

GEOCHEMICAL AND GEOPHYSICAL REPORT  
ON THE  
FLATHEAD 1, 3 TO 10, 12 MINERAL CLAIMS  
FORT STEELE MINING DIVISION  
BRITISH COLUMBIA

FILED

by

R. S. Cameron, B.Sc.  
and  
P. E. Fox, Ph.D., P. Eng.

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VANCOUVER, B.C.

FOX GEOLOGICAL CONSULTANTS LTD.  
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Vancouver, B.C. V6C 1T8

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,091

NTS 82G/ZE  
49°10'10"N 114°32'50"W

Work paid for by Placer Dome Inc.

December 15, 1988

LOG NO: 1212	RD.
ACTION:	
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## SUMMARY

This report summarizes results of a geochemical, geophysical and trenching program on the Grid B target area, Flathead claims, Fort Steele Mining Division, B.C. Work performed included collection of 62 soil samples, three grab samples of rocks, 77 rock chip samples in trenches and 7.8 kilometres of induced polarization survey data. A coincident gold in soil geochemical, chargeability and resistivity low anomaly extends for over 1,500 metres on the grid. A bedrock source has not been identified.

## INTRODUCTION

This report presents the results of the 1988 work program done on the Flathead claim block, Fort Steele Mining Division, British Columbia. The program concentrated on the Grid B target area centred on the Flathead 6, 8 and 12 claims. Work included soil sampling, line cutting, 7.8 kilometres of I.P. and backhoe trenching.

## LOCATION AND ACCESS

The Flathead mineral claims are situated in southeastern B.C. in the vicinity of Trachyte Ridge and Howell Creek (Figure 1). The property is situated approximately thirty kilometres southeast of Fernie, B.C. and twenty kilometres north of the British Columbia-Montana border at latitude 49°10'10"N and longitude 114°32'50"W. The area is within the MacDonald Range of the Rocky Mountains between elevations 1,400 metres and 2,200 metres in moderate to steep terrain. Much of the area is above treeline and ridges are generally rounded to flat upland plateaus.

Access to the claims is by logging roads leading from the locality of Morrissey, thirteen kilometres south of Fernie on Highway 3, for a distance of about 70 kilometres following Morrissey Creek, Lodgepole Creek, Harvey Creek and the Flathead River. Helicopters are necessary for access to the higher elevations and to all of the western half of the claims.

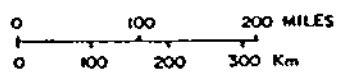
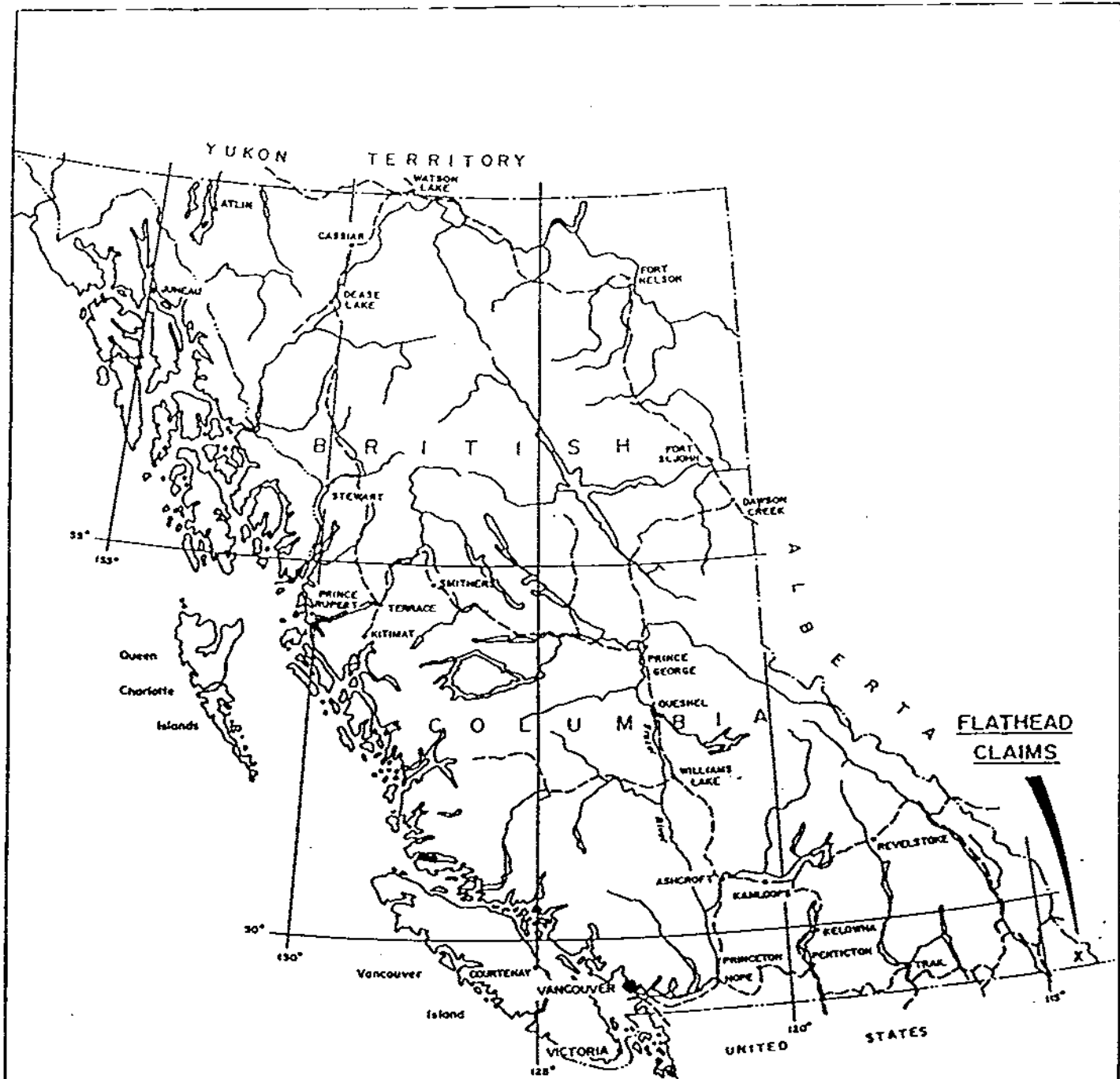
## CLAIM INFORMATION

The Flathead mineral claims (Figure 2) consist of 198 units and are situated within the Fort Steele Mining Division of NTS map sheet 82G/2E and 1W. The expiry dates shown below assume that current work will be accepted for assessment purposes.

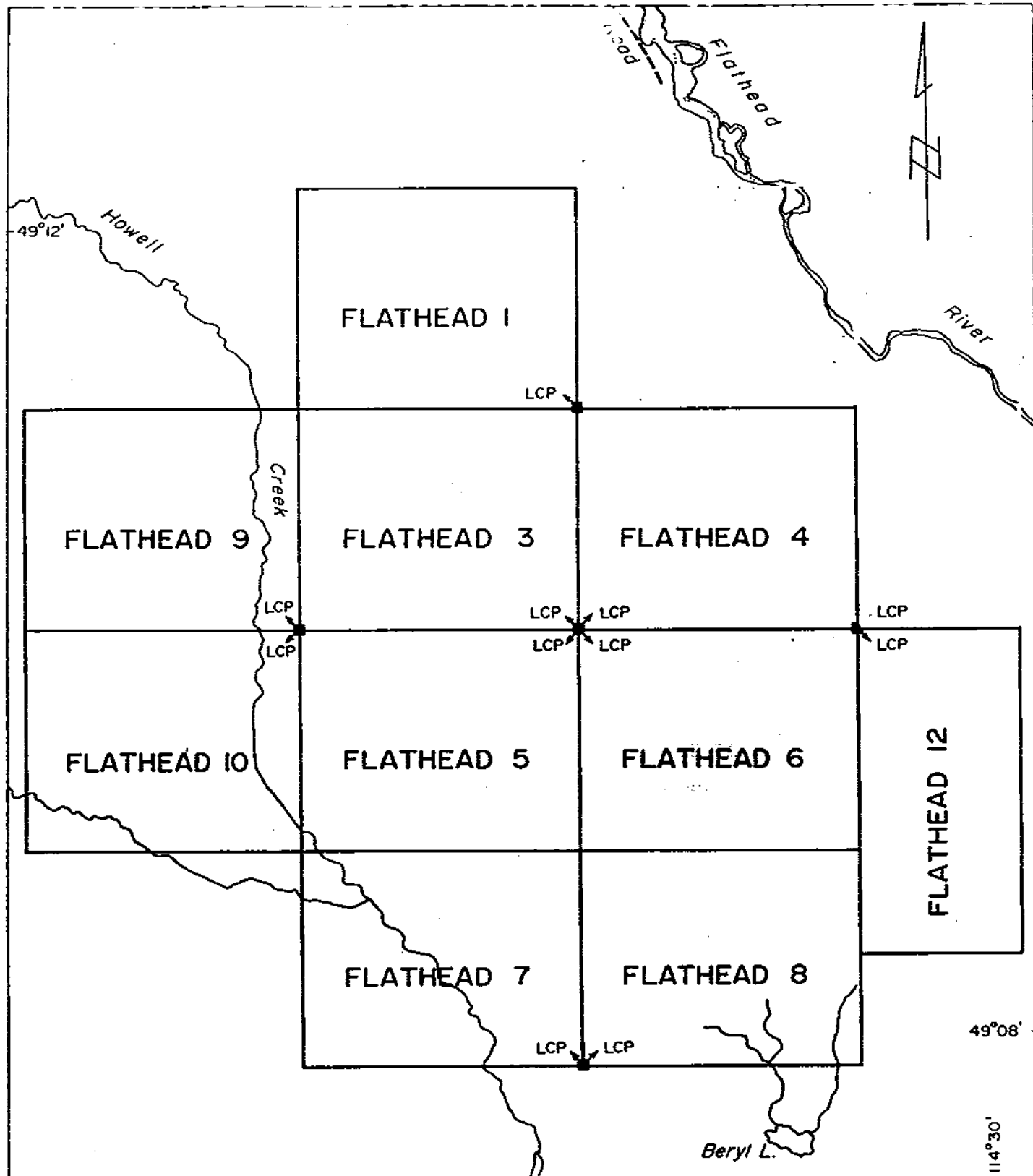
<u>Claim Name</u>	<u>Record #</u>	<u>Units</u>	<u>Group</u>	<u>Expiry Date</u>
Flathead 1	2253	20	A	September 20, 1997
Flathead 3	2255	20	A	September 20, 1997
Flathead 4	2256	20	B	September 20, 1990
Flathead 5	2257	20	A	September 20, 1997
Flathead 6	2258	20	B	September 20, 1990
Flathead 7	2259	20	B	September 20, 1990
Flathead 8	2260	20	B	September 20, 1990
Flathead 9	2261	20	A	September 20, 1997
Flathead 10	2262	20	A	September 20, 1997
Flathead 12	2264	18	B	September 20, 1990

GROUP A - 100 units

GROUP B - 98 units



DOME EXPLORATION (CANADA) LIMITED				
PROJECT N <sup>o</sup> : 138		FORT STEELE M.D., B.C.		
<b>PROPERTY LOCATION PLAN</b>				
<b>FLATHEAD CLAIMS</b>				
FOX GEOLOGICAL CONSULTANTS LTD.				
SCALE	DATE	FILE	N.T.S. N <sup>o</sup>	FIG. N <sup>o</sup>
1:1,000,000	13 Nov. '85	BY: <del>dip</del> GOD	B.C.	1



DOME EXPLORATION (CANADA) LTD.			
PROJECT 138		FORT STEELE M.D.	
<b>CLAIM MAP</b>			
<b>FLATHEAD CLAIMS</b>			
FOX GEOLOGICAL CONSULTANTS LTD.			
SCALE	DATE	N.T.S.	DWG. NO.
1:50 000	01-15-85	82G/2E	<b>2</b>

- 114°35'

49°08'

- 114°30'

## 1988 WORK PROGRAM

The 1988 work program was completed between June 6, 1988 and September 2, 1988. A base camp was established on Twenty-Nine Mile Creek, twenty kilometres northwest of the Grid B work area. Grid locations are summarized on Figure 3.

Work included extending the grid 400 metres to the north, approximately ten kilometres of line cutting, 7.875 kilometres of induced polarization survey, road construction and backhoe trenching.

Soil samples were collected from "B" horizon material (where possible) or a mixture of soil and colluvial material at 50-metre intervals along lines spaced 100 metres apart. Both soil and rock samples were analyzed for ten elements by ICP methods. Gold was analyzed by geochemical techniques in which ten gram samples were dissolved by hot aqua-regia and gold analyzed by AA following MIBK extraction. Analyses were done by Acme Analytical Laboratories Ltd, 852 East Hastings Street, Vancouver, B.C.

The induced polarization survey was done by Scott Geophysics Ltd., 4013 West 14th Avenue, Vancouver, B.C.

The pole dipole electrode array was used on the survey with an "a" spacing of 25 metres and "n" separations of 1 to 5. The current electrode was to the east of the receiving electrodes on all survey lines.

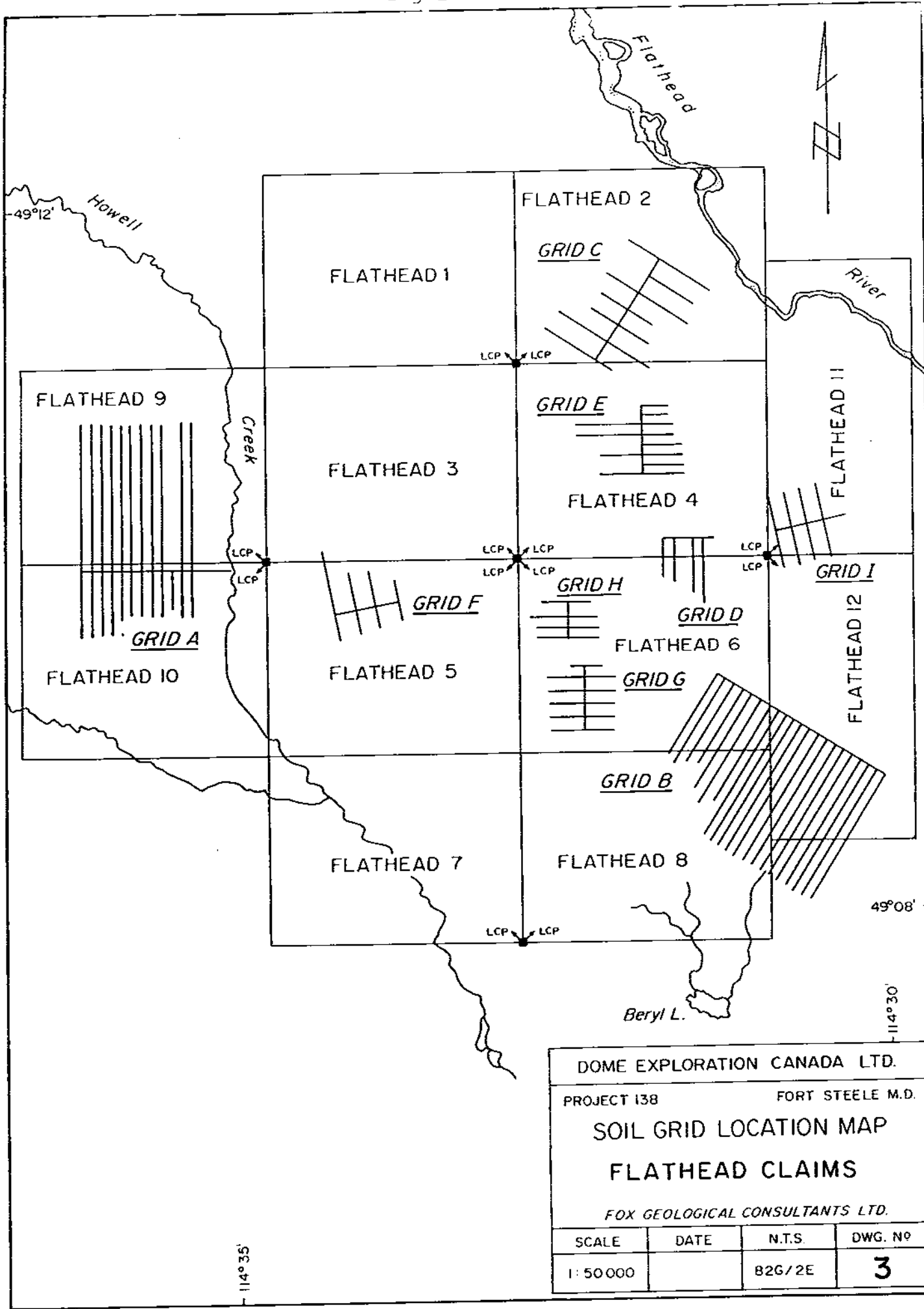
A Scintrex IPR11 time domain microprocessor based induced polarization receiver and a Scintrex IPC7 2.5kw transmitter were used for the survey. Readings were taken using a two second alternating wave.

The chargeability for the eighth slice (2 second pulse; 690 to 1060 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The survey data was archived, processed and plotted using a Sharp PC7000 microcomputer running Scintrex Soft II and proprietary software. All chargeability values were analyzed for their spectral characteristics using a curve matching procedure (Soft II).

## GEOLOGY

The regional geology of the Flathead area taken from mapping by P. B. Jones and incorporating detailed mapping by Dome Exploration (Canada) Limited (now Placer Dome Inc.) appears in Figure 11. The Trachyte Ridge area is underlain by a thick series of Devonian (Palliser Formation) and Mississippian (Exshaw, Banff, Livingstone, Mt. Head and Etherington Formations) limestones, dolomites and black shales and by Permo-Pennsylvanian (Rocky Mountain Formation) quartz arenites and dolomitic sandstones. Numerous small Cretaceous stocks of syenite composition have intruded and locally altered the enclosing sedimentary strata.



DOME EXPLORATION CANADA LTD.			
PROJECT 138		FORT STEELE M.D.	
SOIL GRID LOCATION MAP			
FLATHEAD CLAIMS			
FOX GEOLOGICAL CONSULTANTS LTD.			
SCALE	DATE	N.T.S.	DWG. No
1: 50000		B2G/2E	<b>3</b>



Grid B is located in the southeast corner of the Flathead claim block, centred on Flathead 6, 8 and 12 claims. It is established over a faulted sequence of Palliser Formation limestones, Exshaw Formation shales, Banff Formation limestones, Rundle Group limestones and Rocky Mountain Formation dolomitic quartz sandstones. A small syenite plug has intruded the Rundle Group limestones.

## RESULTS

### Soil and Rock Geochemistry

Four additional soil lines were added to the northwest end of the existing grid. Values for gold are plotted on Figure 4. A prominent gold in soil anomaly extends for 1,600 metres from line 87E to line 73E. The anomaly is open off the northwest end of the grid. All other elements were at background levels. Isolated anomalies located along the central drainage on the grid probably represent fluvial or glacial dispersion. Outcrop exposure within the soil anomaly is poor with only isolated occurrences of limestone and rare syenite. Three grab samples were collected from within the soil anomaly. These are plotted on Figure 10 with rock descriptions in Appendix I. One sample of limestone breccia with malachite returned 290ppb gold.

### Geophysics

A 7.8 kilometre induced polarization survey was conducted on lines 88E to 77E. Chargeability and resistivity values for  $n=1$  are plotted on Figures 5 and 6 respectively and all data summarized in pseudosections on Figure 7. A linear low contrast chargeability anomaly of 3 to 6 milliseconds in a background of 2.5 milliseconds extends the length of the survey grid. It corresponds to the uphill trace of the soil geochemistry anomaly. A discontinuous resistivity low corresponds to the chargeability anomaly.

### Trenching

Three backhoe trenches were excavated on lines 83E, 86E and 82E and designated as trench A, B and C respectively. Trench C failed to reach bedrock. Sampling of trench A and B returned background levels for gold in all samples. Geology and gold geochemistry are summarized in Figures 8 and 9.

## CONCLUSIONS AND RECOMMENDATIONS

Work to date on the Grid B target has indentified a coincident gold in soil geochemical anomaly and a chargeability anomaly. The limited trenching to date has failed to uncover a bedrock source for the anomalies. Further trenching either with a backhoe or by hand is required in 1989. As well, additional soil sampling will be required at the northwest end of the soil grid where the anomaly is still open.

DISBURSEMENTS

Project disbursements for 1988 were \$35,803.76 and are tabulated below in Table 2.

Table II  
Disbursements

Personnel

R. Cameron - Geologist	2.0 days x \$256/day	\$ 512.00	
G. Kulla - Geologist	19.0 days x \$176/day	3,344.00	
A. Butler - Slasher	6.0 days x \$160/day	960.00	
A. Williamson - Slasher	10.5 days x \$160/day	1,680.00	
C. Moffat - Sampler	2.0 days x \$144/day	288.00	
E. Birkett - Sampler	7.0 days x \$144/day	1,008.00	
C. Dowall - Sampler	14.5 days x \$128/day	1,856.00	
S. Cornwall - Sampler	10.0 days x \$120/day	1,320.00	
		<hr/>	\$10,968.00

Accommodation & Board  
107 man days @ \$40/day 4,280.00

Geochemistry  
80 rocks x \$14.25 1,140.00  
62 soils x \$11.25 697.50  

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 1,837.50

Geophysics  
I.P 12,348.26

Cat - D7 2,580.00

Backhoe 1,100.00

Truck Rental  
22 days @ \$45 990.00


Report Writing 1,200.00


Supplies 500.00

TOTAL DISBURSEMENTS \$35,803.76  
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Prepared by:

FOX GEOLOGICAL CONSULTANTS LTD.


  
Robert S. Cameron, B.Sc.  
December 15, 1988

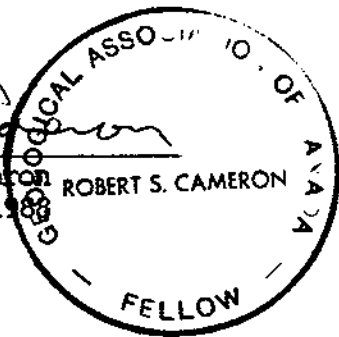
  
P. E. Fox, Ph.D., P. Eng.  
December 15, 1988

**CERTIFICATE**

I, Robert S. Cameron, of the City of Vancouver, B.C., do hereby certify that:

1. I graduated from Carleton University in 1981 with a Bachelor of Science degree in geology.
2. I have been practising my profession as a geologist since 1981.
3. I am a fellow of the Geological Association of Canada.
4. I have worked on the Flathead claims for the period specified in this report.

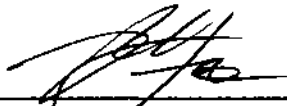
  
Robert S. Cameron  
December 15, 1988



**CERTIFICATE**

I, Peter Edward Fox, certify to the following:

1. I am a consulting geologist residing at 890 Farnleigh Road, West Vancouver, B.C.
2. I am a Professional Engineer registered in the Association of Professional Engineers in British Columbia.
3. My academic qualifications are:  
B.Sc. and M.Sc., Queens University, Kingston, Ontario  
Ph.D., Carleton University, Ottawa, Ontario
4. I have been engaged in geological work since graduation in 1966.



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Peter E. Fox, Ph.D., P.Eng.  
Vancouver, British Columbia  
December 15, 1988

**A P P E N D I X I**

**Analytical Results**

Flathead Claims Grid B

No	Cu	Pb	Zn	Ag	Fe	As	Sb	Ca	Ba	Au	PROPERTY	Sampler	Sample Type	Material Sampled	Soil Horizon	Colour	Topography	Remarks	grid	Worthing	Rasting memo
ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppb											
21817	3	2	2	3	0.1	0.23	4	2	2.10	9	3 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" UPPER END 0-2M.	B	0.00	0.00 Brown medium grained quartzite; outcrop is highly fractured w/ a light brown sandy material on fractures.
21818	2	2	2	2	0.1	0.27	15	2	0.61	7	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 2-4M	B	0.00	0.00 As before.
21819	4	2	2	2	0.2	0.25	3	2	0.01	1	7 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 4-6 M. S.O.S.	B	0.00	0.00
21820	2	3	2	1	0.1	0.30	6	2	0.06	6	3 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 6-8M. S.O.S.	B	0.00	0.00
21821	4	4	2	11	0.1	0.57	17	2	0.03	10	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 8-10M. S.O.S.	B	0.00	0.00 Brown medium grained equigranular quartzite locally limonitic.
21822	2	5	2	15	0.1	0.65	25	3	0.03	9	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 10-12M. S.O.S.	B	0.00	0.00 Brown quartzite/dolomite? Highly fractured occasional open voids.
21823	4	4	2	6	0.1	0.47	33	2	0.05	7	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 12-14M. S.O.S.	B	0.00	0.00
21824	2	4	2	6	0.1	0.42	22	2	0.05	5	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 14-16M. S.O.S.	B	0.00	0.00
21825	4	4	2	8	0.1	0.44	19	2	0.04	4	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 16-18M.	B	0.00	0.00
21826	2	5	2	8	0.1	0.47	24	2	0.05	5	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 18-20M.	B	0.00	0.00
21827	3	4	2	20	0.1	0.33	18	2	0.23	5	8 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 20-22M. S.O.S.	B	0.00	0.00
21828	1	8	2	30	0.1	0.37	24	2	3.60	8	9 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 22-24M. S.O.S.	B	0.00	0.00 Highly fractured brown quartzite/dolomite; fractures are commonly open voids; local patch of clast supported breccia; angular fragments of quartzite/dolomite in calcite & sandy matrix.
21829	3	7	2	13	0.1	0.55	21	2	0.41	18	3 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 24-26M. S.O.S.	B	0.00	0.00
21830	2	3	2	7	0.1	0.25	11	2	3.64	5	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 26-28M. S.O.S.	B	0.00	0.00 Angular dolomite/quartzite fragments in a clast supported breccia, calcite & loose sandy material between fragments.
21831	3	5	2	8	0.1	0.28	10	2	3.47	4	5 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 28-30M.	B	0.00	0.00 limestone quartzite/dolomite breccia. May have some talus overburden in sample.
21832	1	5	2	9	0.1	0.23	9	3	6.40	5	7 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 30-32M.	B	0.00	0.00 Sandy dolomite angular fragments in a coarse [recrystallize?] calcite matrix.
21833	2	5	4	9	0.1	0.22	14	3	4.84	6	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 32-34M. S.O.S.	B	0.00	0.00 Angular dolomitic fragments surrounded by open fractures & calcite.
21834	1	6	2	10	0.1	0.26	12	3	4.89	7	10 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	Trench a 34-36m.	B	0.00	0.00 Sandy dolomite brown rock, moderately fractured; commonly vuggy/ open fractures coated with calcite. One set of prominent planar fractures dips steeply to the south & strik near // to trench.
21835	2	6	2	9	0.1	0.21	12	3	5.33	5	15 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 36-38M. S.O.S.	B	0.00	0.00 Same as #21834.
21836	1	7	2	14	0.1	0.24	10	2	5.54	6	19 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	Trench "a" 38-40M. S.O.S	B	0.00	0.00
21837	2	11	3	12	0.1	0.30	9	2	0.94	8	25 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 40-42M. S.O.S.	B	0.00	0.00 Sandy dolomite & dolomitic breccia.
21838	2	12	2	24	0.1	0.24	16	3	9.05	8	5 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 42-44M. S.O.S	B	0.00	0.00
21839	1	12	2	21	0.1	0.32	15	3	5.69	9	21 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 44-46M.	B	0.00	0.00 Highly fractured sandy dolomite.
21840	2	11	4	18	0.1	0.38	16	3	4.34	9	11 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 46-48M.	B	0.00	0.00 highly fractured soft sandy dolomite.
21841	1	9	3	26	0.2	0.57	31	2	3.08	14	10 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 48-50M. S.O.S.	B	0.00	0.00
21842	2	11	3	14	0.1	0.52	32	3	6.26	32	12 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 50-52M. S.O.S.	B	0.00	0.00 Sugary textured hard limestone.
21843	1	7	3	8	0.1	0.41	6	2	0.25	14	9 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 52-54M.	B	0.00	0.00 Very hard vuggy limestone, soft sandy dolomite.
21844	3	9	3	10	0.1	0.32	11	2	0.12	9	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 54-56M.	B	0.00	0.00 Highly fractured sandy dolomite.
21845	1	5	2	9	0.1	0.28	5	2	0.14	9	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 56-58M.	B	0.00	0.00 Angular fragments of dolomite in sandy cement - very porous cement; commonly stained brown.
21846	3	3	2	6	0.1	0.53	20	3	0.03	11	3 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 62-64M. SAME AS	B	0.00	0.00 (A scree?)

Flathead Claims Grid B

No	Cu	Pb	Zn	Ag	Fe	As	Sb	Ca	Ba	Au	PROPERTY	Sampler	Sample Type	Material Sampled	Soil Horizon	Colour	Topography	Remarks	grid	Northing	Easting	uses
ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppb												
21849	1	3	2	9	0.1	0.56	15	3	0.04	15	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "A" 64-66M. END OF TRENCH.	B	0.00	0.00	
21850	1	8	12	79	0.1	4.74	2	2	0.77	74	1 FLAT	KULLA	CHIP	BEDROCK		GREEN	HILLSIDE	TRENCH "B" 0-2M. NORTH END.	B	0.00	0.00	Brown green porphyritic syenite. K spar? Feldspar phenos to .5cm in a green groundmass with abundant magnetic specs & rare green altered? feldspars & green radiating fibrous plagioclase/ chlorite? Trench is 1/2 m. deep. Syenite is moderately fractured; one subparallel set dips moderate to steep west. Fractures have abundant brown silver grey oxides; difficult to find fresh surface.
22501	1	15	17	108	0.1	4.72	2	2	0.95	91	3 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 2-4M. S.O.S.	B	0.00	0.00	Occasional vugs lined with orange brown limonite.
22502	1	16	22	110	0.1	4.78	5	2	1.52	53	4 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 4-6M. S.O.S.	B	0.00	0.00	
22503	1	14	15	106	0.1	4.46	2	2	1.09	42	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 6-8M. S.O.S.	B	0.00	0.00	
22504	1	19	16	106	0.1	4.47	2	2	1.38	40	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 8-10M.	B	0.00	0.00	
22505	1	12	23	113	0.1	4.48	3	2	1.39	34	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 10-12M. S.O.S.	B	0.00	0.00	
22506	1	13	24	127	0.1	4.59	1	2	1.04	37	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 12-14M. S.O.S.	B	0.00	0.00	
22507	1	13	21	112	0.1	4.56	2	2	0.91	34	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 14-16M. S.O.S.	B	0.00	0.00	Trench is about 1.5m. deep. Less black-brown silver/grey limonite.
22508	1	13	30	110	0.1	4.70	5	2	0.95	34	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 16-18M. S.O.S.	B	0.00	0.00	
22509	1	10	7	105	0.1	4.60	2	2	0.71	34	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 18-20M. S.O.S.	B	0.00	0.00	Syenite intrusive.
22510	1	9	11	100	0.1	4.69	7	1	0.71	40	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 20-22M. S.O.S.	B	0.00	0.00	
22511	1	10	15	105	0.1	4.65	5	2	0.66	38	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 22-24M.	B	0.00	0.00	
22512	1	9	14	99	0.1	4.65	2	2	0.68	28	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 24-26M.S.O.S.	B	0.00	0.00	Feldspar porphyritic green matrix syenite. Common magnetite. Common hematite & yellow orange limonite.
22513	1	8	8	86	0.1	4.35	4	2	0.68	28	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 26-28M. S.O.S.	B	0.00	0.00	
22514	1	11	8	74	0.1	4.37	5	2	0.63	29	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 28-30M. S.O.S.	B	0.00	0.00	
22515	2	8	7	82	0.1	3.86	4	2	3.39	30	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 30-32M.S.O.S	B	0.00	0.00	Possibly some talus on colluvium. A large rounded boulder? in trench sampled above it.
22516	1	7	8	83	0.1	4.43	2	2	0.67	29	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 32-34M. S.O.S.	B	0.00	0.00	
22517	1	12	7	82	0.1	4.36	9	2	0.76	83	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 34-36M. S.O.S.	B	0.00	0.00	Locally strongly limonitic & clayey.
22518	2	10	17	127	0.2	2.60	14	2	8.42	216	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 35-38M.	B	0.00	0.00	Contact between syenite intrusive & grey limestone. Intrusive is soft clayey & limonitic. Limestone is hard medium grained & has common irregular calcite veins. contact is irregular & may dip to south, southeast.
22519	1	2	3	19	0.2	0.24	3	2	23.40	16	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 38-40M.	B	0.00	0.00	Limestone; common irregular calcite veins; limonite on fractures.
22520	1	2	2	11	0.3	0.24	3	2	25.38	19	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 40-42M.	B	0.00	0.00	Same old limestone.
22521	1	2	2	15	0.2	0.19	6	2	23.30	19	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 42-44M. S.O.S.	B	0.00	0.00	
22522	1	1	2	6	0.2	0.14	2	2	24.59	15	1 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 44-46M. S.O.S.	B	0.00	0.00	Bedding dipping moderately to S.E.
22523	1	1	2	6	0.3	0.15	2	2	24.57	40	2 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 46-48M. S.O.S.	B	0.00	0.00	
22524	1	2	3	5	0.3	0.19	5	2	23.27	402	4 FLAT	KULLA	CHIP	BEDROCK		BROWN	HILLSIDE	TRENCH "B" 48-50M.	B	0.00	0.00	Fractures limonitic variably soft clayey & hard.

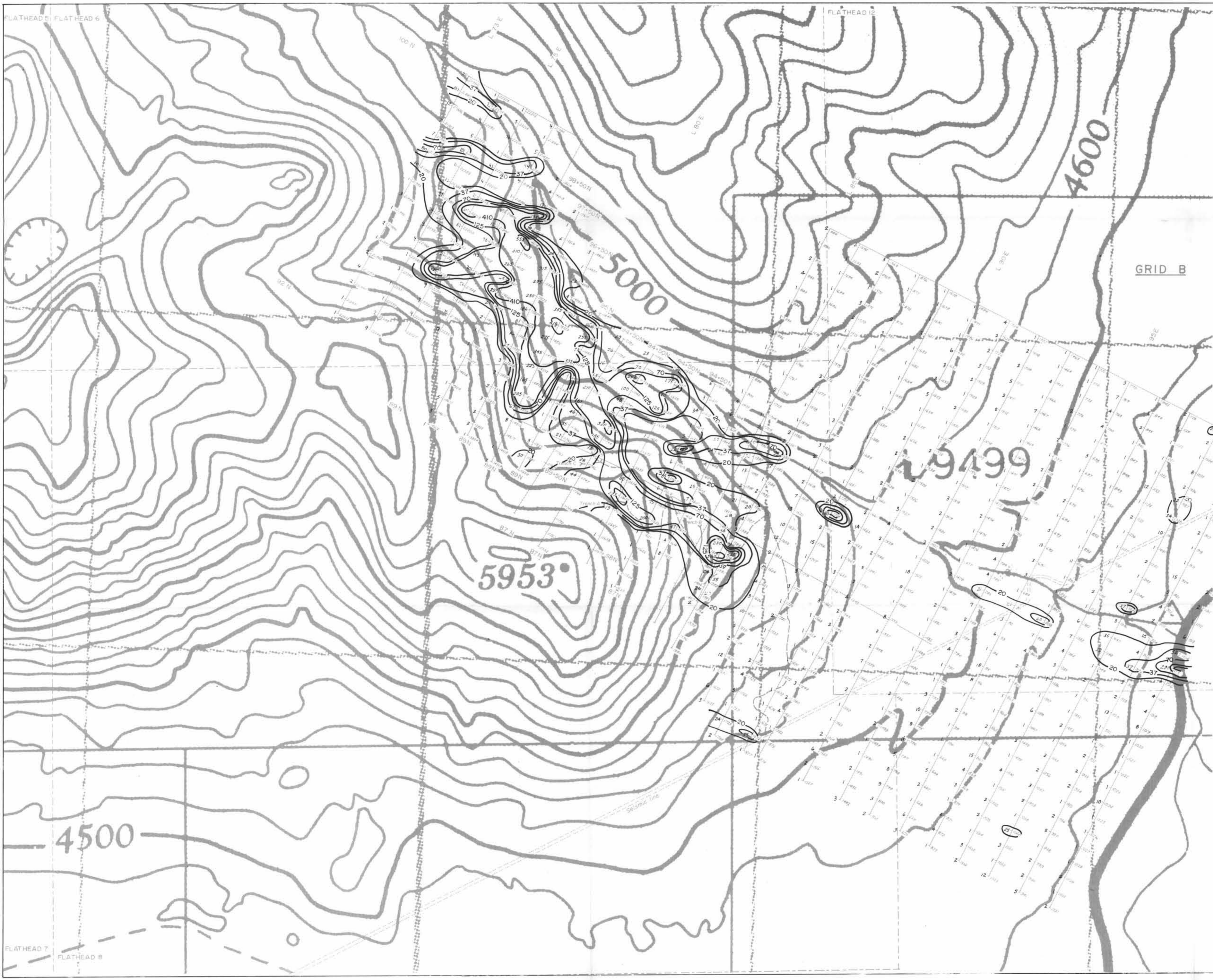
Flathead Claims Grid B

No	Cu	Pb	Zn	Ag	Fe	As	Sb	Ca	Ba	Au	Sampler	Sample Material	Soil	grid	Northing	Easting	Remarks		
ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppb	Type	Sampled	Horizon	Colour	Topography	Remarks			
22525	2	2	3	7	0.3	0.23	4	2 18.84	86	1	FLAT	KULLA CHIP BEDROCK	BROWN HILLSIDE	TRENCH "B" 50-52M.	B	0.00	0.00	Cherty limestone; beds roughly 24/30 SE.	
22526	1	2	3	5	0.3	0.20	6	2 20.45	1650	2	FLAT	KULLA CHIP BEDROCK	BROWN HILLSIDE	TRENCH "B" 52-54M.	B	0.00	0.00	Cherty dolomite bedded limestone.	
22527	5	3	4	10	0.3	0.30	7	3 22.86	1443	2	FLAT	KULLA CHIP BEDROCK	BROWN HILLSIDE	TRENCH "B" 54-56M. S.O.S.	B	0.00	0.00	Occasional carbonaceous beds & chert & calcite pebbly beds (rare).	
22528	1	4	4	14	0.5	0.34	4	2 21.11	1148	3	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 56-58M.	B	0.00	0.00	Carbonaceous shaley beds & moderately cemented talus or scree.	
22529	2	4	2	11	0.2	0.35	2	2 12.94	85	3	FLAT	KULLA CHIP TALUS	GREY HILLSIDE	TRENCH "B" 58-60M.	B	0.00	0.00	Probably dolomite/limestone talus.	
22530	1	3	4	18	0.2	0.24	3	2 16.03	8	4	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 60-62M.	B	0.00	0.00	Brown grey sandy dolomite.	
22532	1	3	5	25	0.2	0.33	2	2 15.89	11	2	FLAT	KULLA CHIP BEDROCK	BROWN HILLSIDE	TRENCH "B" 64-66M. SAME AS 22531	B	0.00	0.00		
22533	1	6	37	45	0.3	0.29	5	2 14.58	7	2	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 66-68M. S.O.S.	B	0.00	0.00		
22534	1	3	3	22	0.2	0.40	4	2 9.94	31	4	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 68-70M. S.O.S.	B	0.00	0.00	Bedded limestone dolomite & cherty pebbly beds.	
22535	1	2	2	8	0.2	0.24	2	2 15.86	20	3	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 70-72M. S.O.S.	B	0.00	0.00		
22536	1	2	8	11	0.3	0.27	2	2 14.24	1609	2	FLAT	KULLA CHIP BEDROCK	GREY HILLSIDE	TRENCH "B" 72-74M. END OF SAMPLES.	B	0.00	0.00	S.O.S Limestone. Start of trench is 90m from road bearing approx. N. L868 (new); 89+00M.	
21816	3	216	2	58	0.1	0.82	7	3 22.13	51	32	FLAT	KULLA GRAB BEDROCK	WHITE HILLSIDE		B	0.00	0.00	Limonic, pyritic coarse grained calcite on road - 84+90. Limonic remnant pyrite recrystallized lat. cl + vuggy. Medium grained non reactive calcite or qtz; sample from first pyrite contact.	
21846	2	4	2	7	0.1	0.26	3	3 0.15	9	2	FLAT	KULLA GRAB BEDROCK	BROWN HILLSIDE	TRENCH "A" 58-60M.	B	0.00	0.00	Highly fractured dolomitic sandstone.	
21847	1	4	2	8	0.1	0.42	7	2 0.10	15	1	FLAT	KULLA GRAB BEDROCK	BROWN HILLSIDE	TRENCH "A" 60-62M.	B	0.00	0.00	Grey dolomite/sandstone angular fragments in sandy cement.	
21908	6	291	96	103	0.1	12.48	49	7 0.07	9	68	FLAT	CAMERON GRAB FLOAT	BROWN HILLSIDE	QTZITE BRX-LIMONITE TR. MALACHITE	B	0.00	0.00	FLOAT ON NEW ROAD APP. 82+50 SOON ROUND BOULDER POLYLATED ANGULAR QTZITE FRAGSWITH VUGGY LIMONITE FRACTURES, TRACE MALACHITE, MICRO QTZ VIBULETS.	
21913	1	26315	15	110	0.3	14.80	16	4 0.71	31	290	FLAT	CAMERON GRAB FLOAT	BROWN HILLSIDE	LIMONITIC BRX TRACE CHALCO	B	9050.00	8200.00	FLOAT ON ROAD. BRX WITH CLASTS OF DOLOMITIC SANDSTONE. BLACK CARBON ACROSS ROCK AND MASSIVE LIMONITE, ABUNDANT MALACHITE, TRACE CHALCO AND PYRITE.	
22402	1	10	22	110	0.1	2.67	14	2 0.11	65	1	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9200.00	7300.00	
22394	1	14	57	178	0.1	2.83	7	2 0.09	82	9	FLAT	CORNWALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9200.00	7400.00	
22401	1	11	33	86	0.1	3.78	10	2 0.06	67	1	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9250.00	7300.00	
22393	1	15	31	160	0.1	2.66	10	2 0.18	64	2	FLAT	CORNWALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9250.00	7400.00	
22000	1	9	16	92	0.1	1.98	7	2 0.08	54	2	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9300.00	7300.00	
22392	1	12	29	131	0.1	2.76	9	2 0.13	80	1	FLAT	CORNWALL SOIL COLLUVIUM	B	ORANGE HILLSIDE		B	9300.00	7400.00	
22227	1	13	21	50	1.3	1.51	13	2 0.53	39	4	FLAT	BIRKETT SOIL ORGANIC TOPSOIL	BROWN HILLSIDE		B	9300.00	7500.00		
22357	1	17	32	153	0.1	2.66	11	2 2.82	111	17	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9300.00	7600.00	
21999	1	13	28	116	0.1	2.05	8	2 0.10	48	4	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE	DRY CREEK AT 93.57	B	9350.00	7300.00	
22391	1	16	29	151	0.2	2.39	8	2 0.21	46	1	FLAT	CORNWALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9350.00	7400.00	
22226	1	22	34	292	0.2	2.38	4	3 2.22	352	7	FLAT	BIRKETT SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9350.00	7500.00	
22356	1	16	25	132	0.1	2.79	8	2 0.88	109	15	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9350.00	7600.00	
21998	1	19	28	100	0.1	3.14	10	2 0.36	124	2	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9400.00	7300.00	
22390	1	22	40	133	0.2	2.97	7	2 4.99	82	3	FLAT	CORNWALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9400.00	7400.00	
22225	1	21	33	167	0.3	2.59	11	2 1.16	83	9	FLAT	BIRKETT SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9400.00	7500.00	
22355	1	22	32	229	0.1	3.10	9	2 0.48	121	2	FLAT	DONALL SOIL COLLUVIUM	B	BROWN HILLSIDE		B	9400.00	7600.00	



Flathead Claims Grid B

No	Cu	Pb	Zn	Ag	Fe	As	Sb	Ca	Ba	Au	Sampler	Sample Type	Material Sampled	Soil			Remarks	grid	Northing	Easting	masc		
														Horizon	Colour	Topography							
ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppb	PROPERTY												
21997	1	19	48	120	0.2	2.93	18	2	1.33	86	1	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9450.00	7300.00	
22389	1	26	30	150	0.1	3.36	11	2	0.81	137	1	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9450.00	7400.00	
22224	2	47	25	96	0.4	1.93	9	2	0.45	42	270	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9450.00	7500.00	
22354	1	25	22	166	0.2	3.04	12	2	0.47	130	56	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9450.00	7600.00	
21996	1	31	34	128	0.4	1.51	16	3	1.16	79	2	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9500.00	7300.00	
22388	1	30	35	144	0.1	3.73	11	2	0.82	128	4	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9500.00	7400.00	
22223	1	20	25	88	0.1	1.92	7	2	0.28	34	52	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9500.00	7500.00	
22353	1	54	30	134	0.3	3.56	18	2	0.39	78	201	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9500.00	7600.00	
21995	1	22	58	141	0.1	3.25	16	2	1.39	111	1	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9550.00	7300.00	
22387	1	37	52	163	0.1	3.36	14	2	0.64	118	3	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9550.00	7400.00	
22222	1	21	29	150	0.2	1.78	8	2	10.94	55	7	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9550.00	7500.00	
22352	2	29	28	104	0.3	2.95	13	2	0.36	60	143	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9550.00	7600.00	
21994	1	24	60	182	0.2	3.26	14	2	3.59	90	3	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9600.00	7300.00	
22386	1	36	41	160	0.1	3.46	14	2	2.37	116	34	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9600.00	7400.00	
22221	1	36	45	207	0.2	2.75	11	2	0.53	74	61	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9600.00	7500.00	
22351	1	33	31	192	0.2	2.73	11	2	1.47	75	48	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9600.00	7600.00	
21993	1	38	47	189	0.4	2.76	14	2	10.19	70	1	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9650.00	7300.00	
22385	1	39	40	203	0.3	3.24	10	2	1.51	107	31	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9650.00	7400.00	
22220	1	59	45	157	0.1	3.13	14	2	0.70	117	260	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9650.00	7500.00	
21990	2	34	25	125	0.3	2.48	14	2	0.27	40	125	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9650.00	7600.00	
21992	1	34	50	243	0.4	3.67	19	3	0.82	91	20	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9700.00	7300.00	
22384	1	25	49	182	0.1	3.16	11	2	2.00	132	13	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9700.00	7400.00	
22219	2	23	20	117	0.2	2.47	8	2	0.46	128	78	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9700.00	7500.00	
21899	2	19	21	140	0.1	2.36	11	2	0.34	94	405	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9700.00	7600.00	
21991	1	28	27	137	0.3	3.11	14	2	0.27	90	88	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9750.00	7300.00	
22383	1	31	24	121	0.1	3.18	12	2	0.57	105	11	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	FLAT		B	9750.00	7400.00	
22218	1	9	26	82	0.1	0.95	3	2	0.33	85	16	FLAT	BIRKETT	SOIL	ORGANIC	TOPSOIL	BROWN	HILLSIDE		B	9750.00	7500.00	
21898	1	6	16	78	0.1	1.95	10	2	0.13	47	1	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9750.00	7600.00	
21990	1	22	31	146	0.3	2.90	9	2	0.18	116	7	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9800.00	7300.00	
22382	1	48	30	149	0.3	3.07	11	2	0.48	132	101	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9800.00	7400.00	
22217	1	20	36	121	0.2	2.06	7	2	0.79	192	43	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9800.00	7500.00	
21897	1	10	25	94	0.1	2.29	10	2	0.29	78	4	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9800.00	7600.00	
21989	1	16	24	114	0.1	2.93	9	2	0.21	83	7	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9850.00	7300.00	
22381	1	10	26	74	0.1	2.28	4	2	0.08	74	5	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9850.00	7400.00	
22216	1	8	22	69	0.1	1.91	5	2	0.12	72	1	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9850.00	7500.00	
21896	2	20	21	127	0.1	1.92	14	2	0.81	75	44	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9850.00	7600.00	CREEK AT 98.65
21988	1	12	21	72	0.2	2.20	5	2	0.11	68	12	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	FLAT		B	9900.00	7300.00	
22380	1	12	16	115	0.2	2.31	9	2	0.16	69	9	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	FLAT		B	9900.00	7400.00	
22215	2	10	21	91	0.1	2.14	10	2	0.25	83	16	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9900.00	7500.00	CREEK AT 99.34
21895	3	17	25	127	0.1	2.09	13	2	0.79	79	5	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9900.00	7600.00	
21987	1	17	29	137	0.3	3.63	12	2	0.28	109	89	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9950.00	7300.00	CREEK AT 99.95
22379	1	17	23	117	0.1	2.72	13	2	0.42	95	72	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9950.00	7400.00	
22214	2	21	48	235	0.4	1.99	8	2	0.61	184	3	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9950.00	7500.00	
21894	1	12	24	114	0.2	2.31	9	4	0.27	125	1	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	9950.00	7600.00	
21986	3	15	32	181	0.4	2.37	11	2	0.69	65	20	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	10000.00	7300.00	
22378	2	14	27	164	0.2	2.25	10	2	0.55	139	1	FLAT	CORNWALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	10000.00	7400.00	
22213	1	8	20	80	0.1	1.41	6	2	0.18	96	1	FLAT	BIRKETT	SOIL	COLLUVIUM	B	BROWN	FLAT		B	10000.00	7500.00	
21985	1	12	23	177	0.2	2.39	9	2	0.48	184	4	FLAT	DONALL	SOIL	COLLUVIUM	B	BROWN	HILLSIDE		B	10000.00	7600.00	

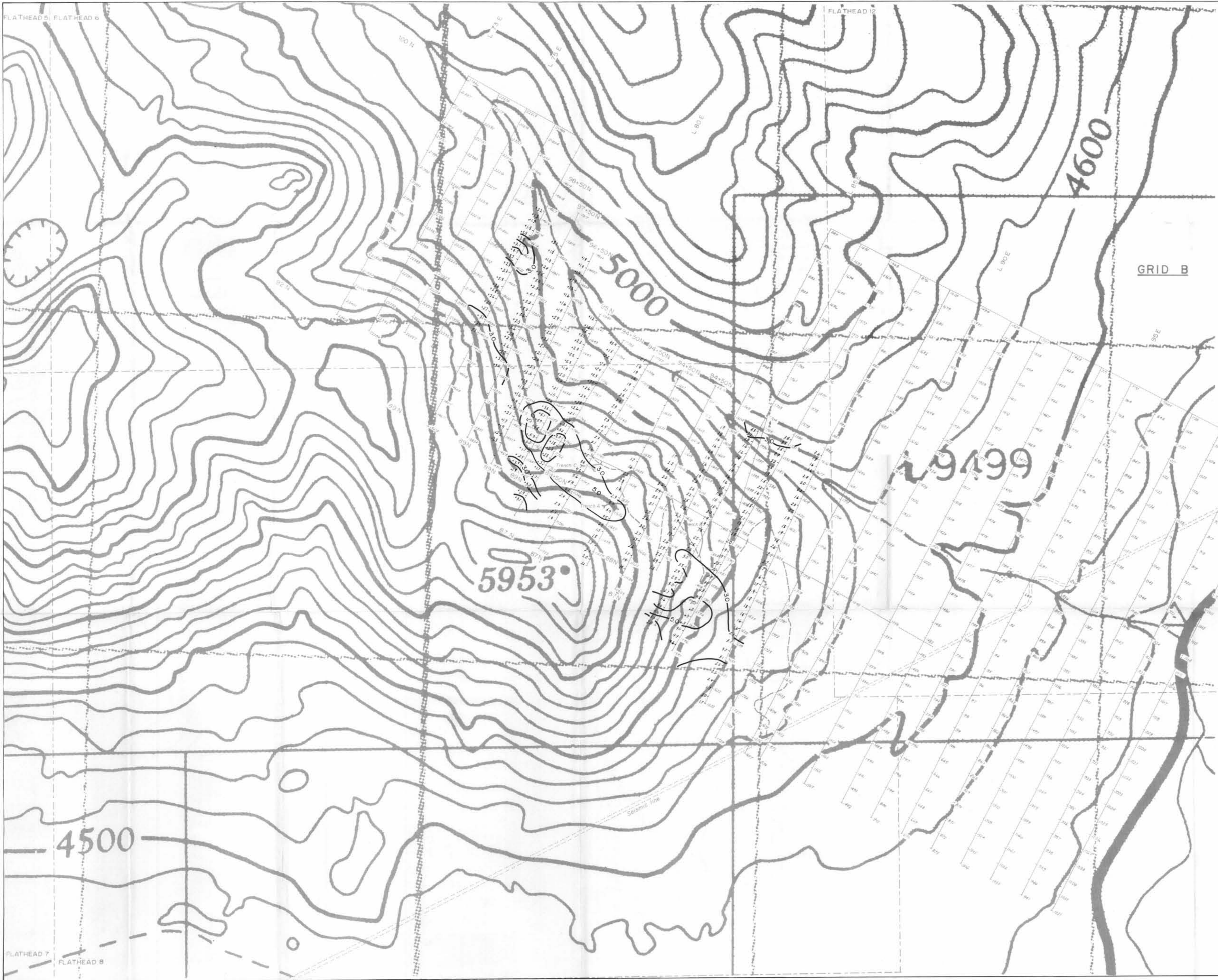


- LEGEND**
- GOLD ppb
    - 13 - 1620
    - 12 - 1621
    - 10 - 1622
 Sample number
  - Claim boundary
  - ⊕ Legal claim post
  - - - Cat trail
  - Trench
- LOGARITHMIC CONTOUR INTERVALS
- 20-
  - 37-
  - 70-
  - 125-
  - 410-ppb au

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

Scale 100 0 100 200 300 metres  
**18-091**

<b>PLACER DOME INC.</b>				
PROJECT NO: 138		FLATHEAD CLAIMS, B.C.		
<b>FLATHEAD CLAIMS-GRID B SOIL GEOCHEMISTRY</b>				
Au in ppb				
SCALE	DATE	FILE	N.T.S. NO	FIG. NO
1:5000	23 Feb '87 28 Feb '88 15 Dec '88	138 215 BY: DLP RC	820/2E	4



**LEGEND**

Chargeability in msec

2.8
3.0
3.0

- Claim boundary
  - Legal claim post
  - Cat trail
  - Trench
- CONTOURS**
- 3.0
  - 5.0

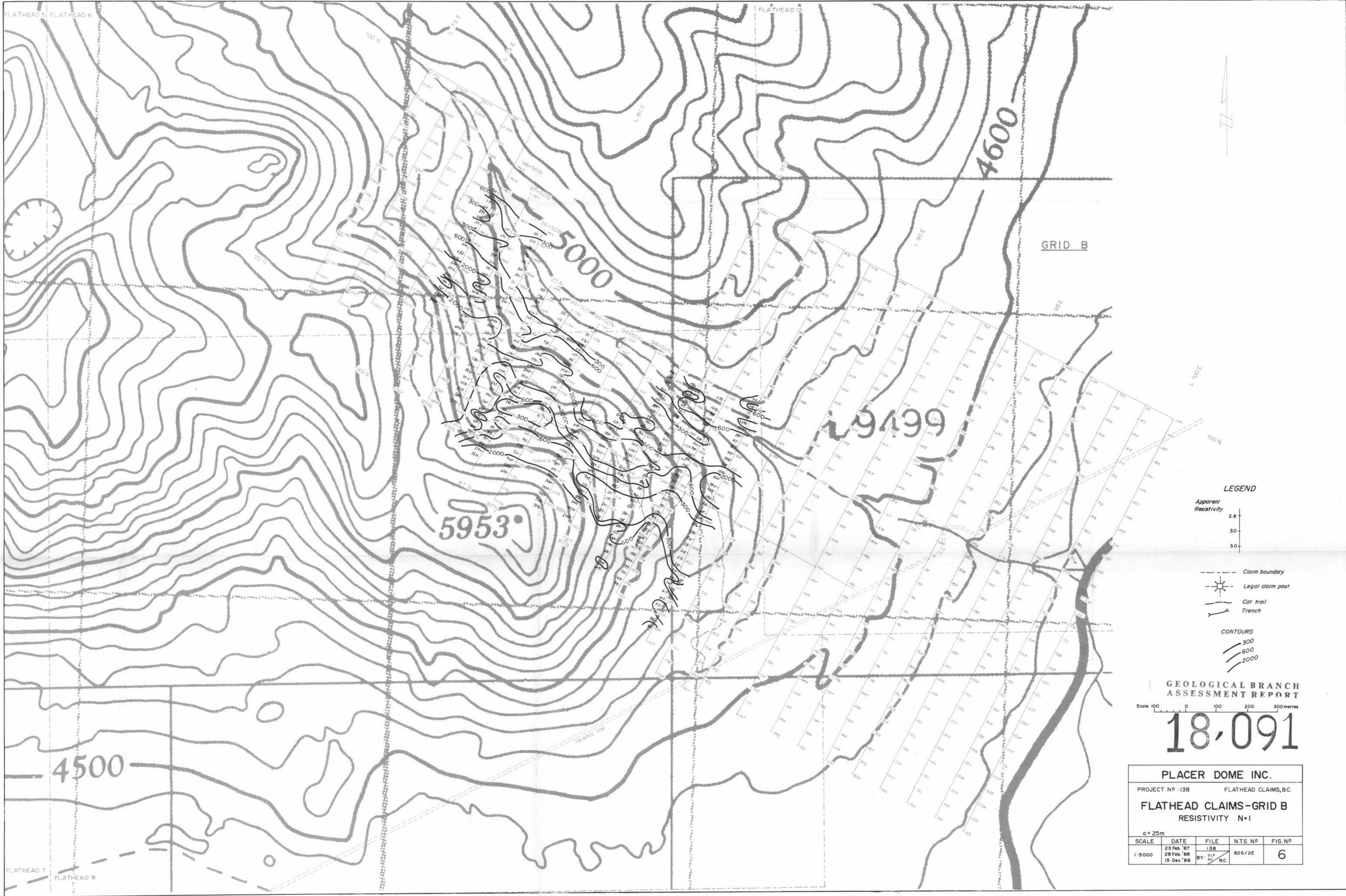
GEOLOGICAL BRANCH  
Scale 1:5000 **ASSESSMENT REPORT** 300 metres

**18,091**  
 PLACER DOME INC.

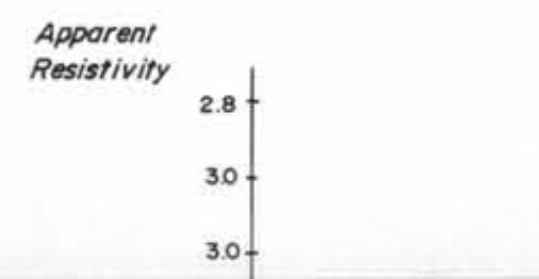
PROJECT NO: 138      FLATHEAD CLAIMS, B.C.  
**FLATHEAD CLAIMS - GRID B**  
 CHARGEABILITY N=1

a = 25m

SCALE	DATE	FILE	N.T.S. NO	FIG. NO
1:5000	23 Feb '87	138		
	28 Feb '88	DLP	829/2E	5
	15 Dec '88	RC		

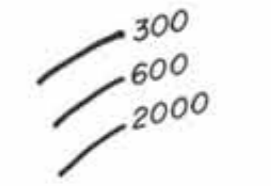


**LEGEND**



- Claim boundary
- Legal claim post
- Cat trail
- Trench

**CONTOURS**



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

Scale 100 0 100 200 300 metres

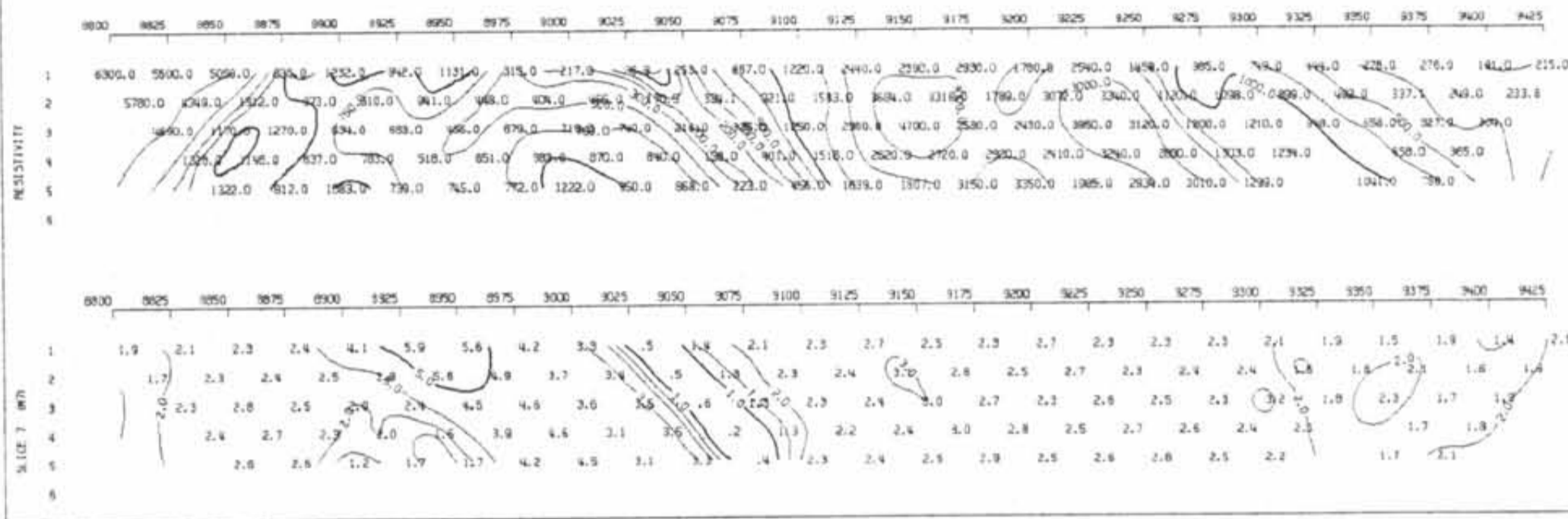
**18,091**

<b>PLACER DOME INC.</b>				
PROJECT N° 138		FLATHEAD CLAIMS, BC		
<b>FLATHEAD CLAIMS-GRID B</b>				
RESISTIVITY N=1				
σ = 25m				
SCALE	DATE	FILE	N.T.S. N°	FIG. N°
1:5000	23 Feb '87 28 Feb '88 15 Dec '88	138 BY: DLR RC.	826/2E	6

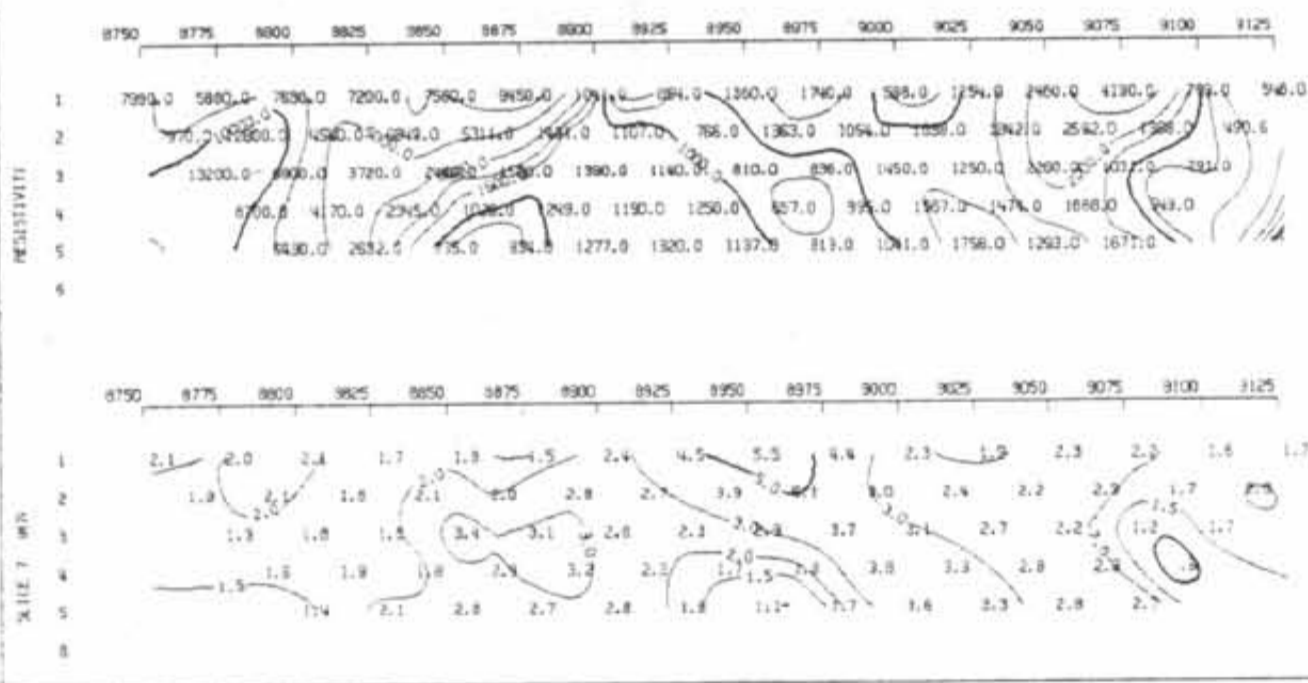
PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 81 EAST  
 "R": 25.0 METRES  
 SCINTREX IPR-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY  
 SCALE: 1:1250  
 RESISTIVITY



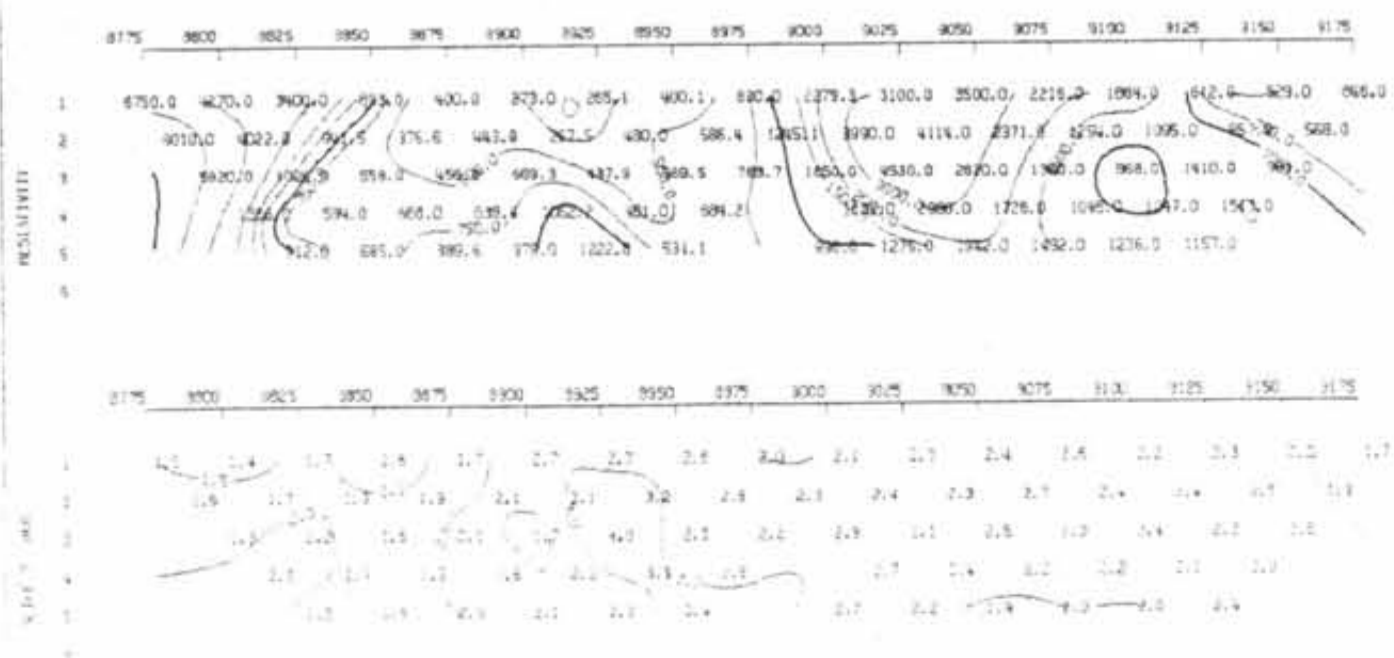
PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 82 EAST  
 "R": 25.0 METRES  
 SCINTREX IPR-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY  
 SCALE: 1:1250  
 RESISTIVITY



PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 83 EAST  
 "R": 25.0 METRES  
 SCINTREX IPR-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY  
 SCALE: 1:1250  
 RESISTIVITY



PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 84 EAST  
 "R": 25.0 METRES  
 SCINTREX IPR-11 RECEIVER  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 POLE-DIPOLE ARRAY  
 SCALE: 1:1250  
 RESISTIVITY



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

18-091

PLACER DOME INC.				
PROJECT NO 138		FLATHEAD CLAIMS, BC		
<b>FLATHEAD CLAIMS - GRID B</b>				
I.P. PSEUDO SECTIONS				
SCALE	DATE	FILE	NTS. NO	FIG NO
	15 DEC '88	138 - 215 BY dip RC	82G/2E	7

PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 60 EAST  
 N=1 TO 5  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCINTREX IPR-11 RECEIVER  
 POLE-DIPOLE ARRAY

SCALE: 1:1250

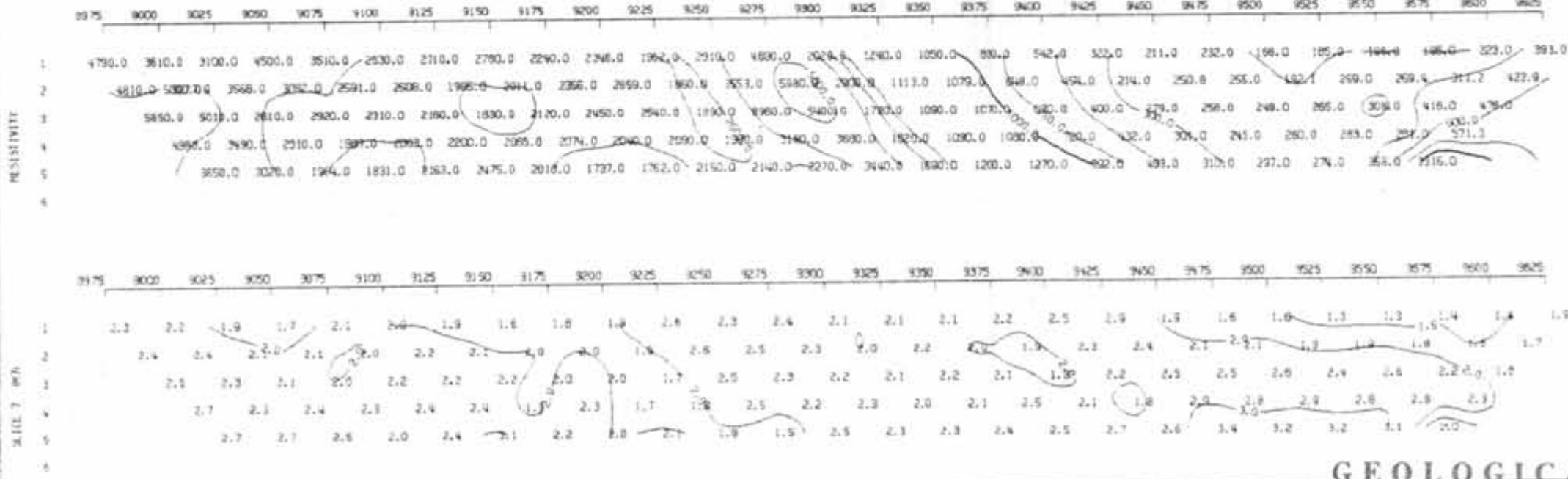
RESISTIVITY



PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 70 EAST  
 N=1 TO 5  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCINTREX IPR-11 RECEIVER  
 POLE-DIPOLE ARRAY

SCALE: 1:1250

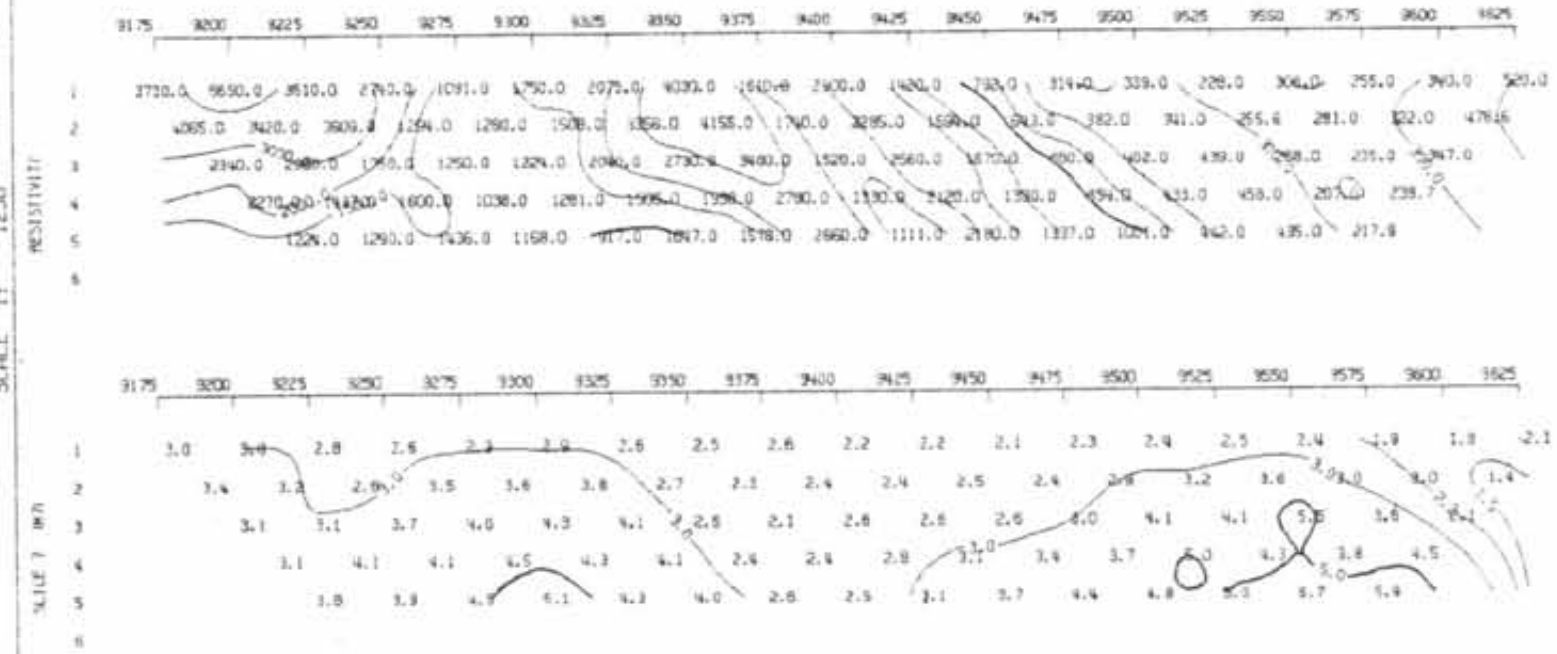
RESISTIVITY



PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 76 EAST  
 N=1 TO 5  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCINTREX IPR-11 RECEIVER  
 POLE-DIPOLE ARRAY

SCALE: 1:1250

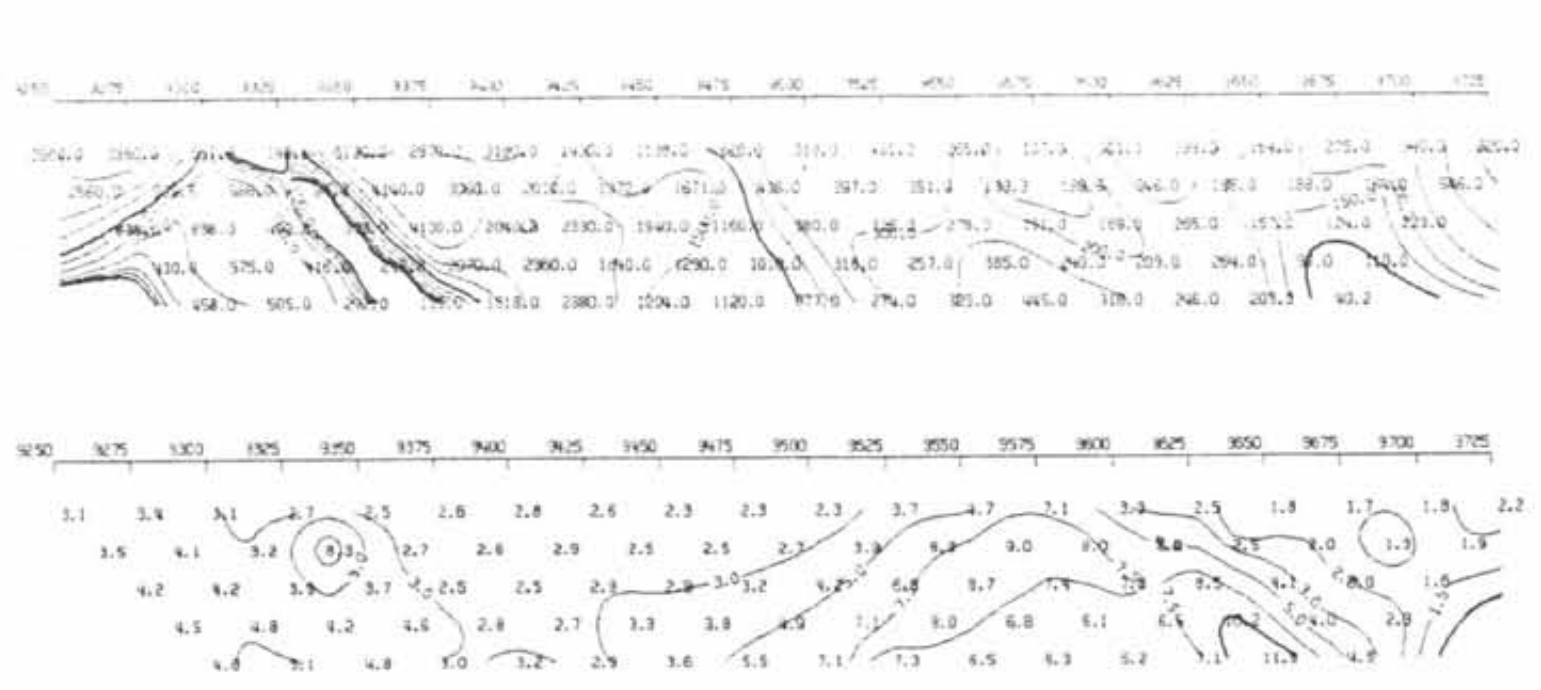
RESISTIVITY



PLACER-DOME INC.  
 FLATHEAD GRID B - FERNIE AREA  
 LINE NUMBER: 77 EAST  
 N=1 TO 5  
 TX PULSE TIME: 2.0 SEC  
 RECEIVE TIME: 2.0 SEC  
 SCINTREX IPR-11 RECEIVER  
 POLE-DIPOLE ARRAY

SCALE: 1:1250

RESISTIVITY



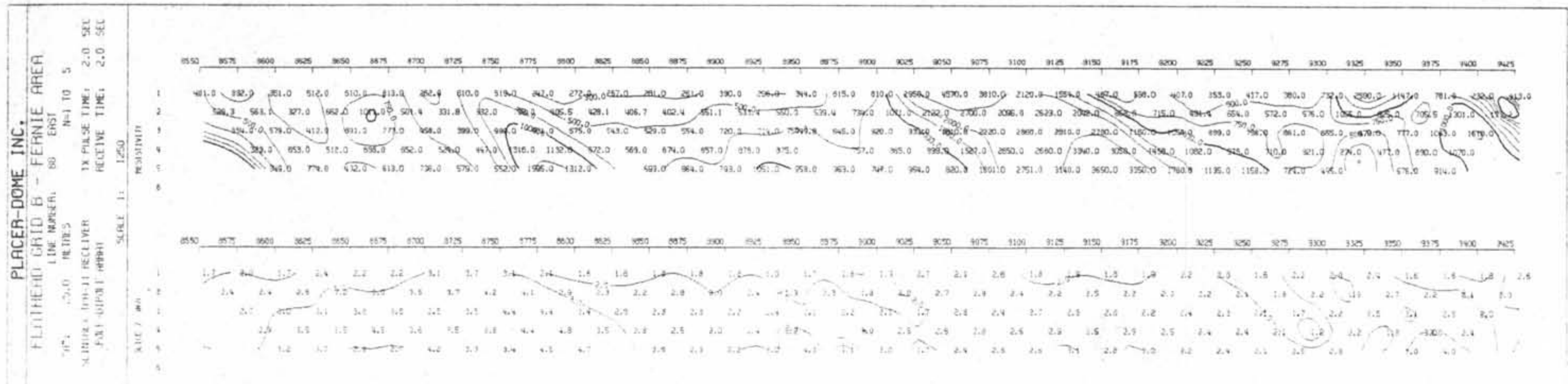
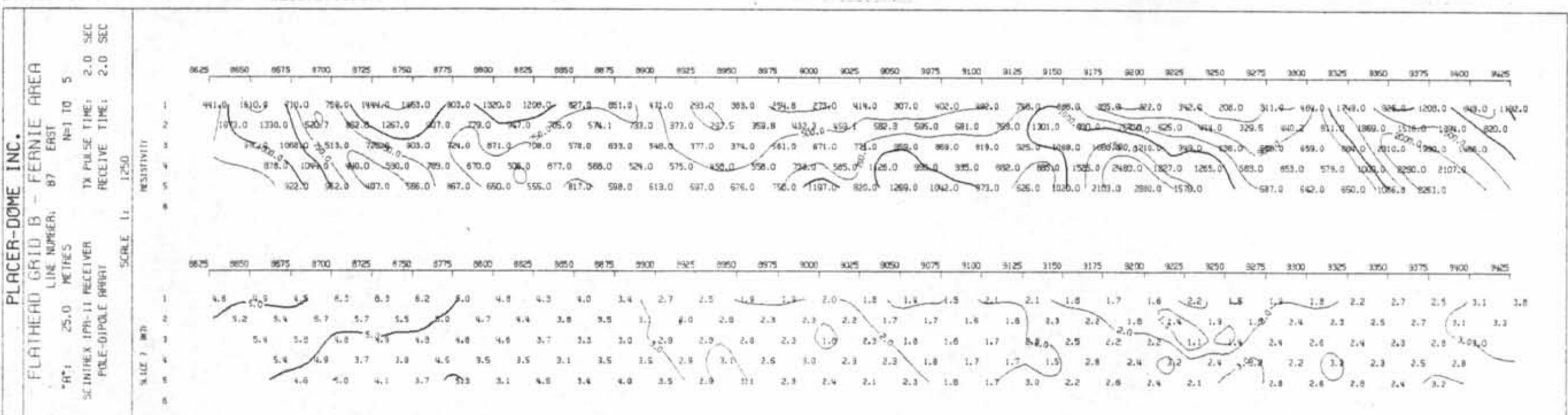
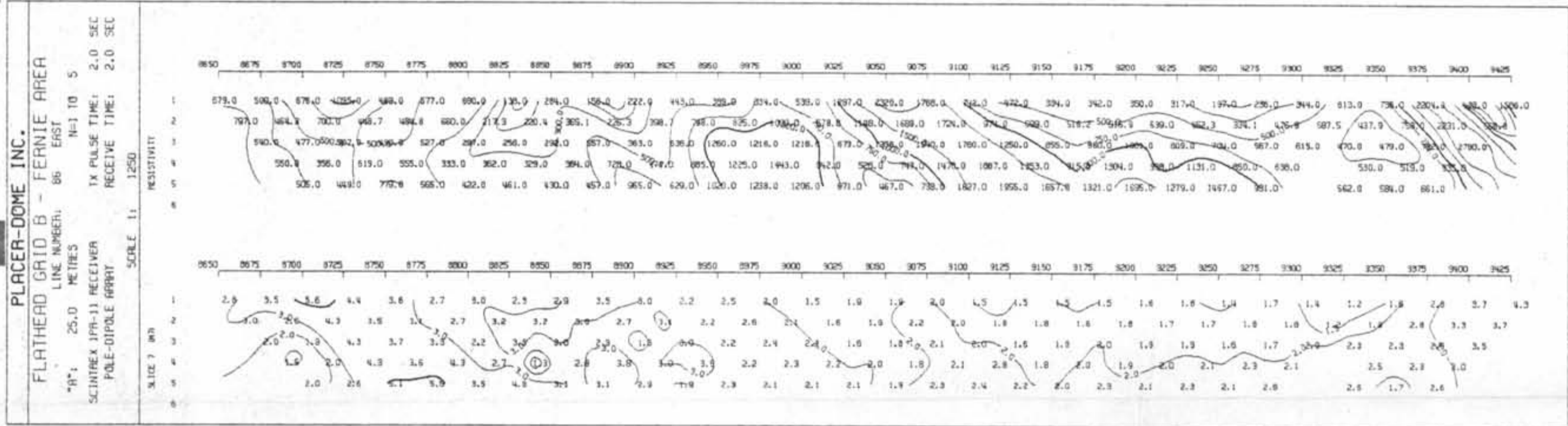
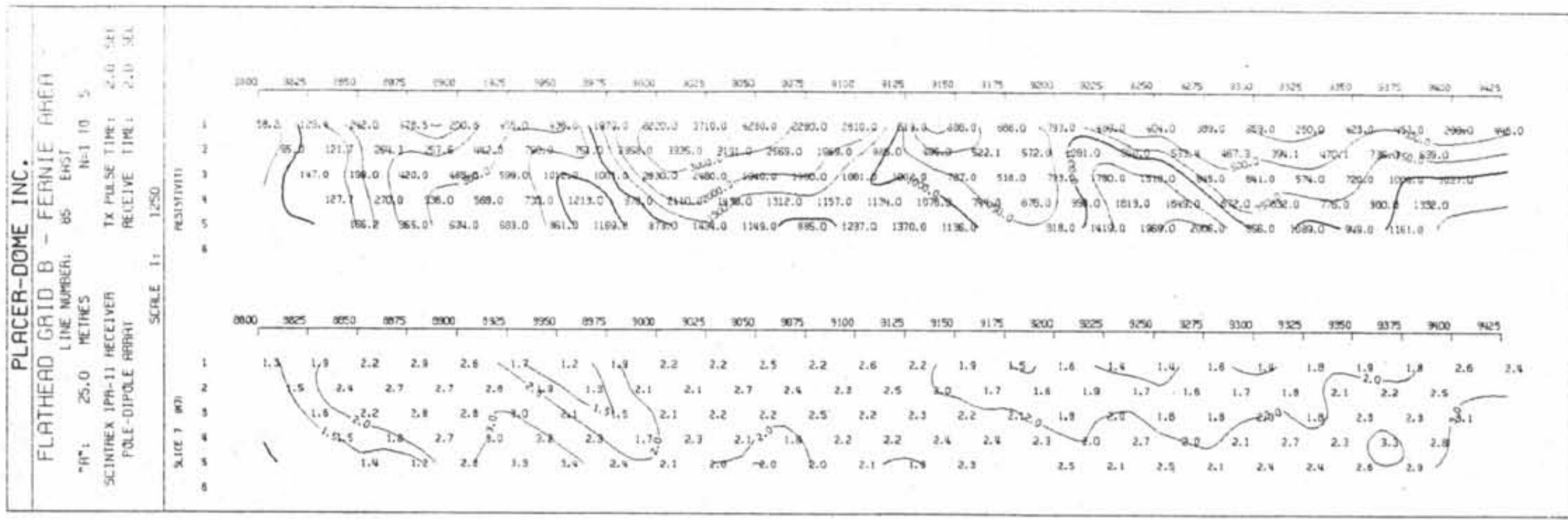
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

18,091

PLACER DOME INC.				
PROJECT NO: 138		FLATHEAD CLAIMS, B.C.		
FLATHEAD CLAIMS - GRID B				
I.P. PSEUDO SECTIONS				
SCALE	DATE	FILE	NTS. NO	FIG. NO
	15 DEC '88	138 - 215 BY: dlp rc	820 / 2E	7

# 18,091

<b>PLACER DOME INC.</b>				
PROJECT NO 138		FLATHEAD CLAIMS, BC		
<b>FLATHEAD CLAIMS - GRID B I.P. PSEUDO SECTIONS</b>				
SCALE	DATE	FILE	NTS NO	FIG NO
	15 DEC '88	138-215 By RC	826/2E	7

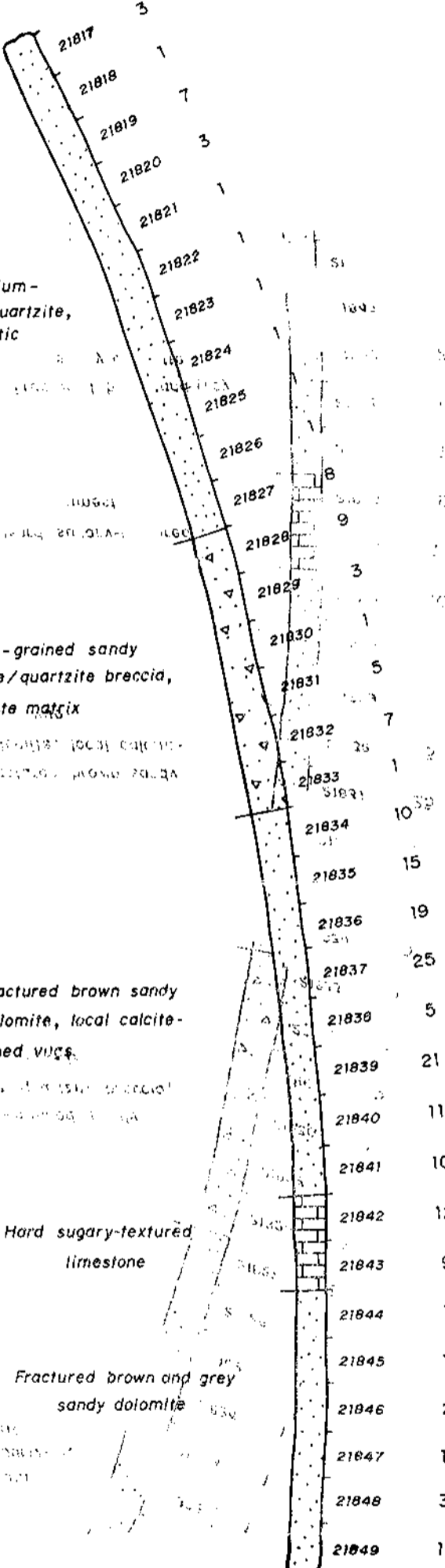


89+50 N

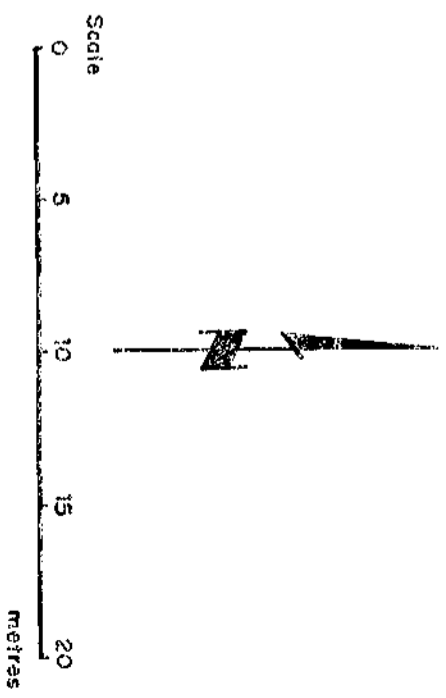
# 18,091

GEOLOGICAL REPORT  
MANAGEMENT REPORT

Sample no. Au(ppb)

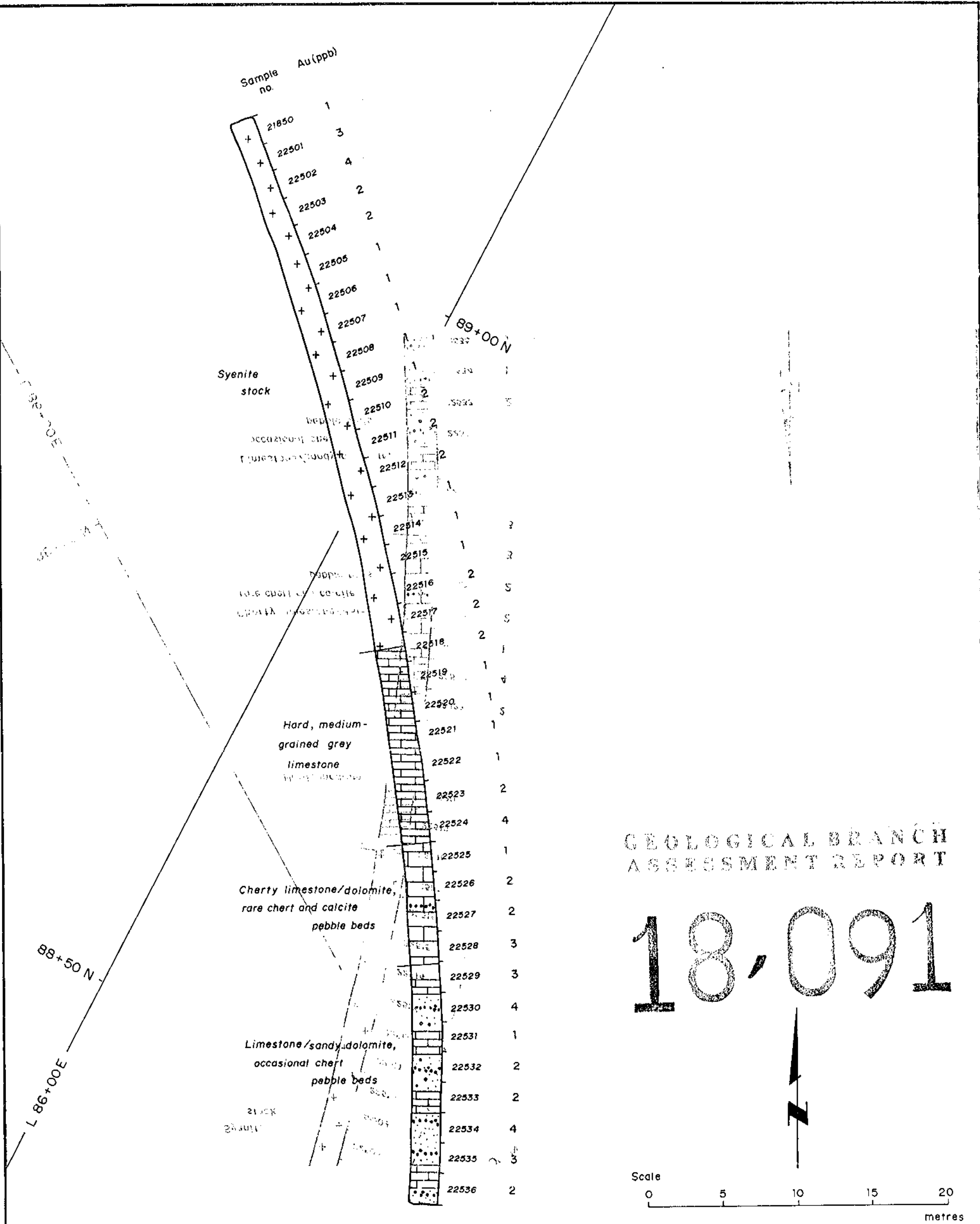


90+00 E  
90+00 E  
83+00 E



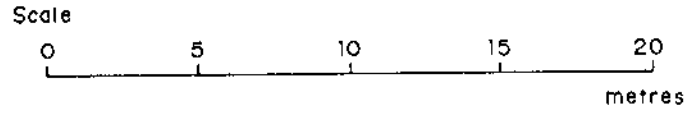
PLACER DOME INC.			
PROJECT No: 138		FLATHHEAD CLAIMS, B.C.	
ROCK GEOCHEMISTRY - GRID B			
TRENCH 'A'			
SCALE	DATE	BY	N.T.S.
1:250	Dec 15/88	dip G.K.	82 G/2
			DWG. No
			8



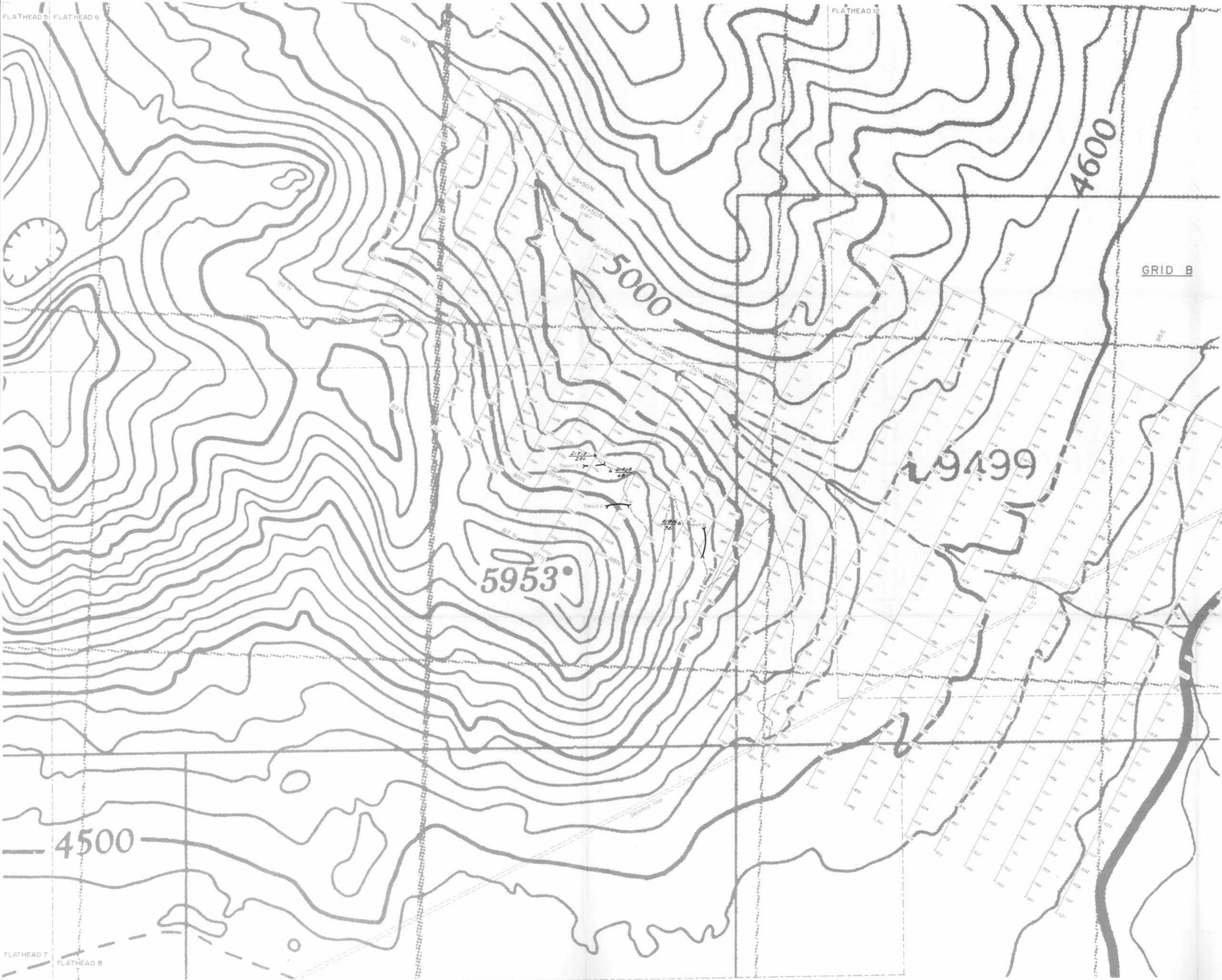


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,091



PLACER DOME INC.				
PROJECT N <sup>o</sup> : 138		FLATHEAD CLAIMS, B.C.		
FLATHEAD CLAIMS - GRID B				
ROCK GEOCHEMISTRY - Au (ppb)				
TRENCH 'B'				
SCALE	DATE	BY	N.T.S.	DWG. N <sup>o</sup>
1:250	Dec. 15/88	dip G.K.	82 G/2	9



LEGEND

- Sample Number 21916 A
- 32
- Claim boundary
- ★ Legal claim post
- == Cat trail, Road
- - - Trench

Scale 1:5000 100 metres 300 metres

**18,091**  
PLACER DOME INC.

PROJECT N° 138 FLATHEAD CLAIMS, BC  
FLATHEAD CLAIMS-GRID B  
ROCK GEOCHEMISTRY

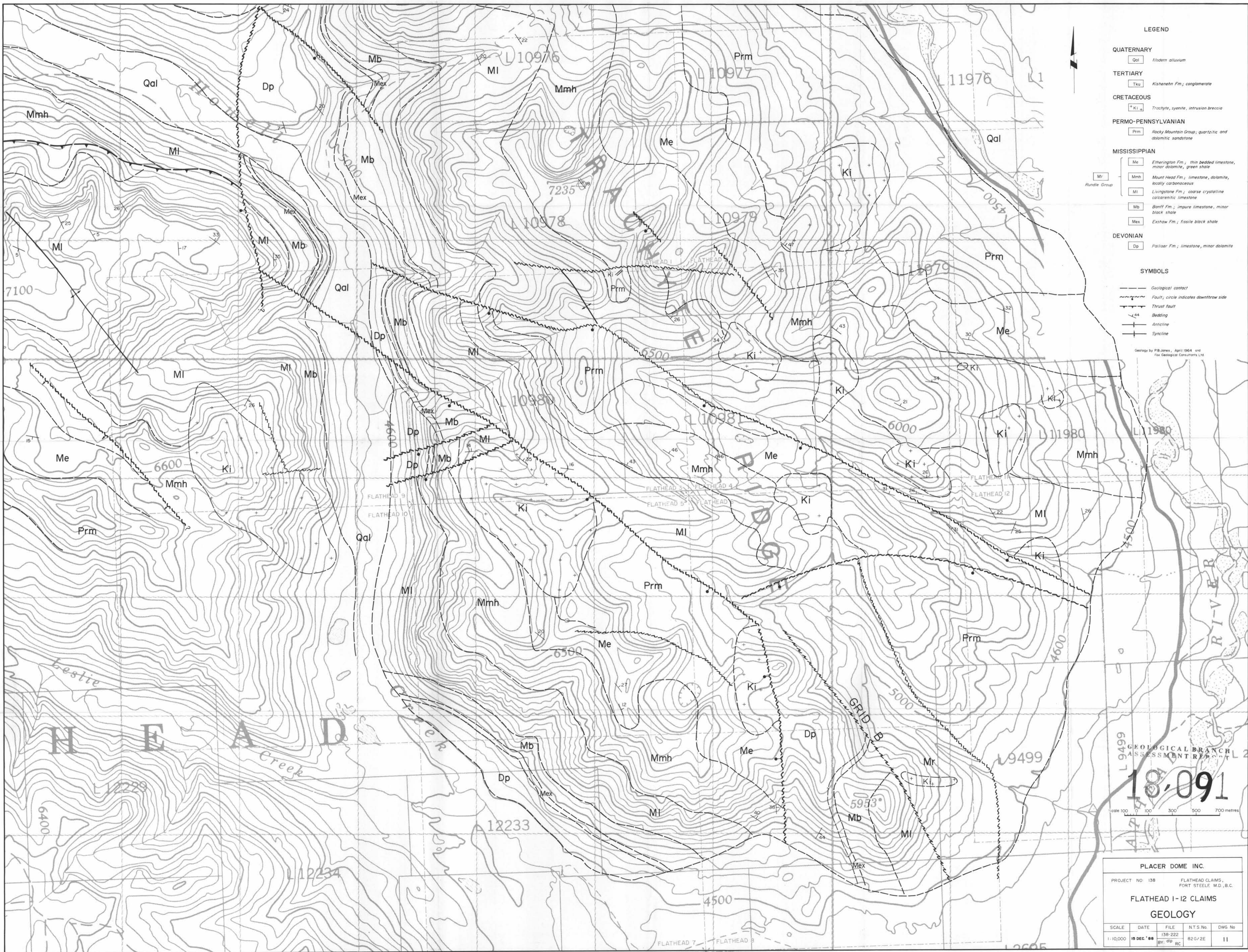
SCALE	DATE	FILE	N.T.S. N°	FIG N°
1:5000	15 DEC '88	138-215 BY: PM R.C.	826/2E	10

FLATHEAD 5 FLATHEAD 6

FLATHEAD 12

FLATHEAD 7 FLATHEAD 8

GRID B



**LEGEND**

**QUATERNARY**  
 Qal Modern alluvium

**TERTIARY**  
 Tku Kishenehn Fm.; conglomerate

**CRETACEOUS**  
 Ki Trachyte, syenite, intrusion breccia

**PERMO-PENNSYLVANIAN**  
 Prm Rocky Mountain Group; quartzite and dolomitic sandstone

**MISSISSIPPIAN**  
 Me Etherington Fm.; thin bedded limestone, minor dolomite, green shale  
 Mb Bantff Fm.; impure limestone, minor black shale  
 Mi Livingstone Fm.; coarse crystalline calcarenitic limestone  
 Mmh Mount Head Fm.; limestone, dolomite, locally carbonaceous

**DEVONIAN**  
 Dp Falisier Fm.; limestone, minor dolomite

**SYMBOLS**  
 Geological contact  
 Fault; circle indicates downthrow side  
 Thrust fault  
 Bedding  
 Anticline  
 Syncline

Geology by P.B. Jones, April 1964 and Fox Geological Consultants Ltd.

18-091

SCALE 100 0 100 300 500 700 metres

PLACER DOME INC.				
PROJECT NO 138		FLATHEAD CLAIMS, PORT STEELE M.D., B.C.		
<b>FLATHEAD 1-12 CLAIMS GEOLOGY</b>				
SCALE	DATE	FILE	NTS No.	DWG No.
1:10,000	15 DEC '08	138-222	82G/2E	11
		BY: dip RC		