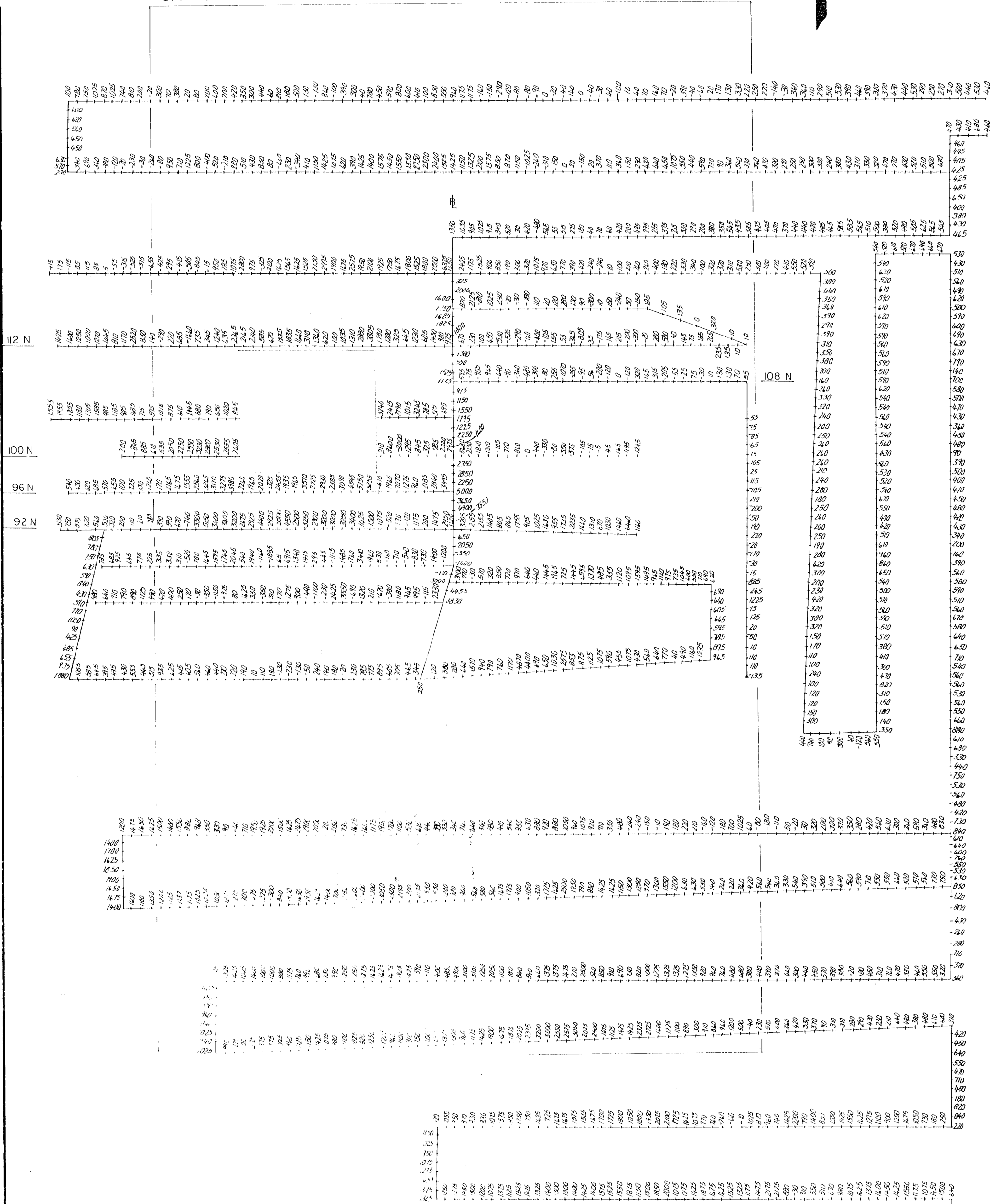


Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 5897 MAP # 4	BP Minerals Limited	
	GEOLOGY CAT CLAIMS OSILINKA RIVER PROPERTY	
SCALE 1" = 1000'	NTS 94 C-3	FIG. 4
DRAWN 76-1	DATE FEB., 1976	PROJ. 505
To accompany report:		

P82



CAT CLAIMS

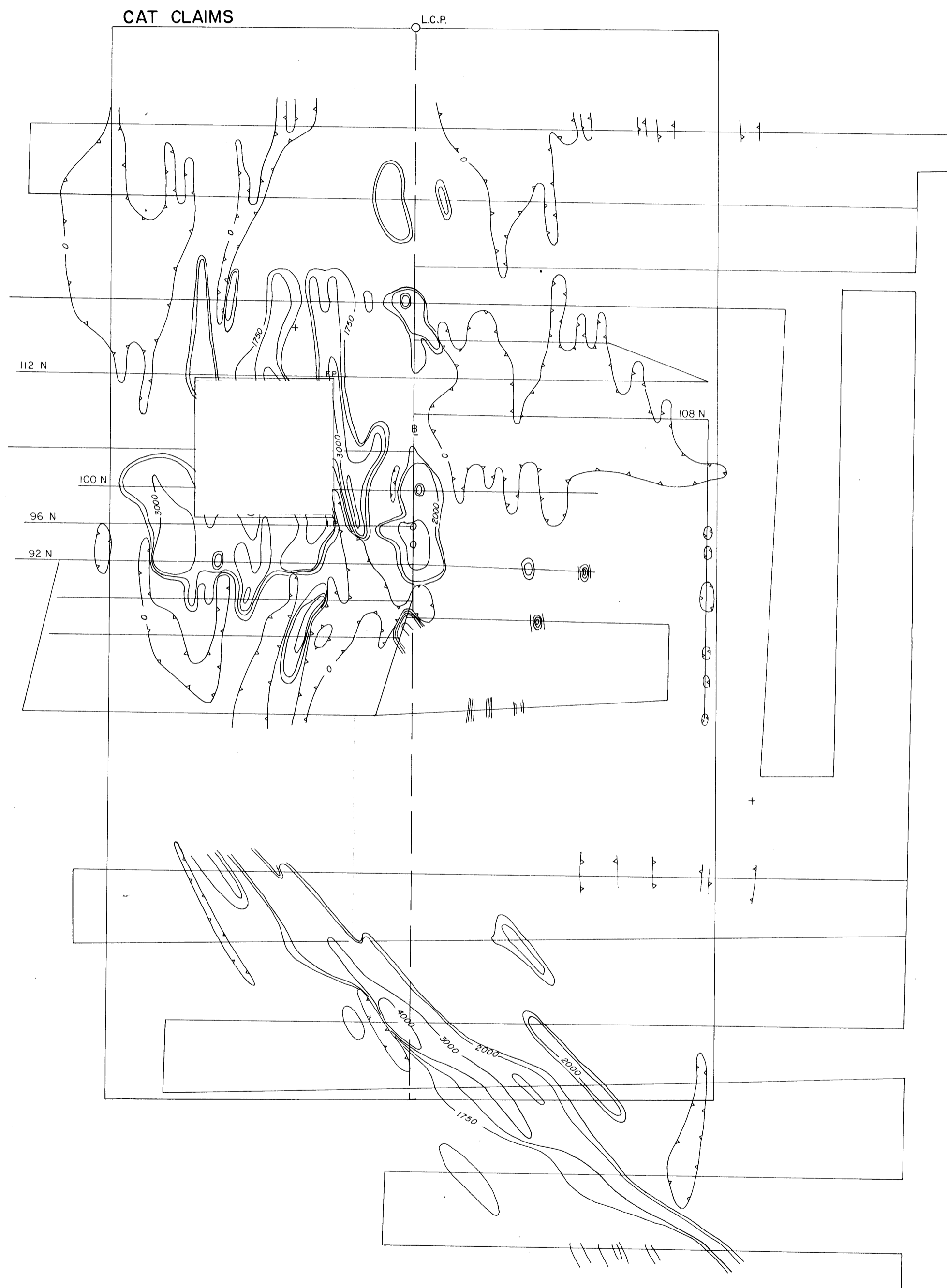


Readings in gammas.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. **5897** MAP # **5**

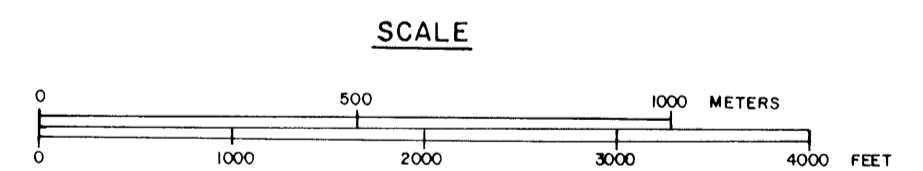
5897 M-5

BP Minerals Limited		<i>M. S. P.</i>	
GROUND MAGNETOMETER SURVEY			
CAT CLAIMS			
OSILINKA RIVER PROPERTY			
SCALE	1" = 1000'	NTS	94 C - 3
DRAWN	76-3	DATE	FEB., 1976
To accompany report:		PROJ.	505
		FIG. 5	



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5897 MAP # 6

Readings in gammas.



BP Minerals Limited *[Signature]*

**GROUND MAGNETOMETER SURVEY
CONTOUR MAP**

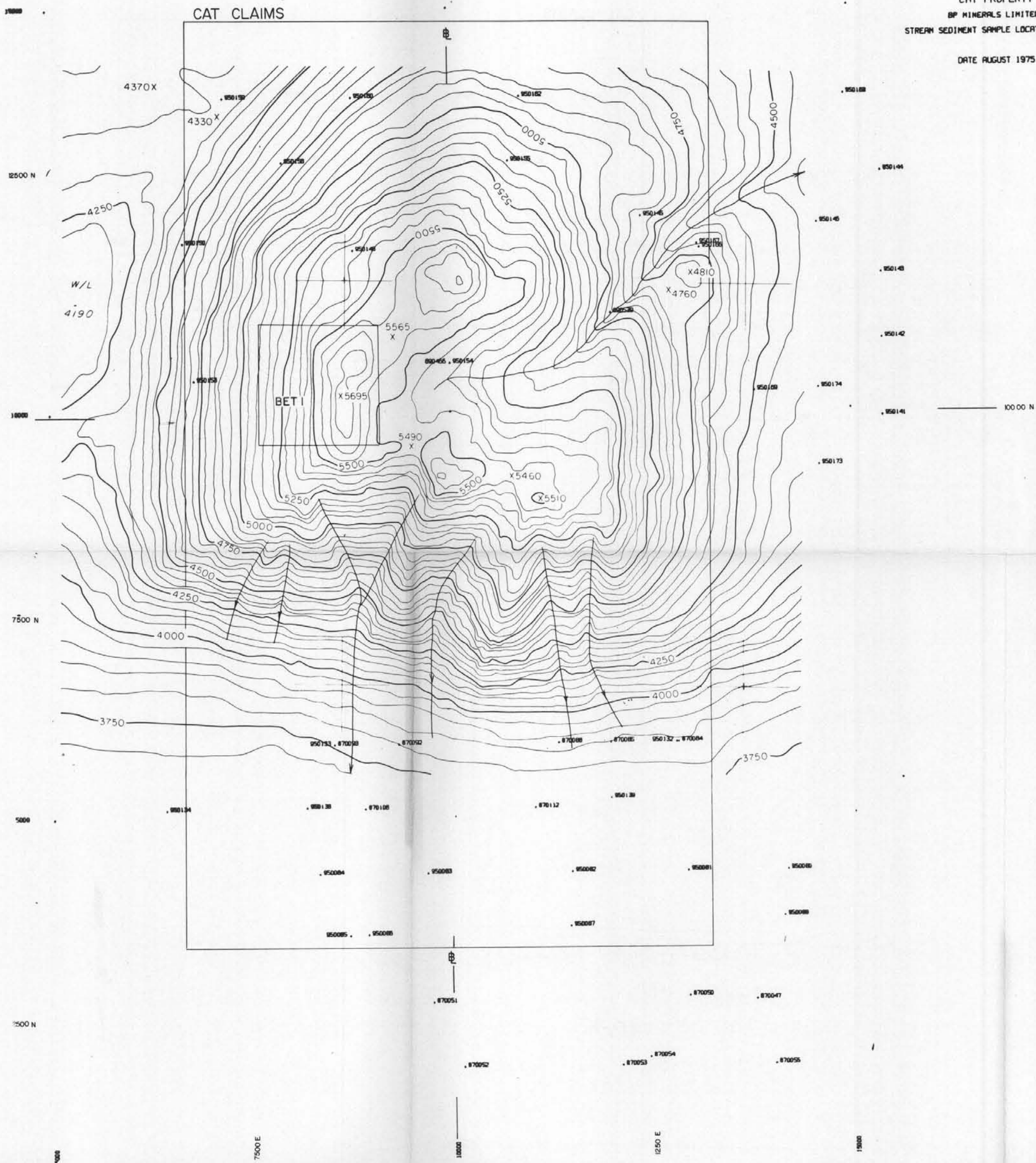
**CAT CLAIMS
OSILINKA RIVER PROPERTY**

SCALE 1" = 1000'	NTS 94C-3	FIG. 6
DRAWN 76-4	DATE FEB., 1976	
To accompany report:		PROJ. 505

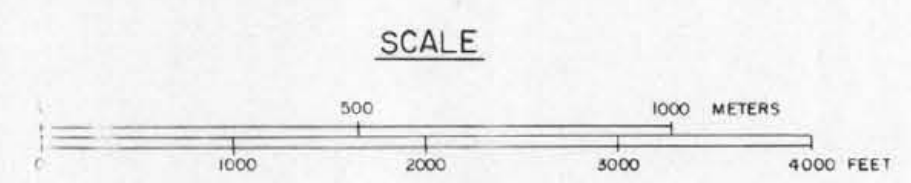
CAT CLAIMS

CAT PROPERTY
 BP MINERALS LIMITED
 STREAM SEDIMENT SAMPLE LOCATIONS

DATE AUGUST 1975



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP # 7



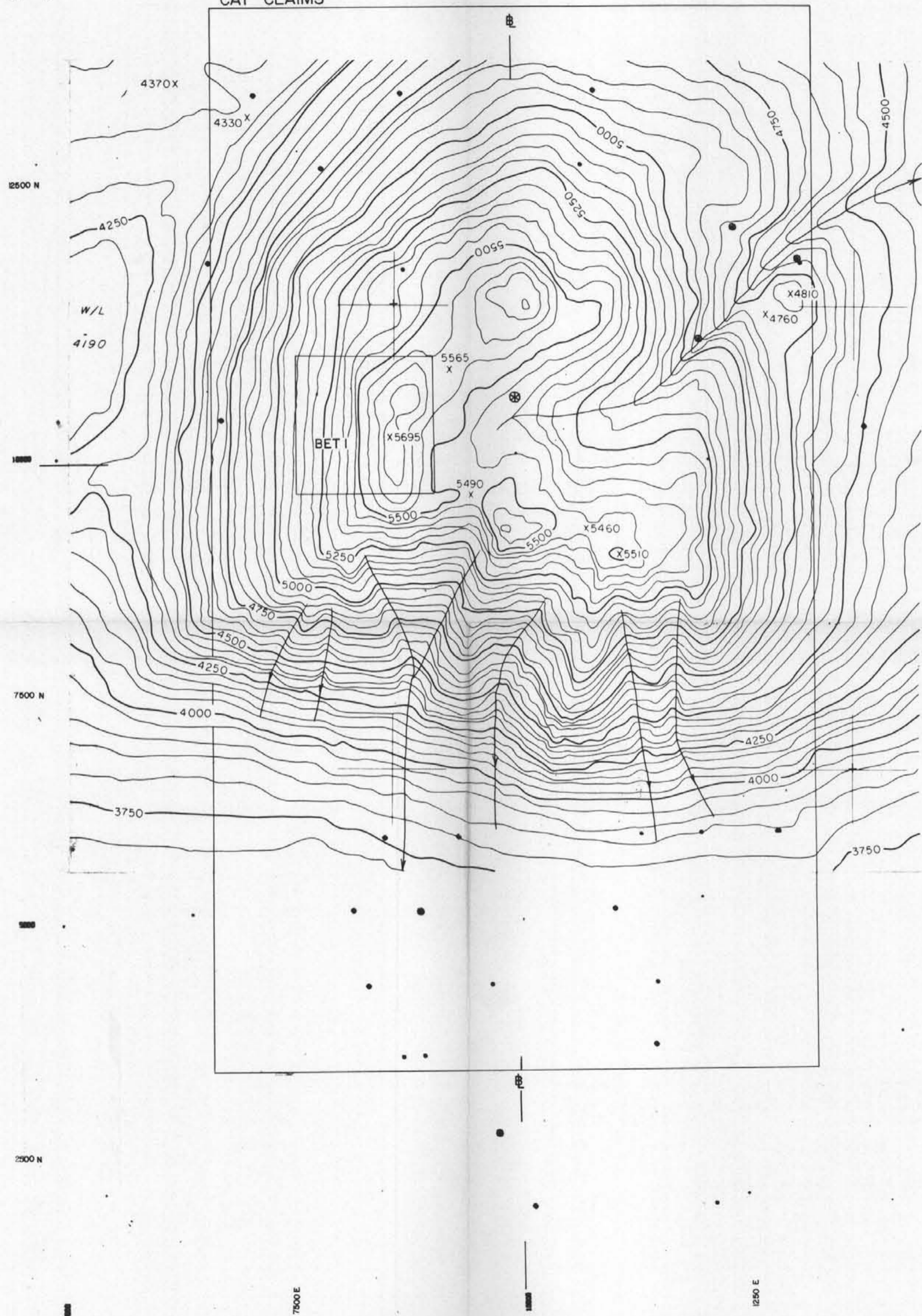
BP Minerals Limited *SAHST PJ*

**STREAM SEDIMENT
 SAMPLE LOCATIONS**

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG 7A
DRAWN 76-5	DATE FER., 1976	
To accompany report		PROJ 505

CAT CLAIMS



CAT PROPERTY
 BP MINERALS LIMITED
 COPPER IN STREAM SEDIMENT (100:20)

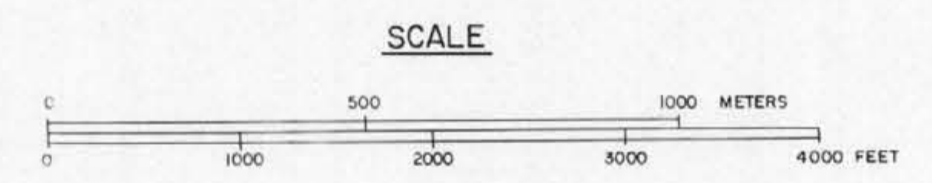
DATE AUGUST 1975

- <38.4
- 38.4-77.0
- 77.0-154
- 154-308
- 308-618
- 618-1230
- >1230



10000 N

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP #8



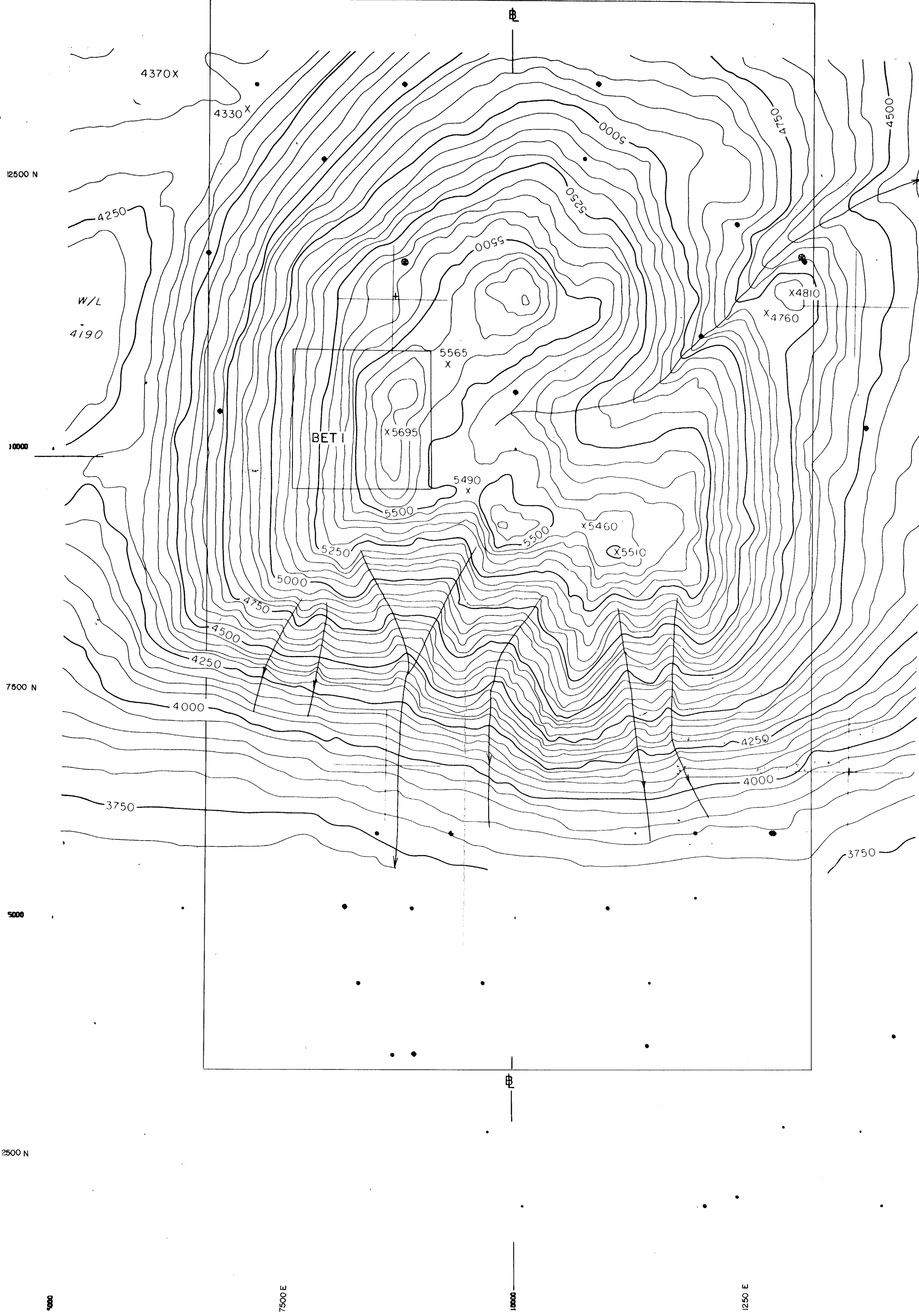
BP Minerals Limited *[Signature]*

**COPPER IN
 STREAM SEDIMENT**

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE	1" = 1000'	NTS	94C-3	FIG 7B
DRAWN	76-6	DATE	FEB., 1976	
To accompany report:		PROJ.	505	

CAT CLAIMS



CAT PROPERTY
 BP MINERALS LIMITED
 ZINC IN STREAM SEDIMENT (10+20)

DATE AUGUST 1975

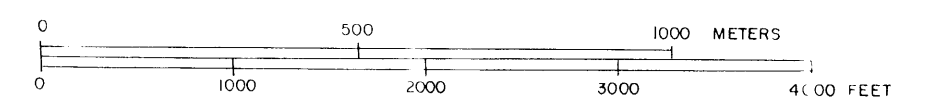
- <13.8
- 13.8-23.5
- 23.5-40.0
- 40.0-68.1
- 68.1-115
- 115-231
- >231



10000 N

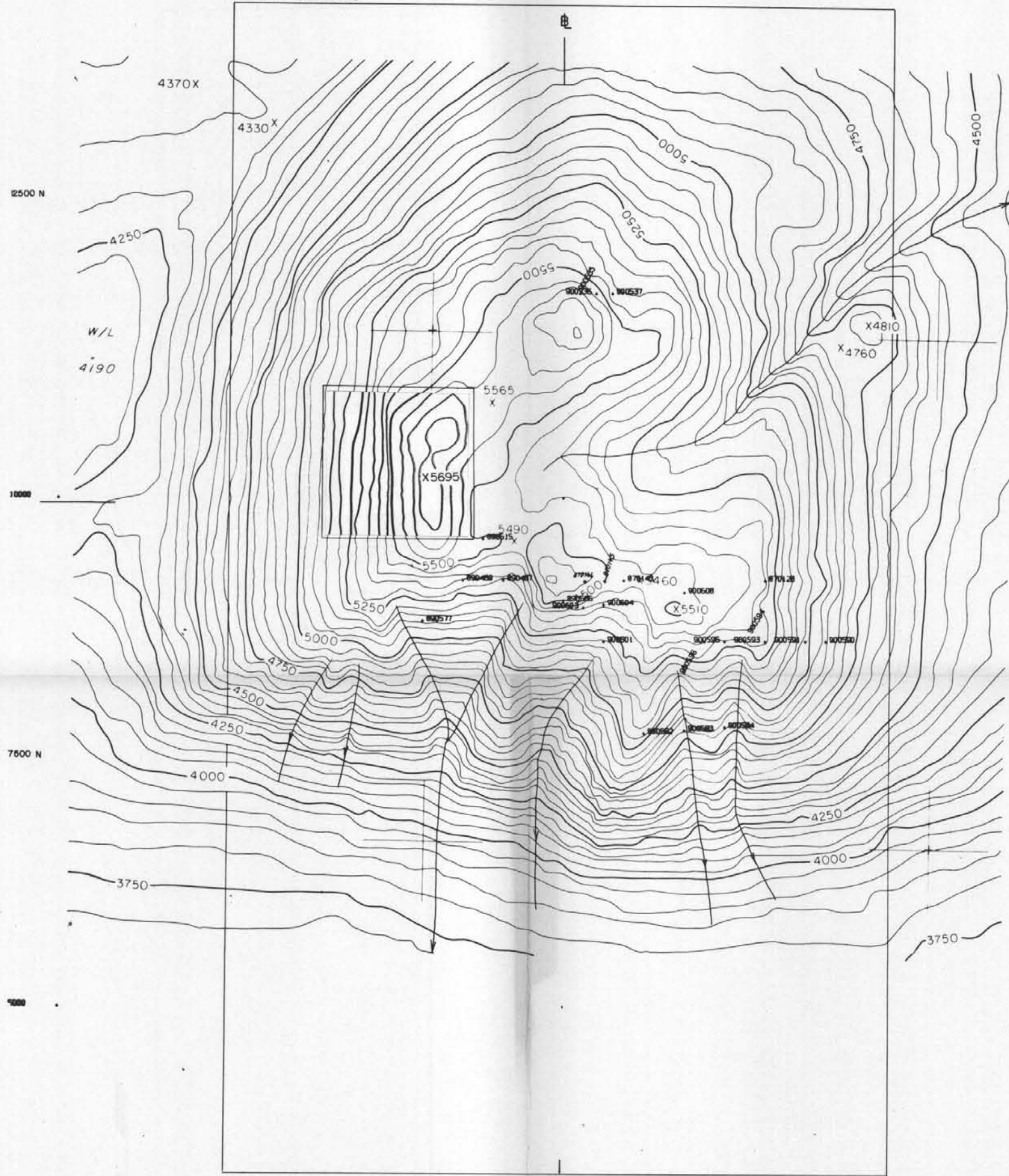
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP # 9

SCALE



BP Minerals Limited <i>albert</i>			
ZINC IN STREAM SEDIMENT CAT CLAIMS OSILINKA RIVER PROPERTY			
SCALE	1" = 1000'	NTS	94C-3
DRAWN	76-7	DATE	FEB., 1976
		PROJ.	505
			FIG 7C
To accompany report:			

CAT CLAIMS



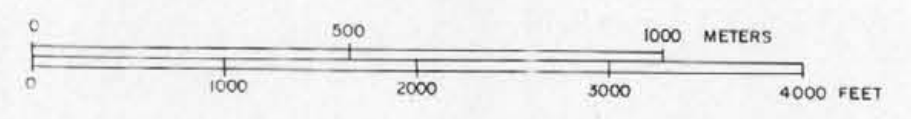
CAT PROPERTY
 BP MINERALS LIMITED
 TALUS SAMPLE LOCATION (60+61+62)
 DATE AUGUST 1975



10000 N

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP # 10

SCALE



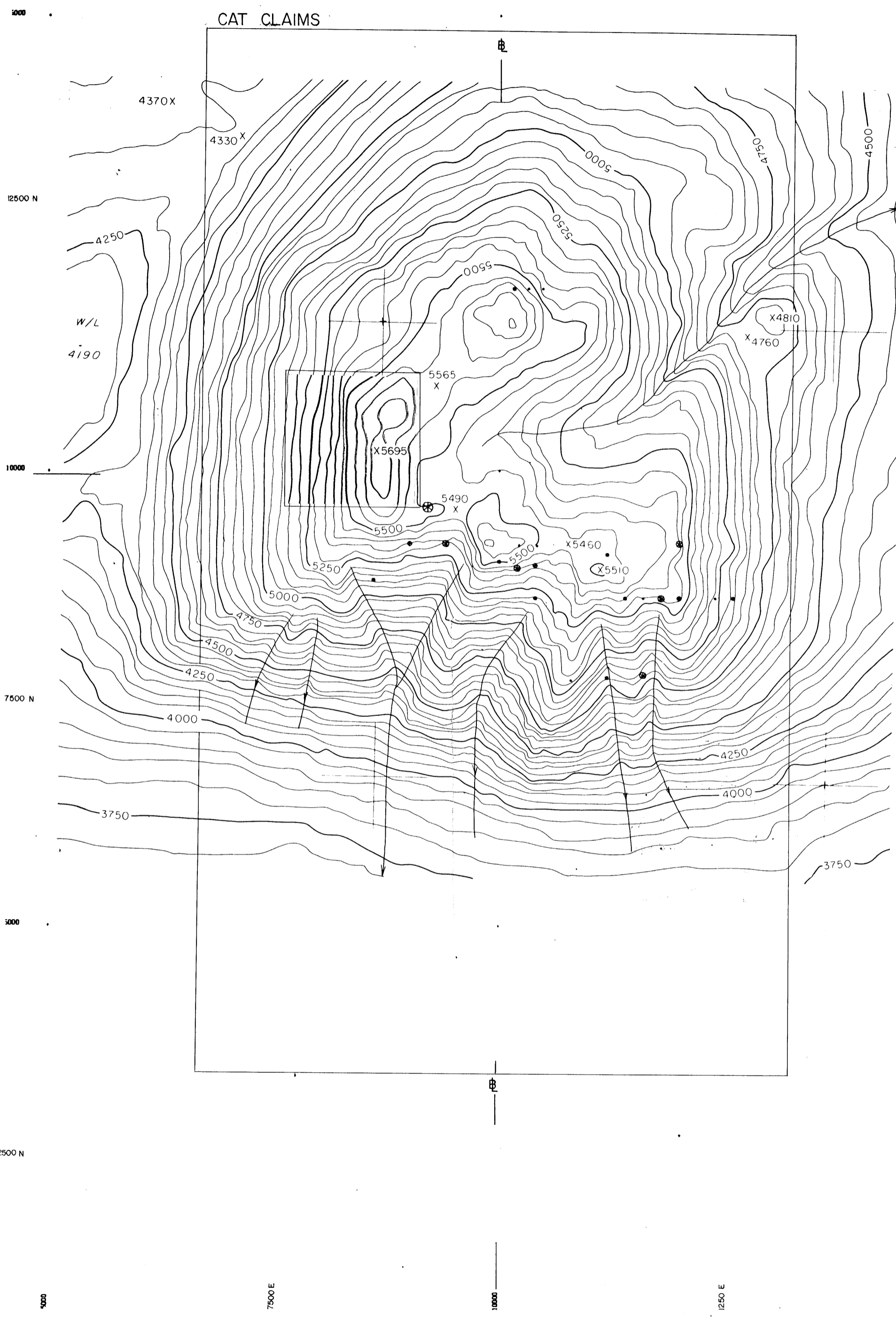
BP BP Minerals Limited *AM/PS/P3*

TALUS SAMPLE LOCATIONS

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE	1" = 1000'	NTS	94C-3	FIG 8A	
DRAWN	76-8	DATE	FEB., 1976	PROJ	505

To accompany report:



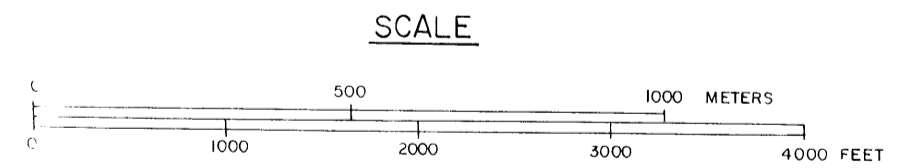
CAT PROPERTY
 BP MINERALS LIMITED
 MOLYBDENUM IN TALUS FINES (60-100µ) (62)
 DATE AUGUST 1975

- <1.62
- 1.62-2.32
- 2.32-3.34
- 3.34-4.81
- 4.81-6.91
- 6.91-13.8
- >13.8



10000 N

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP #11

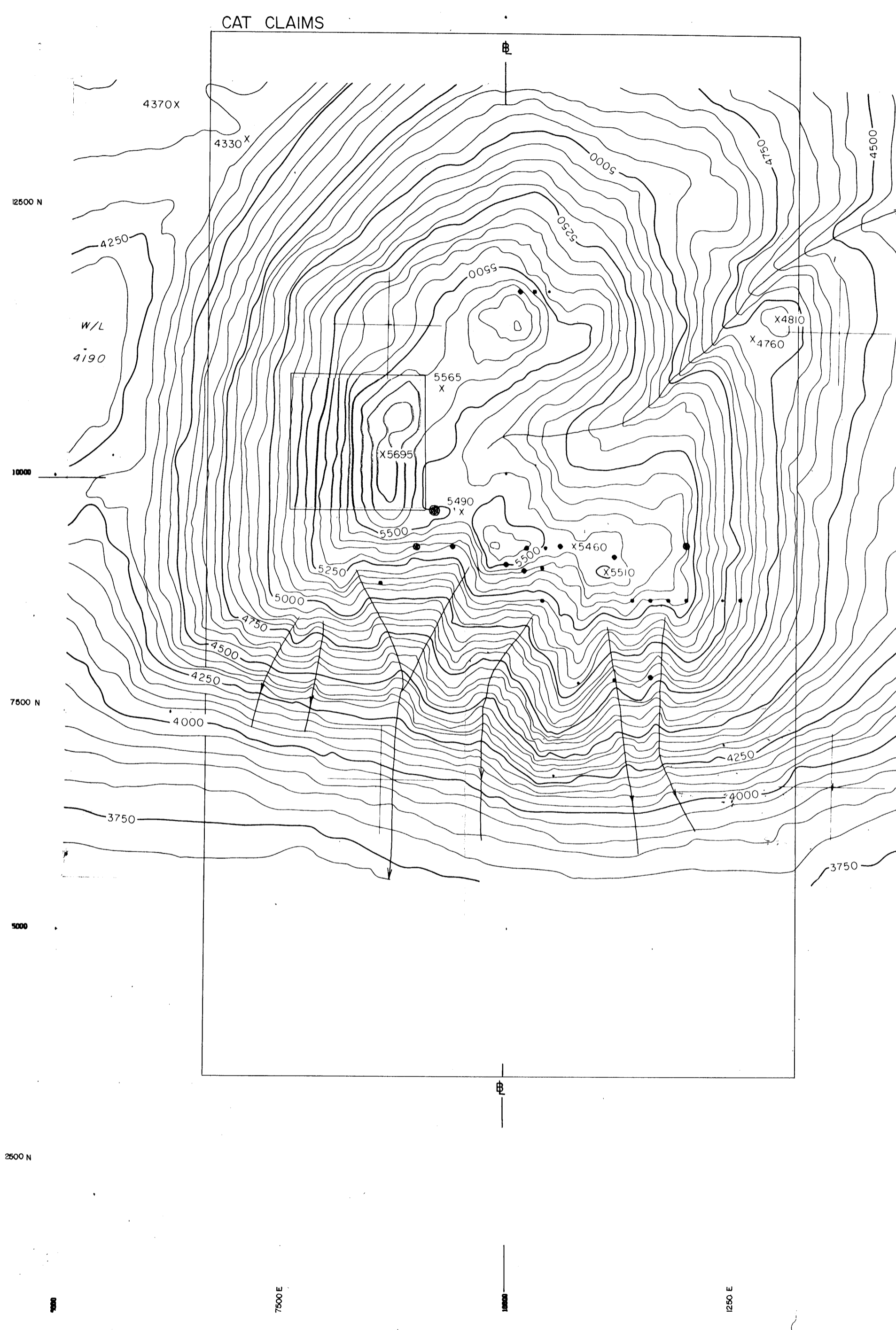


BP Minerals Limited *Adapt 13*

MOLYBDENUM IN TALUS

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG 8 B
DRAWN 76-9	DATE FEB., 1976	
To accompany report:		PROJ. 505



CAT PROPERTY
 BP MINERALS LIMITED
 COPPER IN TALUS FINES (60-62)

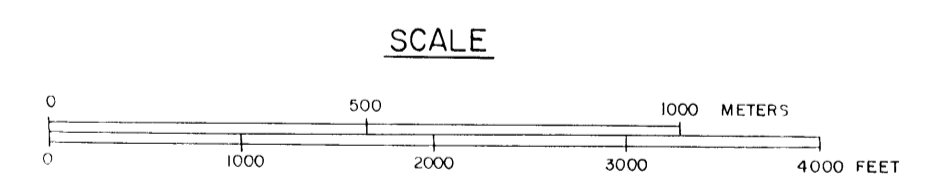
DATE AUGUST 1975

- <41.3
- 41.3-92.3
- 92.3-206
- 206-460
- 460-1020
- 1020-2050
- >2050



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 Mines and Petroleum Resources
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 NO. 5897 MAP #12



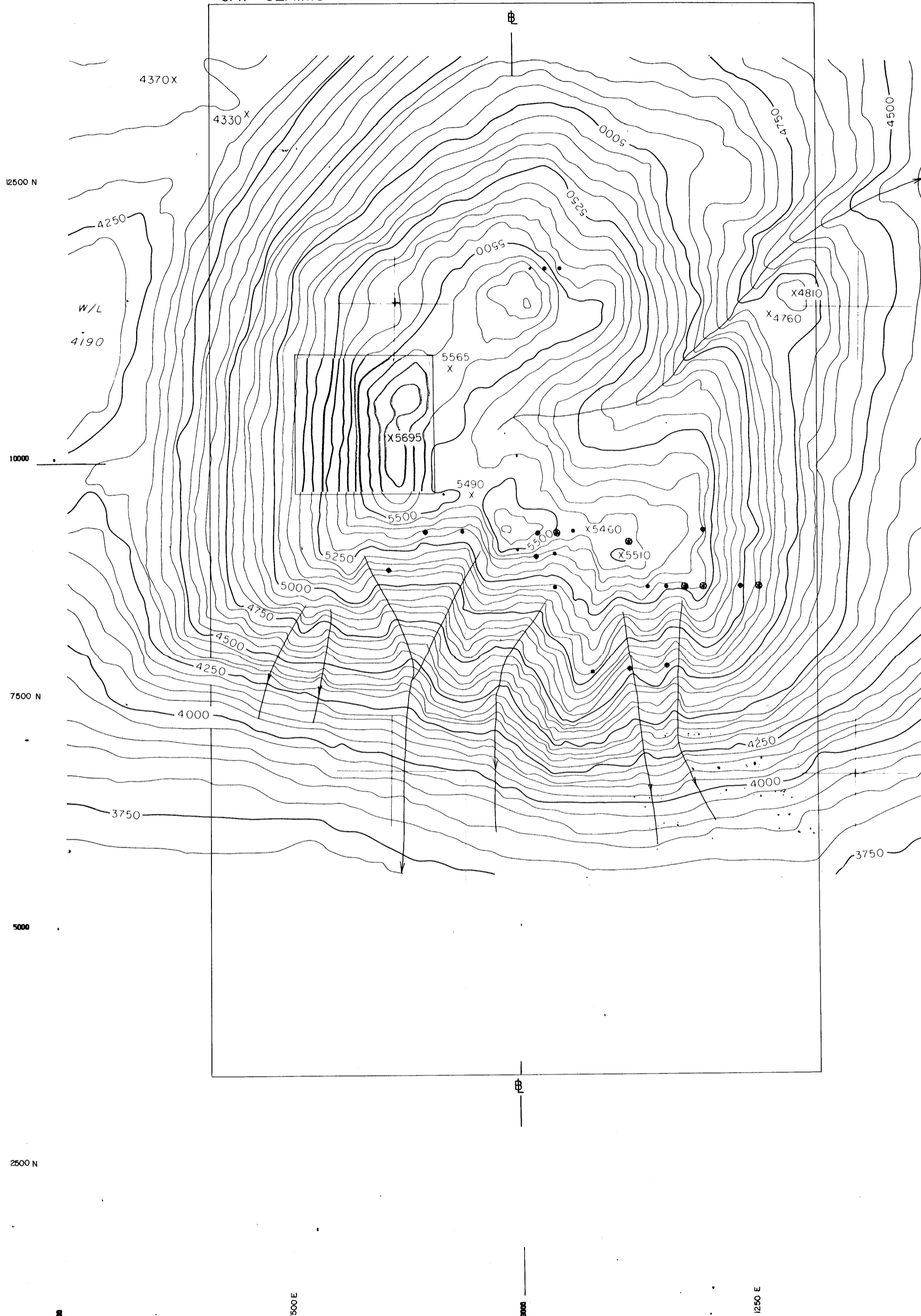
BP Minerals Limited *W. Post 13*

COPPER IN TALUS

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE	1" = 1000'	NTS	94C-3	FIG. 8 C
DRAWN	76-10	DATE	FEB., 1976	
To accompany report:		PROJ.	505	

CAT CLAIMS



CAT PROPERTY
 BP MINERALS LIMITED
 ZINC IN TALUS FINES (60+61+62)

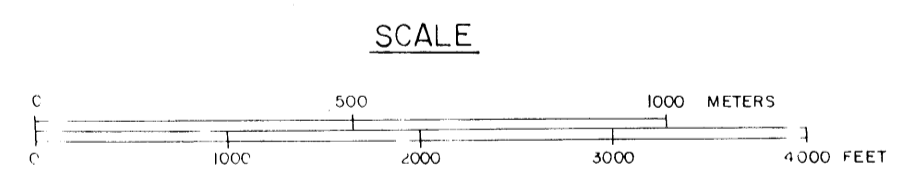
DATE AUGUST 1975

- <37.6
- 37.6-50.2
- 50.2-67.1
- 67.1-89.6
- 89.6-119
- 119-239
- >239

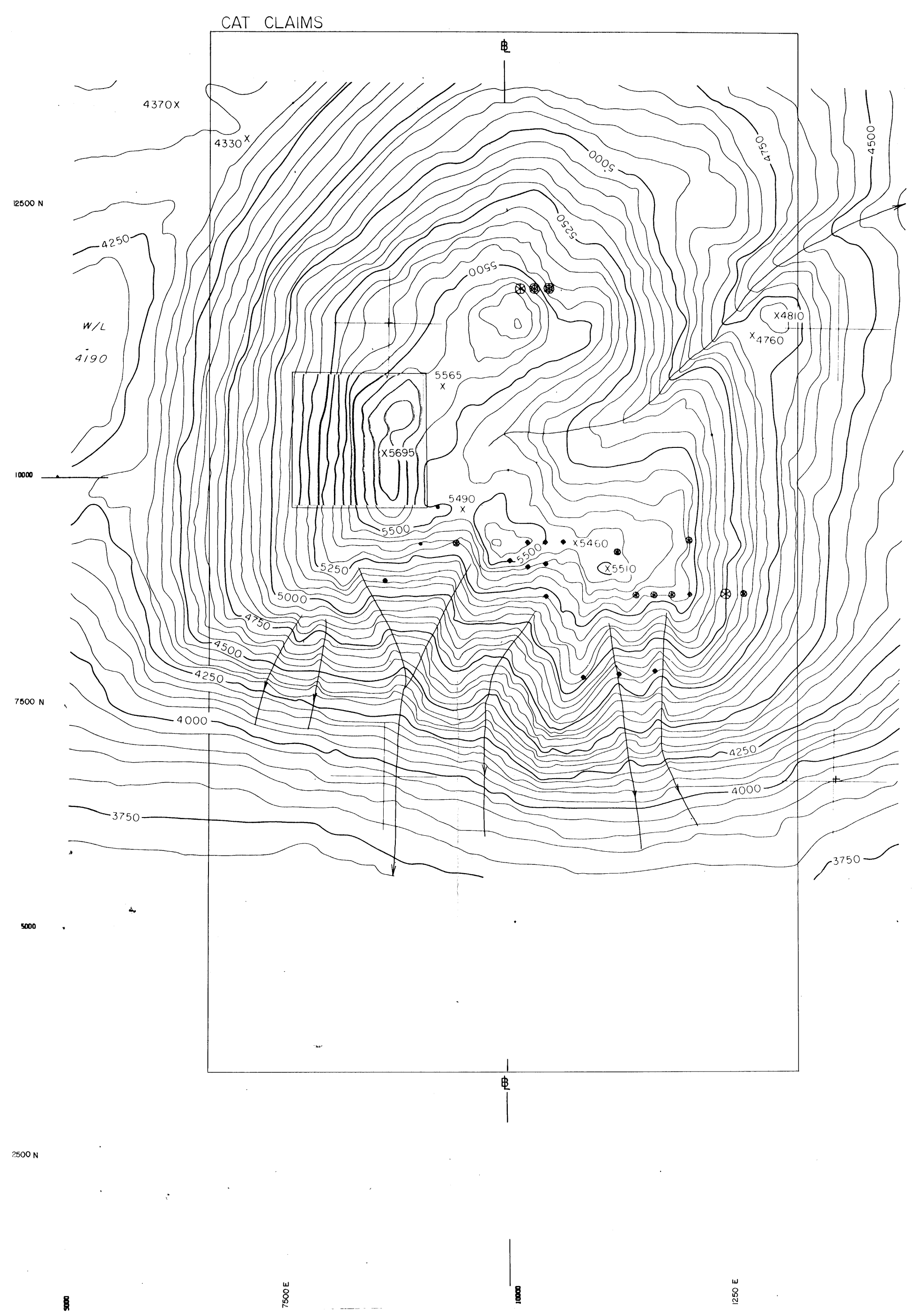


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Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5897 MAP # 13



BP Minerals Limited <i>M/S 13</i>			
ZINC IN TALUS CAT CLAIMS OSILINKA RIVER PROPERTY			
SCALE	1" = 1000'	NTS	94C-3
DRAWN	76-11	DATE	FEB., 1976
		PROJ.	505
To accompany report:			
		FIG	8 D



CAT PROPERTY
 BP MINERALS LIMITED
 PH OF TALUS FINES

DATE AUGUST 1975
 LEGEND

- <50
- 50 -53
- 53 -57
- 57 -61
- 61 -64
- 64 -69
- >69

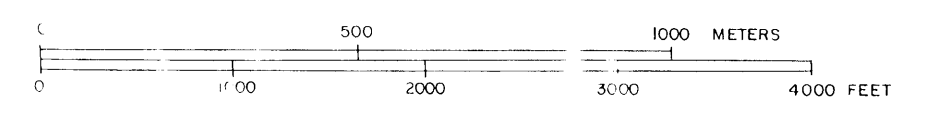


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**Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT**

NO. 5897 MAP # 14

SCALE

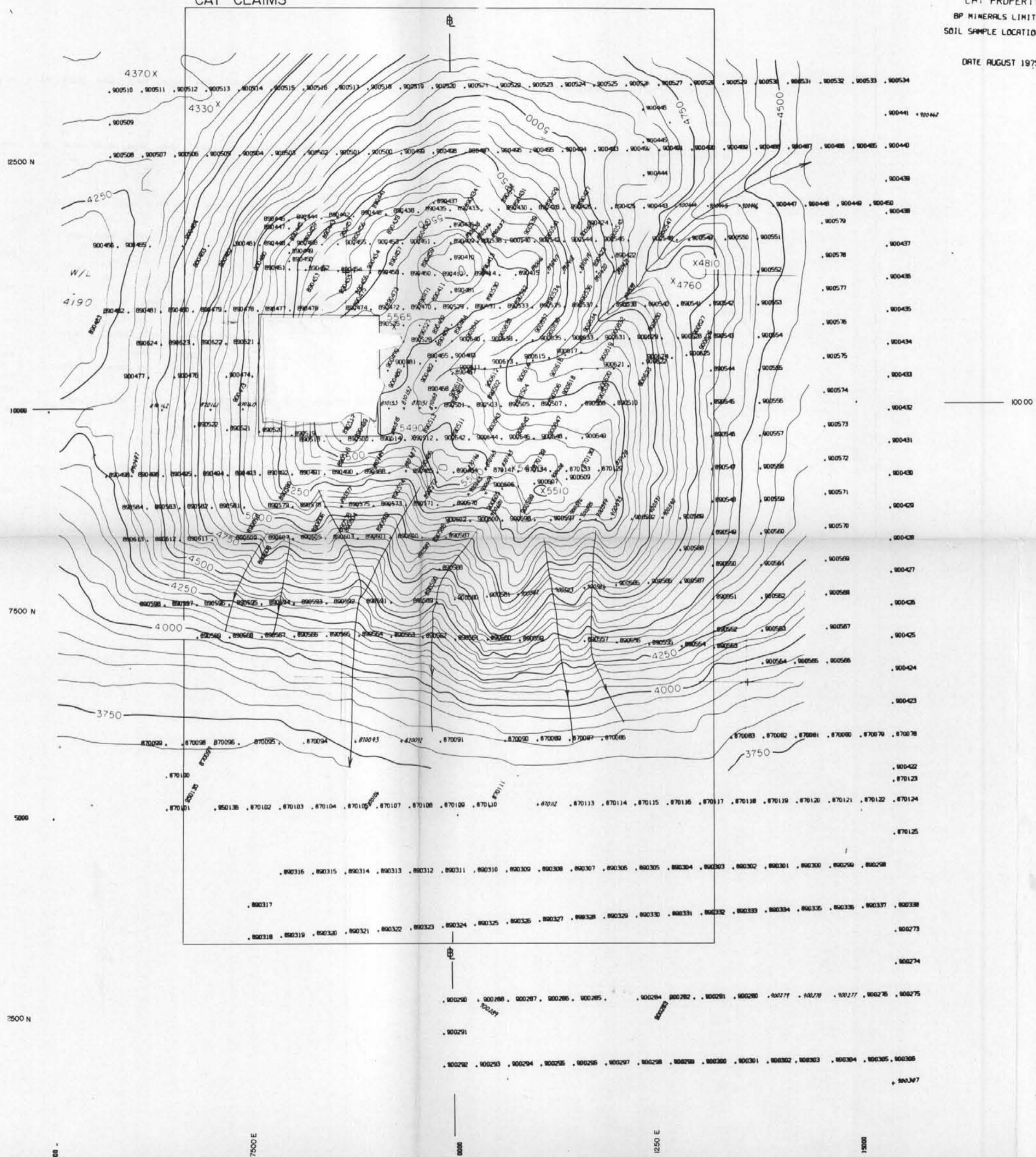


BP Minerals Limited <i>W. S. P.</i>		
<p>pH IN TALUS</p> <p>CAT CLAIMS OSILINKA RIVER PROPERTY</p>		
SCALE 1" = 1000'	NTS 94C-3	FIG. 8 E
DRAWN 76-12	DATE FEB., 1976	PROJ. 505
To accompany report:		

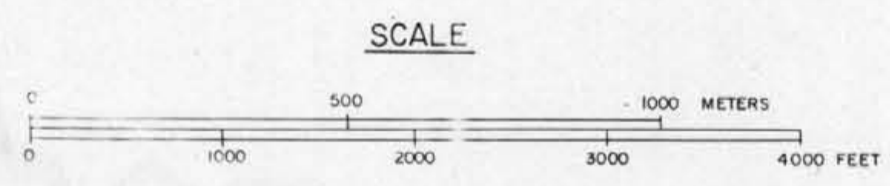
CAT CLAIMS

CAT PROPERTY
BP MINERALS LIMITED
SOIL SAMPLE LOCATION (5897)

DATE AUGUST 1975



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5897 MAP 15

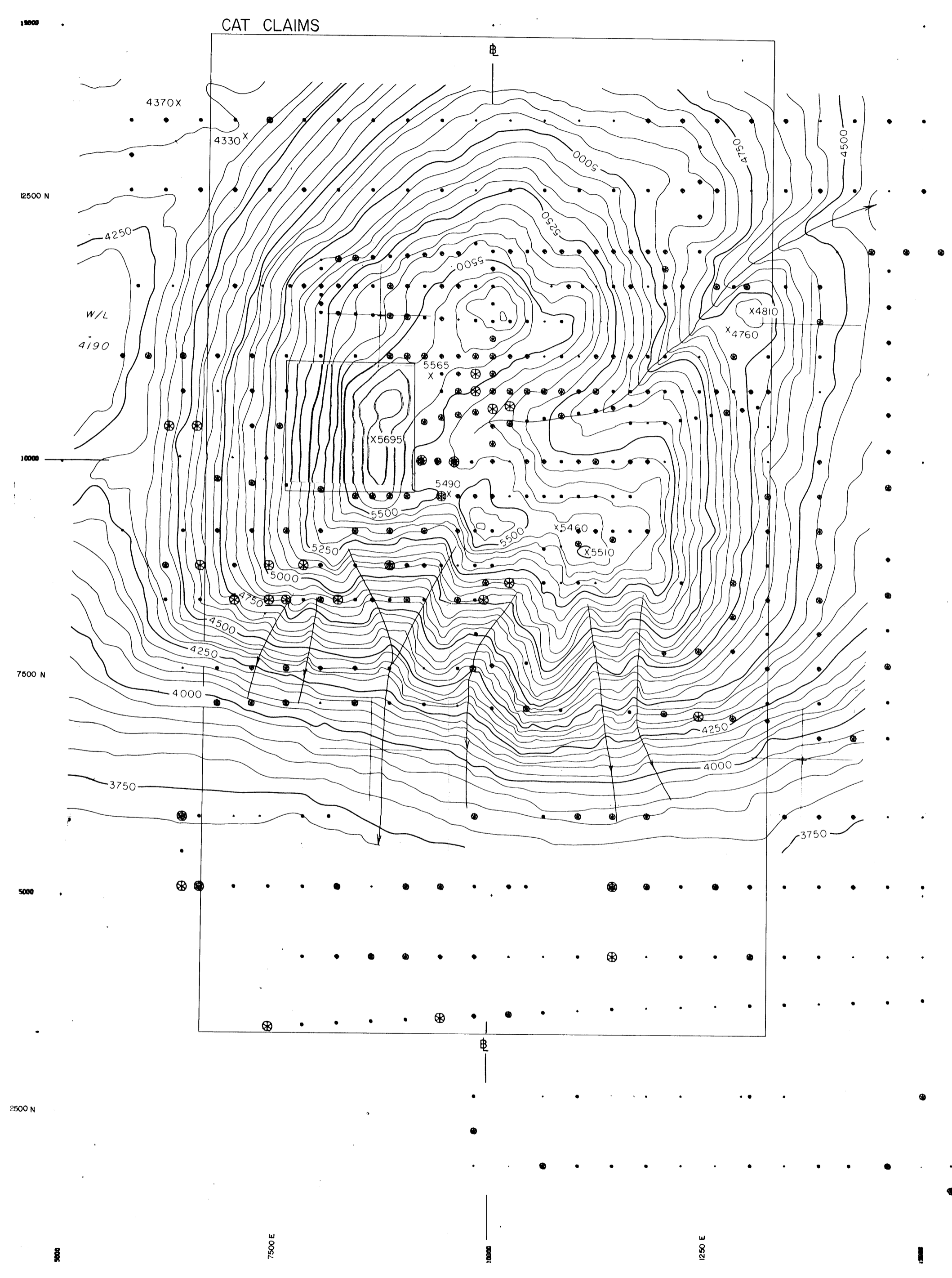


BP Minerals Limited *[Signature]*

SOIL SAMPLE LOCATION

CAT CLAIMS
OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG. 9A
DRAWN 76-13	DATE FEB., 1976	
To accompany report:		



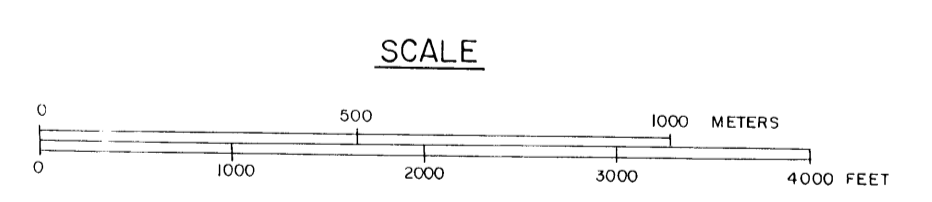
CAT PROPERTY
 BP MINERALS LIMITED
 MOLYBDENUM IN SOILS (1501000)

DATE AUGUST 1975
 LEGEND - PPM

- <0.92
- 0.92-1.49
- 1.49-2.40
- 2.40-3.86
- 3.86-6.22
- 6.22-12.4
- >12.4

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Department of
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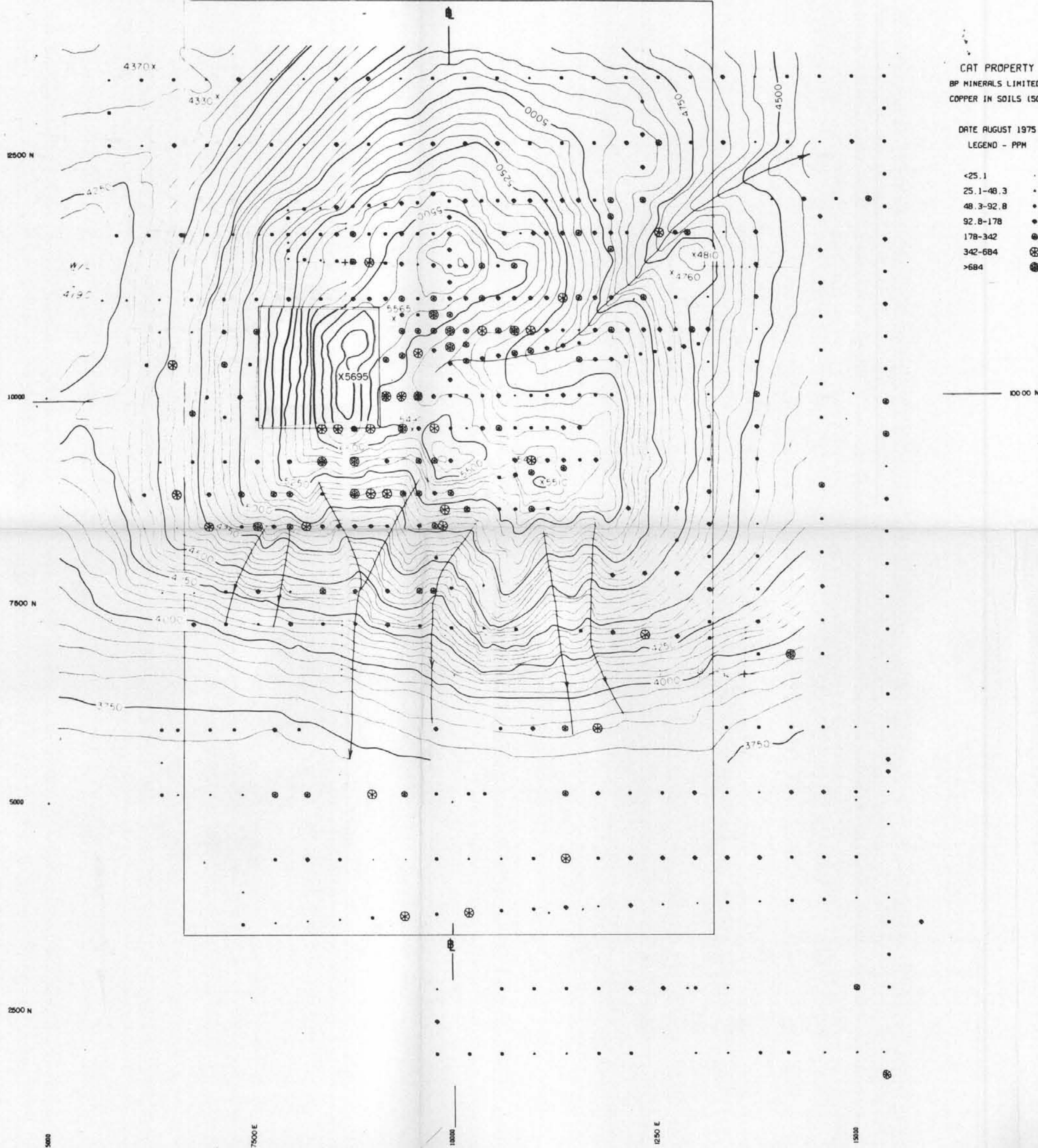
BP Minerals Limited *[Signature]*

MOLYBDENUM IN SOILS

CAT CLAIMS
 OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG 9 B
DRAWN 76-14	DATE FEB., 1976	
To accompany report		PROJ. 505

CAT CLAIMS



CAT PROPERTY
BP MINERALS LIMITED
COPPER IN SOILS (50) 1000

DATE AUGUST 1975
LEGEND - PPM

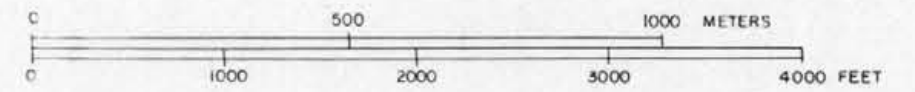
- <25.1
- 25.1-48.3
- 48.3-92.8
- 92.8-178
- 178-342
- 342-684
- >684

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Department of
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SCALE



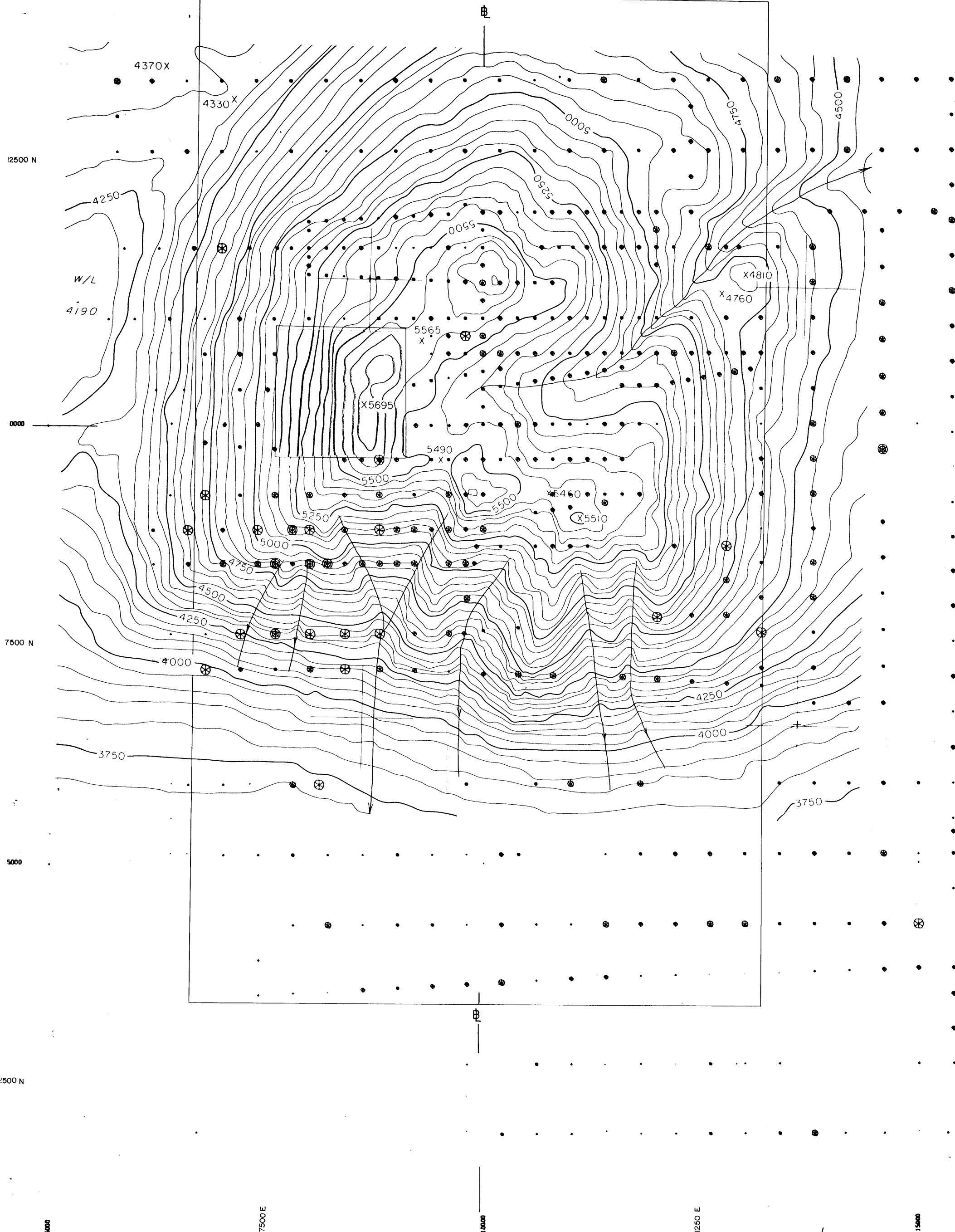
BP BP Minerals Limited *[Signature]*

COPPER IN SOILS

CAT CLAIMS
OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG 9C
DRAWN 76-15	DATE FER., 1976	
To accompany report.		PROJ. 505

CAT CLAIMS



CAT PROPERTY
BP MINERALS LIMITED
ZINC IN SOILS (50) 15000

DATE AUGUST 1975
LEGEND - PPM

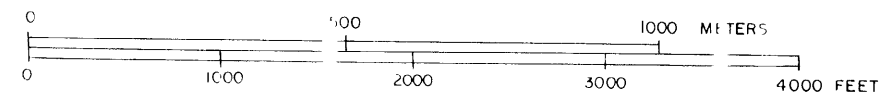
- <23.9
- 23.9-36.0
- 36.0-54.1
- 54.1-81.3
- 81.3-122
- 122-244
- >244

10000 N



Department of
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ASSESSMENT REPORT
NO. 5897 MAP # 18

SCALE

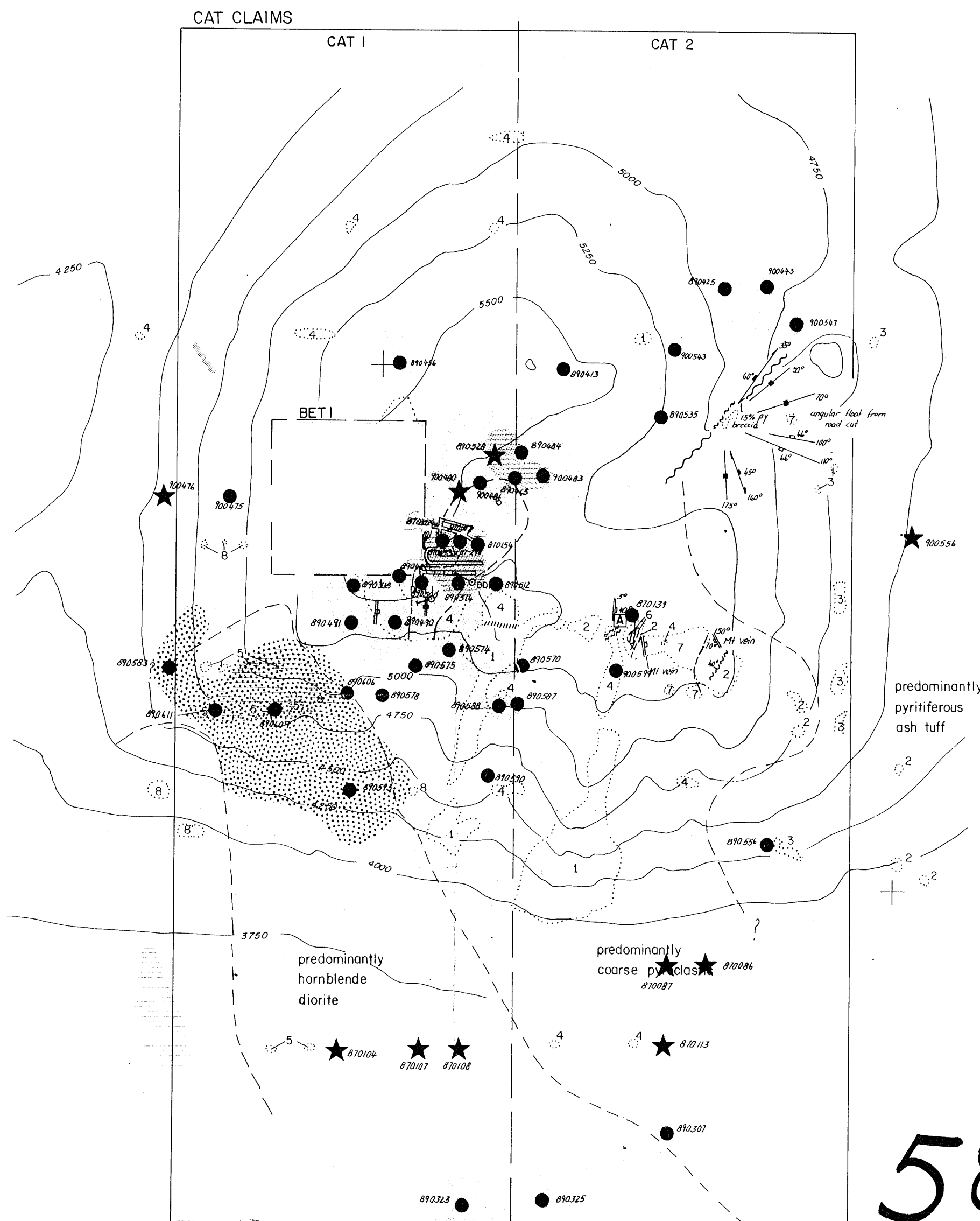


BP BP Minerals Limited *AM/18/13*

ZINC IN SOILS

CAT CLAIMS
OSILINKA RIVER PROPERTY

SCALE 1" = 1000'	NTS 94C-3	FIG. 9D
DRAWN 76-16	DATE FEB., 1976	PROJ. 505
To accompany report.		



LEGEND

INTRUSIVE ROCKS
Jurassic or Older (Hogem?)

- 8 Fine grained granite, minor quartz monzonite
- 7 Feldspar (monzodiorite) porphyry - minor alteration
- 6 Feldspar (syeno-monzonite) porphyry - mod-strongly metasomatized
- 5 Hornblende diorite - altered in west.

VOLCANIC ROCKS
Upper Triassic (Takla)

- 4 Augite andesalt porphyry
- 3 Andesite ash tuff
- 2 Andesite lapilli tuff and minor breccia
- 1 Andesaltic agglomerate

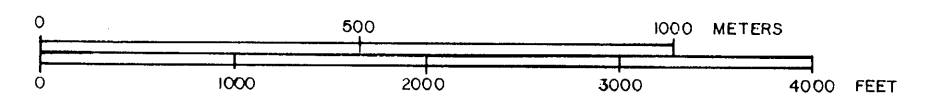
SYMBOLS

- Fault
- Joint strike and dip
- Strike of vertical joint
- Tension fracture strike and dip, vertical
- Vein or dyke
- Shear zone showing dip
- Outcrop area
- Contact observed, inferred, gradational
- Diamond drill hole
- Geodetic survey monument
- Bedrock sample number

- NOTES: [A] Sp He as fracture fill and knots and vugs in narrow shear zone also Ma, cp, bo-cc (minor) in quartz-calcite veins numerous here.
- [B] Au with minor cp in 1' wide Mt-quartz vein. Grades up to 16 oz Au/ton.
- [C] See trench/blast-pit plan map.

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SCALE



GEOCHEMICAL LEGEND

- Cu RICH ZONE
- Zn RICH ZONE
- Mo RICH ZONE
- SYNGENETIC ANOMALY
- EPIGENETIC ANOMALY
- 810307 Sample Number

M-20

5897

BP Minerals Limited

SEQUENTIAL EXTRACTION OF COPPER

CAT CLAIMS
OSILINKA RIVER PROPERTY

SCALE	1" = 1000'	NTS	94 C-3	FIG. 9 F
DRAWN	76-42	DATE	FEB., 1976	
To accompany report:			PROJ.	505