

CANADIAN OCCIDENTAL PETROLEUM LTD.

MINERALS DIVISION

GEOLOGY, GEOCHEMISTRY AND GROUND RADIOMETRICS
OF THE WAS CLAIM GROUP

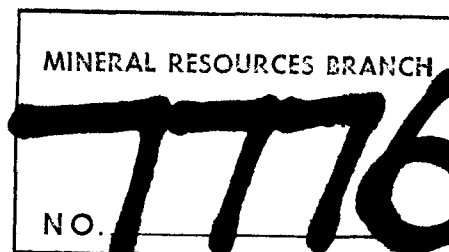
Claim Sheet 92I/1W

Lat.: 50°01'N
Long.: 120°18'W

WAS 1 - Tag #21776, Units 1-18
WAS 2 - Tag #21777, Units 1-18
Nicola Mining Division, British Columbia

by

Johannes R. Hill, B.Sc.



Covering Work Completed During the Period
August 7, 8, and 14th, 1979.

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SUMMARY

The WAS 1 and 2 claims lie 15 km south of Douglas Lake, B.C. A total of 36 claim units were staked in October, 1978 to cover a number of sediment and water uranium anomalies found in lakes and streams sampled during the summer of 1978. Sediment values up to 120 ppm U and waters up to 1020 ppb U were found.

Detailed follow-up work was completed on the claims during the period August 7, 8 and 14th, 1979, by a 5-person crew. The work included detailed geological mapping, soil and rock geochemical sampling, and a ground radiometrics survey, all completed at a scale of 1" = 400' on 1000' (305 m) lines.

The majority of the area is underlain by an intrusive unit belonging to the Pennask Batholith of Upper Jurassic to Lower Cretaceous age. An outlier of Kamloops Group volcanics (and sediments ?) of Eocene age has been postulated unconformably overlying the intrusive in the NW corner of the property. No trace of the volcanic outlier, however, was noted during the most recent mapping. The intrusive unit was recognized as a medium-grained, hypidiomorphic, granular, biotite-hornblende-granodiorite to quartz monzonite. Geochemical analysis of rock chip samples from the intrusive showed all samples contained ≤ 0.5 ppm U.

Soil horizons characteristic of a brown forest-type soil have developed over most of the property. All soil samples were collected from a depth 10-15 cm below ground level, well within the B-horizon, along lines 1000' (305 m) apart at 200' (61 m) stations. Samples

ranged in value <0.5 to 49 ppm U with values ≥ 2.5 ppm U considered anomalous. Based on the 5.0 ppm U contour, a total of 7 single-point anomalies and 1 double-point anomaly have been defined. Two of the larger anomalies correspond with small ponds, one of which was found to contain anomalously enriched sediments during the 1978 survey. Otherwise, the majority of the soil uranium anomalies were randomly scattered over the property with no apparent pattern or trend.

A scintillometer survey, measuring all energies above 0.40 MeV, was carried out on the 1000' (305 m) lines with readings recorded at 100' (30 m) stations. All values ≥ 15 cps. were considered anomalous compared to a mean value of 12 cps. Only one significant anomaly, defined by the 15 cps. contour, was generated in the NW corner of the property.

Further work, in the area, is warranted since the original anomalous pond waters and sediments have not been satisfactorily explained.

It is suggested that additional prospecting be carried out over the area concentrating in the NW quadrant for the purpose of locating the inferred Eocene outlier, or else definitely disproving its existence, and further investigating the scintillometer anomaly. The major soil anomalies, especially those corresponding to anomalous ponds, should be sampled in section with an auger.

INTRODUCTION

The WAS 1 & 2 claims were staked to cover a series of sediment and water uranium anomalies located in lakes and streams draining south into Quilchena Creek and sampled during the 1978 phase of the PRINIC Project. The anomalies originated from the top of a plateau which was believed underlain by an outlier of Eocene volcanics unconformably overlying a biotite-hornblende-granodiorite belonging to the Pennask Batholith. Sediment values up to 120 ppm U originating from a lake at the top of the plateau, and a water sample which contained 1020 ppb U from the same lake, were recorded. A total of 36 claim units was staked by Futura Developments Ltd. of Whitehorse, Y.T., on October 9, 1978.

The report will describe the geology of the claim area and the results obtained from a soil and rock geochemical sampling survey and a scintillometer survey completed by Canadian Occidental Petroleum Ltd., Minerals Division. The work was done to determine the cause of both water and sediment uranium anomalies originating in lakes and streams draining the area.

LOCATION AND ACCESS

The WAS 1 & 2 claims are recorded on claim map 92I/1W in the Nicola Mining Division. The property is located 15 km south of Douglas Lake covering an area bounded on the north by Wasley Creek and on the south by Quilchena Creek (See FIG. 1).



FIG. 1:
 LOCATION MAP
 92I/1W
 Nicola Mining Div.
 Scale: 1:50,000

Access is via the Pennask Lake road turning south off Hwy #5 3 km NE of the village of Quilchena. At Mile 14.9 of the Pennask road turn east on the Wasley Creek logging road which provides access along the northern portion of the claims. The Pennask road continues along Quilchena Creek to parallel the southern boundary of the property.

VEGETATION

The majority of the area is covered with mature forests of pine and spruce with little underbrush or deadfall. The north-facing slopes are less heavily vegetated than the top of the plateau. A large portion of the eastern half of the property has been logged out during the past 2 years. Rare patches of second growth spruce are scattered over the north-facing slopes.

PREVIOUS WORK

Only one stream silt sample was collected by Canadian Oxy within the area of the WAS claim during the original Princeton/Nicky Program in 1973/74. The sample contained 4.1 ppm U using neutron-activation analysis.

A number of additional silt samples were collected from Wasley and Quilchena Creeks as well as from numerous tributaries draining the plateau. The samples contained up to 18.1 ppm U.

Follow-up geochemical sampling was carried out on July 16th and September 8th, 1978. A total of 20 stream and lake silt

samples, 2 stream & lake water samples and 1 heavy mineral sample was collected from the area bounded by the WAS claims. Portions of the area were prospected with a scintillometer and 2 rock chip samples were collected for geochemical analysis. Sediment values ranged <0.5 - 120 ppm U with a background of 0.5 ppm U while one of the water samples contained 1020 ppb U. Using this data the WAS claims were staked later in the fall to include the inferred outlier of Eocene volcanics.

Detailed results from the follow-up geochemical work completed last summer are contained in the report "Geology & Geochemistry of the WAS claim group, J.R. Hill, September, 1978".

WORK COMPLETED

1). Line Cutting

A 9,200' (2805 m) northern, E-W trending baseline, a southern tie-line 9,200' (2805 m) in length and 2 N-S trending cross-lines (L00 and L96E) 9,800' (2988 m) in length were "cut" to form the initial WAS grid. In most cases the original claim lines formed the perimeter cut lines of the grid. A total of 9.1 line miles (14.6 line Km) was cut and chained by Futura Developments Ltd., on August 6th. The remaining 1000' (305 m) grid lines were compassed and chained during the soil sampling survey by the Canadian Oxy crew members. A total of 13 line miles (21 line Km) were completed during the period August 7, 8, & 14th.

2). Geological Mapping

Geological mapping of the WAS claims was completed on the 1000' (305 m) lines by J.R. Hill & E.F. Parry on August 7, 8, & 14th, in conjunction with the soil sampling survey. A total of 22.1 line miles (35.4 line Km) was mapped to cover a total area of 3.4 sq. mi. (8.7 sq. Km).

3). Geochemical Survey

Soil sampling was completed on the 1000' (305 m) lines by J. Bracken, G. Rahme, and T. Van Wiechen on August 7, 8 & 14th. A total of 593 soil samples were collected at 200' (61 m) intervals on the lines. Rock chip samples were systematically collected from outcrops at 1000' (305 m) intervals, where possible, by Hill and Parry. A total of 8 chip samples were collected. Chemex Labs Ltd. of Vancouver completed 601 determinations for uranium and 8 determinations for thorium.

4). Scintillometer Survey

A scintillometer survey was carried out on the 1000' (305 m) grid lines in conjunction with the soil sampling program. Readings were recorded at 100' (30 m) intervals using an URTEC UG-130 scintillometer on the TC2 at 10 sec. channel. The work was completed by J. Bracken, G. Rahme and T. Van Wiechen. A total of 1090 readings were recorded over 22.1 line miles (35.4 line Km).

5). Names & Addresses of Personnel

J.R. Hill	Party Chief	Canadian Oxy # 311-215 Carlingview Dr., Rexdale, Ontario
E.F. Parry	Senior Assistant	"
J. Bracken	Junior Assistant	"
G. Rahme	" "	"
T. Van Wiechen	" "	"

PHYSIOGRAPHY

Relief over the area is 700' (213 m). A central ridge or plateau trending E-W at an elevation of 4400' (1341 m) a.s. l. drops to Wasley Creek in the north at 3800' (1159 m) a.s. l. and to Quilchena Creek in the south at an elevation of 4200' (1280 m).

The north-facing slope is only moderately steep but has been deeply incised by a wide V-shaped valley which once drained waters northwestwardly off the top of the ridge. The southern slope is more gentle and is cut by numerous, narrow but quite deeply incised streams draining into Quilchena Creek.

GEOLOGY AND ROCK GEOCHEMISTRY

Introduction

The general geology of the area has been described by Cockfield (1948). Intrusives belonging to the Pennask Batholith

of Jurassic age are unconformably overlain by scattered outliers of Eocene volcanics and sediments belonging to the Kamloops Group. A small Kamloops Group outlier has been inferred by Cockfield to underlie the NW corner of the WAS claims. Using the Eocene "basal-type" model of uranium emplacement the presence of the outlier potentially increases the significance of the original stream anomalies.

The most recent survey on the WAS claims failed to find any trace of the Eocene outlier. This may have been more because of the very poor exposure (<1%) or the very wide line spacing on the property. The intrusive unit was recognized as a medium-grained biotite-hornblende-granodiorite.

General Geology

Only one rock type has been recognized on the WAS claims belonging to the Pennask Batholith of Upper Jurassic to Lower Cretaceous age.

Unit 1 is a medium-grained, hypidiomorphic granular biotite-hornblende-granodiorite to quartz monzonite. It is totally unaltered. The unit outcrops most commonly over the east-central portion of the area which also forms the highest topographic point on the claims.

Description of the Rock Units

Unit 1: A medium to fine grained, hypidiomorphic granular, biotite-hornblende-granodiorite approaching in places a quartz monzonite. Biotite and hornblende are present in equal amounts and make up a combined total content of 20% occurring as fine-grained anhedral to subhedral. Rare euhedral of biotite may occur up to 5 mm across while hornblende laths up to 1 cm long have been noted. Quartz makes up 15-20% while the rest is feldspar usually dominated by plagioclase but locally approaching a 2/3: 1/3 plagioclase to K-feldspar ratio. Accessory minerals include sphene and apatite.

The rock appears, for the most part, to be completely unaltered; however, a thin section examination noted patchy replacement of plagioclase by sericite. The unit is commonly cut by aplite dykes up to 2 cm in width.

The unit rarely outcrops and is restricted in occurrence to low ridge-like outcrops at the top of the plateau. The rock is characterized in outcrops by a scintillometer response averaging 20 cps.

Alteration and Structure

As mentioned previously, Unit 1 is almost completely unaltered except for patchily distributed sericitization of plagioclase reaching up to 30% replacement. Biotite may very rarely be partially chloritized.

The unit is commonly cut by aplite dykes reaching up to 2 cm in width. Fracturing is not common, but may reach a frequency of 1 every 2 ' with a dominant strike to the SW and a steep northwesterly dip.

Economic Geology

Visible uranium mineralization was not observed in any outcroppings of the granodiorite unit throughout the property. Analysis of the 8 rock chip samples collected during a systematic sampling survey of the WAS claims showed all samples contained ≤ 0.5 ppm U and 2 - 3 ppm Th. The low thorium content is unusual compared to results from other areas with similar geology, but other than this, no significant conclusions relating to the overall geology/geochemistry of the WAS claims could be made using the thorium data. The locations of all rock chip samples collected during the survey are shown on the geology map (PLAN 1) along with their corresponding uranium and thorium values.

It is obvious that the local geology of the WAS area, as it is presently understood, does not provide a suitable explanation for the occurrence of anomalous uranium in lake waters and sediments at the top of the property. Further prospecting over the area, especially in the vicinity of the anomalous lakes, and further efforts to try and locate the postulated outlier of Eocene volcanics should be undertaken.

SOIL GEOCHEMISTRY

Soil Development

The majority of the WAS area was found to be underlain by soils displaying horizon development characteristic of a brown

forest-type soil. All soils in the area have developed in well-drained environments within a parent material of glacial origin.

The profile of a typical brown forest soil on the WAS property consisted of a 2-4 cm black A-horizon, highly organic consisting of decaying forest litter. A well developed B-horizon immediately underlay the "A" and consisted of a yellowish brown sandy silt with some root material and occasional charcoal fragments. The B-horizon averaged 25 cm in thickness. The C-horizon or parent material consisted of an undisturbed medium brown clayey silt with abundant rounded exotic cobbles to boulders.

For practical purposes, all soil samples collected during the most recent sampling survey on the WAS property were collected from a depth 10-15 cm below ground level. This depth is well within the B-horizon which has been found to be the most metal-enriched horizon in soils of well-drained forested areas.

Sampling Procedures

The sampling area was covered by chained lines at 1000' (305 m) spacing. A base grid consisting of an E-W baseline in the north, a tie-line in the south, and 2 N-S trending end lines was first cut and chained by Futura Developments Ltd. The remaining grid lines were later flagged and chained by various members of the Canadian Oxy crew. Soil samples were collected along the grid lines at 200' (61 m) spacing.

All soil samples were stored in special heavy duty pre-numbered kraft envelopes, semi-dried in the field and sent to Chemex Labs Ltd., in Vancouver for uranium analysis.

Laboratory Procedures

Soil samples were dried at 50°C and sieved to -80 mesh (177 μ); the rest of the material greater than -80 was discarded. Rock chip samples were prepared the following way: the entire sample was crushed; if necessary (greater than 250 gms) the sample was split on a Jones splitter and the reject retained for a short period; the split fraction was pulverized such that 90% passes a 200 mesh (74 μ) sieve.

For U analysis, a 1.0 gm sample was digested with HClO₄ - HNO₃ acid for approximately 2 hours. An aliquot was extracted with MIBK after the addition of Al(NO₃)₃-TPAN solution and analysed via conventional fluorometric procedures. Detection limit was 0.5 ppm U.

For thorium analysis, the samples were analyzed using a neutron activation procedure. A 1.0 gm sample was weighed into a polyethylene vial and heat sealed. The samples, along with standards, were then irradiated for sufficient periods to receive a neutron dose of $1.3 \times 10^{15}/\text{cm}^2$. Following irradiation, samples were cooled for at least one week and Th was determined by the measurement of its characteristic gamma ray using a semi-conductor (Ge/Li) detector.

Standard Sample

To check the reproducibility and quality of the analytical work standard samples were sent to the lab as part of each regular shipment. From the pre-numbered sequence of sample envelopes, 5 envelopes out of every 100 were set aside to be filled with the standard material. Two types of material were used; a high U content standard taken from a known anomalously enriched bog and a low U content standard taken from the B-horizon of a soil pit. Each of the standard materials was made as highly homogeneous as possible and put in a random half of the sequence of standard envelopes.

A summary of the analytical results for the standard samples and reproducibility about the mean is listed in Table 1 below:

TABLE 1: REPRODUCIBILITY OF WAS STANDARD SAMPLES

<u>Standard Type</u>	<u>No. of Samples</u>	<u>Mean Value (ppm U)</u>	<u>Avg. % Diff. From Mean</u>
High	8	21.6	24.6
Low	22	5.8	26.1

Generally the accepted figures for reproducibility of results in applied geochemistry is 30% for values 1-10 ppm, 20% for 10-50 ppm and 10% for +50 ppm. The slightly higher than acceptable reproducibility figure for the high level standard may probably be more

a result of poor homogeneity of the sample, rather than laboratory error.

Statistical Treatment of Results

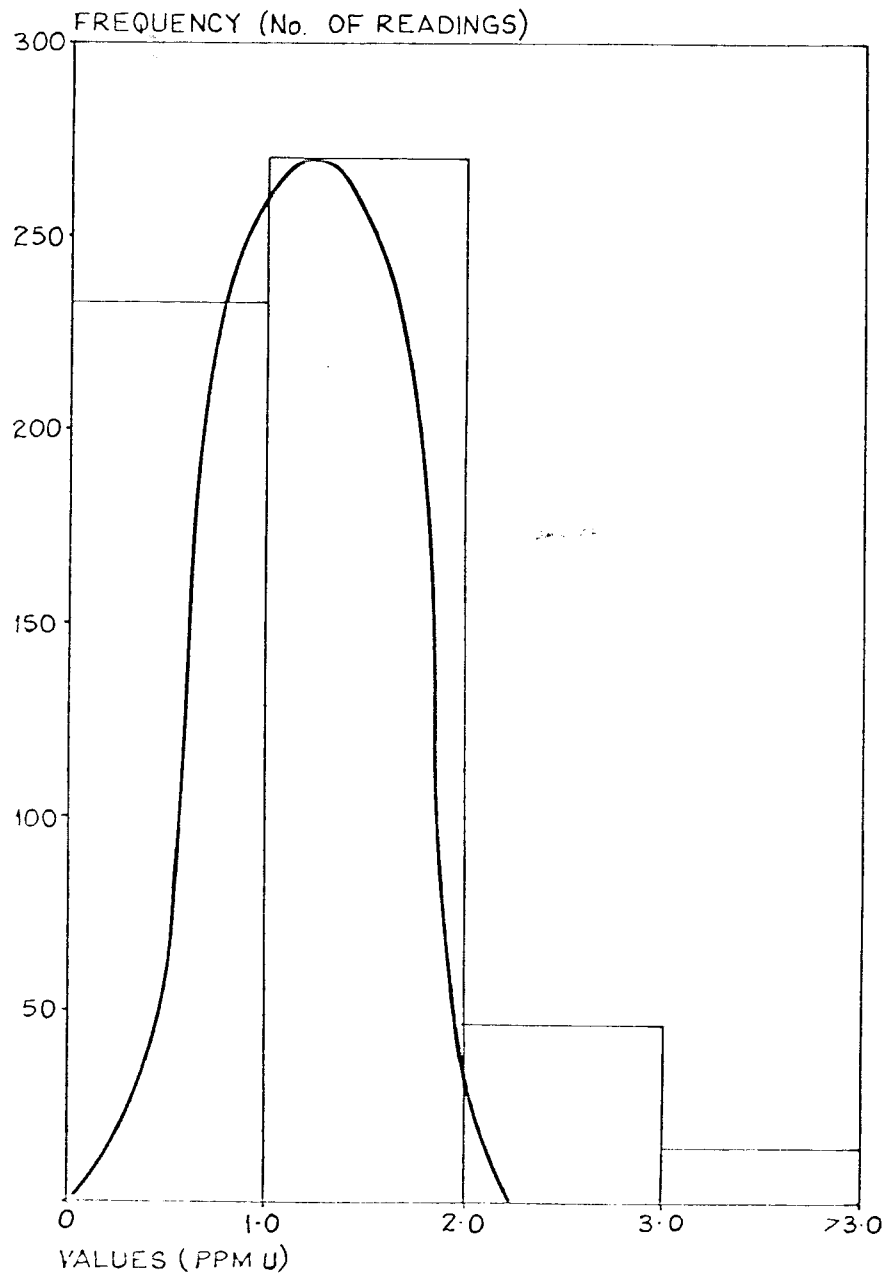
To determine mean and anomalous values for uranium, the element values obtained from the laboratory (APPENDIX II) were grouped into fixed ranges (TABLE 2 in the APPENDIX). A histogram of the frequency distribution was constructed (FIG. 2) and an arbitrary best-fit curve was drawn through the majority of the data.

Where this curve intersects the abscissa defines the cut-off for the "normal" or background population and thus all values lying to the right of the cut-off are considered anomalous. It can be seen from FIG. 2 that the cut-off value for uranium in soils is 2.2 ppm U and therefore all values greater than 2.2 ppm U are considered anomalous. i.e. ≥ 2.5 ppm U. The mean value is just over 1.0 ppm U.

Results of the Soil Sampling Survey

Lab results for the soil samples are plotted on PLAN 2. Values ranged from <0.5 to 49 ppm U. On the PLAN, a completely filled NW quadrant of the sample station symbol represents an anomalous value. A contour map to better delineate the areas of interest was constructed using a contour interval of 1.0 - 3.0 - 5.0 ppm U.

FREQUENCY DISTRIBUTION OF URANIUM
IN WAS SOILS.



Discussion of Anomalies

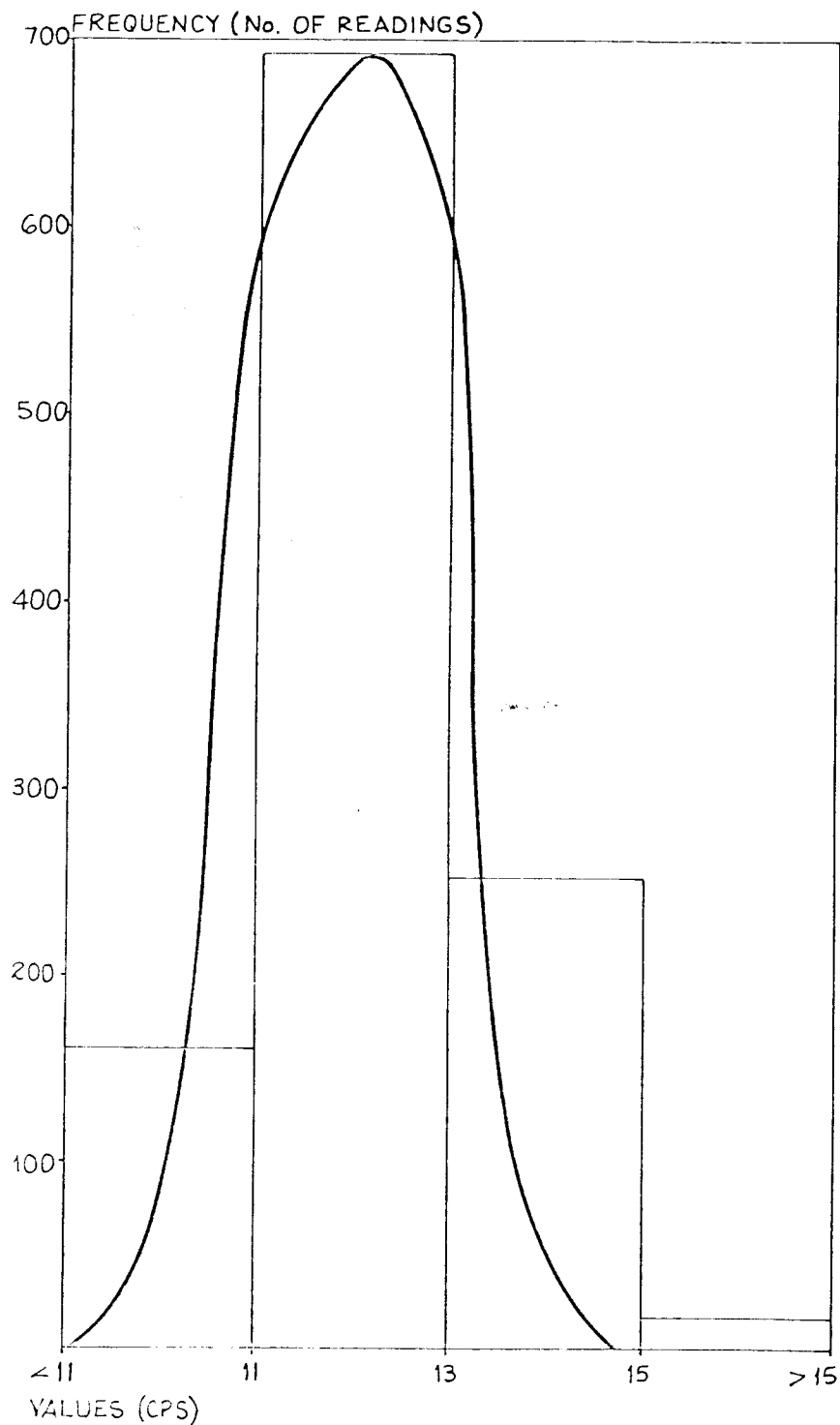
Based on the 5.0 ppm U contour (5 x background), a total of 7 single-point anomalies and 1 double-point anomaly have been defined. The larger anomaly at L42E/60S overlies a small pond just to the south of the originally anomalous lake sampled during the 1978 survey, and similarly, one other single point anomaly at L10E/76S corresponds to a small pond. Otherwise, the majority of the anomalies are randomly scattered over the property with no apparent pattern or trend. An examination of the low level contour (1.0 ppm U) reveals no dominant trend and fails to highlight any area of interest.

SCINTILLOMETER SURVEY

A ground radiometric survey was conducted on the 1000' (305 m) grid in conjunction with the soil sampling work. Readings of total background radiation were recorded at 100' (30 m) intervals along the lines using a hand-held URTEC UG-130 scintillometer set on the TC2 at 10 Sec. channel from a height of approximately 1 m above ground level. The TC2 channel measures all energies above 0.40 MeV over an integrating time of 10 secs.

PLAN 4 shows the contoured scintillometer results. To determine mean and anomalous values, the readings were first grouped into fixed ranges (TABLE 3 in the APPENDIX), and a histogram of the frequency distribution was constructed (FIG.3). An arbitrary best-fit curve was drawn through the majority of the data and where

FREQUENCY DISTRIBUTION OF WAS SCINTILLOMETER VALUES



this curve intersects the abscissa, defines the cut-off for the "normal" or background population. All values lying to the right of the cut-off are considered anomalous. From FIG. 3 the cut-off for the WAS scint data is 14.6 cps., therefore, all values greater than or equal to 15 cps. are considered anomalous compared to a mean of approximately 12 cps.

The contoured scintillometer data shows a strong trend E-W which is probably more a result of sample spacing bias along N-S trending lines than a reflection of some influencing geological factor. The only significant anomaly is a 6-point grouping, defined by the 15 cps. contour, near L20E/16S. Since no outcrop has been noted in the vicinity of the anomaly it may represent the presence of radioactive boulders and should be examined in more detail.

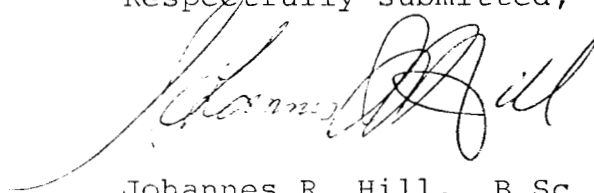
CONCLUSIONS AND RECOMMENDATIONS

An examination of the compilation map (PLAN 5) provides a summary of the data collected during this most recent survey. It is obvious that no significant anomalies, either soil geochemistry or scintillometer, have been generated; however, the area still warrants further work since the originally anomalous pond waters and sediments have not been satisfactorily explained.

It is suggested that additional prospecting be carried out over the area concentrating in the NW quadrant for the purpose of locating the inferred Eocene outlier or else definitely disproving

its presence. At the same time, the scintillometer anomaly on L20E should be investigated further. It has also been suggested that the soils over and near the pond in the midsection of the claims, i.e. the pond displaying the originally anomalous waters and sediments both, should be sampled in sections with an auger. Other soil anomalies should also be prospected and since the original sampling work was done on 1000' (305 m) lines, additional sampling and scintillometer work should be completed on the intermediate 500' (152 m) lines.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'Johannes R. Hill', written in dark ink. The signature is fluid and somewhat stylized, with a long horizontal stroke extending to the left.

Johannes R. Hill, B.Sc.

Toronto,

November , 1979.

REFERENCES

Cockfield, W.E., 1948. Geology and mineral deposits of the Nicola map area. Geological Survey of Canada, Memoir 249, 164 pp.

APPENDIX I

FREQUENCY DISTRIBUTION TABLES

TABLE 2: FREQUENCY DISTRIBUTION OF URANIUM IN WAS SOILS

<u>INTERVAL (ppm U)</u>	<u>FREQUENCY</u>	<u>% CUMULATIVE FREQUENCY</u>
0 - 0.9	233	41.4
1.0 - 1.9	270	89.3
2.0 - 2.9	46	97.5
≥ 3.0	14	100.0
	563	

RANGE = <0.5 - 49 ppm U

MEAN = 1.2 ppm U

ANOMALOUS = ≥ 2.5 ppm U

TABLE 3: FREQUENCY DISTRIBUTION OF WAS SCINTILLOMETER VALUES

<u>INTERVAL</u>	<u>FREQUENCY</u>	<u>% CUMULATIVE FREQUENCY</u>
11	161	14.3
11 - 12.9	693	75.8
13 - 14.9	253	98.3
≥ 15	<u>19</u>	100.0
	1126	

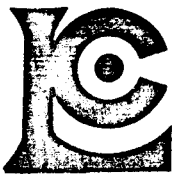
RANGE = 9 - 23 cps.

MEAN = 12 cps.

ANOMALOUS = ≥ 15 cps.

APPENDIX II

LABORATORY GEOCHEMICAL RESULTS - SOILS



CHEMEX LABS LTD.

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CANADA V7J 2C1
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AREA CODE: 604
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- ANALYTICAL CHEMISTS
- GEOCHEMISTS
- REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49527

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

INVOICE NO. 32137

RECEIVED Aug. 12/79

ATTN: PRINIC-WAS-Claims CC. J. Hill

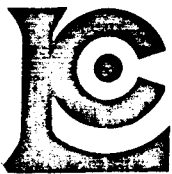
ANALYSED Aug. 24/79

SAMPLE NO. :	PPM
	U
79 PR 10126	1.0
10127	1.0
10128	2.0
10129	1.5
10130	1.0
10131	1.0
10132	1.0
10133	1.0
10134	1.5
10135	2.0
10136	2.0
10137	2.0
10138	2.5
10139	6.5
10140	1.5
10141	1.5
10142	1.5
10143	1.0
10144	1.5
10145	1.5
10146	1.5
10147	2.5
10148	1.0
10149	1.0
10150	1.5
10151	1.5
10152	1.0
10153	0.5
10154	2.5
10155	0.5
10156	4.0
10157	0.5
10158	0.5
10159	0.5
10160	0.5
10161	0.5
10162	0.5
10163	0.5
10164	0.5
79 PR 10165	1.0



MEMBER
CANADIAN TESTING
ASSOCIATION

CERTIFIED BY: *Hart Biddle*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: [REDACTED]
AREA CODE: 604
TELEX: 043-52597

984-0221

- ANALYTICAL CHEMISTS
- GEOCHEMISTS
- REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: PRINIC-WAS-Claims

CC. J. Hill

CERTIFICATE NO. 49528

INVOICE NO. 32137

RECEIVED Aug. 12/79

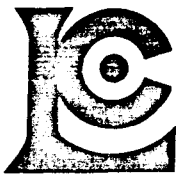
ANALYSED Aug. 24/79

SAMPLE NO. :	PPM U
79 PR 10166	1.0
10167	0.5
10168	0.5
10169	1.0
10170	0.5
10171	1.0
10172	6.0
10173	0.5
10174	0.5
10175	1.0
10176	1.0
10177	0.5
10178	1.0
10179	1.0
10180	1.5
10181	1.0
10182	1.0
10183	1.0
10184	1.0
10185	0.5
10186	6.0
10187	1.0
10188	1.0
10189	0.5
10190	1.0
10191	1.0
10192	2.0
10193	0.5
10194	0.5
10195	1.0
10196	3.0
10197	< 0.5
10198	1.0
10199	1.0
10200	1.0
10201	< 0.5
10202	0.5
10203	< 0.5
10204	1.0
79 PR 10205	0.5



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CANADA V7J 2C1
TELEPHONE: 984-0621 984-0221
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: PRINIC-WAS-Claims

CC. J. Hill

CERTIFICATE NO. 49529

INVOICE NO. 32137

RECEIVED Aug. 12/79

ANALYSED Aug. 24/79

SAMPLE NO. :	PPM
	U
79 PR 10206	1.0
10207	1.0
10208	7.0
10209	0.5
10210	0.5
10211	0.5
10212	0.5
10213	0.5
10214	0.5
10215	1.0
10216	1.0
10217	1.0
10218	1.0
10219	1.5
10220	1.5
10221	2.0
10222	2.0
10223	1.5
10224	2.0
10225	1.5
10226	1.5
10227	2.0
10228	1.5
10229	2.5
10230	1.5
10231	0.5
10232	1.0
10233	0.5
10234	0.5
10235	< 0.5
10236	4.0
10237	0.5
10238	0.5
10239	< 0.5
10240	< 0.5
10241	1.5
10242	< 0.5
10243	0.5
10244	12.0
79 PR 10245	0.5



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Harold Biddle



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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
 Minerals Division,
 Ste. 311 - 215 Carlingview Dr.,
 Rexdale, Ont.

ATTN: PRINIC-WAS-Claims

CC. J. Hill

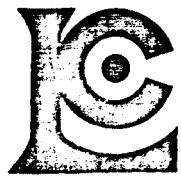
CERTIFICATE NO. 49530
 INVOICE NO. 32137
 RECEIVED Aug. 12/79
 ANALYSED Aug. 24/79

SAMPLE NO. :	PPM
	U
79 PR 10246	0.5
10247	2.0
10248	1.0
10249	1.0
10250	1.0
10251	1.0
10252	0.5
10253	0.5
10254	1.0
10255	1.0
10256	1.0
10257	1.0
10258	8.0
10259	1.0
10260	1.0
10261	1.0
10262	1.0
10263	1.0
10264	1.0
10265	1.0
10266	1.0
10267	1.0
10268	1.0
10269	1.0
10270	0.5
10271	0.5
10272	0.5
10273	< 0.5
10274	< 0.5
10275	8.5
10276	0.5
10277	< 0.5
10278	0.5
10279	1.5
10280	0.5
10281	0.5
10282	1.0
10283	0.5
10284	< 0.5
79 PR 10285	< 0.5



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CERTIFIED BY: *Hart-Biddle*



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 TELEPHONE: ~~605-0519~~ 604.6221
 AREA CODE: 604
 TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 49531

TO: Canadian Occidental Petroleum Ltd.,
 Minerals Division
 311 - 215 Carlingview Dr.,
 Rexdale, Ont.
 ATTN: M9W 5X8

PRINIC-WAS CLAIMS
 c.c. J. Hill

INVOICE NO. 32137
 RECEIVED August 12, 1979
 ANALYSED August 24, 1979

SAMPLE NO. :	PPM U
79 PR 10286	1.0
10287	1.5
10288	1.5
10289	2.0
10290	1.0
10291	8.0
10292	0.5
10293	0.5
10294	1.0
10295	1.0
10296	1.5
10297	1.0
10298	1.5
10299	1.0
10300	49
10301	1.5
10302	1.5
10303	1.5
10304	1.5
10305	1.5
10306	2.0
10307	8.0
10308	1.5
10309	1.0
10310	0.5
10311	1.0
10312	1.0
10313	1.0
10314	0.5
10315	1.0
10316	1.5
10317	1.5
10318	0.5
10319	1.0
10320	0.5
10321	0.5
10322	1.0
10323	2.0
10324	7.0
79 PR 10325	1.5



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TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minrals Division
311 - 215 Carlingview Dr.,
Rexdale, Ont.
ATTN: M9W 5X8

PRINIC-WAS CLAIMS
c.c. J. Hill

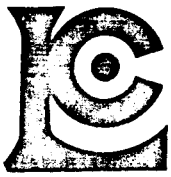
CERTIFICATE NO. 49532
INVOICE NO. 32137
RECEIVED August 12, 1979
ANALYSED August 24, 1979

SAMPLE NO. :	PPM U
79 PR 10326	0.5
10327	0.5
10328	1.0
10329	1.0
10330	1.0
10331	1.0
10332	1.0
10333	1.5
10334	1.5
10335	1.0
10336	1.0
10337	0.5
10338	0.5
10339	1.0
10340	0.5
10341	1.0
10342	1.0
10343	1.0
10401	1.0
10402	2.0
10403	1.0
10404	1.0
10405	1.0
10406	1.5
10407	1.0
10408	4.0
10409	1.5
10410	0.5
10411	1.0
10412	1.0
10413	3.0
10414	1.5
10415	1.5
10416	1.5
10417	1.5
10418	2.5
10419	1.5
10420	1.5
10421	1.5
79 PR 10422	1.5



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CERTIFIED BY: *Howe Biddle*



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TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division
311 - 215 Carlingview Dr.,
Rexdale, Ont.
ATTN: M9W 5X8

PRINIC-WAS CLAIMS
c.c. J. Hill

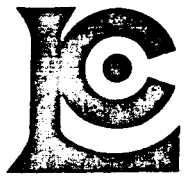
CERTIFICATE NO. 49533
INVOICE NO. 32137
RECEIVED August 12, 1979
ANALYSED August 24, 1979

SAMPLE NO. :	PPM U
79 PR 10423	1.5
10424	1.0
10425	1.5
10426	1.5
10427	7.5
10428	1.0
10429	1.5
10430	1.5
10431	1.5
10432	1.5
10433	1.5
10434	2.0
10435	1.5
10436	1.5
10437	1.5
10438	2.5
10439	1.5
10440	2.0
10441	2.0
10442	2.0
10443	2.0
10444	1.0
10501	0.5
10502	1.0
10503	0.5
10504	3.0
10505	0.5
10506	0.5
10507	0.5
10508	1.0
10509	3.0
10510	0.5
10511	0.5
10512	1.0
10513	1.5
10514	1.0
10515	1.0
10516	1.0
10517	1.0
79 PR 10518	0.5



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CERTIFIED BY: *Walt Biddle*



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TELEPHONE: 994-0221
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TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division
311 - 215 Carlingview Dr.,
Rexdale, Ont.

ATTN: M9W 5X8

PRINIC-WAS CLAIMS
c.c. J. Hill

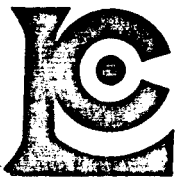
CERTIFICATE NO. 49534
INVOICE NO. 32137
RECEIVED August 12, 1979
ANALYSED August 24, 1979

SAMPLE NO. :	PPM U
79 PR 10519	1.0
10520	1.5
10521	1.5
10522	1.5
10523	1.5
10524	1.5
10525	1.5
10526	7.5
10527	1.5
10528	2.0
10529	2.0
10530	2.0
10531	1.5
10532	2.5
10533	1.0
10534	1.5
10535	2.0
10536	2.0
10537	3.0
10538	1.5
10539	1.0
10540	1.0
10541	1.5
10542	1.5
10543	1.5
10544	4.0
10545	1.5
10546	1.5
79 PR 10547	1.0



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CERTIFIED BY: *Herb Biddle*



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AREA CODE: 604
TELEX: 04-352597

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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

CERTIFICATE NO. 50001

INVOICE NO. 32421

RECEIVED Aug. 22/79

ATTN: PROJECT: Prinic-Was Claims

CC: J. Hill

ANALYSED Sept. 6/79

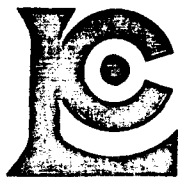
SAMPLE NO. :	PPM
	U
79 PR 8316	1.5
10344	0.5
10345	0.5
10346	<0.5
10347	20.5
10348	1.5
10349	<0.5
10350	0.5
10351	0.5
10352	0.5
10353	<0.5
10354	<0.5
10355	<0.5
10356	<0.5
10357	<0.5
10358	0.5
10359	<0.5
10360	1.0
10361	<0.5
10362	<0.5
10363	<0.5
10364	<0.5
10365	<0.5
10366	12.5
10367	0.5
10368	<0.5
10369	<0.5
10370	<0.5
10371	0.5
10372	0.5
10373	0.5
10374	1.0
10375	1.0
10376	1.0
10377	1.0
10378	1.0
10379	1.0
10380	1.5
10381	0.5
79 PR 10382	1.0



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TELEX: 04-352597

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50002

TO: Canadian Occidental Petroleum Ltd.,
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Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32421

RECEIVED Aug. 22/79

ATTN: PROJECT: Prinic-Was Claims CC: J. Hill

ANALYSED Sept. 6/79

SAMPLE NO. :	PPM
	U
79 PR 10383	0.5
10384	0.5
10385	3.0
10386	1.5
10387	1.0
10388	0.5
10389	0.5
10390	22.0
10391	2.0
10392	1.0
10393	0.5
10394	<0.5
10395	0.5
10396	<0.5
10397	<0.5
10398	1.0
10399	1.0
10400	<0.5
10445	0.5
10446	<0.5
10447	<0.5
10448	0.5
10449	13.0
10450	0.5
10451	<0.5
10452	<0.5
10453	<0.5
10454	<0.5
10455	0.5
10456	<0.5
10457	0.5
10458	0.5
10459	0.5
10460	0.5
10461	4.5
10462	0.5
10463	0.5
10464	0.5
10465	1.0
79 PR 10466	1.0



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CERTIFIED BY: *Ken Biddle*

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TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597



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Rexdale, Ontario M9W 5X8

CERTIFICATE NO. 50003

INVOICE NO. 32421

RECEIVED Aug. 22/79

ATTN: PROJECT: Prinic-Was Claims CC: J. Hill

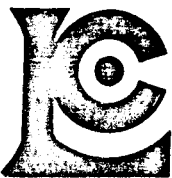
ANALYSED Sept. 6/79

SAMPLE NO. :	PPM
	U
79PR 10467	0.5
10468	0.5
10469	0.5
10470	1.0
10471	19.0
10472	1.0
10473	<0.5
10474	0.5
10475	1.0
10476	6.0
10477	9.5
10478	0.5
10479	0.5
10480	<0.5
10481	0.5
10482	0.5
10483	0.5
10484	0.5
10485	0.5
10486	1.0
10487	1.5
10488	0.5
10489	6.5
10490	1.0
10491	23.5
10492	0.5
10493	0.5
10494	0.5
10495	< 0.5
10548	0.5
10549	1.0
10550	1.0
10551	0.5
10552	0.5
10553	< 0.5
10554	0.5
10555	0.5
10556	0.5
10557	0.5
79PR 10558	< 0.5



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CERTIFIED BY: *Mark B. Dole*



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TELEPHONE: 984-0221
AREA CODE: 604
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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
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Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

ATTN:PROJECT: Prinic-Was Claims

CC: J. Hill

CERTIFICATE NO. 50004

INVOICE NO. 32421

RECEIVED Aug. 22/79

ANALYSED Sept. 6/79

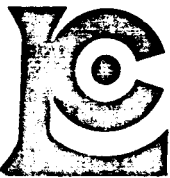
SAMPLE NO. :	PPM
	U
79PR 10559	0.5
10560	1.5
10561	1.0
10562	1.0
10563	1.5
10564	0.5
10565	<0.5
10566	0.5
10567	26
10568	1.5
10569	2.0
10570	1.0
10571	0.5
10572	0.5
10573	0.5
10574	1.0
10575	0.5
10576	0.5
10577	0.5
10578	0.5
10579	0.5
10581	1.0
10581	2.5
10582	1.0
10583	0.5
10584	0.5
10585	0.5
10586	1.0
10587	1.5
10588	1.0
10589	36
10590	4.0
10591	1.5
10592	1.5
10593	1.0
10594	1.0
10595	0.5
10596	2.0
10597	1.0
79PR 10598	1.0



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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 50005

TO: Canadian Occidental Petroleum Ltd.,
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Ste. 311 - 215 Carlingview Dr.,
Rexdale, Ontario M9W 5X8

INVOICE NO. 32421

RECEIVED Aug. 22/79

ATTN:PROJECT: Prinic-Was Claims

CC: J. Hill

ANALYSED Sept. 6/79

SAMPLE NO. :		PPM
		U
79PR	10599	0.5
	10600	0.5
	10701	0.5
	10702	0.5
79PR	10703	1.5

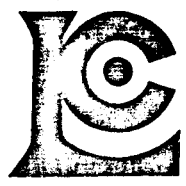


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CERTIFIED BY: *Harold Bielle*

APPENDIX III

LABORATORY GEOCHEMICAL RESULTS - ROCKS



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 NORTH VANCOUVER, B.C.
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 TELEPHONE: 853-0021 984-0221
 AREA CODE: 604
 TELEX: 043-52597

- ANALYTICAL CHEMISTS
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CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
 Minerals Division,
 Ste. 311 - 215 Carlingview Dr.,
 Rexdale, Ont.

CERTIFICATE NO. 49512
 INVOICE NO. 32137
 RECEIVED Aug. 12/79
 ANALYSED Aug. 24/79

ATTN: PROJECT: PRINIC-WAS-Claims CC. J. Hill (ROCKS)

SAMPLE NO. :	PPM	
	U	Th
79 PR 10901	0.5	3
10902	< 0.5	3
10951	0.5	3
10952	< 0.5	3
79 PR 10953	< 0.5	3



MEMBER
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CERTIFIED BY: *Hart Biddle*



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NORTH VANCOUVER, B.C.
CANADA V7J2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Canadian Occidental Petroleum Ltd.,
Minerals Division,
Ste. 311 - 215 Carlingview Dr., (rocks)
Rexdale, Ontario M9W 5X8
ATTN: PROJECT: Prinic-Was Claims CC: Hill

CERTIFICATE NO. 50000
INVOICE NO. 32397
RECEIVED Aug. 22/79
ANALYSED Sept. 6/79

SAMPLE NO. :	PPM	
	U	Th
10903	0.5	3
10904	0.5	3
10954	0.5	2



CERTIFIED BY: *Heather B. D.D.*

APPENDIX IV

REPORT by C.F. GLEESON

October 25, 1979

WAS:

Geology: Bio-hbl-grnd.

Geochemistry: Originally CanOxy found, very anomalous saline pond waters and sediments. Soil values range from <0.5 to 49 ppm U with a mean of about 0.5 over the grnd. 5 zones of limited extent with 5 ppm U or more.

Scint values generally low - they reach a max. of 23 cps (Bkg 11 cps) in northwest part of the property.

All rocks analyzed 0.5 ppm U or less.

Conclusions: High pond water-sediment anomalies have not been explained. The soils over and near the pond in the midsection of the claims should be sampled in sections with an auger and analyzed for uranium.

Other soil anomalies should be prospected.

STATEMENT OF EXPENDITURES

CLAIMS WAS 1-2

RECORD NUMBERS 506-507

	<u>Pro-rated Costs</u>
Salaries and Benefits	\$ 2,335.37
Travel and Accommodation	329.12
Drafting and reproduction	177.18
Consultant	85.21
Camp costs and supplies	707.25
Rental of equipment	797.67
Administration @ 10%	443.20

SUB TOTAL 4,875.00

Linecutting <u>14.6</u> km	\$ <u>3,185.00</u> ²	
Geochemical analyses	<u>2,039.283</u>	
PAC	<u> </u>	<u>5,224.28</u>
TOTAL	\$	<u>10,099.28</u>

Notes

- 1) Pro-rated on basis of 15 man-days worked on claims conducting geological/geochemical/geophysical surveys out of a total of 798 man-days spent on these surveys during Project Prinic (see attached breakdown on following sheet)
- 2) Linecutting completed by Futura Developments Reg'd., Penticton, B.C.
- 3) Geochemical analyses completed by Chemex Labs, Vancouver, B.C.

PROJECT PRINIC EXPENDITURES- 1979

Geological, Geochemical/Geophysical
Surveys
Excl. linecutting, drilling, staking
and geochemical analyses

Salaries and Benefits	\$ 124,242
Travel and Accommodation	17,509
Drafting and Reproduction	9,426
Consultant	4,533
Camp Costs and Supplies	37,626
Rental of Equipment	42,436
Administration @ 10%	<u>23,578</u>
TOTAL	\$ <u>259,350</u> ¹

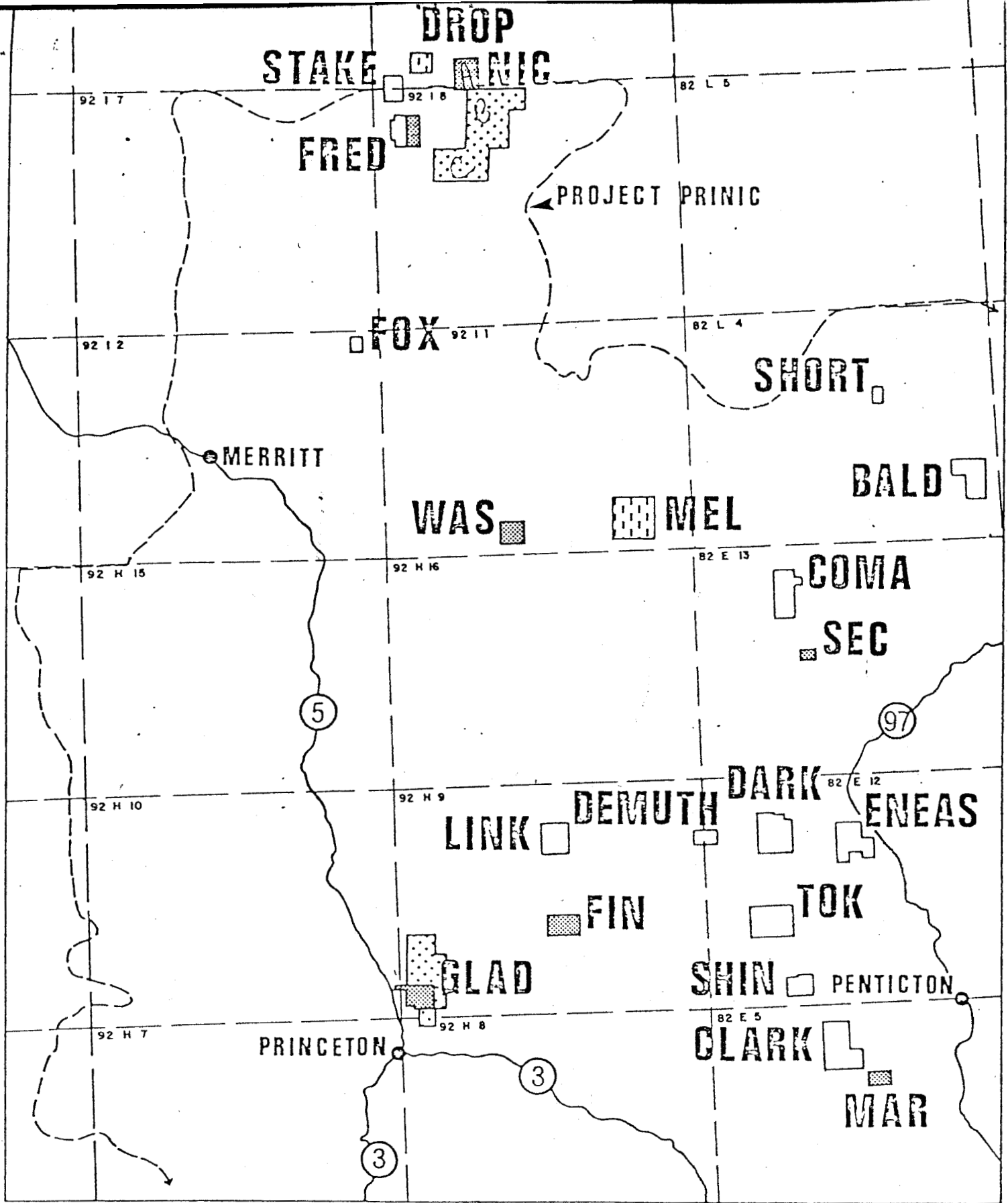
Note:

¹A total of 798 man-days was spent carrying out geological/geochemical/geophysical surveys during summer 1979 on Project Prinic (refer attached man-day breakdown)

PROJECT PRINIC EXPENDITURES

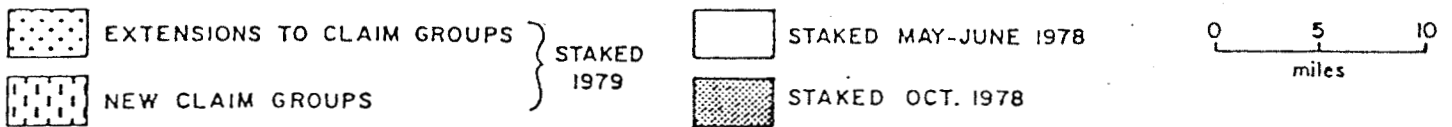
1979 FIELD WORK (excluding drilling,
geochem analyses
staking)

<u>Claim</u>	<u>No. of Man-Days Work</u>	<u>Pro-rated Survey¹ cost @\$325/man-day</u>	<u>No. of miles(km) of linecutting</u>	<u>Linecutting Cost @\$350/l.m. (o: \$218/km)</u>
1) MAR 1-2	35	\$ 11,375	5.5(8.9)	\$ 1,925
2) WAS 1-2	15	4,875	9.1(14.6)	3,185
3) GLAD 1-4) 5-10)	11	3,575	-	-
4) SEC 1	20	6,500	8.5(13.7)	2,975
5) FIN 1-2	10	3,250	-	-
6) NIC	50	16,250)		
	45	14,625)	28.2(45.4)	9,870
	40	13,000)		
7) FRED 1-2) 3-5)	20	6,500	14.8(23.8)	5,180
8) LINK 1-3	144	46,800	33.5(53.9)	11,725
9) BALD 1-4	55	17,875	36.6(58.9)	12,810
10) ENEAS 1-5	44	14,300	11.1(17.9)	3,885
11) TOK 1-4	70	22,750	41.8(67.3)	14,630
12) DEMUTH 1	10	3,250	5.4(8.7)	1,890
13) DARK 1-5	32	10,400	32.4(52.1)	16,524
14) COMA 1-3	2	650	-	-
15) FOX 1	10	3,250	4.2(6.8)	1,470
16) MEL 1-2	20	6,500	6.4(10.3)	2,240
17) SHORT 1	-	-	-	-
18) SHIN 1-2	-	-	-	-
19) CLARK 1-6	125	40,625	19.4(31.2)	6,790
20) DROP 1	15	4,875	3.4(5.5)	1,190
21) STAKE 1-2	25	8,125	5.4(8.7)	1,890
TOTAL	<u>798</u>	<u>\$259,350</u>	<u>233.3(375.4)</u>	<u>\$98,179</u>



LOCATION OF PRINIC PROJECT AND CLAIM GROUPS

MARCH 1979

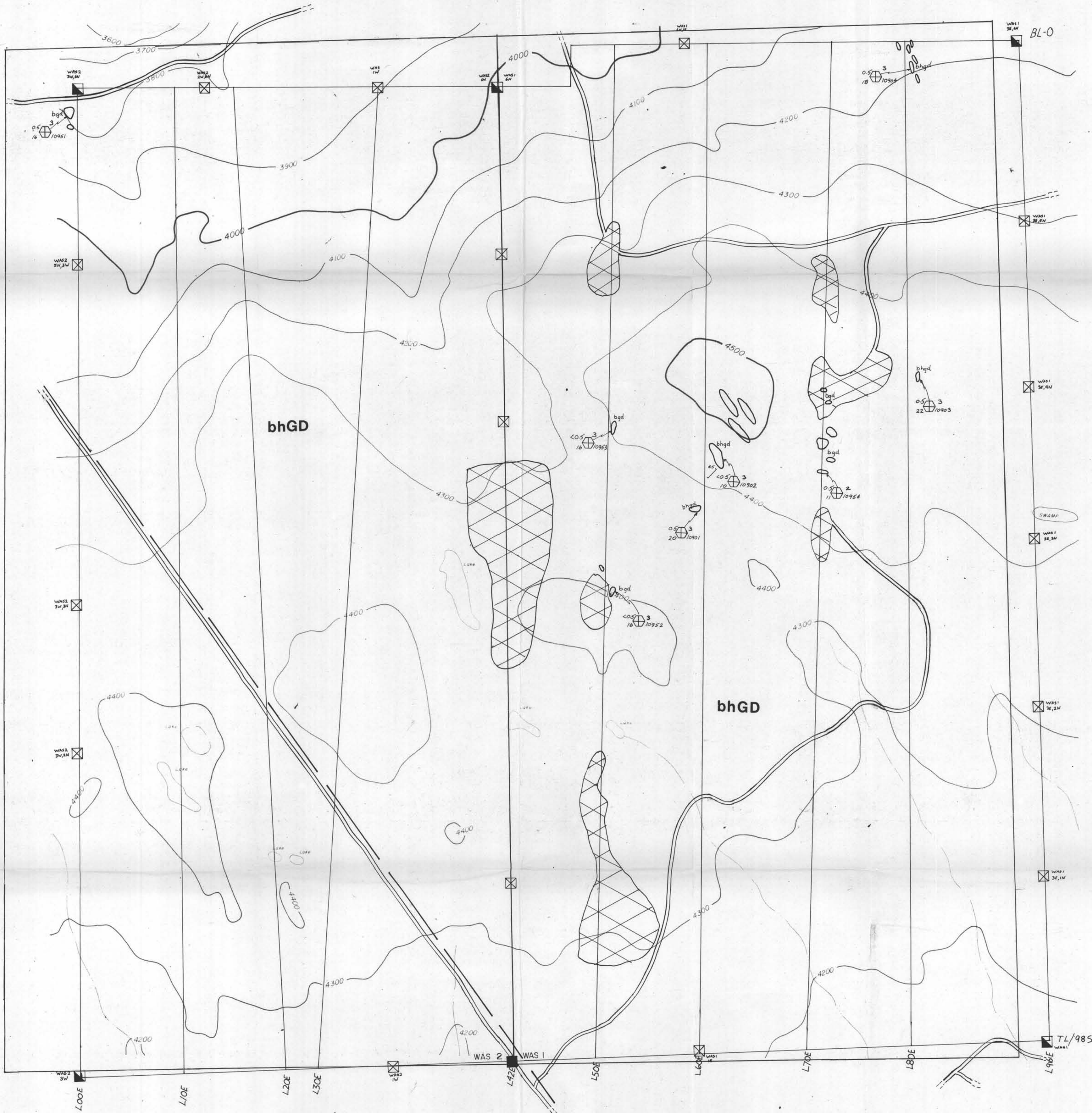


Author's Qualifications

Johannes R. Hill

Education - Graduated Queen's University,
Kingston, Ontario
B.Sc. Honours in Geology, 1975

Work Experience - Employed as Canadian Occidental Petroleum
Ltd. field exploration geologist since 1975. Carried out
and supervised geological programs across Canada based out
of Minerals Division office, Toronto, Ontario.



GEOLOGICAL LEGEND

bhGD
 or = biotite - hornblende - granodiorite
 bhgd
 bgd = biotite - granodiorite
 ○ outcrop
 ROCK GEOCHEM SAMPLE SITE
 ppm U ppm Th
 scintillometer response (cps) sample number

LEGEND

○ area of clear cut
 // driveable logging road
 - - - power line

CLAIM POSTS

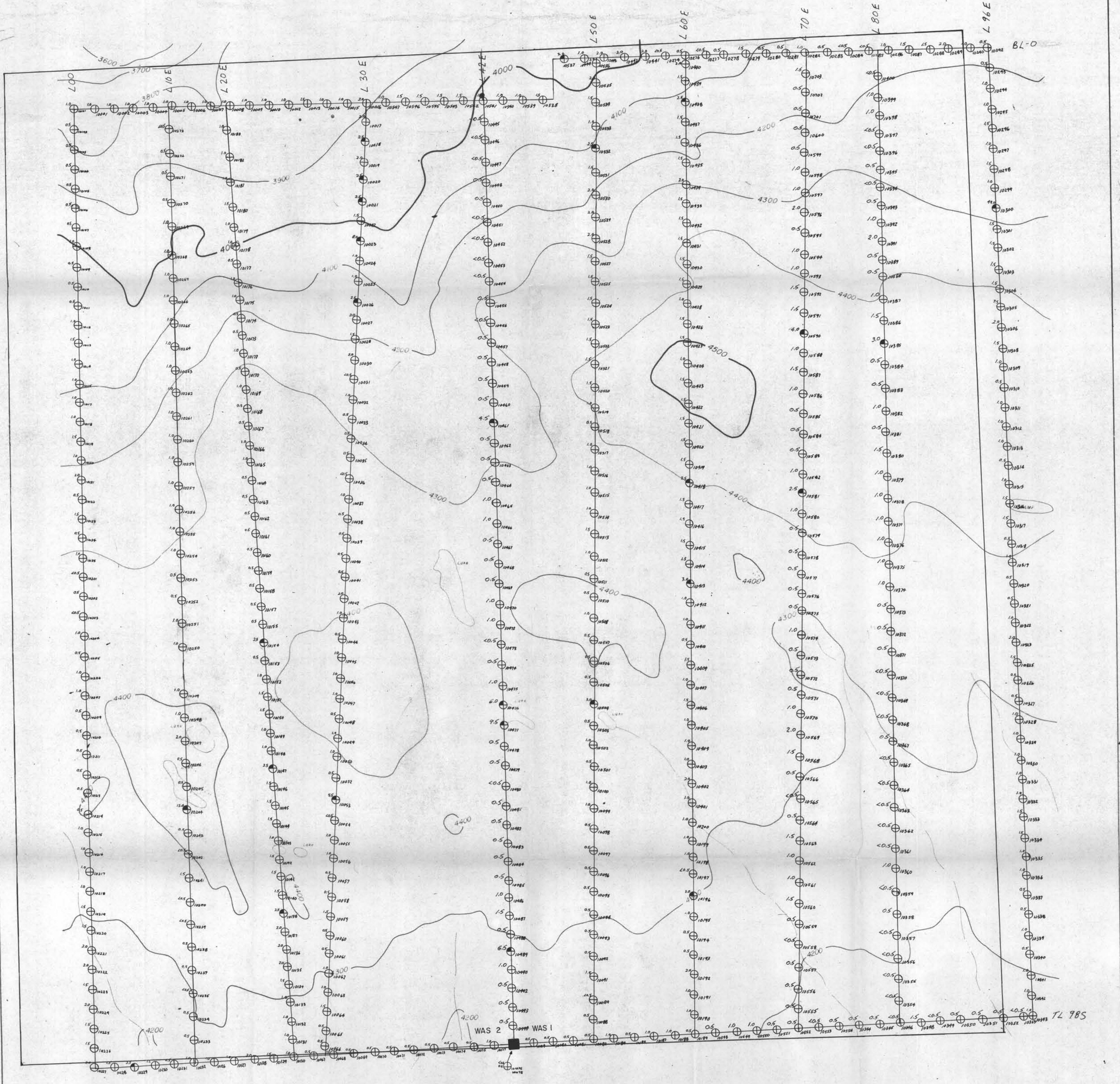
■ Legal Corner Post
 ◻ Corner Post
 ⊠ Intermediate Post
 — Claim Boundary

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **7776**

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 PROJECT PRINIC
WAS 1-2 CLAIMS
 NICOLA MINING DIVISION, BRITISH COLUMBIA
 N.T.S. 92 1 1W

**GEOLOGY & ROCK
 GEOCHEMISTRY**



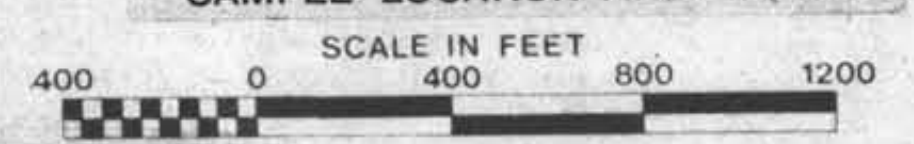


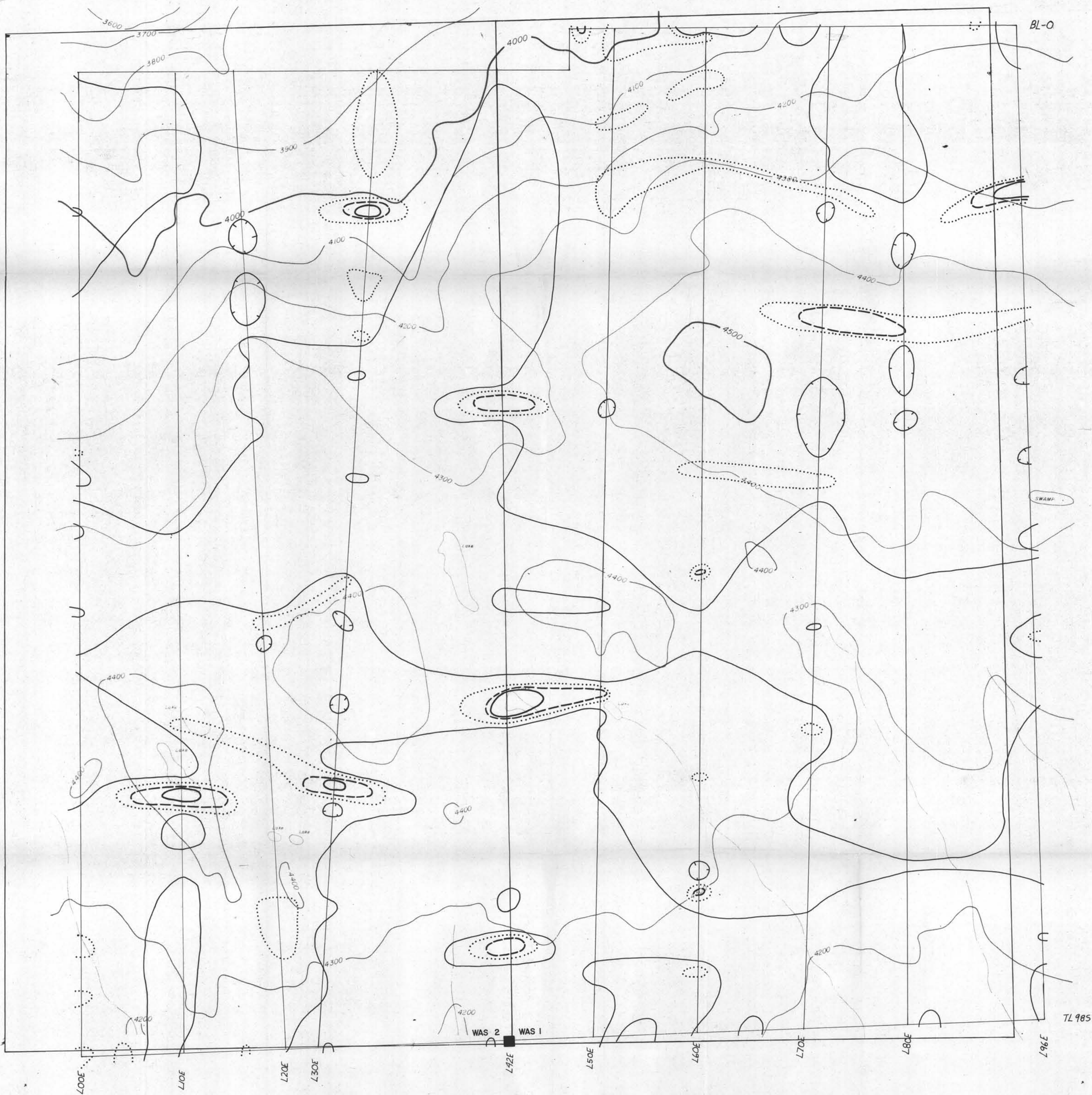
MINERAL RESOURCES BRANCH
7776
NO.

CANADIAN OCCIDENTAL PETROLEUM LTD.
MINERALS DIVISION
PROJECT PRINC
WAS 1-2 CLAIMS
NICOLA MINING DIVISION, BRITISH COLUMBIA
N.T.S. 92 1 W

LEGEND
○ 79 PR sample number
● ANOMALOUS
● > 2.5 ppm U 79 PR sample number

**SOIL GEOCHEMISTRY
URANIUM**
SAMPLE LOCATION AND VALUE





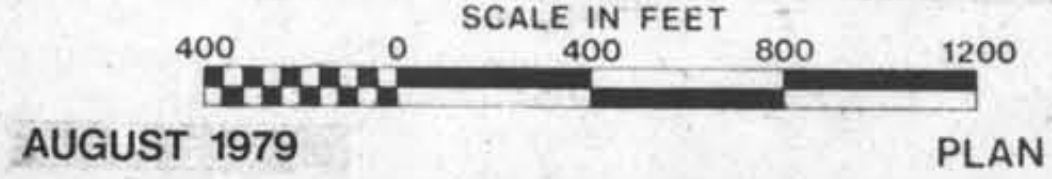
LEGEND
 U contours in ppm
 ——— 50
 - - - - 30
 ······ 20
 ——— 10

— Claim Boundary

MINERAL RESOURCES BRANCH
7776
 NO.

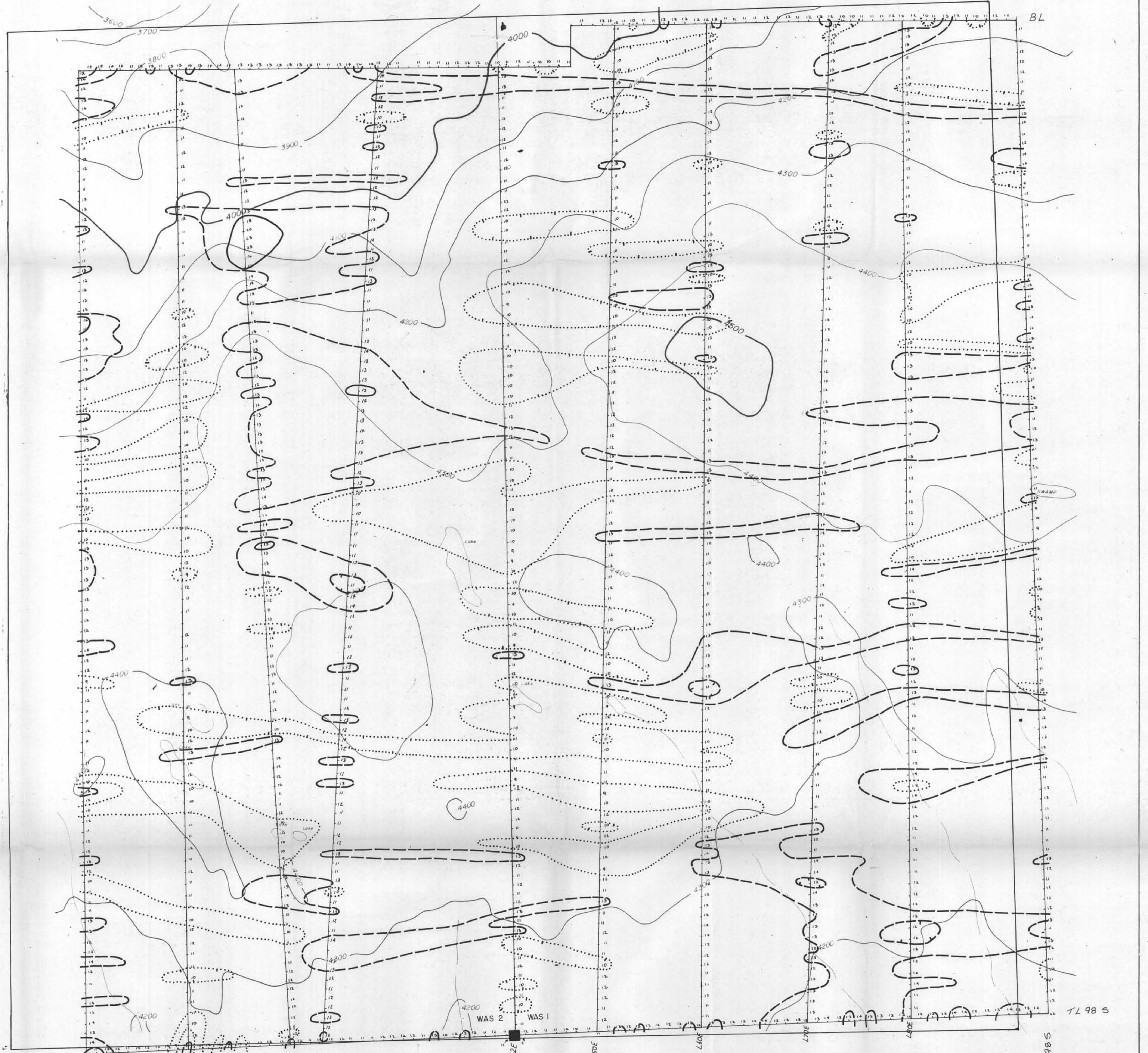
CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 PROJECT PRINIC
WAS 1-2 CLAIMS
 NICOLA MINING DIVISION, BRITISH COLUMBIA
 N.T.S. 92 1 1W

**SOIL GEOCHEMISTRY
 URANIUM
 CONTOURED VALUES**



AUGUST 1979

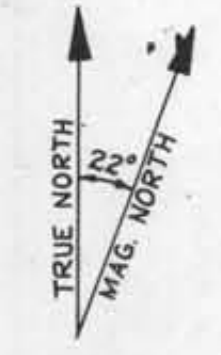
PLAN 3



BL

TL 98 S

L 96 E / 98 E



LEGEND
 Scintillometer contours in c.p.s.
 Urtec Model UG130 (channel = TC2 at 10 sec.)

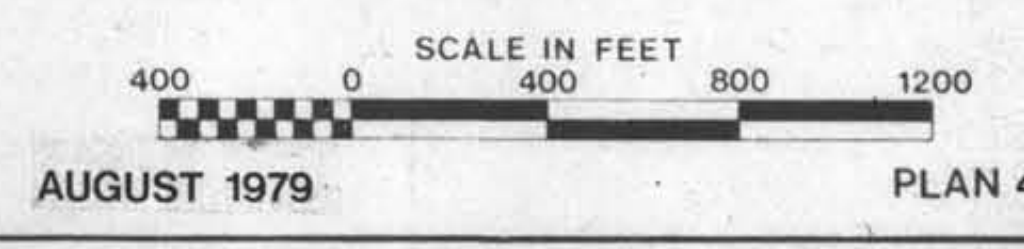
—	15
- - -	13
· · ·	11

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **7776**

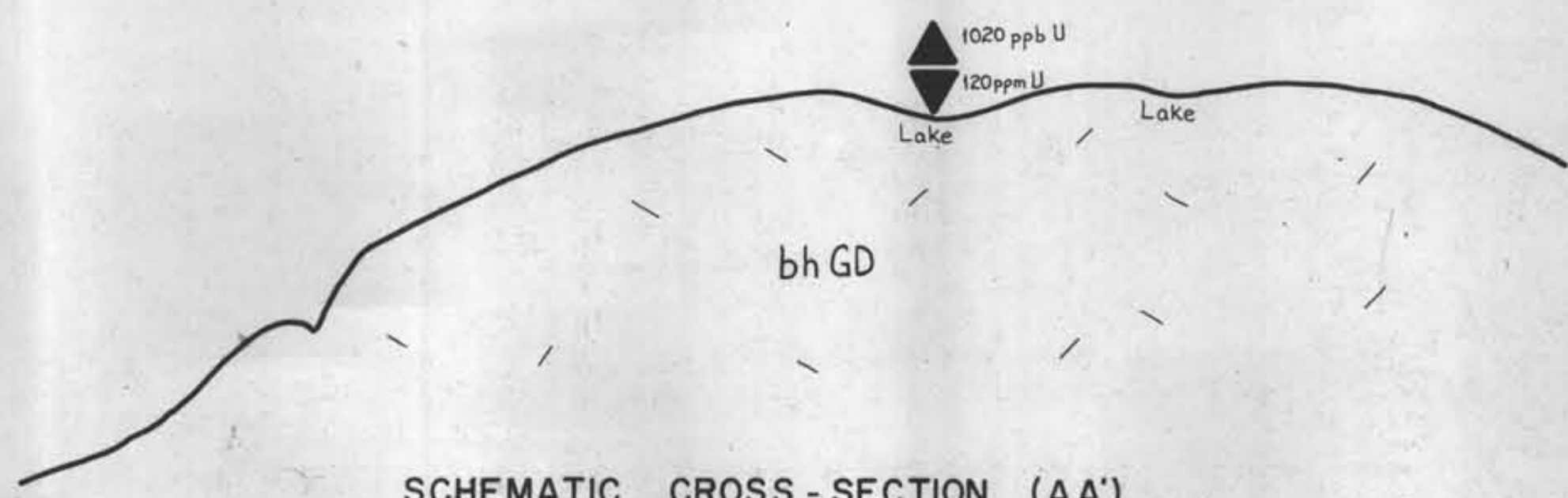
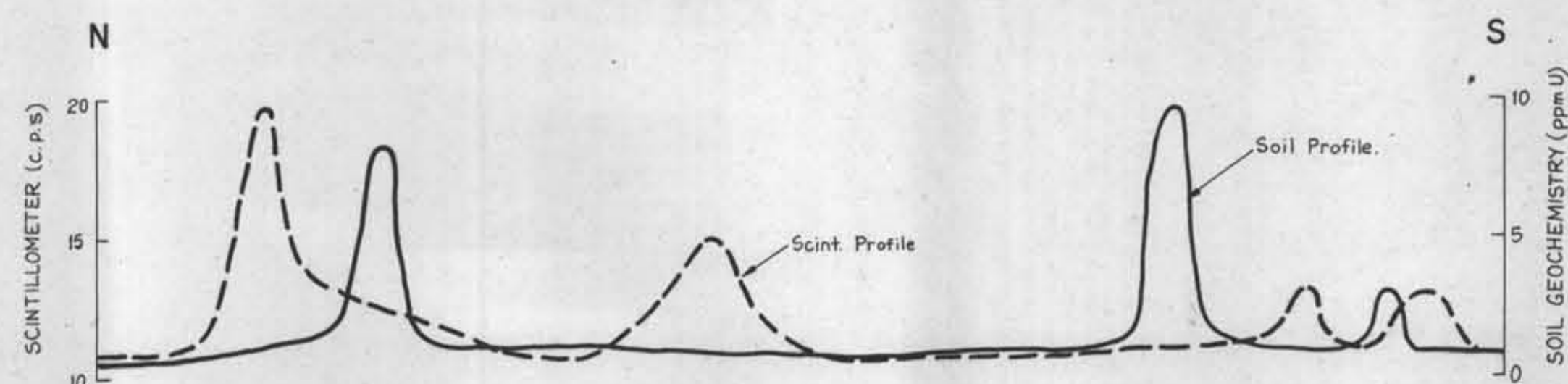
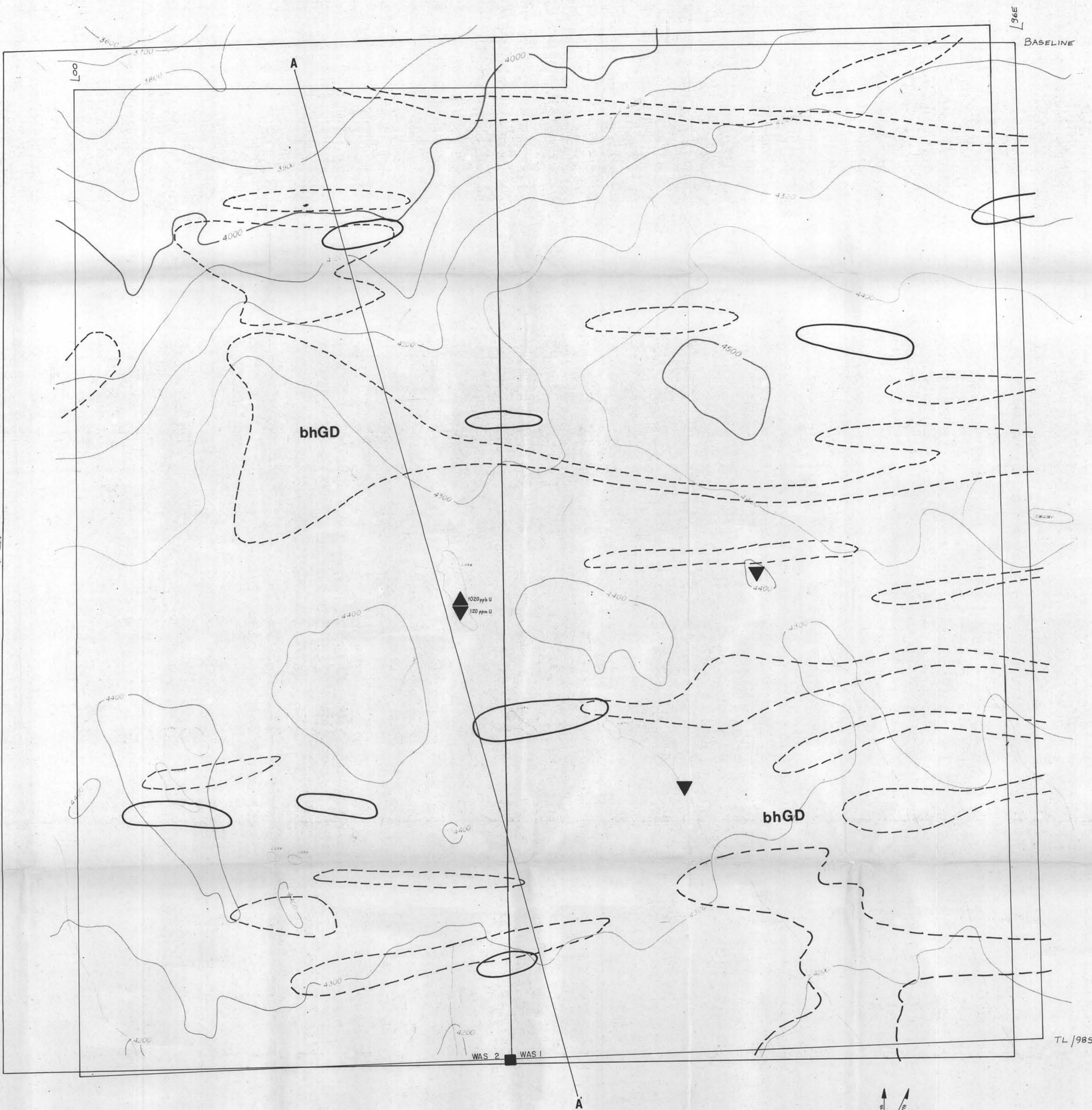
Claim Boundary

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 PROJECT PRINIC
WAS 1-2 CLAIMS
 NICOLA MINING DIVISION, BRITISH COLUMBIA
 N.T.S. 92 1 1W

SCINTILLOMETER SURVEY
 RADIOMETRIC CONTOURS



PLAN 4



- LEGEND**
- SOIL GEOCHEMISTRY 3.0 ppm U CONTOUR
 - - - SCINTILLOMETER 13 cps CONTOUR
 - ◆ WATER GEOCHEMISTRY 1978 SURVEY > 3.0ppb U
 - ◆ SEDIMENT GEOCHEMISTRY 1978 SURVEY > 20.0 ppm U
 - bhGD** biotite-hornblende-granodiorite
 - Claim Boundary



MINERAL RESOURCES BRANCH
7776
 NO. 7776

CANADIAN OCCIDENTAL PETROLEUM LTD.
 MINERALS DIVISION
 PROJECT PRINIC
WAS 1-2 CLAIMS
 NICOLA-MINING DIVISION, BRITISH COLUMBIA
 N.T.S. 92 1 1W

**COMPILATION OF GEOLOGY,
 SOIL GEOCHEMICAL AND
 RADIO-METRIC ANOMALIES**

SCALE IN FEET
 0 400 800 1200
 AUGUST 1979

PLAN 5