

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11, 1984

AN EVALUATION OF SUNCOR PLACER LEASES

CARIBOO LAKE AREA, B.C.

JULY - AUGUST 1982

This Report covers the following Placer Leases held by Suncor Inc:

4049 December 8, 1980
7062 November 2, 1981
7063 November 2, 1981

on N.T.S. Sheet 93A/14
in the Cariboo Mining Division
Centered on 52°51'N 121°25'W

By: Paul A. Hawkins
Calgary, Alberta
March 11, 1983

SUNCOR REPORT #9173

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1.0 INTRODUCTION

A program to test the potential of Suncor's three placer leases in the Cariboo Lake area was undertaken as an accessory part of the 1982 field exploration program on Suncor mineral claims in the Cariboo Gold Project area. Fourteen test pits were dug and a representative sample was processed in a Flying Dutchman sluice box. The fine heavy fraction remaining was assayed for gold, silver and tungsten using conventional assay procedures at Loring Laboratories in Calgary.

Results from three test pits near Yanks Peak indicate the presence of gold and silver values at significant levels but these areas are of limited extent. Values obtained from other areas and at Roundtop were much lower and except for one high tungsten value of no economic value.

1.1 LOCATION AND ACCESS

The Placer Leases are located in the Cariboo Mining Division on N.T.S. Map Sheet 93A/14. The Yanks Peak Lease is located on the north side of Luce Creek and covers part of the old workings of Snowshoe Gold Mines (Holland, S. S., 1954). The Roundtop Mountain Leases are located on Peters Gulch on the east and west side of the creek between Penny Creek and Pearce Creek below the Cariboo Hudson Mine site.

The Yanks Peak Lease can be accessed from Williams Lake by good all weather road via the town of Likely to Keithley Creek, then north on an old forestry road which progressively worsens to a rugged 4-wheel drive trail. The Snowshoe Gold Mine access road which is in very poor condition, runs across the lease. The lease is about a 1 1/2 hour drive from Keithley Creek.

The Roundtop Leases are further to the northeast about 10 km along the trail towards Barkerville from Keithley Creek. The trail gets almost impassible in the high alpine meadows between Yanks Peak and Roundtop. Better access can be obtained from the north via the Barkerville area along the Cunningham Pass road. During the 1982 field season, Suncor based its field crews out of a base camp located at Keithley Creek, with limited helicopter support out of Williams Lake.

1.2 PHYSIOGRAPHY

The Yanks Peak Placer Lease lies north of Yanks Peak, which reaches an elevation of 1900 metres. Several adjacent areas are currently being logged, and the development of improved access roads in the area is a direct result of this activity. The Roundtop Leases lie in the Peter Gulch Valley.

Topography in the area is moderately rugged. The property is almost completely forested with many of the old workings now completely overgrown. The tree line in the area is usually about the 1800 metre level.

The climate is humid continental with cool, short summers. Snow does not leave most peaks until late June. The area receives between 75-150 centimeters of precipitation, of which the greater amount occurs as snow. Snowfalls in the past have varied greatly. An exceptionally heavy snowfall this past winter combined with an unusually wet summer kept water levels near springtime highs well into August.

The area is generally thinly till covered but the thickness can be quite variable. The most recent glaciation was in the Pliocene, when the Continental Ice Sheet covered the area to about the highest peak. Ice movement was in several directions and represents a complex glacial history. This complexity has prevented the location of a bedrock source for a number of placer gold deposits in the area.

2.0 AREA GEOLOGY

The Yanks Peak-Roundtop area was mapped at a scale of near 1" = 1200' (Holland, S. S., 1954). The regional strike of the rocks is about 330°. The area has a very complex structural history and is not yet fully understood.

The Placer Lease area is underlain by Cariboo Group rocks. All the five formations are well exposed. The Cunningham Formation which occurs as a grey limestone and marble. The Yankee Belle Formations varies from a quartzite to a phyllite to a chlorite schist. The Yanks Peak Formation is a grey to white quartzite. The Midas Formation is a black silty quartzite to an argillaceous schist to a carbonaceous or graphitic limestone. The Snowshoe Formation varies from a quartzite to a conglomerate. An upper limestone unit also occurs, and with metamorphism in some areas, has become a chlorite schist. A few outcrops of intrusive rocks occur in the area also. The most striking feature of the area is repetitive complex isoclinal folding of the Midas Formations. A modified version of the property geology is provided for Yanks Peak on Drawing 82-252B and for Roundtop on Drawing 82-074A.

Detailed study of structure reveals much location variation from the regional strike of 330°.

2.1 ECONOMIC GEOLOGY

The Yanks Peak-Roundtop Mountain area has periodically attracted attention as a gold camp, with renewed interest caused by current gold prices. The area has a recorded production of 5,204 fine ounces of gold from lode producers; most of this from the Cariboo Hudson Mine near Roundtop Mountain (Holland, S. S., 1954). In comparison, between 1874 and 1950, 69,237 ounces of crude gold were recovered by the districts placer operations (Holland, S. S., 1954). Recent placer activity has undoubtedly increased the placer total.

Early lode work in the Yanks Peak area was a result of the discovery of placer gold near the mouth of Keithley Creek in 1860. Keithley, Little Snowshoe, Luce, and French Snowshoe Creeks have been and still are, active placer gold producers.

A great number of showings are located in the Yanks Peak and Roundtop areas (Holland, S. S., 1954). The area is also spotted with many old lode workings, adits, tailings, test pits and trenches. For the most part, it is difficult to locate all but the most recent workings.

The extent of recent placer activity in the Yanks Peak-Roundtop area is not well documented. There is evidence of wide spread test pitting in most areas, and in most creek beds of previous sluicing.

The great number of lode gold occurrences in the area is well documented in the literature (Holland, S. S., 1954).

The 1982 mineral exploration program on Yanks Peak is covered by Suncor Report #9172 (Hawkins, P. A., 1982) and Roundtop by Suncor Report #9176 (Hawkins, P. A., 1983).

3.0 SAMPLING PROGRAM

A total of fourteen test pits were completed on Suncor's Placer Leases at Yanks Peak and Roundtop Mountain. Usually about 1/4 of a cubic yard of wet sand and gravel (except as noted in tables) was removed and carried to a central site on the lease for testing. Samples were processed in a Flying Dutchman Sluice box which was rented from a local prospector, Bill Larkin of Keithley Creek.

The heavy fines and heavy coarse were bagged. The fines were later sent to Loring Laboratories for gold and silver fire assays. Tungsten was also in some cases determined.

The fire assay procedure was accepted as a compromise method instead of trying to pan free gold from the fines. The main purpose of testing was to determine the presence of placer gold on the leases.

3.1 YANKS PEAK TEST RESULTS

Seven test pits were sampled during July 25-31, 1982. A total of \$2,000.63 was spent on the lease as outlined in Table 3.1.

The lease covers part of the old workings of the Snowshoe Gold Mines. Just at the eastern limit of the lease, the Jim Adit dump occurs. One test pit sampled near the Snowshoe Gold Mines dump and one near the Jim Adit dump. Both these two areas returned good gold values as shown in Table 3.2. Pit locations are shown on Drawing 82-228.

Pit #1 just west of Larkin Creek showed some high gold values. A second batch from the same test pit showed only trace levels of gold. The other pits from the lease showed very little or no gold values.

It is apparent that the only placer potential exists in areas uphill of the banks of current water courses and in overburden covered areas where gold mineralization subcrops especially near old workings.

TABLE 3.1

YANKS PEAK PLACER LEASE 4049
PROPERTY EXPENDITURES

Field Exploration Costs

Rental of Placer Equipment	\$ 700.00
Camp Costs (2 days @ \$42.50)	85.00
Field Salaries (2 days @ \$95.01)	190.02
Transportation (2/30 X \$1,262.50)	84.16
Analysis Costs (12 X \$24.00)	<u>288.00</u>
Field Expense	\$ 1,347.18
+10% Office	<u>134.72</u>
Total Field Expenditures	\$ 1,481.90

Report Preparation

Project Geologist 1 X \$234.09	
Party Chief 1 X \$ 99.64	
Typing and Reproduction	\$ 25.00
Drafting	<u>\$160.00</u>
	\$ <u>518.73</u>
Total Property Expenditures	<u>\$ 2,000.63</u>

PAUL A. HAWKINS
October 26, 1982

TABLE 3.2 TEST PIT DATA SHEET

YANKS PEAK PLACER LEASE #4049

CARIBOO GOLD PROJECT

LOCATION	SAMPLE NUMBER	SAMPLE VOLUME M ³ (yd ³)	SAMPLE WEIGHT Kg	CONCENTRATE WEIGHT		CONCENTRATE ASSAY		W %	GRAVEL CONTENT*	
				ACTUAL	(ESTIMATED) KG	Au Oz.	Ag Oz.		Au Oz/Ton	Au Oz/yd ³
Pit #1	AS0124	.19	(.25)	383.8	(3.838)	T	.16	.002	T	T
	AS0125	.19	(.25)	383.8	(3.838)	1.922	.20	T	.0192	.0326
Pit #2	AS0126	.19	(.25)	383.8	(3.838)	.022	.02	T	.0002	.0003
Pit #3	AS0133	.19	(.25)	383.8	(3.838)	.104	.04	T	.0010	.0017
Mine										
Pit #1	AS0127	.19	(.25)	383.8	(3.838)	2.044	.60	—	.0204	.0349
Mine										
Pit #2	AS0128	.05	(.06)	95.6	(.956)	3.438	.27	—	.0344	.0585
	AS0129					3.292	.27	—	.0329	.0559
Luce Creek										
Pit	AS0130	.02	(.03)	60.6	(.606)	.042	T	T	.0004	.0006
Larkin Creek										
Pit	AS0131	.07	(.09)	181.8	(1.818)	.056	T	T	.0006	.0010

*Calculations Based on Wet Sand and Gravel at 3400 lb/yd³

3.2 ROUNDTOP MOUNTAIN TEST RESULTS

Seven test pits were completed on Suncor's two Roundtop Mountain Placer Leases between August 21 and 27. A total of \$2,013.27 was spent on the test program as shown on Table 3.3. The test pit locations are shown on Drawing 82-227.

All test pits returned disappointing gold values, all of which are uneconomic. Samples from Test Pit #6 returned good tungsten values, which is not surprising since it is adjacent to the Peter Gulch Scheelite Showing. Test results are shown on Table 3.4.

TABLE 3.3

ROUNDTOP MOUNTAIN PLACER LEASES 7062, 7063
PROPERTY EXPENDITURES

Field Exploration Costs

Rental of Placer Equipment	\$ 750.00
Camp Costs (2 days @ \$42.50)	85.00
Field Salaries (2 days @ \$95.01)	190.02
Transportation (2/30 X \$1,262.50)	84.16
Analysis Costs (7 X \$24.00)	<u>168.00</u>
Total Field Expenses	\$ 1,277.18
+10% Office Overhead	<u>127.72</u>
Total Field Expenditures	\$ 1,404.90

Report Preparation

Project Geologist 1 X \$234.09	
Party Chief 1 X \$ 99.64	
Typing and	
Reproduction \$ 25.00	
Drafting <u>\$150.00</u>	
	<u>\$ 608.37</u>
Total Property Expenditures	<u>\$ 2,013.27</u>

PAUL A. HAWKINS
October 26, 1982

TABLE 3.4 TEST PIT DATA SHEET

ROUNDTOP MOUNTAIN PLACER LEASES #7062 AND 7063

CARIBOO GOLD PROJECT

LOCATION	SAMPLE NUMBER	SAMPLE VOLUME M ³	SAMPLE WEIGHT		CONCENTRATE WEIGHT		CONCENTRATE ASSAY		W %	GRAVEL CONTENT*	
			Kg	(LB)	ACTUAL	(ESTIMATED)	KG	Au Oz.		Ag Oz.	Au Oz/Ton
Pit #1	AS0151	.06	113.4	(250)	(1.13)		.012	.16	T	.0001	.0002
Pit #2	AS0152	.06	113.4	(250)	(1.13)		.032	.12	T	.0003	.0005
Pit #3	AS0153	.06	113.4	(250)	(1.13)		T	.44	0.054	T	T
Pit #4	AS0154	.11	226.8	(500)	(2.27)		T	1.36	T	T	T
Pit #5	AS0190	.07	136.1	(300)	1.63		.024	.06	.008	.0003	.0005
Pit #6	AS0191	.01	29.5	(65)	1.58		.090	.39	3.510	.0048	.0082
Pit #7	AS0192	.07	136.1	(300)	1.31		.010	.08	.006	.0001	.0002

*Calculations Based on Wet Sand-Gravel at 3400 lb/yd³

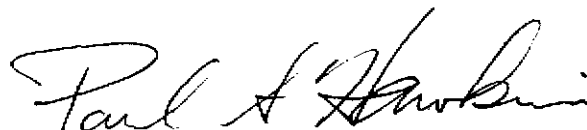
4.0 CONCLUSIONS AND RECOMMENDATIONS

The main creeks in the Yanks Peak-Roundtop area have seen several generations of placer activity. Most placer deposits which are easily accessible and close to water have more than likely been worked at least once in the past. Current operators appear to be recovering the remaining fine gold and exploiting deposits in areas which require heavy equipment to excavate the gravel. From the testing at Yanks Peak and Roundtop, it appears that the only areas showing placer gold potential are areas around old showings and workings near Yanks Peak. On the Roundtop Placer Leases, it appears that any potential that existed in the Peter Gulch has been worked over. Extensive sampling is also apparent here.

Some follow-up work may be justified at Yanks Peak and Roundtop to assess the upper bank placer material. This work is not recommended on a stand alone basis. Further sampling could be undertaken if other programs are undertaken such as trenching or drilling at which time placer materials should be sampled.

Placer deposits near old workings and showings would appear to be of limited importance since they are likely of limited extent. Their importance could change if a lode operation or extensive trenching was undertaken.

In summary, no stand alone work is recommended for the placer leases.



Paul A. Hawkins, P.Eng.
Project Geologist

REFERENCES

1. Hawkins, P. A., 1982
1982 Exploration Activities at Yanks Peak
Cariboo lake Area
June-August 1982
Suncor Report #9172
2. Hawkins, P. A., 1983
1982 Exploration Activities at Roundtop Mountain
Cariboo Lake Area
June-September 1982
Suncor Report #9176
3. Holland, S. S., 1954
Yanks Peak-Roundtop Mountain Area
British Columbia
B.C. Dept. of Mines
Bulletin #34

APPENDIX

1. Author's Qualifications
2. Other Field Staff
3. Affidavit on Application to Record Work

AUTHOR'S QUALIFICATIONS

Paul Alan Hawkins, P.Eng., B.Sc. (Eng)
2105, 920 - 9th Avenue S.W.
CALGARY, Alberta
T2P 2T9

Registered Professional Engineer, Province of Alberta

B.Sc. (Eng) Queen's University 1977
Geological Engineering (Mineral Resources)

Work History

May 1981 - Present	Suncor Inc.	Project Geologist
May 1978 - March 1981	Pan Ocean Oil Ltd.	Project Geologist
Feb. 1978 - April 1978	Gulf Minerals	Drill Geologist
May 1977 - Jan. 1978	Asamera Oil	Junior Geologist
July 1976 - Dec. 1976	Urangessellschaft	Senior Assistant
May 1976 - July 1976	Hollinger Mines	Drill Geologist
May 1975 - Sept. 1975	HBOG Mining	Field Assistant
May 1974 - Sept. 1974	Duval Corp.	Field Assisant

OTHER FIELD STAFF

1. Derek Armstrong
B.Sc. (Geology) University of Waterloo 1982
2. John Miryneck
1st Year Geology Student, University of Western Ontario
3. Don Sabo
1st Year Geology Student, University of Saskatchewan

YANKS PEAK PLACER LEASE 4049

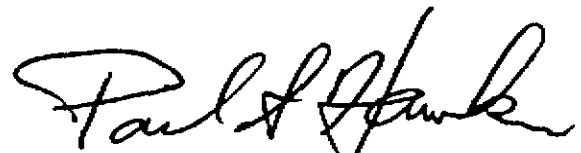
Property Expenditures

Field Exploration Costs

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Field Salaries (2 days @ \$95.01)	190.02
Transportation (2/30 x \$1262.50)	84.16
Analysis Costs (12 x \$24)	288.00
	<hr/>
Field Expenses	1 347.18
+ 10% Office	134.72
	<hr/>
Total Field Expenditures	\$1 481.90

Report Preparation

Project Geologist 1 x \$234.09	
Party Chief 1 x 99.64	
Typing & Reproduction 25.00	
Drafting 160.00	
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	518.73
	<hr/>
Total Property Expenditures	\$2 000.63
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October 26, 1982

ROUNDTOP MOUNTAIN PLACER LEASES 7062, 7063


Property Expenditures

Field Exploration Costs

Rental of Placer Equipment	\$ 750.00
Camp Costs (2 x \$42.50)	85.00
Field Salaries (2 x \$95.01)	190.02
Transportation (2/30 x \$1262.50)	84.16
Analysis Costs (7 x \$24)	<u>168.00</u>
Total Field Expenses	1,277.18
+ 10% Office Overhead	<u>127.72</u>
Total Field Expenditures	<u>1,404.90</u>

Report Preparation

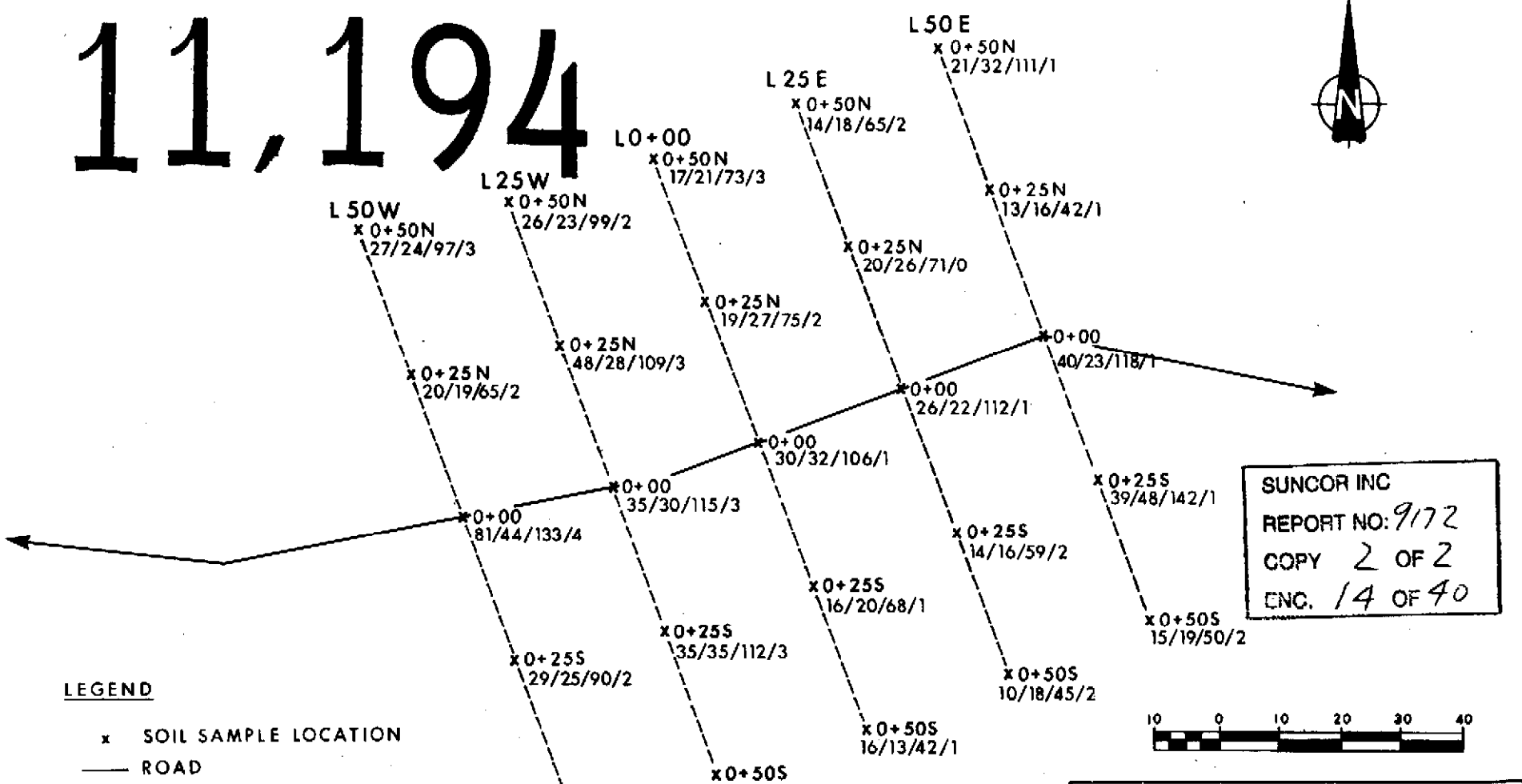
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Party Chief 2 x 99.64	
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Drafting 150.00	
	<u>608.37</u>
Total Property Expenditures	<u>\$2 013.27</u>



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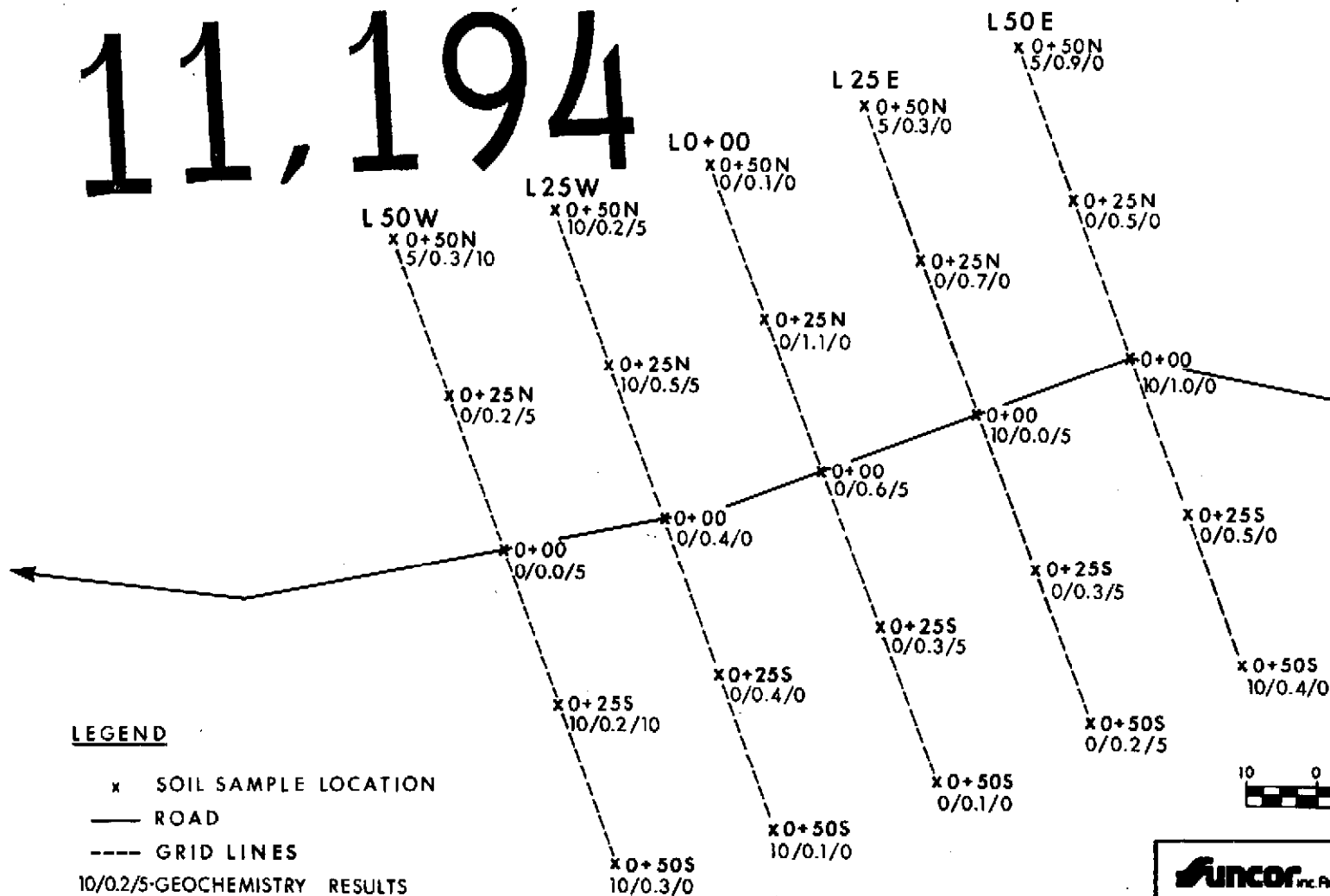
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- x SOIL SAMPLE LOCATION
 - ROAD
 - GRID LINES
- 15/19/50/2 GEOCHEMISTRY RESULTS
 Cu/Pb/Zn/Mo (all in ppm)

Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY COPPER, LEAD, ZINC & MOLYBDENUM FRENCH SNOWSHOE AREA F.S. - 82-17 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	N.T.S. 93/A	DRAWING No. 82-174-C

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LEGEND

- x SOIL SAMPLE LOCATION
- ROAD
- GRID LINES
- 10/0.2/5-GEOCHEMISTRY RESULTS
Au(ppb) / Ag(ppm) / W(ppm)
(Gold) (Silver) (Tungsten)

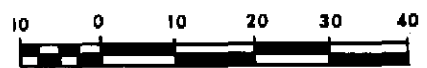
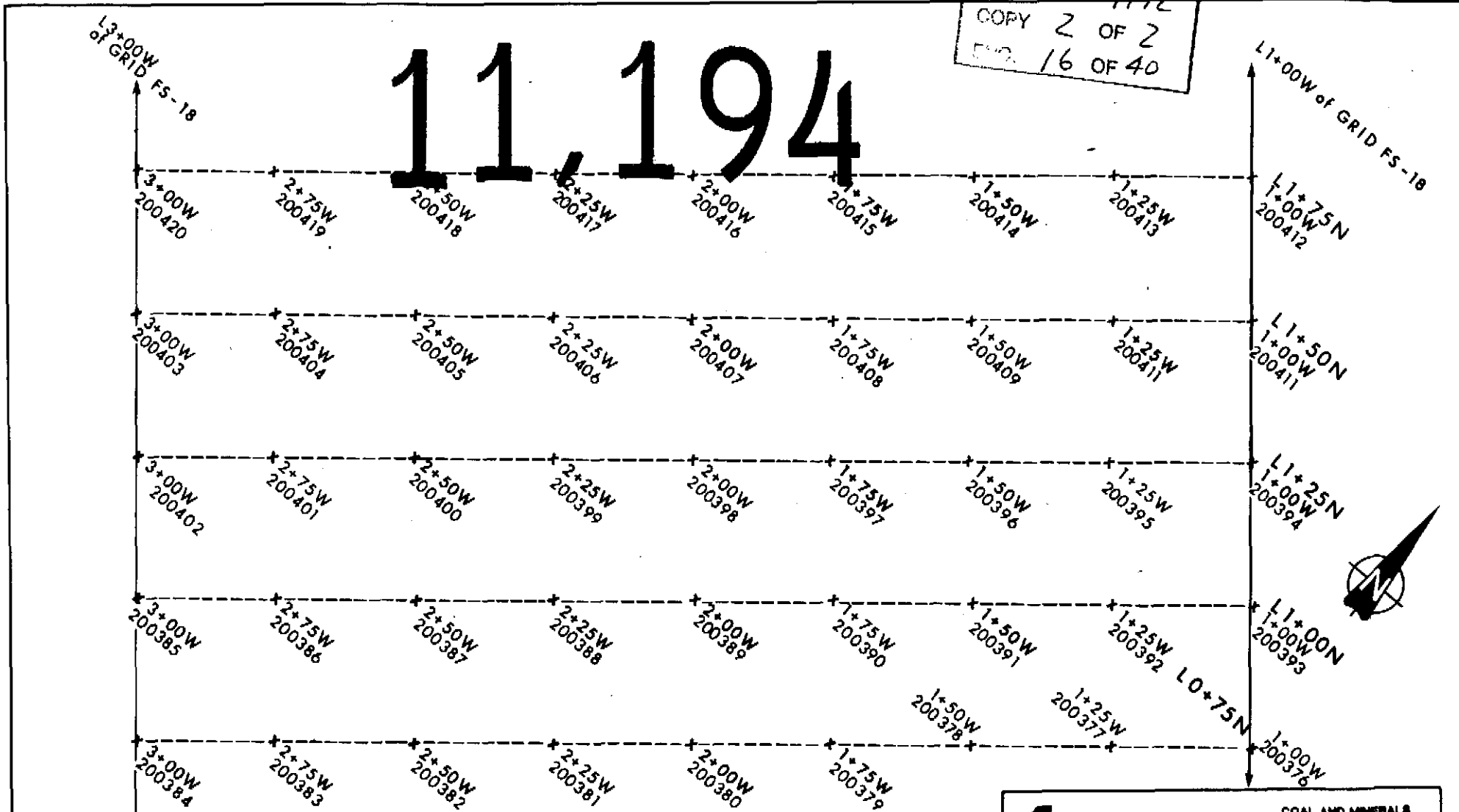


Suncor Inc. Resource Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY GOLD, SILVER & TUNGSTEN FRENCH SNOWSHOE AREA F.S. - 82-17 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	NTS. 93/A	DRAWING No. 82-174-D

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LEGEND

- x SOIL SAMPLE LOCATION
- GRID LINE
- L300 W of GRID 18

BEARING: 230°

BEARING: 230°

Suncor Inc. Resources Group COAL AND MINERALS
DEPARTMENT

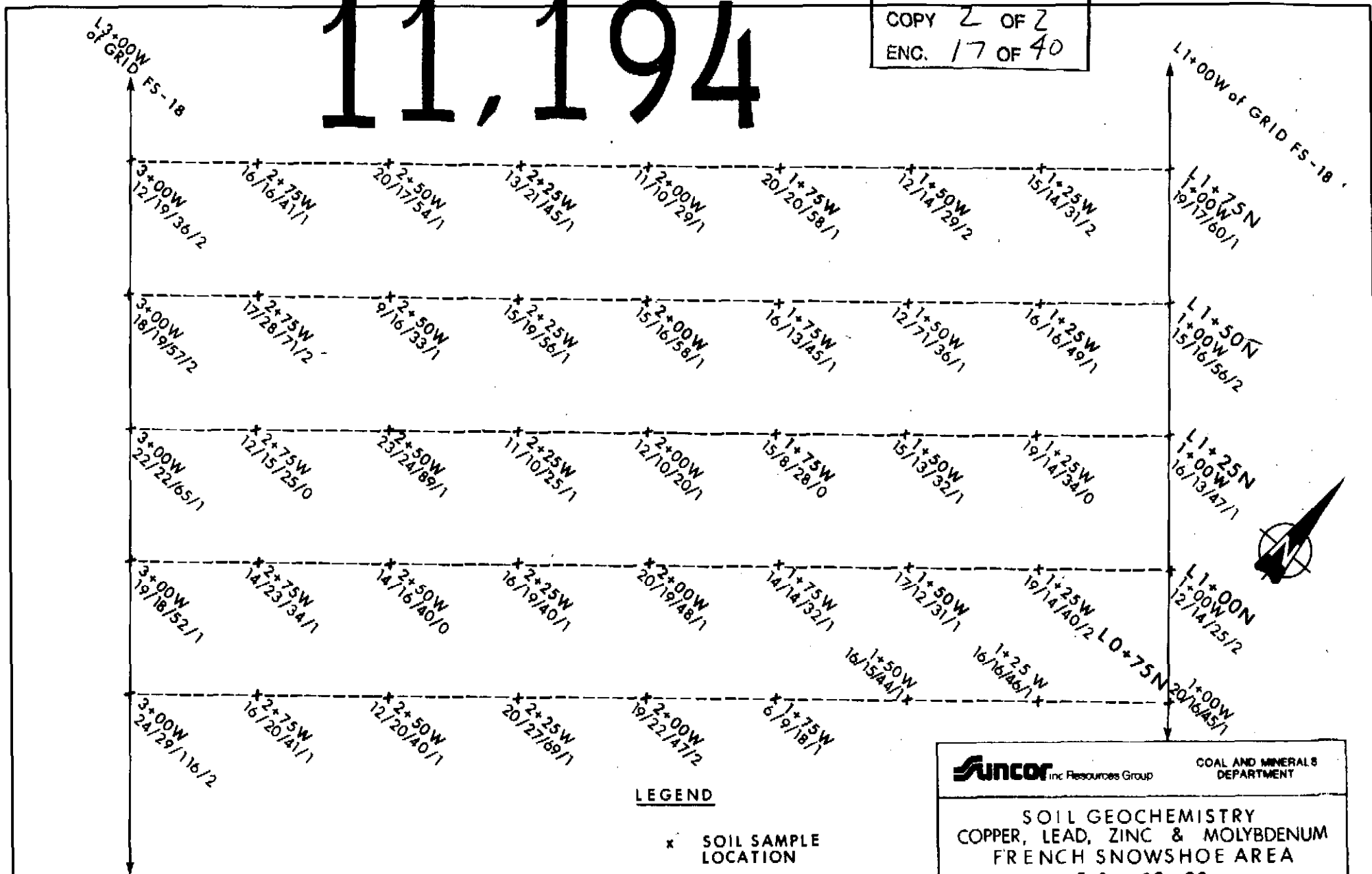
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FRENCH SNOWSHOE AREA
F.S. - 82 - 20
CARIBOO LAKE AREA, B.C.**

DATE July, 1982	SCALE 1:1000	N.T.S. 93/A	DRAWING No. 82-175-B
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LEGEND

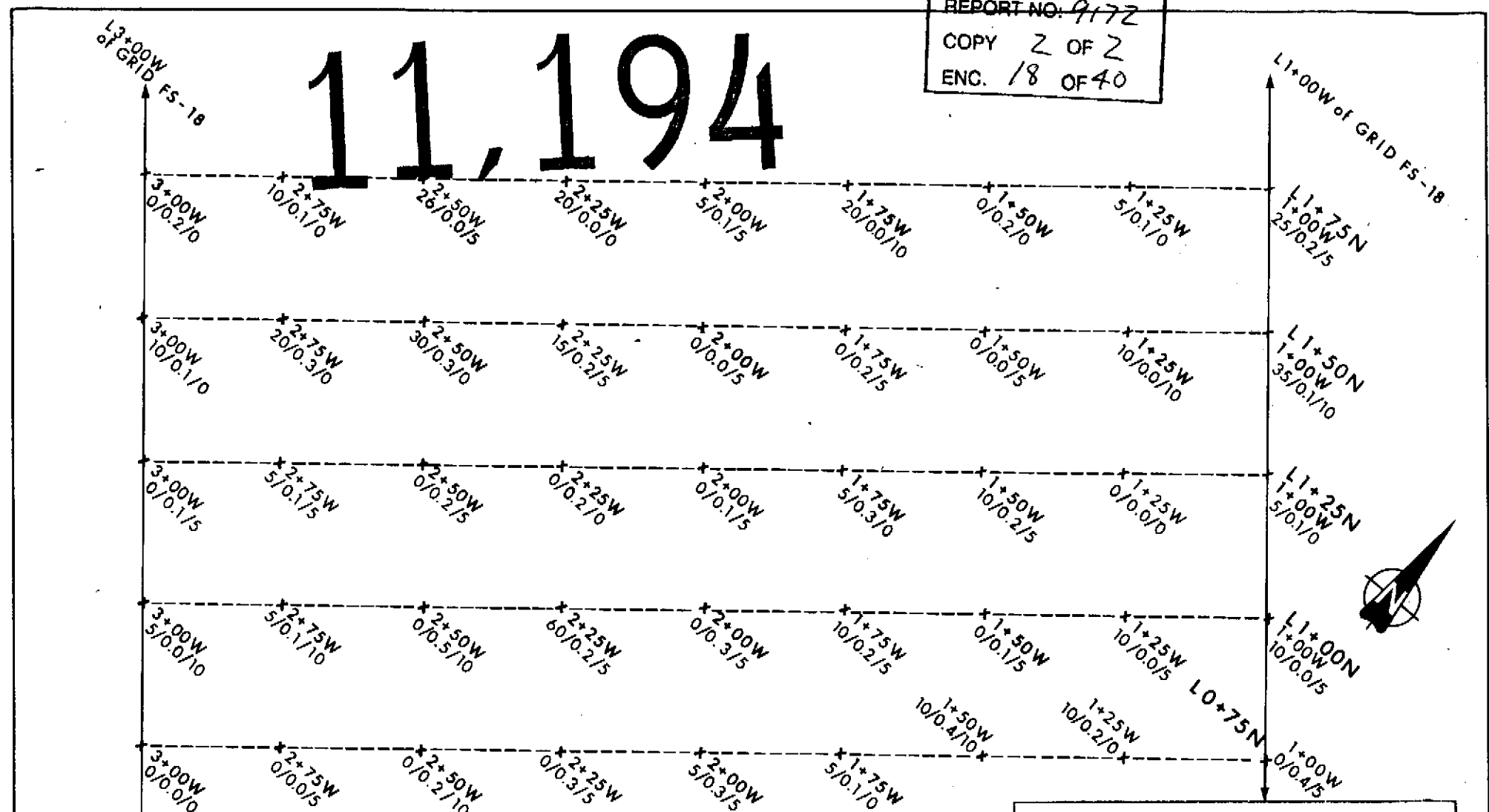
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 - GRID LINE
 - L300 W of GRID 18
- 6/9/81 GEOCHEMISTRY RESULTS
Cu/Pb/Zn/Mo (all in ppm)

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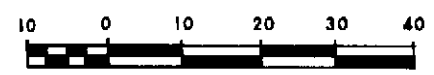
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LEGEND

- x SOIL SAMPLE LOCATION
- GRID LINE
- L 300W of GRID 18
- 5/0.1/0 GEOCHEMISTRY RESULTS
Au(ppb)/Ag(ppm) / W (ppm)
(Gold) (Silver) (Tungsten)



BEARING: 230°

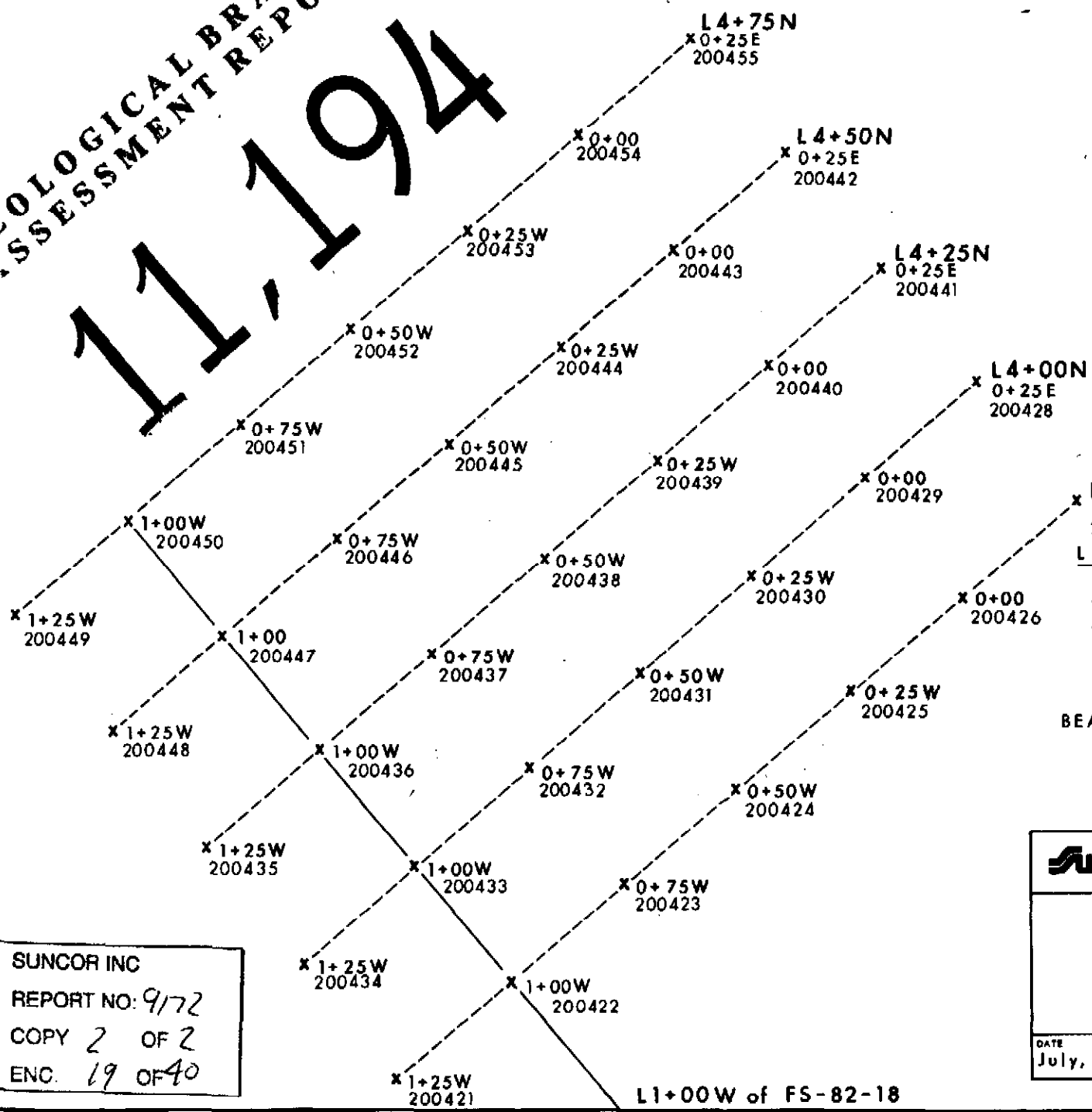
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SOIL GEOCHEMISTRY
GOLD, SILVER & TUNGSTEN
FRENCH SNOWSHOE AREA
F.S. - 82 - 20
CARIBOO LAKE AREA, B.C.

DATE July, 1982	SCALE 1:1000	NTB 93/A	DRAWING No. 82-175-D
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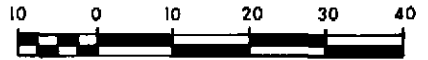
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LEGEND

- L1+00W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATIONS

BEARING: 230°



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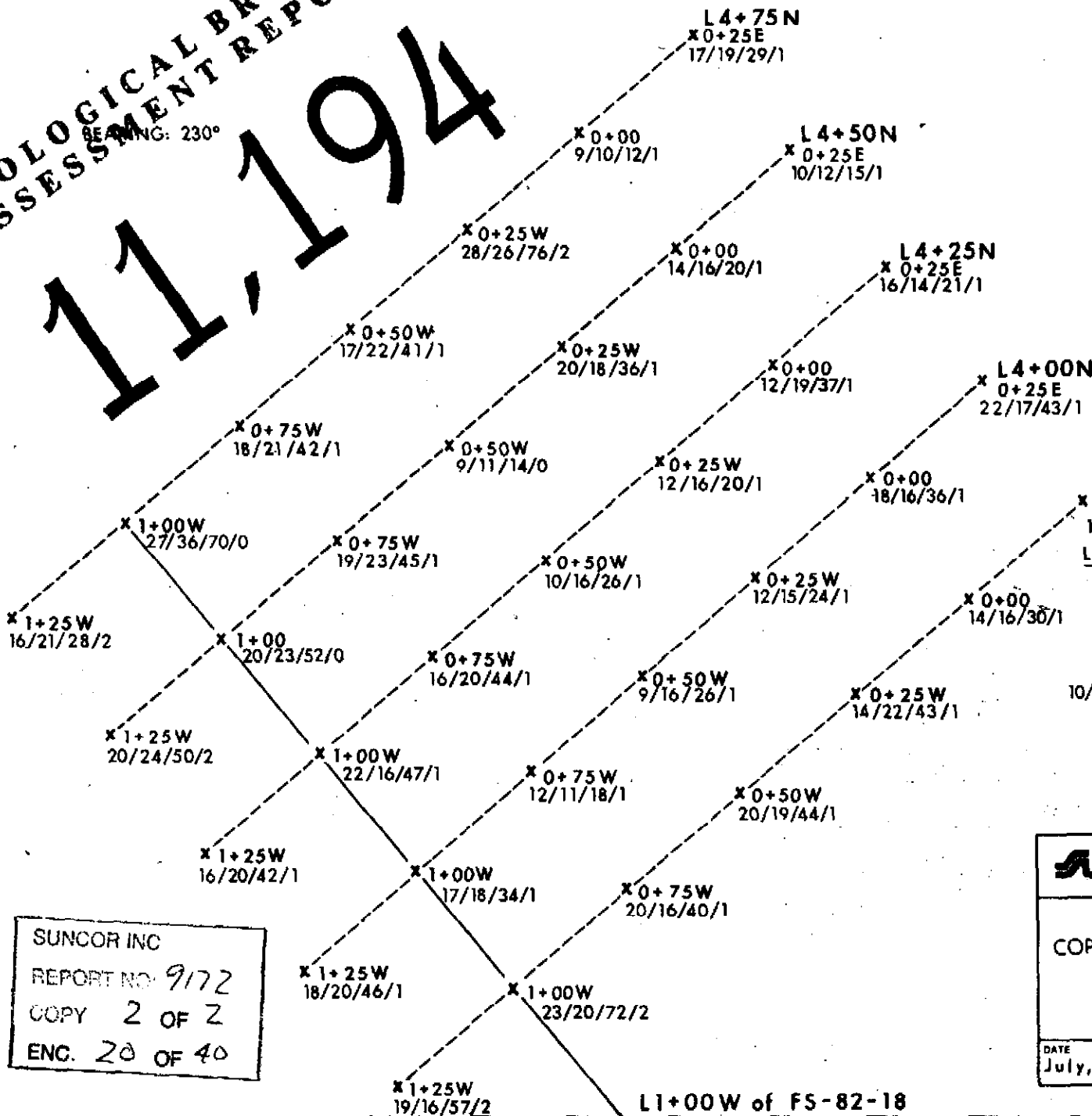
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L1+00W of FS-82-18

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BEARING: 230°



LEGEND

- L1+00W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATIONS
- 10/12/15/1 GEOCHEMISTRY RESULTS
Cu/Pb/Zn/Mo (all in ppm)



Suncor Inc. Resource Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY COPPER, LEAD, ZINC & MOLYBDENUM FRENCH SNOWSHOE AREA F.S. - 82 - 21 CARIBOO LAKE AREA, B.C.			
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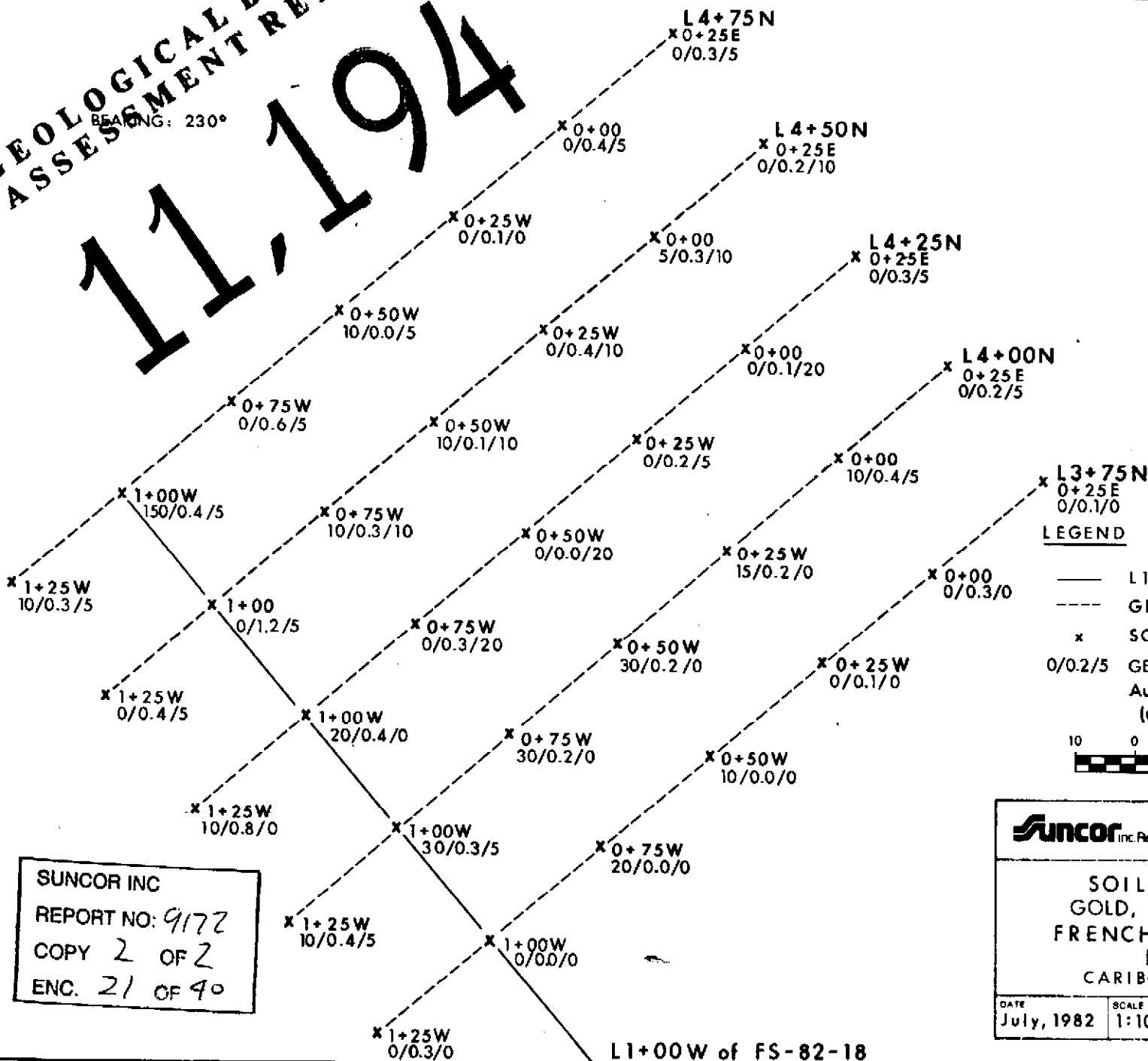
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ENC. 20 OF 40

L1+00W of FS-82-18

GEOLOGICAL BRANCH ASSESSMENT REPORT

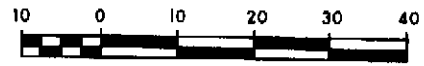
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11, 1984



LEGEND

- L1+00W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATIONS
- 0/0.2/5 GEOCHEMISTRY RESULTS
Au(ppb) / Ag(ppm) / W (ppm)
(Gold) (Silver) (Tungsten)



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Suncor Inc. Resources Group
COAL AND MINERALS DEPARTMENT

SOIL GEOCHEMISTRY
GOLD, SILVER & TUNGSTEN
FRENCH SNOWSHOE AREA
F.S. - 82 - 21
CARIBOO LAKE AREA, B.C.

DATE July, 1982	SCALE 1:1000	N.T.S. 93/A	DRAWING NO. 82-176-D
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L1+00W of FS-82-18

GEOLOGICAL BRANCH ASSESSMENT REPORT

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L3+00W

L4+00W
x 2+50W
200572

x 2+75W
200571

x 3+00W
200570

L3+50N

x 2+50W
200574

x 2+75W
200575

x 3+00W
200576

L3+00N
x 2+50W
200578

x 2+75W
200573

230°

x 3+00W
200577

LEGEND

- L300W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATION

BEARING: 230°

SUNCOR INC
REPORT NO: 9172
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ENC. 22 OF 40



Suncor inc Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY SAMPLE LOCATIONS FRENCH SNOWSHOE AREA F.S. - 82 - 25 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	NTS 93/A	DRAWING NO 82-178-B

GEOLOGICAL BRANCH ASSESSMENT REPORT

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L3+00W

L4+00W

BEARING: 230°



x 2+50W
18/24/56/1

x 2+75W
18/18/40/1

x 3+00W
15/18/43/1

L3+50N

x 2+50W
16/20/60/1

x 2+75W
18/18/51/1

x 3+00W
20/22/64/2

L3+00N

x 2+50W
26/26/95/2

x 2+75W
19/24/74/2

230°

x 3+00W
23/21/68/1

LEGEND

- L300W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATION
- 16/20/60/1 GEOCHEMISTRY RESULTS
Cu/Pb/Zn/Mo (all in ppm)

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Suncor Inc Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY COPPER, LEAD, ZINC & MOLYBDENUM FRENCH SNOWSHOE AREA F.S. - 82-25 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	M.T.S. 93/A	DRAWING No. 82-178-C

GEOLOGICAL BRANCH ASSESSMENT REPORT

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L3+00W

x 2+50W
10/0.1/10

BEARING: 230°

x 2+75W
0/0.0/10

x 3+00W
0/0.2/5

L3+50N

x 2+50W
0/0.3/10

x 2+75W
0/0.0/0

x 3+00W
0/0.0/0

L3+00N
2+50W
5/0.0/0

x 2+75W
10/0.3/10

230°

x 3+00W
0/0.0/0

LEGEND

- L300W of GRID 18
- GRID LINES
- x SOIL SAMPLE LOCATION
- 5/0.0/0 GEOCHEMISTRY RESULTS
Au(ppb) / Ag(ppm) / W(ppm)
(Gold) (Silver) (Tungsten)


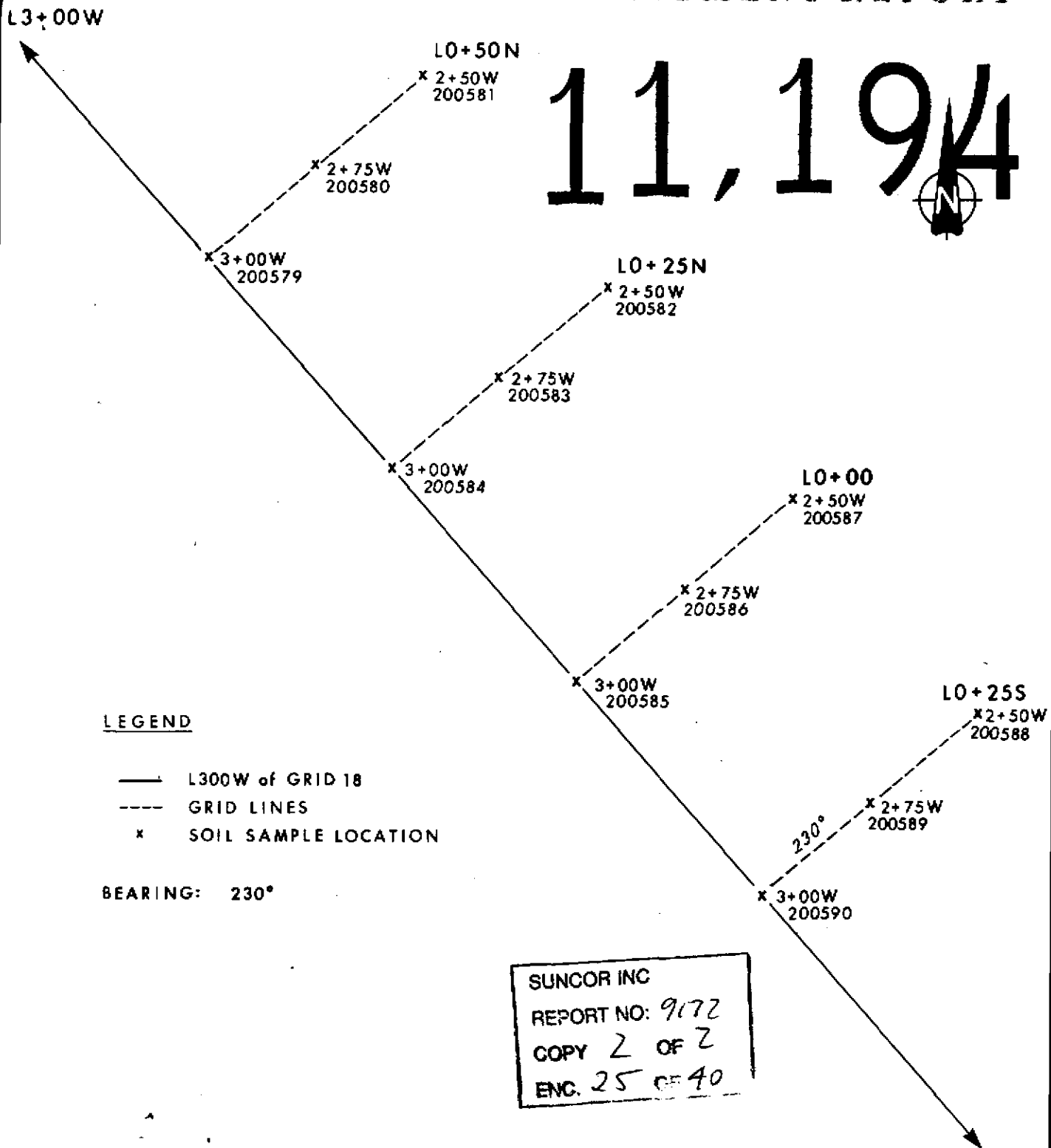
SUNCOR INC
REPORT NO: 9172
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Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT
SOIL GEOCHEMISTRY GOLD, SILVER & TUNGSTEN FRENCH SNOWSHOE AREA F.S. - 82 - 25 CARIBOO LAKE AREA, B.C.		
DATE July, 1982	SCALE 1:1000	DRAWING No. 82-178-D
	NTS 93/A	

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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LEGEND

- L300W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATION

BEARING: 230°

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 ENC. 25 OF 40



SUNCOR Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY SAMPLE LOCATIONS FRENCH SNOWSHOE AREA F.S. - 82-26 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	N.T.S. 93/A	DRAWING No. 82-179-B

GEOLOGICAL BRANCH ASSESSMENT REPORT

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BEARING: 230°

L3+00W

L0+50N

x 2+50W
12/14/23/1

x 2+75W
16/24/52/2

x 3+00W
31/32/84/2

L0+25N

x 2+50W
16/17/34/2

x 2+75W
18/15/28/1

x 3+00W
18/16/45/1

L0+00

x 2+50W
22/32/73/2

x 2+75W
24/24/65/1

x 3+00W
NO SAMPLE

L0+25S

x 2+50W
17/15/30/0

x 2+75W
24/20/88/2

x 3+00W
21/25/84/2

LEGEND

- L300W of GRID 18
- - - GRID LINES
- x SOIL SAMPLE LOCATION
- 16/17/24/2 GEOCHEMISTRY RESULTS
Cu/Pb/Zn/Mo (all in ppm)

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Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY COPPER, LEAD, ZINC & MOLYBDENUM FRENCH SNOWSHOE AREA F.S. - 82 - 26 CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	REV. 93/A	DRAWING No. 82-179-C

GEOLOGICAL BRANCH ASSESSMENT REPORT

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BEARING: 230°

L3+00W

L0+50N

x 2+50W
10/0.3/0

x 2+75W
10/0.0/0

x 3+00W
0/0.5/5

L0+25N

x 2+50W
0/0.9/0

x 2+75W
0/0.1/0

x 3+00W
0/0.3/0

L0+00

x 2+50W
10/0.6/5

x 2+75W
0/0.6/5

x 3+00W
NO SAMPLE

L0+25S

x 2+50W
0/0.1/0

x 2+75W
0/0.3/5

230°

x 3+00W
10/0.4/0

LEGEND

- L300W of GRID 18
 - GRID LINES
 - x SOIL SAMPLE LOCATION
- GEOCHEMISTRY RESULTS
Au(ppb) / Ag(ppm) / W(ppm)
(Gold) (Silver) (Tungsten)

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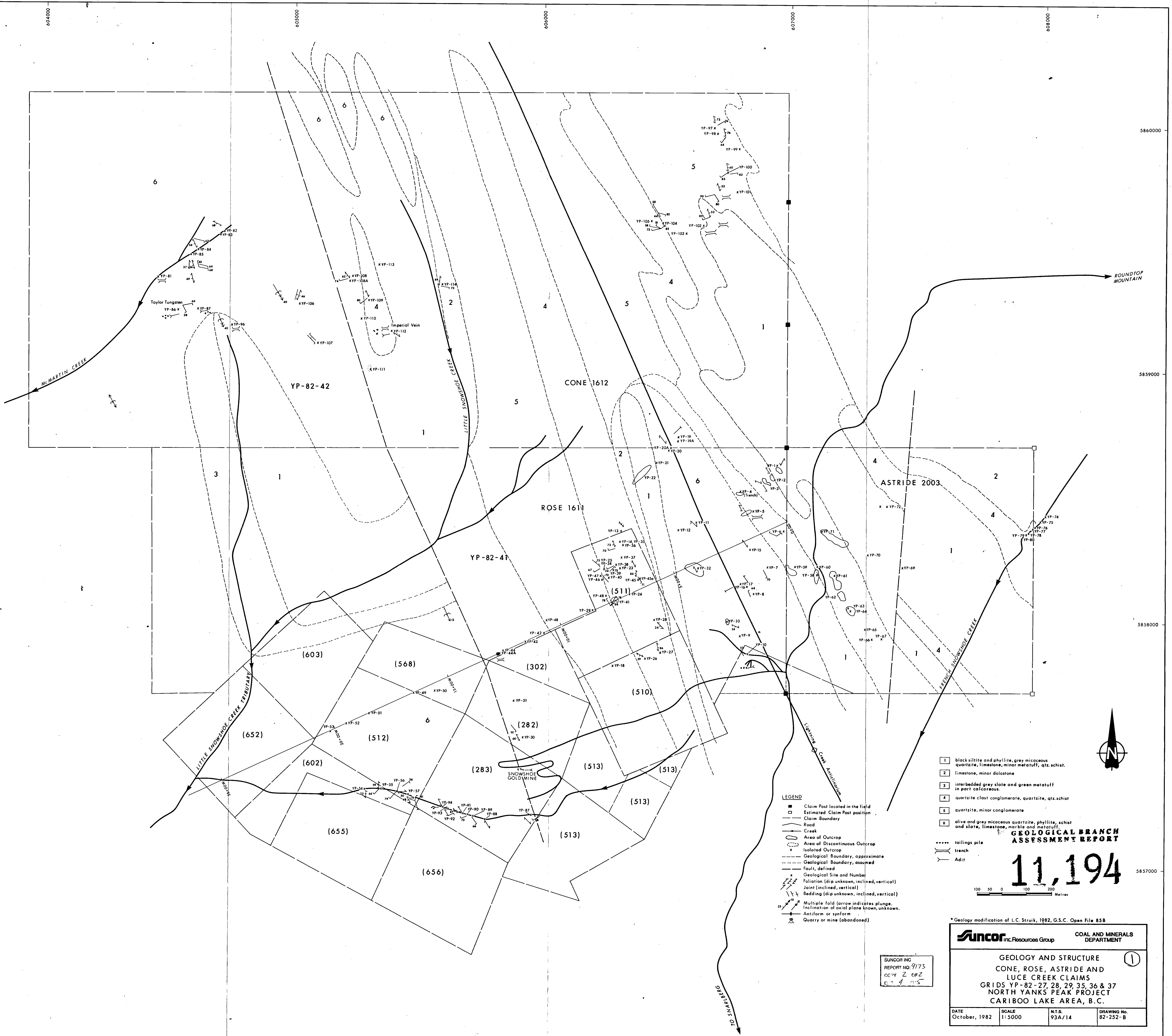


Suncor Inc. Resources Group

COAL AND MINERALS
DEPARTMENT

SOIL GEOCHEMISTRY
GOLD, SILVER & TUNGSTEN
FRENCH SNOWSHOE AREA
F.S. - 82 - 26
CARIBOO LAKE AREA, B.C.

DATE July, 1982	SCALE 1:1000	RTS 93/A	DRAWING No. 82-179-D
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LEGEND

- Claim Post located in the field
- Estimated Claim Post position
- Claim Boundary
- Road
- Creek
- Area of Outcrop
- Area of Discontinuous Outcrop
- Isolated Outcrop
- Geological Boundary, approximate
- Geological Boundary, assumed
- Fault, defined
- x Geological Site and Number
- Foliation (dip unknown, inclined, vertical)
- Joint (inclined, vertical)
- Bedding (dip unknown, inclined, vertical)
- Multiple fold (arrow indicates plunge, inclination of axial plane known, unknown)
- Antiform or synform
- ★ Quarry or mine (abandoned)

1 black siltite and phyllite, grey micaceous quartzite, limestone, minor metatuff, qtz schist.
 2 limestone, minor dolostone
 3 interbedded grey slate and green metatuff in part calcareous
 4 quartzite clast conglomerate, quartzite, qtz schist
 5 quartzite, minor conglomerate
 6 olive and grey micaceous quartzite, phyllite, schist and slate, limestone, marble and metatuff.

..... tailings pile
 --- trench
 --- Adit

GEOLOGICAL BRANCH ASSESSMENT REPORT

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0 50 100 150 200 Meters

* Geology modification of L.C. Struik, 1982, G.S.C. Open File 858

Suncor Inc. Resources Group COAL AND MINERALS DEPARTMENT

GEOLOGY AND STRUCTURE

CONE, ROSE, ASTRIDE AND LUCE CREEK CLAIMS

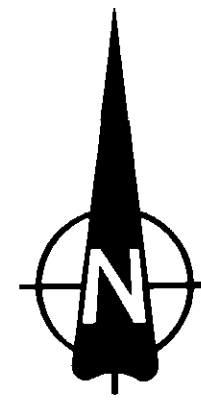
GRIDS YP-82-27, 28, 29, 35, 36 & 37

NORTH YANKS PEAK PROJECT

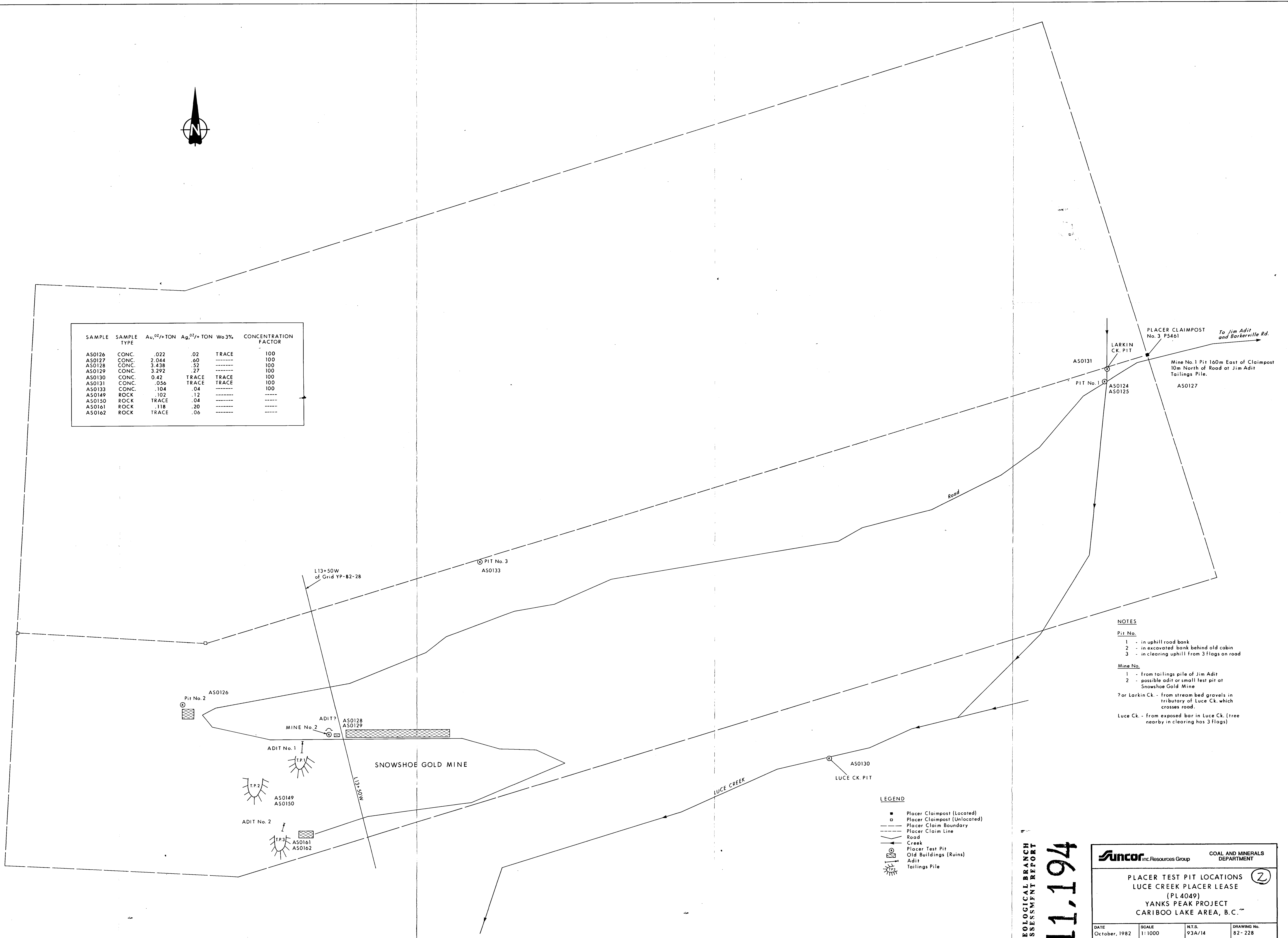
CARIBO LAKE AREA, B.C.

DATE October, 1982	SCALE 1:5000	N.T.S. 93A/14	DRAWING No. 82-252-B
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SAMPLE	SAMPLE TYPE	Au ^{0.2} /+TON	Ag ^{0.2} /+TON	Wc3%	CONCENTRATION FACTOR
AS0126	CONC.	.022	.02	TRACE	100
AS0127	CONC.	2.044	.60	-----	100
AS0128	CONC.	3.438	.52	-----	100
AS0129	CONC.	3.292	.27	-----	100
AS0130	CONC.	0.42	TRACE	TRACE	100
AS0131	CONC.	.056	TRACE	TRACE	100
AS0133	CONC.	.104	.04	-----	100
AS0149	ROCK	.102	.12	-----	-----
AS0150	ROCK	TRACE	.04	-----	-----
AS0161	ROCK	.118	.20	-----	-----
AS0162	ROCK	TRACE	.06	-----	-----



NOTES

Pit No.

- 1 - in uphill road bank
- 2 - in excavated bank behind old cabin
- 3 - in clearing uphill from 3 flags on road

Mine No.

- 1 - from tailings pile of Jim Adit
- 2 - possible adit or small test pit at Snowshoe Gold Mine

? or Larkin Ck. - from stream bed gravels in tributary of Luce Ck. which crosses road.

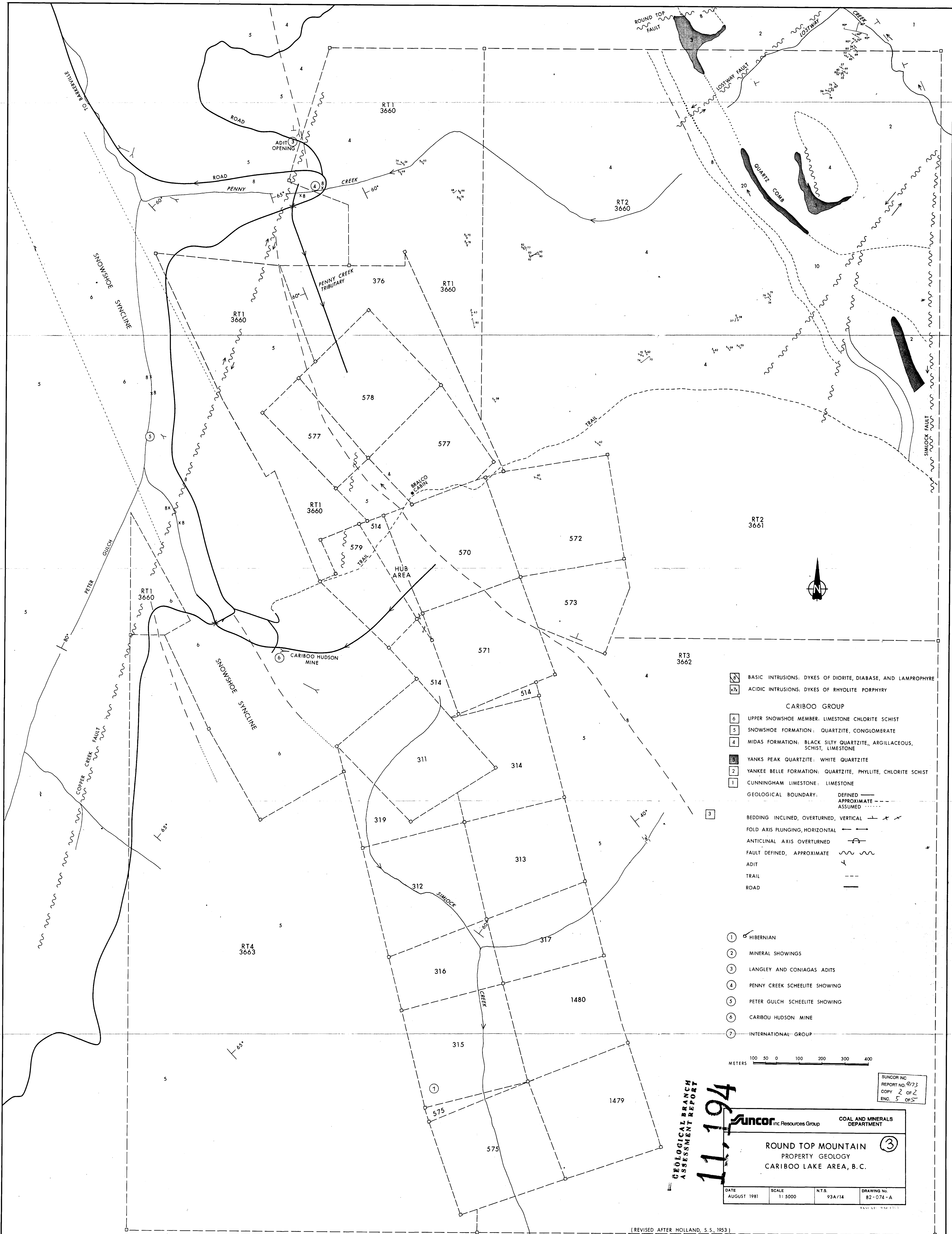
Luce Ck. - from exposed bar in Luce Ck. (tree nearby in clearing has 3 flags)

- LEGEND**
- Placer Claimpost (Located)
 - Placer Claimpost (Unlocated)
 - Placer Claim Boundary
 - - - Placer Claim Line
 - Road
 - ~ Creek
 - ☉ Placer Test Pit
 - ☉ Old Buildings (Ruins)
 - ☉ Adit
 - ☉ Tailings Pile

GEOLOGICAL BRANCH
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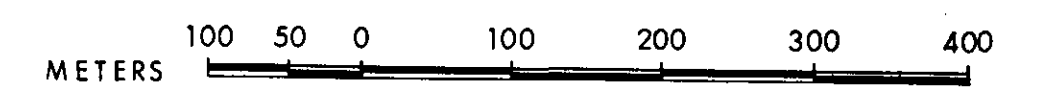
Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
PLACER TEST PIT LOCATIONS LUCE CREEK PLACER LEASE (PL 4049) YANKS PEAK PROJECT CARIBOO LAKE AREA, B.C.			
DATE	SCALE	N.T.S.	DRAWING No.
October, 1982	1:1000	93A/14	82-228

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- 8 BASIC INTRUSIONS: DYKES OF DIORITE, DIABASE, AND LAMPROPHYRE
 - 7 ACIDIC INTRUSIONS: DYKES OF RHYOLITE PORPHYRY
- CARIBOO GROUP**
- 6 UPPER SNOWSHOE MEMBER: LIMESTONE CHLORITE SCHIST
 - 5 SNOWSHOE FORMATION: QUARTZITE, CONGLOMERATE
 - 4 MIDAS FORMATION: BLACK SILTY QUARTZITE, ARGILLACEOUS, SCHIST, LIMESTONE
 - 3 YANKS PEAK QUARTZITE: WHITE QUARTZITE
 - 2 YANKEE BELLE FORMATION: QUARTZITE, PHYLITE, CHLORITE SCHIST
 - 1 CUNNINGHAM LIMESTONE: LIMESTONE
- GEOLOGICAL BOUNDARY: DEFINED ——— APPROXIMATE - - - - - ASSUMED ·····
- 3 BEDDING INCLINED, OVERTURNED, VERTICAL
 - FOLD AXIS PLUNGING, HORIZONTAL
 - ANTICLINAL AXIS OVERTURNED
 - FAULT DEFINED, APPROXIMATE
 - ADIT
 - TRAIL
 - ROAD

- 1 HIBERNIAN
- 2 MINERAL SHOWINGS
- 3 LANGLEY AND CONIAGAS ADITS
- 4 PENNY CREEK SCHEELITE SHOWING
- 5 PETER GULCH SCHEELITE SHOWING
- 6 CARIBOO HUDSON MINE
- 7 INTERNATIONAL GROUP



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Suncor Inc. Resources Group
 COAL AND MINERALS DEPARTMENT

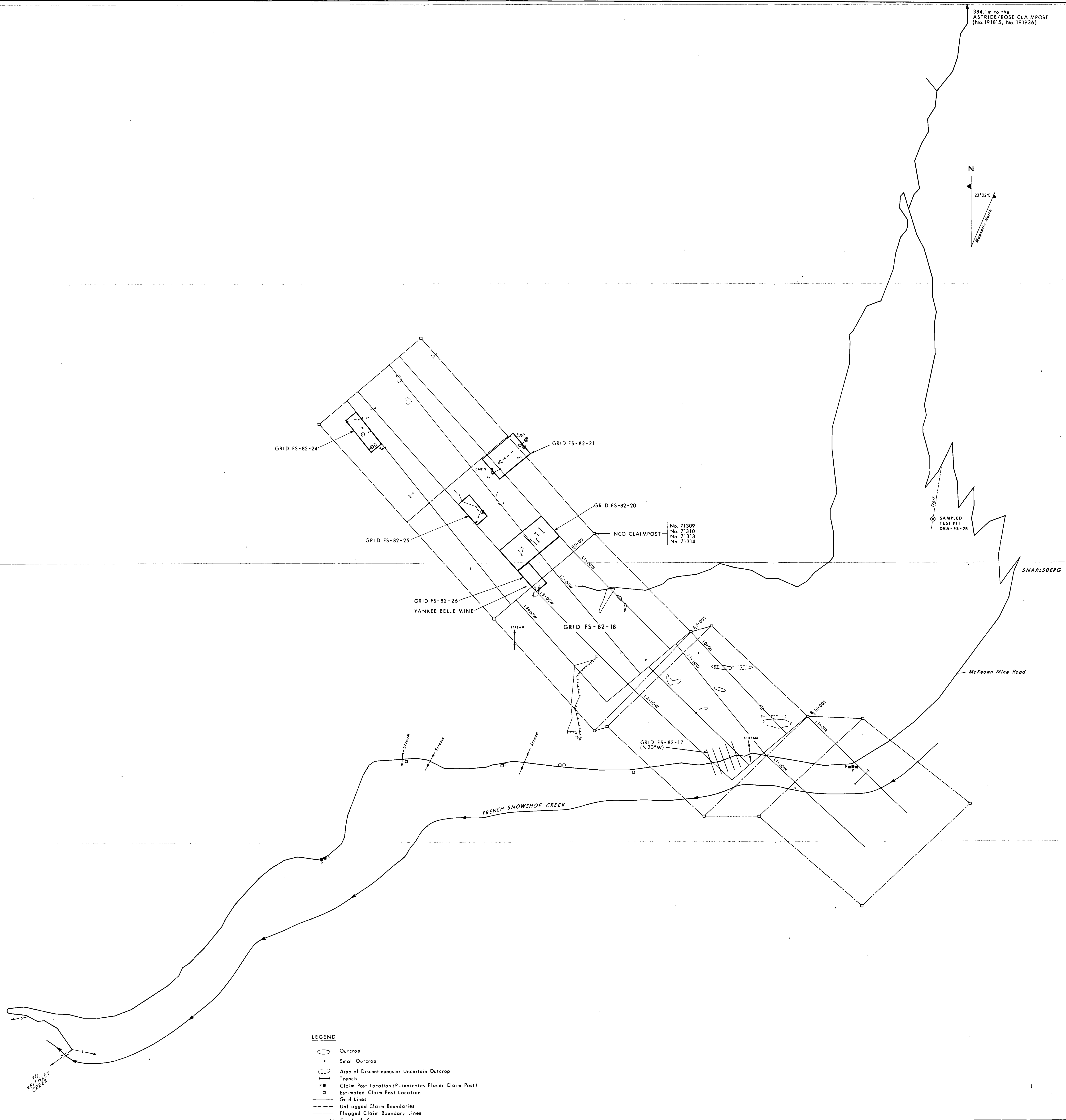
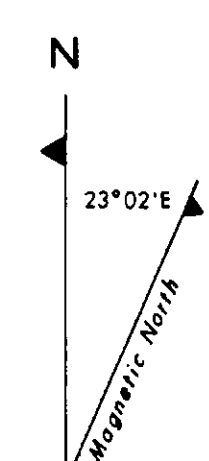
ROUND TOP MOUNTAIN (3)
 PROPERTY GEOLOGY
 CARIBOO LAKE AREA, B.C.

DATE	SCALE	N.T.S.	DRAWING NO.
AUGUST 1981	1:5000	93A/14	82-074-A

IRON MAIDEN®
 U. S. A. DESIGN PATENT 4139248 1979
 CANADIAN IND. DESIGN REG. NO. 42524
 CANADIAN PATENT 1065729 1979

IRON MAIDEN® SYSTEMS LTD. CALGARY, ALBERTA, CANADA

384.3m to the
 ASTRIE/ROSE CLAIMPOST
 (No. 191815, No. 191936)

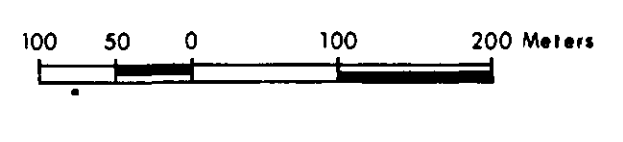


- LEGEND**
- Outcrop
 - x Small Outcrop
 - ⊞ Area of Discontinuous or Uncertain Outcrop
 - ▬ Trench
 - Claim Post Location (P-indicates Placer Claim Post)
 - Estimated Claim Post Location
 - Grid Lines
 - - - Unflagged Claim Boundaries
 - ▬ Flagged Claim Boundary Lines
 - ▬ Creeks & Streams
 - ⊞ Tailings Pile
 - Test Pit (not to scale)
 - ▬ Trench to Adit
 - ▬ Trail
 - ▬ Extent of Small Detail Grid in Grid FS-82-18
 - ▬ Road
- NOTE**
 For Detail Maps of Small Grids (FS-82-14, 15, 16, 17, 20, 21, 24, 25 & 26 see individual 1:1000 Maps)

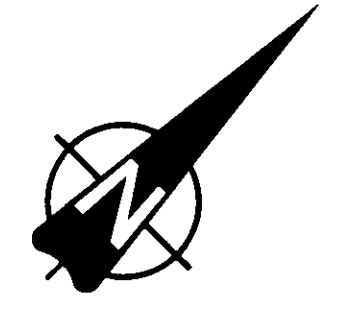
GEOLOGICAL BRANCH
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Suncor Resources Group		COAL AND MINERALS DEPARTMENT	
FRENCH SNOWSHOE CLAIM GROUP ④			
INDEX MAP			
YANKS PEAK PROJECT CARIBOO LAKE AREA, B.C.			
DATE June, 1982	SCALE 1:5000	N.T.S. 93A/14	DRAWING No. 82-298



GRID FS-82-24

GRID FS-82-21

GRID FS-82-25

GRID FS-82-20

GRID FS-82-26

- LEGEND**
- Flagged Claim Boundary
 - - - Unflagged Claim Boundary
 - Geochem Sample Location on Grid Line
 - - - Grid Line for small detailed grids.
 - Note: See individual 1:1000 A-size drawings for Sample Location for following Grids: FS-82-20, 21, 24, 25 & 26
 - Claim Post (located in field)
 - Estimated Claim Post Location

**GEOLOGICAL BRANCH
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Suncor Inc. Resources Group COAL AND MINERALS DEPARTMENT

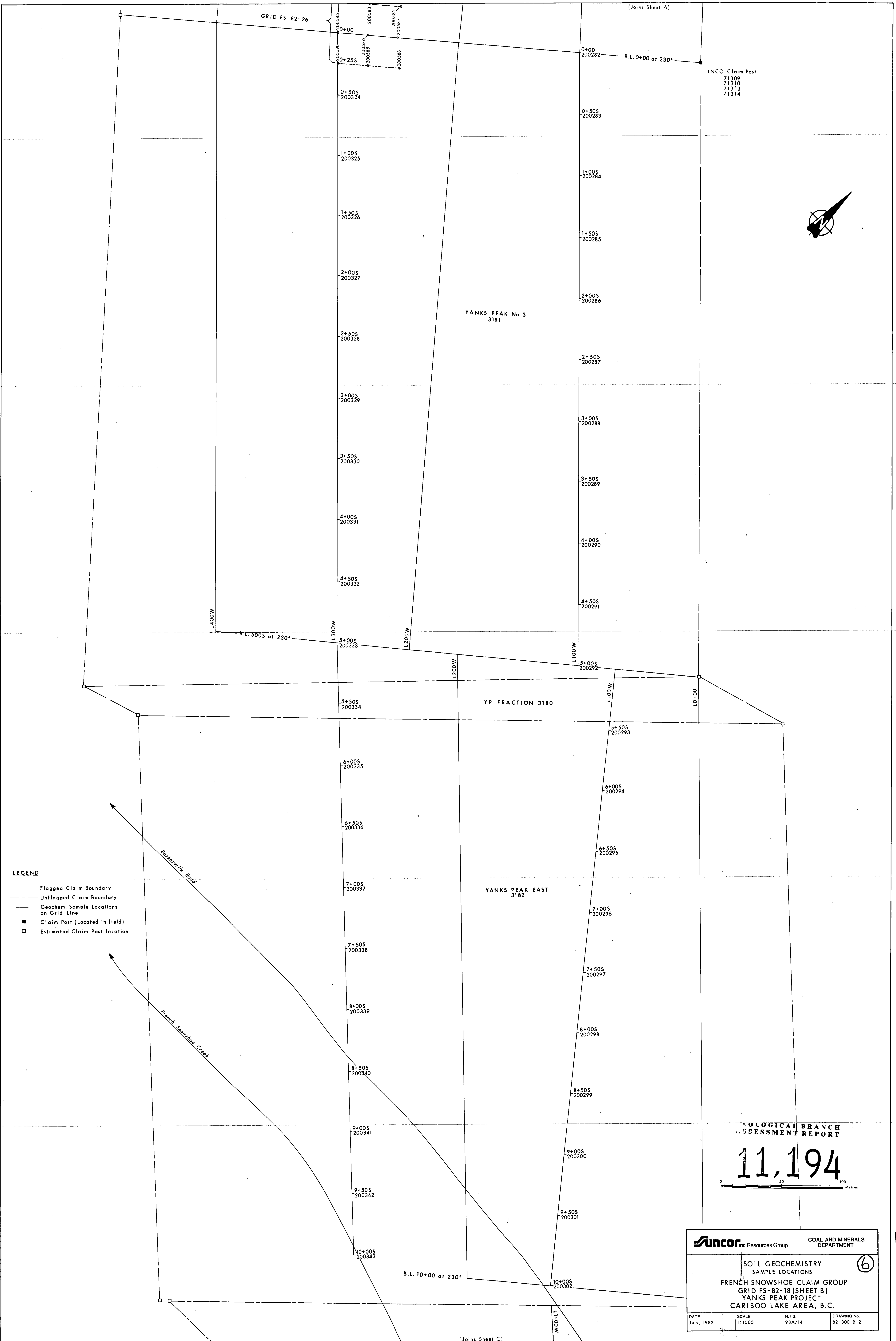
SOIL GEOCHEMISTRY (5)
SAMPLE LOCATIONS
FRENCH SNOWSHOE CLAIM GROUP
GRID FS-82-18 (SHEET A)
YANKS PEAK PROJECT
CARIBOO LAKE AREA, B.C.

DATE July, 1982	SCALE 1:1000	N.T.S. 93A/14	DRAWING No. 82-300-8-1
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INCO Claim Post
71309
71310
71313
71314

(Joins Sheet B)



LEGEND

- Flagged Claim Boundary
- - - Unflagged Claim Boundary
- Geochem Sample Locations on Grid Line
- Claim Post (Located in field)
- Estimated Claim Post location

INCO Claim Post
71309
71310
71313
71314

GEOLOGICAL BRANCH
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0 50 100 Metres

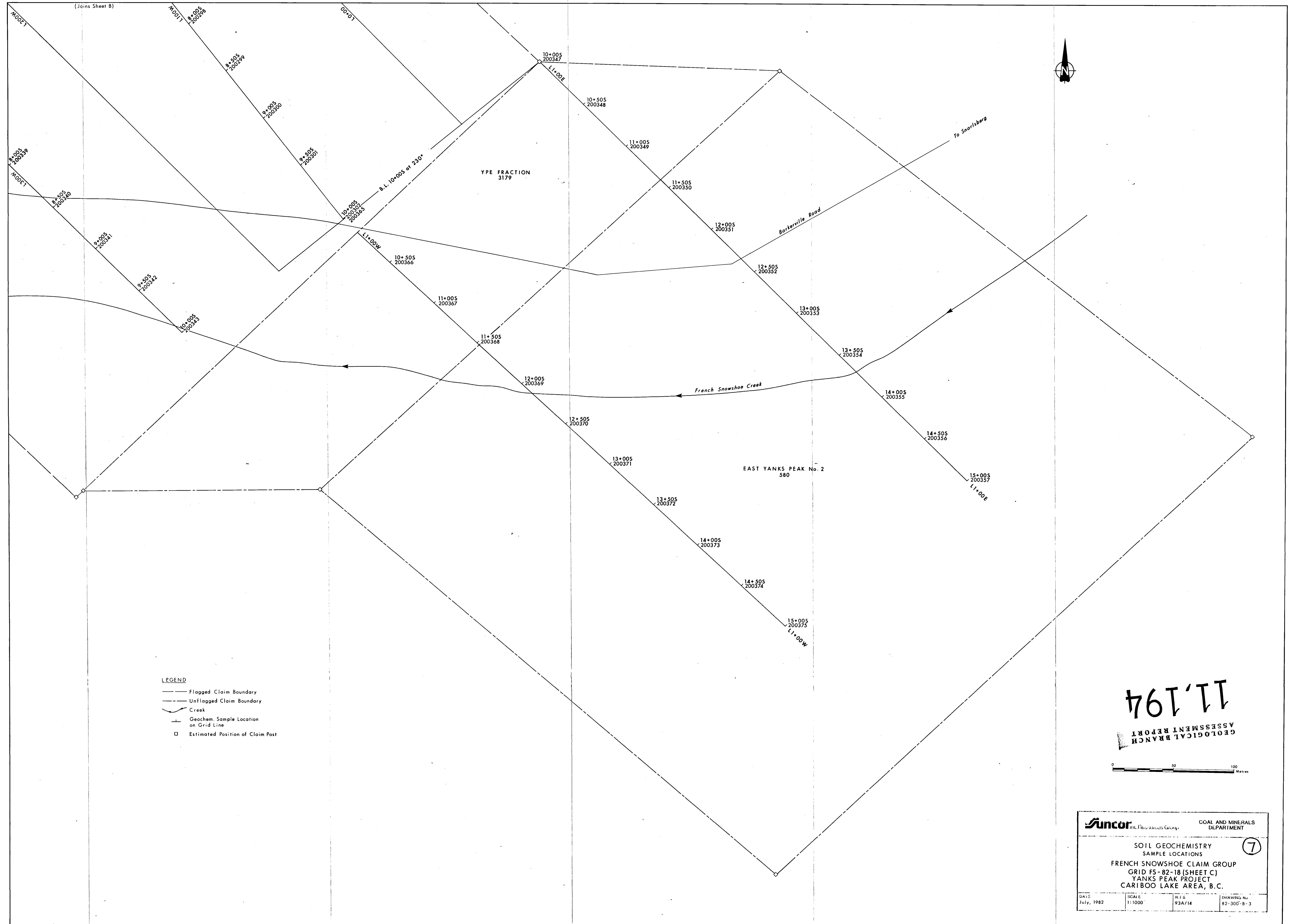
Suncor Inc. Resources Group		COAL AND MINERALS DEPARTMENT	
SOIL GEOCHEMISTRY SAMPLE LOCATIONS			
FRENCH SNOWSHOE CLAIM GROUP GRID FS-82-18 (SHEET B) YANKS PEAK PROJECT CARIBOO LAKE AREA, B.C.			
DATE July, 1982	SCALE 1:1000	NTS 93A/14	DRAWING No. 82-300-B-2

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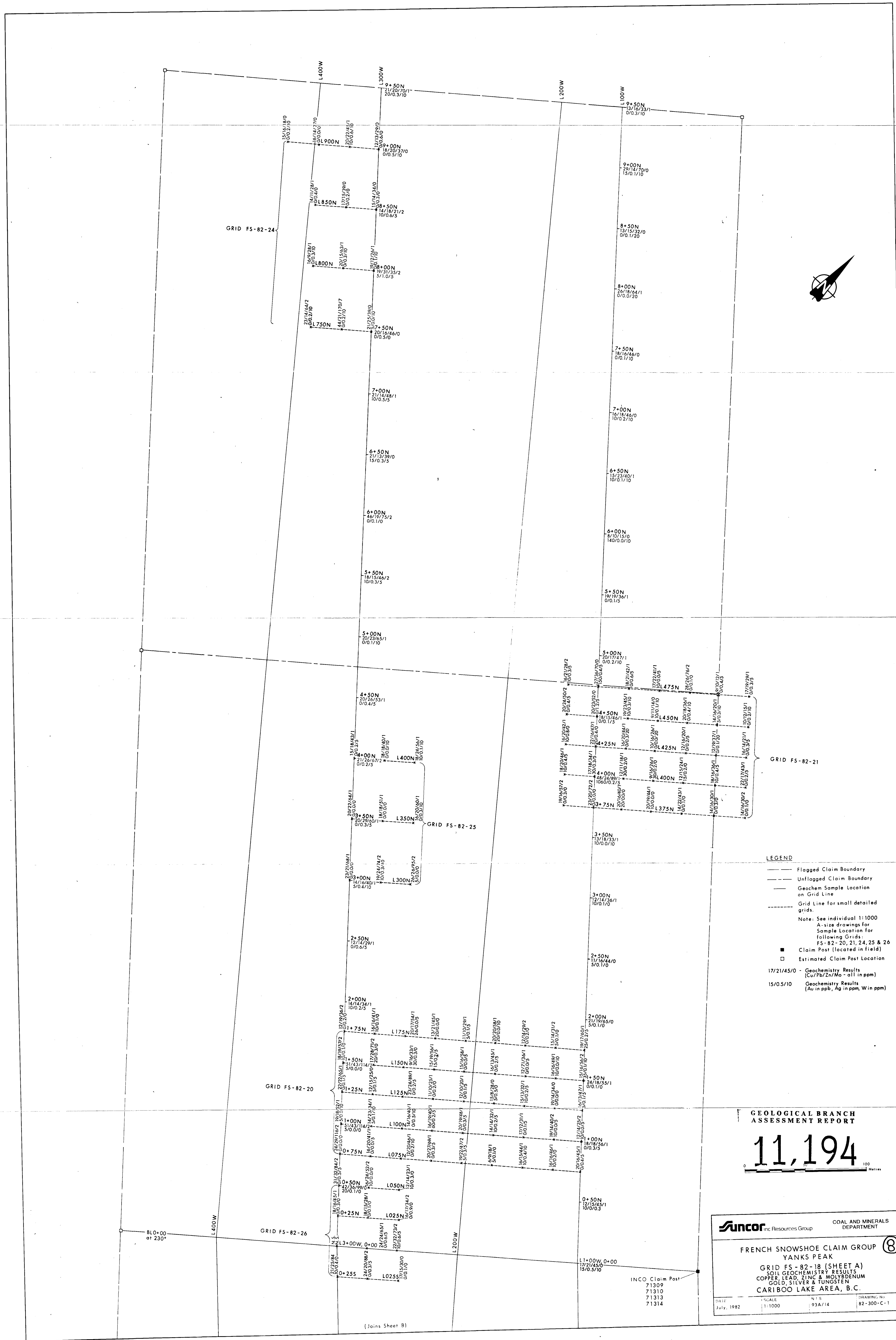
6

(Joins Sheet C)

(Joins Sheet A)



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LEGEND

- Flagged Claim Boundary
- - - Unflagged Claim Boundary
- Geochem Sample Location on Grid Line
- Grid Line for small detailed grids.

Note: See individual 1:1000 A-size drawings for Sample Location for following Grids: FS-82-20, 21, 24, 25 & 26

- Claim Post (located in field)
- Estimated Claim Post Location

17/21/45/0 - Geochemistry Results (Cu/Pb/Zn/Mo - all in ppm)
 15/05/10 - Geochemistry Results (Au in ppb, Ag in ppm, W in ppm)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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Suncor Inc Resources Group COAL AND MINERALS DEPARTMENT

FRENCH SNOWSHOE CLAIM GROUP (8)

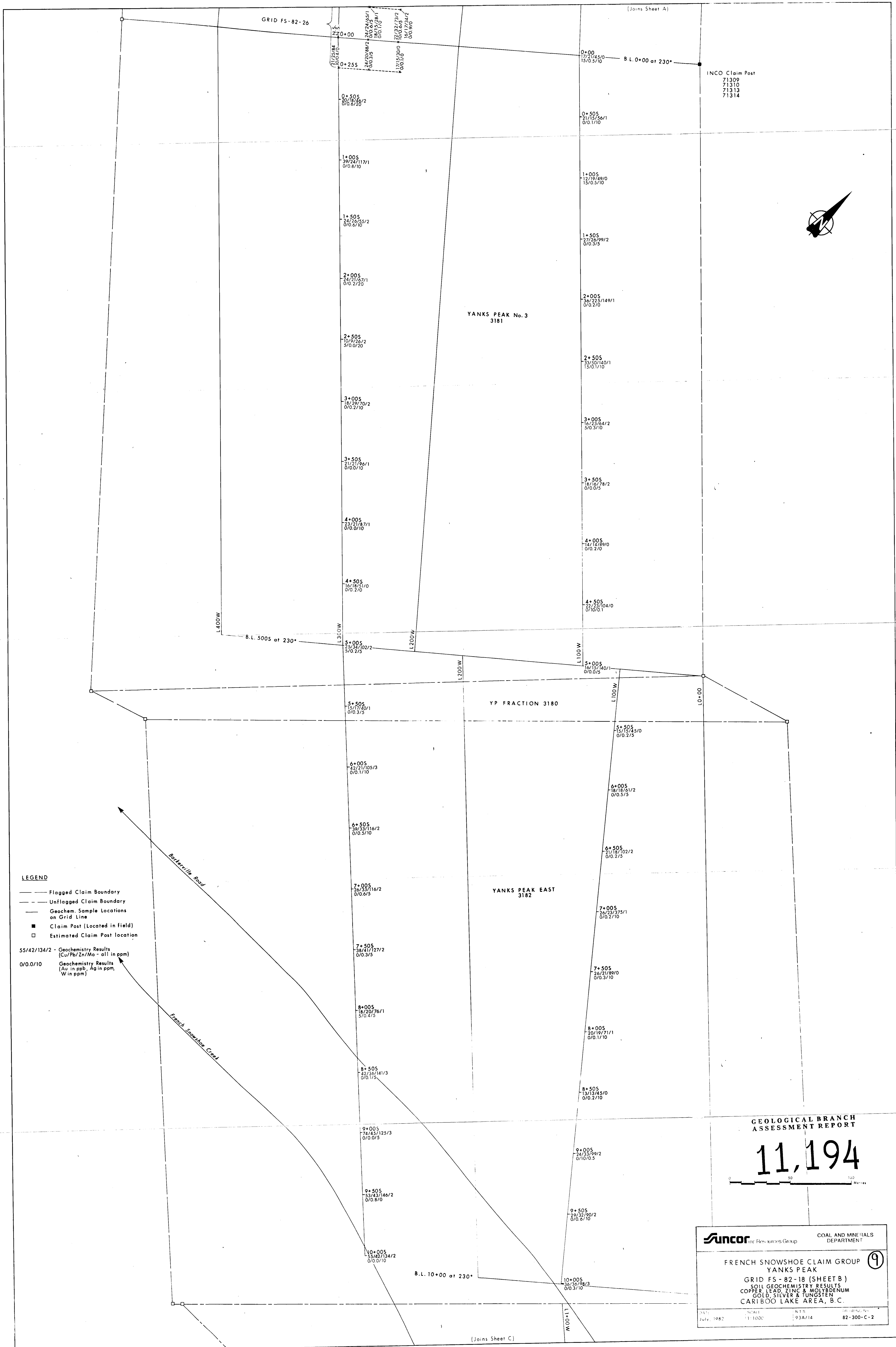
YANKS PEAK

GRID FS-82-18 (SHEET A)

SOIL GEOCHEMISTRY RESULTS
 COPPER, LEAD, ZINC & MOLYBDENUM
 GOLD, SILVER & TUNGSTEN
 CARIBOO LAKE AREA, B.C.

DATE: July, 1982 SCALE: 1:1000 N.T.S. 93A/14 DRAWING NO: 82-300-C-1

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LEGEND

- Flagged Claim Boundary
- - - Unflagged Claim Boundary
- Geochem. Sample Locations on Grid Line
- Claim Post (Located in Field)
- Estimated Claim Post location

55/42/134/2 - Geochemistry Results (Cu/Pb/Zn/Mo - all in ppm)
 0/0.0/10 - Geochemistry Results (Au in ppb, Ag in ppm, W in ppm)

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

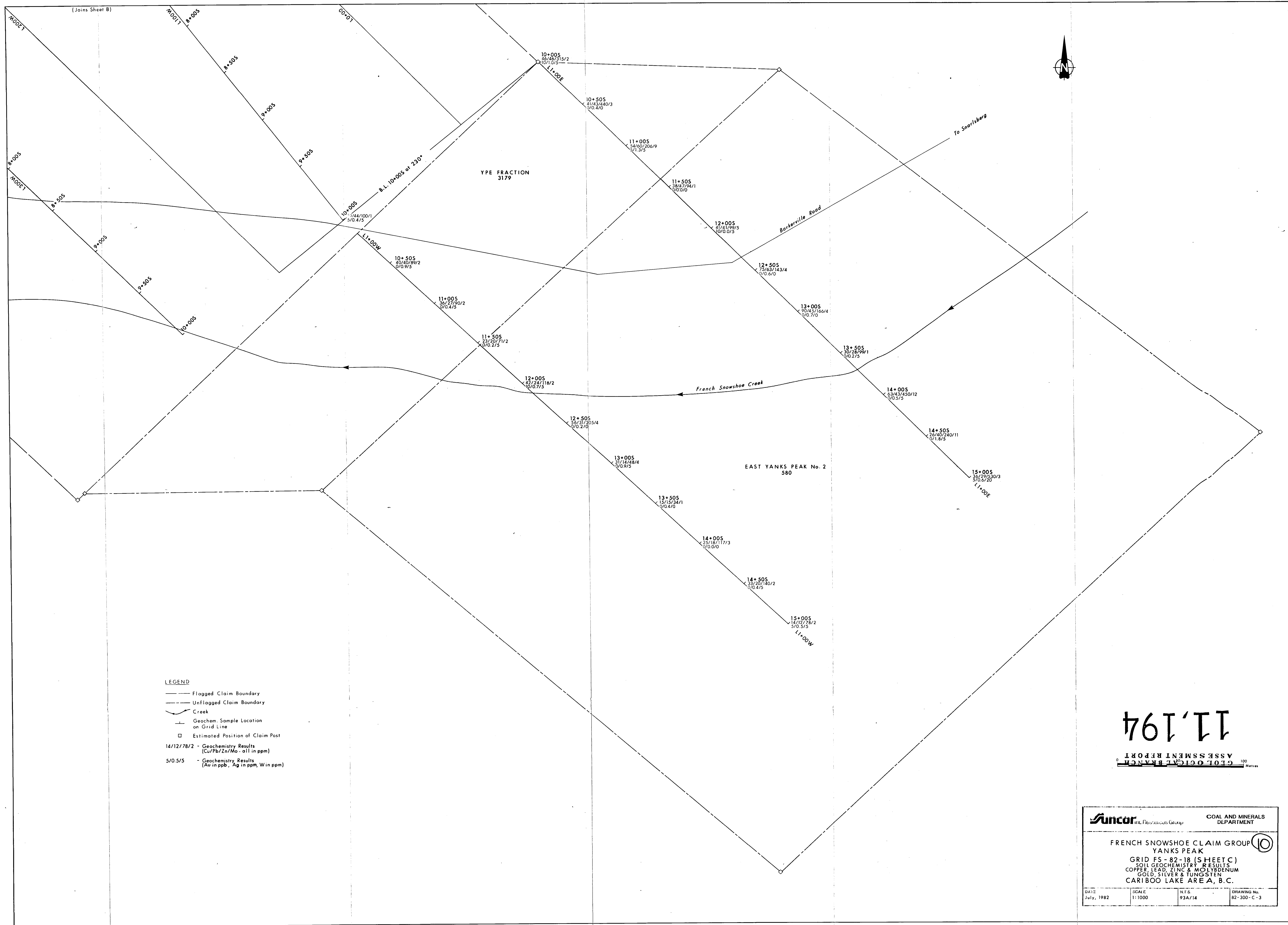
11,194

Suncor THE FRENCH SNOWSHOE GROUP COAL AND MINERALS DEPARTMENT

FRENCH SNOWSHOE CLAIM GROUP **9**
 YANKS PEAK
 GRID FS - 82-18 (SHEET B)
 SOIL GEOCHEMISTRY RESULTS
 COPPER, LEAD, ZINC & MOLYBDENUM
 GOLD, SILVER & TUNGSTEN
 CARIBOO LAKE AREA, B.C.

DATE: July, 1982 SCALE: 1:1000 SHEET: 03A/14 REPORT NO.: 82-300-C-2

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LEGEND

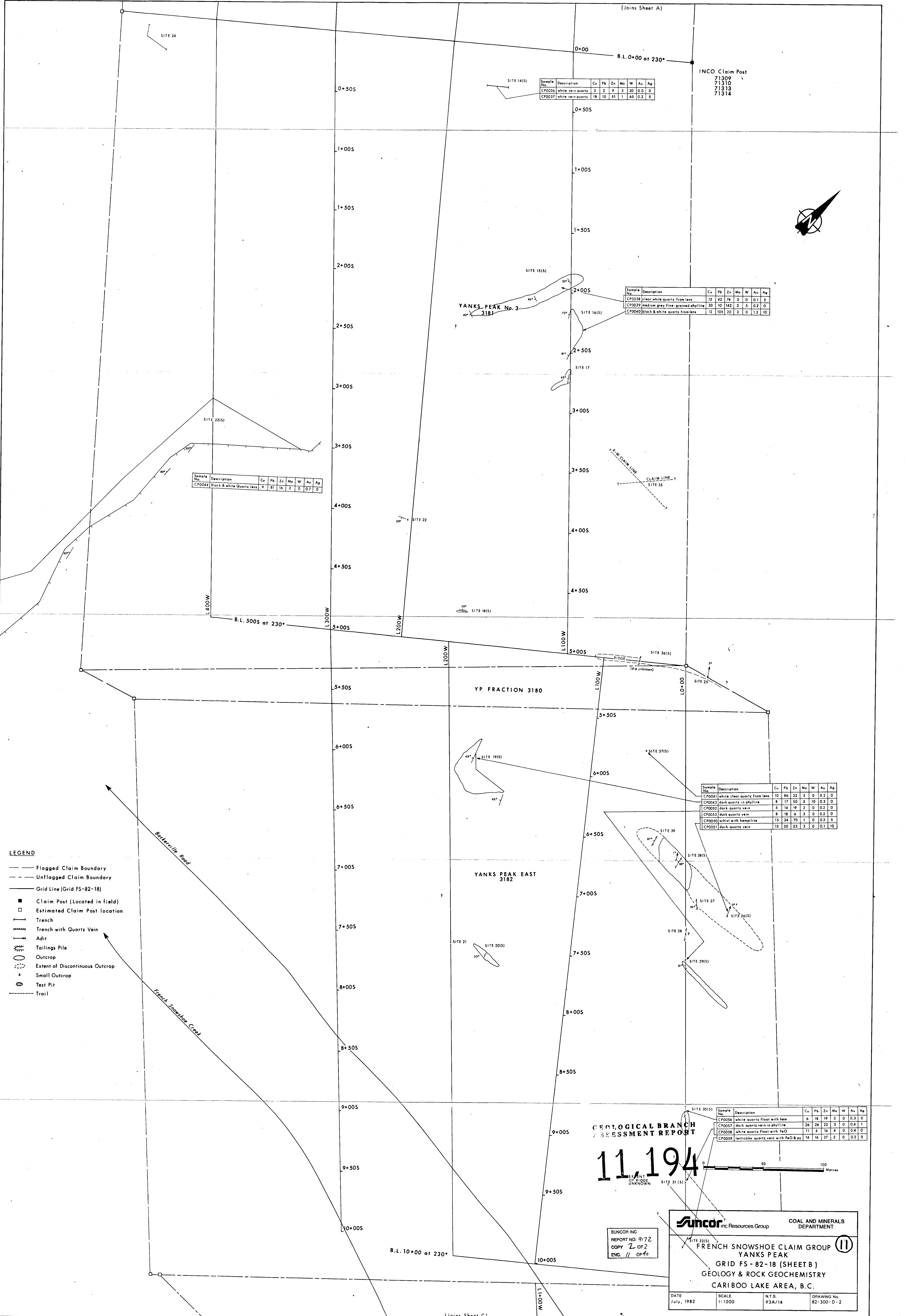
- Flagged Claim Boundary
- - - Unflagged Claim Boundary
- ~ Creek
- Geochem. Sample Location on Grid Line
- Estimated Position of Claim Post
- 14/12/78/2 - Geochemistry Results (Cu/Pb/Zn/Mo - all in ppm)
- 5/0.5/5 - Geochemistry Results (Au in ppb, Ag in ppm, W in ppm)

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GEOLOGICAL ASSESSMENT REPORT

Suncor <small>INTEGRATED MINERALS GROUP</small>		COAL AND MINERALS DEPARTMENT	
FRENCH SNOWSHOE CLAIM GROUP 10			
YANKS PEAK			
GRID FS - 82 - 18 (SHEET C)			
SOIL GEOCHEMISTRY RESULTS			
COPPER, LEAD, ZINC & MOLYBDENUM			
GOLD, SILVER & TUNGSTEN			
CARIBOO LAKE AREA, B. C.			
DATE July, 1982	SCALE 1:1000	NTS 93A/14	DRAWING No. 82-300-C-3

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Sample No.	Description	Cu	Pb	Zn	Mo	W	Au	Ag
CP0036	white vein quartz	3	2	9	3	20	0.0	0
CP0037	white vein quartz	18	10	31	1	65	0.2	5

INCO Claim Post
 71309
 71310
 71313
 71314

Sample No.	Description	Cu	Pb	Zn	Mo	W	Au	Ag
CP0038	clear white quartz from lens	12	42	74	2	0	0.1	5
CP0039	medium grey fine-grained phyllite	30	10	142	2	5	0.2	0
CP0040	black & white quartz from lens	12	105	20	3	0	1.2	10

Sample No.	Description	Cu	Pb	Zn	Mo	W	Au	Ag
CP0044	Black & white Quartz lens	9	81	10	2	0	0.7	0

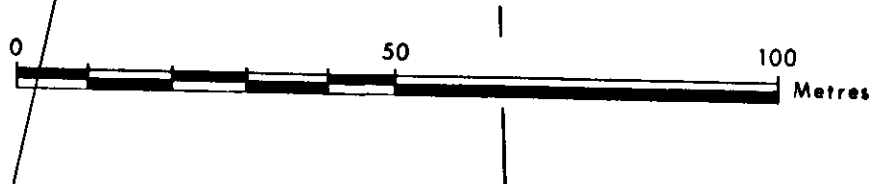
Sample No.	Description	Cu	Pb	Zn	Mo	W	Au	Ag
CP0041	white clear quartz from lens	10	86	22	3	0	0.2	0
CP0043	dark quartz in phyllite	8	17	50	2	10	0.3	0
CP0052	dark quartz vein	5	14	19	3	0	0.2	0
CP0053	dark quartz vein	8	18	6	3	0	0.2	0
CP0050	schist with hemiplite	15	24	70	1	0	0.3	5
CP0051	dark quartz vein	15	20	23	3	0	0.1	10

Sample No.	Description	Cu	Pb	Zn	Mo	W	Au	Ag
CP0056	white quartz float with hematite	6	18	19	3	0	0.3	0
CP0057	dark quartz vein in phyllite	20	26	22	3	0	0.4	1
CP0058	white quartz float with FeO	11	4	16	4	0	0.4	0
CP0059	lenticular quartz vein with FeO & py	14	19	37	2	0	0.2	0

- LEGEND**
- Flagged Claim Boundary
 - - - Unflagged Claim Boundary
 - Grid Line (Grid FS-82-18)
 - Claim Post (Located in field)
 - Estimated Claim Post location
 - Trench
 - ▨ Trench with Quartz Vein
 - Adit
 - ▨ Tailings Pile
 - Outcrop
 - Extent of Discontinuous Outcrop
 - x Small Outcrop
 - ⊙ Test Pit
 - Trail

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

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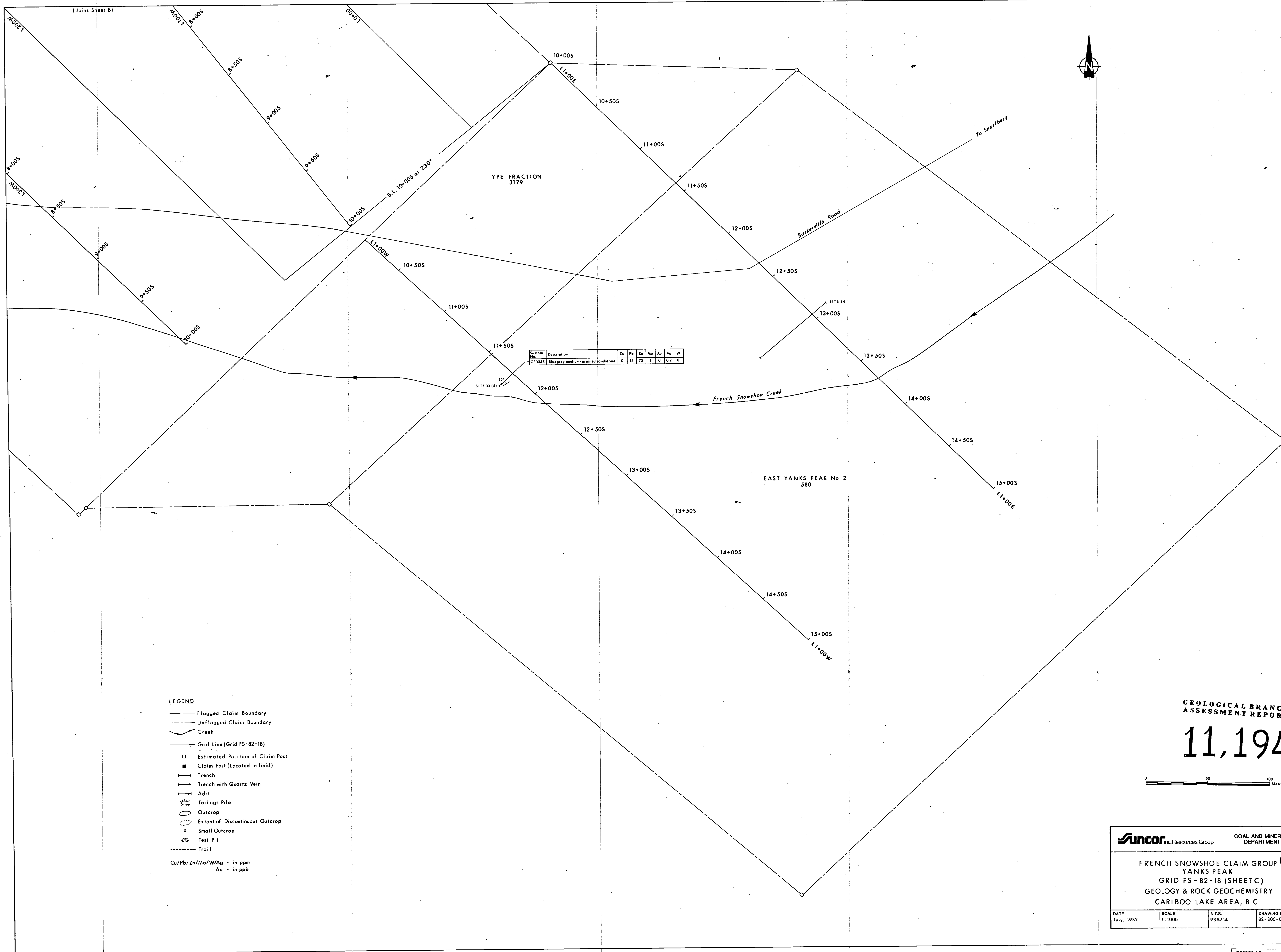


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 REPORT NO: 9172
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Suncor Inc. Resources Group COAL AND MINERALS DEPARTMENT

FRENCH SNOWSHOE CLAIM GROUP (11)
 YANKS PEAK
 GRID FS-82-18 (SHEET B)
 GEOLOGY & ROCK GEOCHEMISTRY
 CARIBOO LAKE AREA, B.C.

DATE: July, 1982 SCALE: 1:1000 N.T.S. 93A/14 DRAWING No. 82-300-D-2



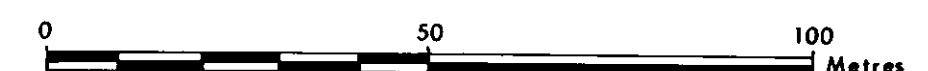
LEGEND

- Flagged Claim Boundary
- ___ Unflagged Claim Boundary
- ~~~ Creek
- Grid Line (Grid FS-82-18)
- Estimated Position of Claim Post
- Claim Post (Located in field)
- Trench
- Trench with Quartz Vein
- Adit
- Tailings Pile
- Outcrop
- Extent of Discontinuous Outcrop
- × Small Outcrop
- ⊙ Test Pit
- Trail

Cu/Pb/Zn/Mo/W/Ag - in ppm
Au - in ppb

GEOLOGICAL BRANCH
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Suncor inc. Resources Group COAL AND MINERALS DEPARTMENT

FRENCH SNOWSHOE CLAIM GROUP (12)
YANKS PEAK
GRID FS-82-18 (SHEET C)
GEOLOGY & ROCK GEOCHEMISTRY
CARIBOO LAKE AREA, B.C.

DATE July, 1982	SCALE 1:1000	N.T.S. 93A/14	DRAWING No. 82-300-D-3
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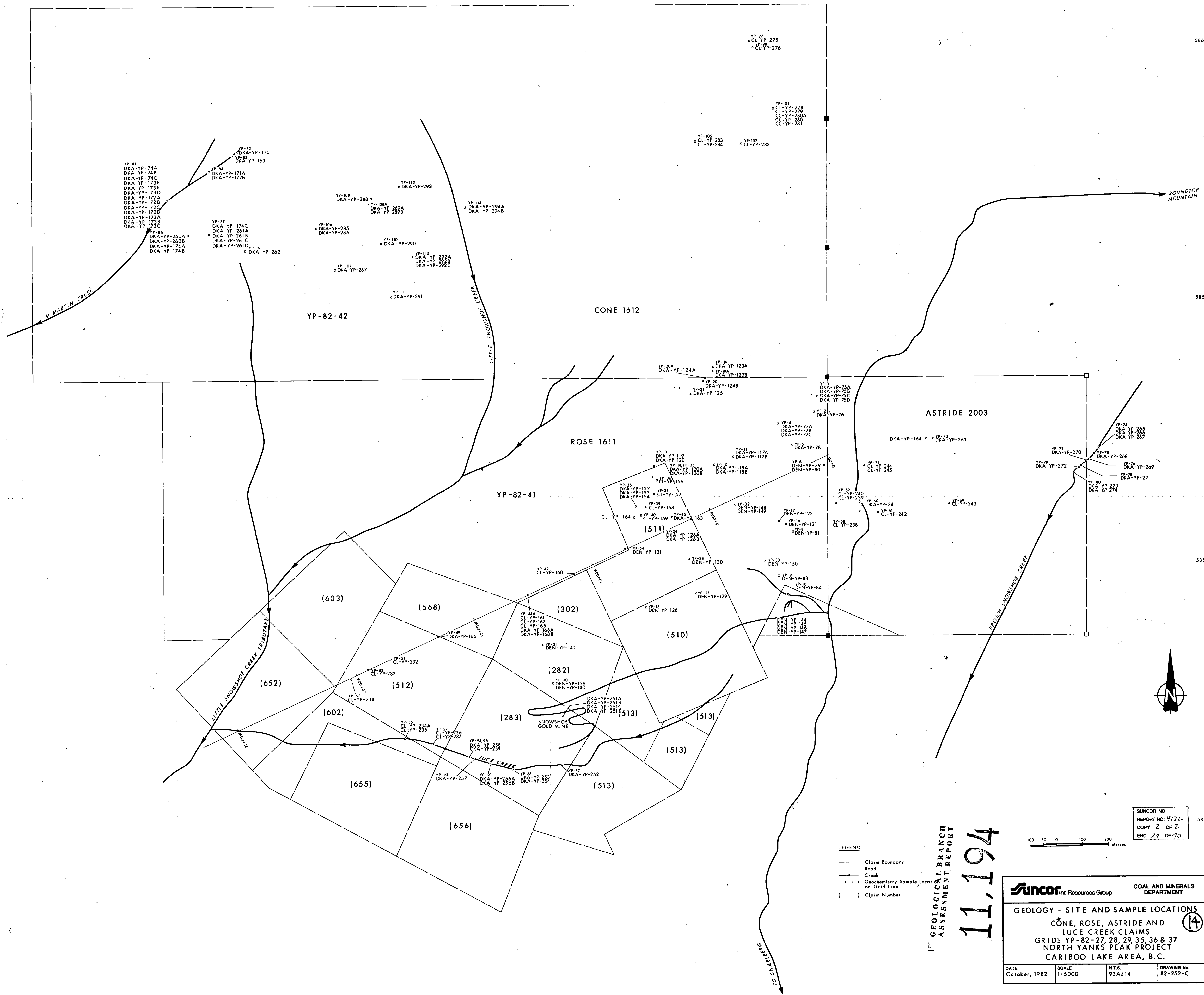
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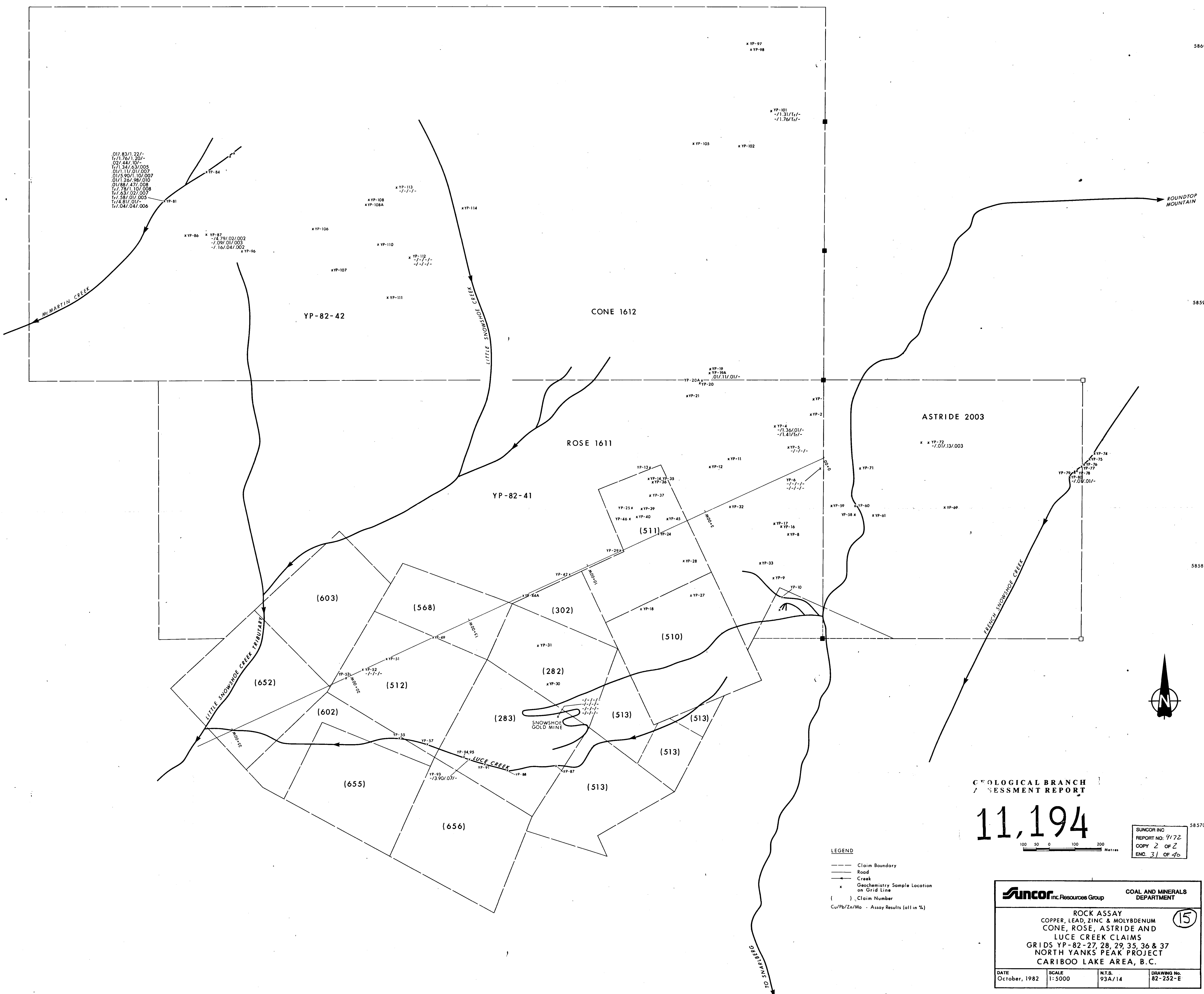


GEOLOGICAL BRANCH
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82-252-E

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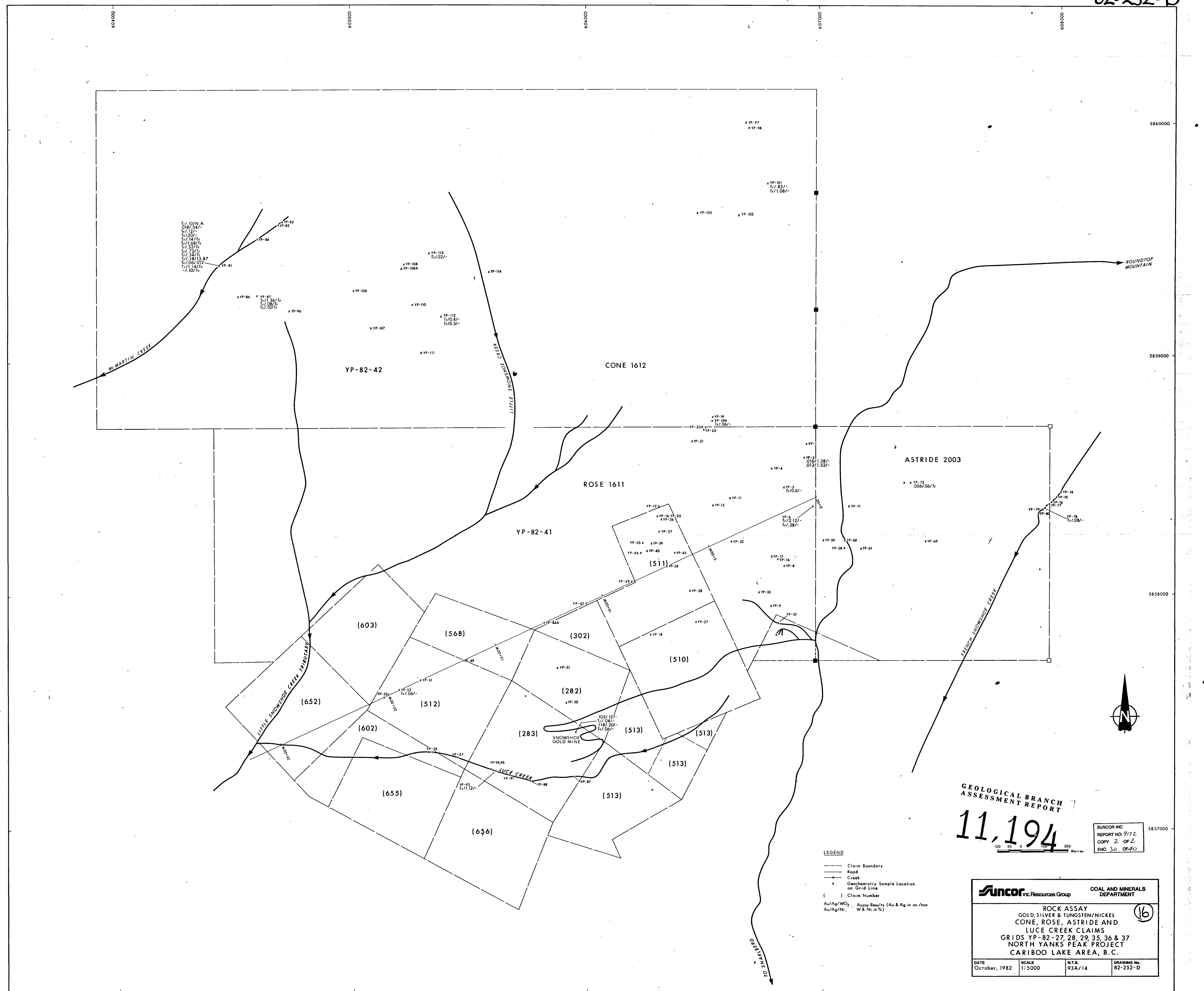


LEGEND
 --- Claim Boundary
 ——— Road
 ~~~~ Creek  
 x Geochemistry Sample Location on Grid Line  
 ( ) Claim Number  
 Cu/Pb/Zn/Mo - Assay Results (all in %)

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|                                                                                                                                                                                             |                 |                              |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|-------------------------|
| Suncor Inc. Resources Group                                                                                                                                                                 |                 | COAL AND MINERALS DEPARTMENT |                         |
| ROCK ASSAY<br>COPPER, LEAD, ZINC & MOLYBDENUM<br>CONE, ROSE, ASTRIDE AND<br>LUCE CREEK CLAIMS<br>GRIDS YP-82-27, 28, 29, 35, 36 & 37<br>NORTH YANKS PEAK PROJECT<br>CARIBOO LAKE AREA, B.C. |                 |                              |                         |
| DATE<br>October, 1982                                                                                                                                                                       | SCALE<br>1:5000 | M.T.S.<br>93A/14             | DRAWING No.<br>82-252-E |

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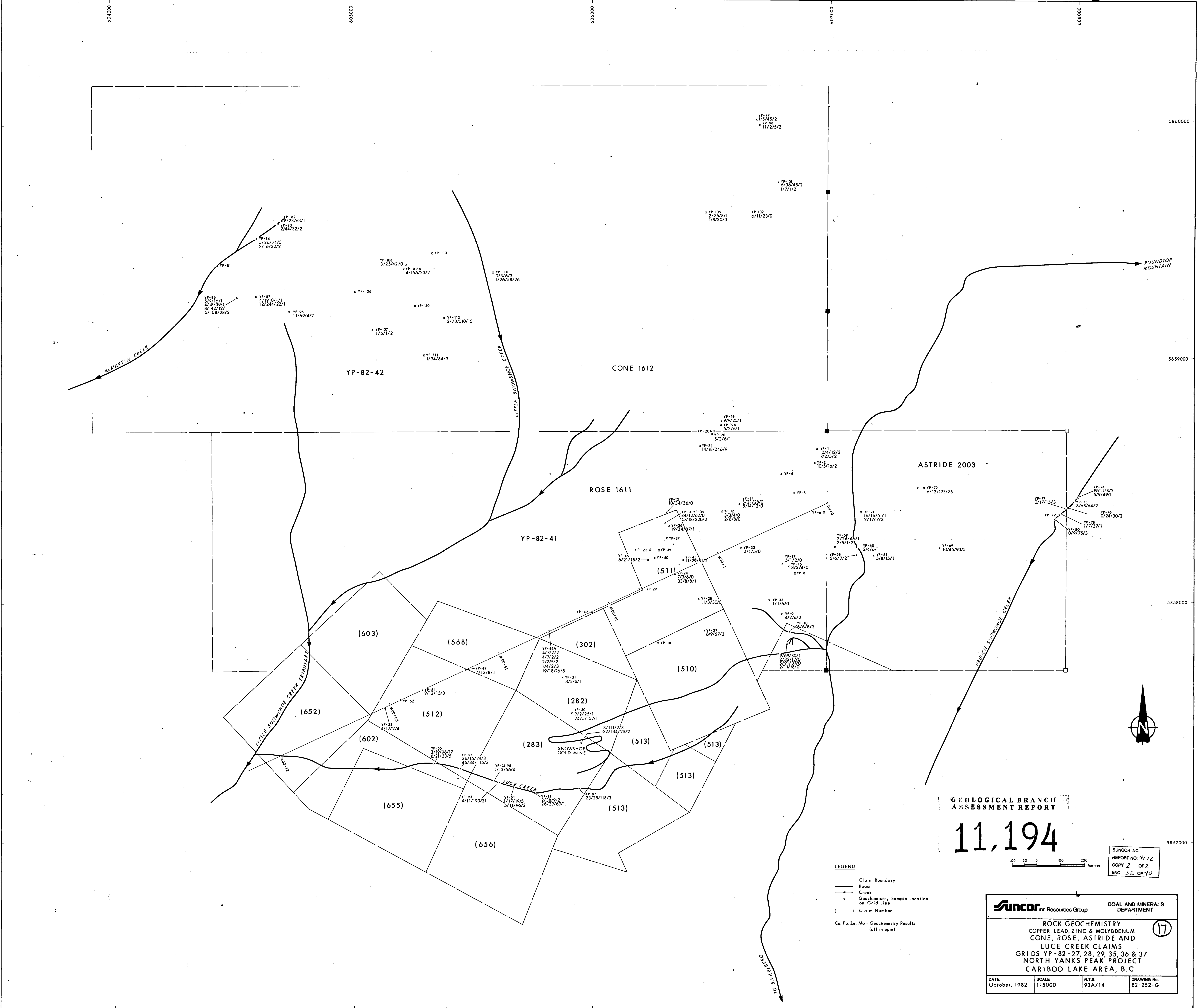
LEGEND  
 --- Claim Boundary  
 --- Road  
 --- Creek  
 x Geochemistry Sample Location on Grid Line  
 ( ) Claim Number  
 Au/Ag/WO<sub>3</sub> Assay Results (Au & Ag in oz./ton  
 Au/Ag/Ni W & Ni in %)

**Suncor** inc. Resources Group COAL AND MINERALS DEPARTMENT

ROCK ASSAY  
 GOLD, SILVER & TUNGSTEN/NICKEL  
 CONE, ROSE, ASTRIDE AND  
 LUCE CREEK CLAIMS  
 GRIDS YP-82-27, 28, 29, 35, 36 & 37  
 NORTH YANKS PEAK PROJECT  
 CARIBOO LAKE AREA, B. C.

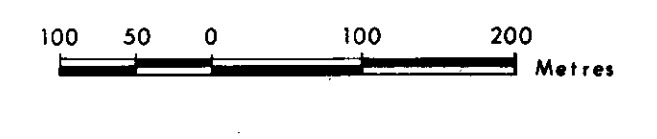
DATE: October, 1982 SCALE: 1:5000 N.T.S.: 93A/14 DRAWING No.: 82-252-D

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- LEGEND
- Claim Boundary
  - Road
  - Creek
  - x Geochemistry Sample Location on Grid Line
  - ( ) Claim Number
- Cu, Pb, Zn, Mo - Geochemistry Results (all in ppm)

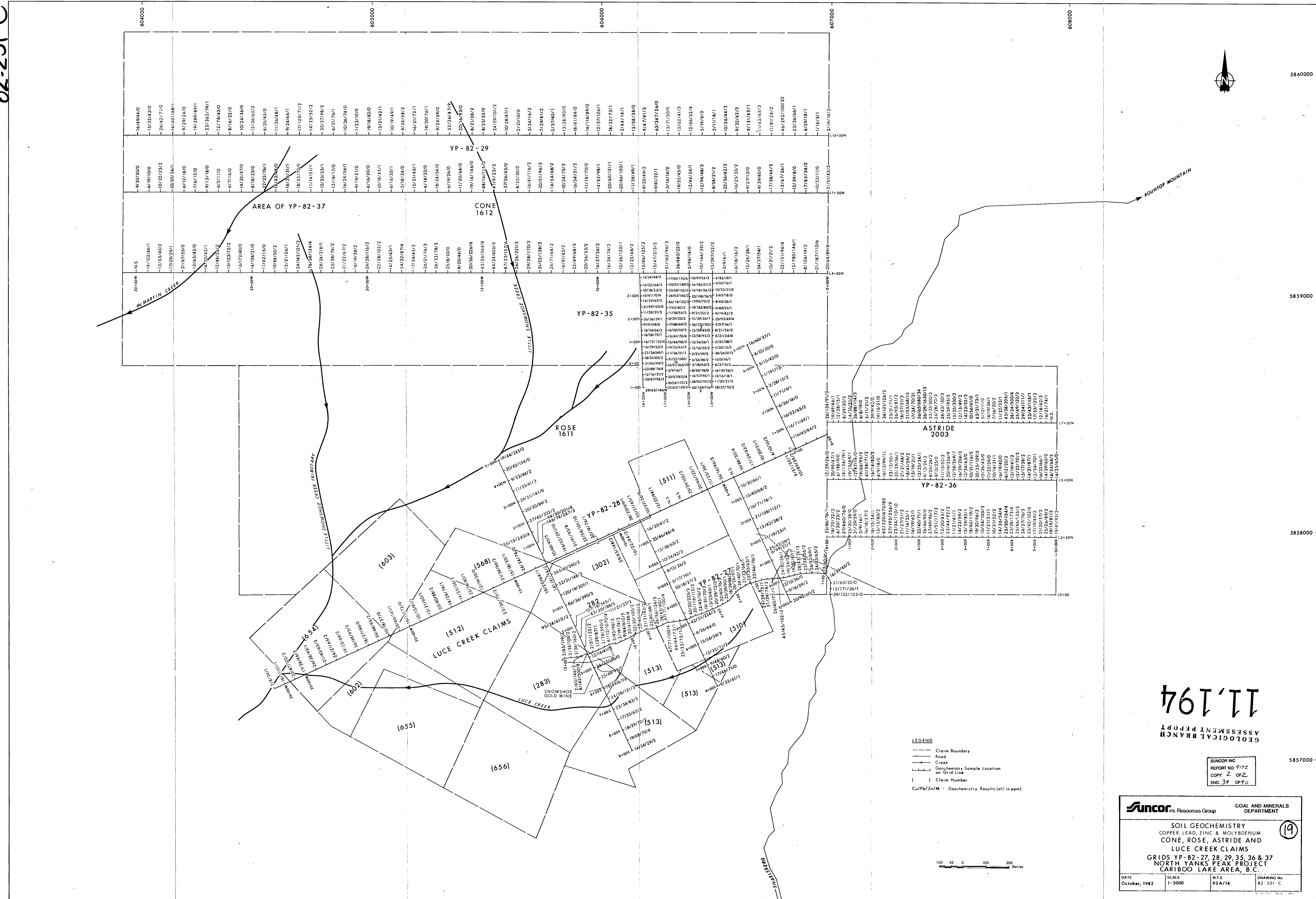
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 ENC. 32 OF 90

|                                                                                                                                                                                                    |                 |                              |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|-------------------------|
| Suncor Inc. Resources Group                                                                                                                                                                        |                 | COAL AND MINERALS DEPARTMENT |                         |
| ROCK GEOCHEMISTRY<br>COPPER, LEAD, ZINC & MOLYBDENUM<br>CONE, ROSE, ASTRIDE AND<br>LUCE CREEK CLAIMS<br>GRIDS YP-82-27, 28, 29, 35, 36 & 37<br>NORTH YANKS PEAK PROJECT<br>CARIBOO LAKE AREA, B.C. |                 |                              |                         |
| DATE<br>October, 1982                                                                                                                                                                              | SCALE<br>1:5000 | M.S.<br>93A/14               | DRAWING No.<br>82-252-G |

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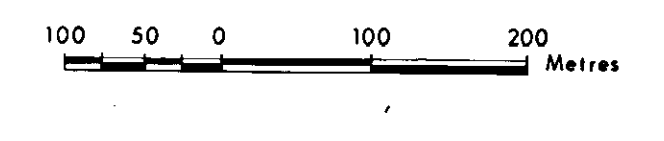




**LEGEND**

- Claim Boundary
- Road
- Creek
- Geochemistry Sample Location on Grid Line
- [ ] Claim Number

Cu/Pb/Zn/M - Geochemistry Results (all in ppm)



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**Suncor** INC. Resources Group COAL AND MINERALS DEPARTMENT

SOIL GEOCHEMISTRY  
COPPER, LEAD, ZINC & MOLYBDENUM  
CONC, ROSE, ASTRIDE AND  
LUCE CREEK CLAIMS

GRIDS YP-82-27, 28, 29, 35, 36 & 37  
NORTH YANKS PEAK PROJECT  
CARIBOO LAKE AREA, B.C.

DATE: October, 1982 SCALE: 1:5000 N.T.S.: 93A/14 DRAWING NO.: 82-231-C

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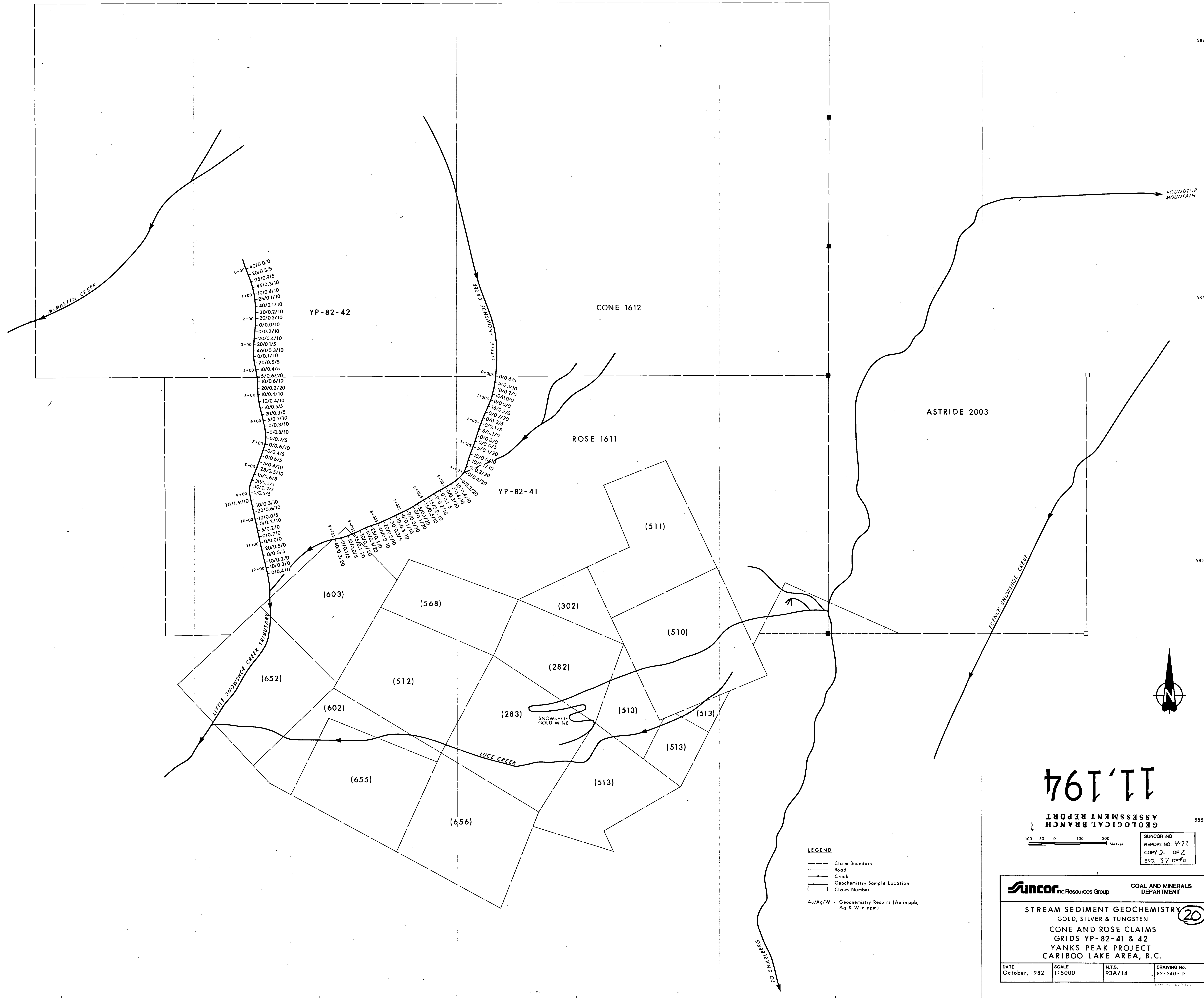
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IRON MAIDEN®  
U.S.A. DESIGN PATENT 4159248 1975  
CANADIAN PATENT 1285252 1979

IRON MAIDEN® SYSTEMS LTD. CALGARY, ALBERTA, CANADA



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100 50 0 100 200 Metres

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**Suncor** Inc. Resources Group COAL AND MINERALS DEPARTMENT

**STREAM SEDIMENT GEOCHEMISTRY** (20)  
GOLD, SILVER & TUNGSTEN  
CONE AND ROSE CLAIMS  
GRIDS YP-82-41 & 42  
YANKS PEAK PROJECT  
CARIBOO LAKE AREA, B.C.

|                       |                 |                  |                         |
|-----------------------|-----------------|------------------|-------------------------|
| DATE<br>October, 1982 | SCALE<br>1:5000 | N.T.S.<br>93A/14 | DRAWING No.<br>82-240-D |
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**Suncor** Inc. Resources Group  
COAL AND MINERALS DEPARTMENT

**SOIL GEOCHEMISTRY**  
GOLD, SILVER & TUNGSTEN  
CONE, ROSE, ASTRIDE AND  
LUCE CREEK CLAIMS  
GRIDS YP-82-27, 28, 29, 35, 36 & 37  
NORTH YANKS PEAK PROJECT  
CARIBOO LAKE AREA, B.C.

DATE: October, 1982  
SCALE: 1:5000  
NET: 93A/14  
DRAWING NO.: 82-231-D

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U. S. A. DESIGN PATENT 4139248 1979  
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 CANADIAN PATENT 1065729 1979

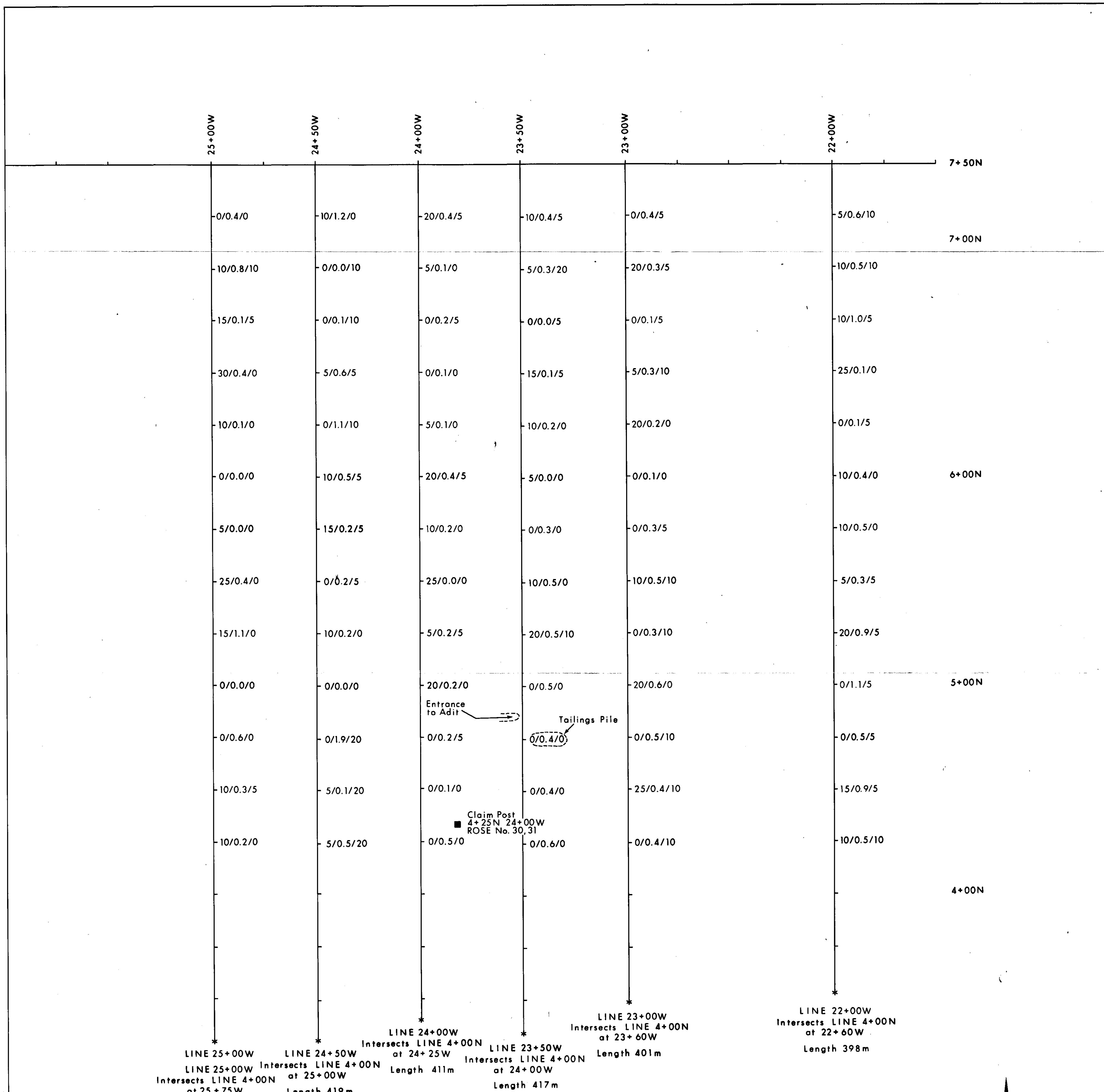
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IRON MAIDEN SYSTEMS LTD. CALGARY, ALBERTA, CANADA

82-230-D

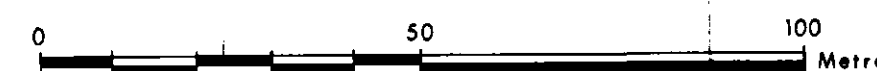
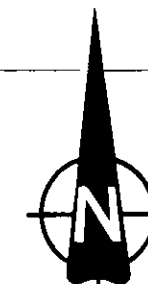


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LEGEND

Au/Ag/W - Soil Geochemistry Results  
 (Gold & Silver in ppb,  
 Tungsten in ppm)

Suncor inc. Resources Group

COAL AND MINERALS  
 DEPARTMENT

SOIL GEOCHEMISTRY  
 GOLD, SILVER & TUNGSTEN  
 CONE CLAIM  
 GRID YP-82-37  
 YANKS PEAK PROJECT  
 CARIBOO LAKE AREA, B.C.

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|                      |                 |                 |                         |
|----------------------|-----------------|-----------------|-------------------------|
| DATE<br>August, 1982 | SCALE<br>1:1000 | N.T.S.<br>93A/4 | DRAWING No.<br>82-230-D |
|----------------------|-----------------|-----------------|-------------------------|



IRON MAIDEN®  
 U. S. A. DESIGN PATENT 4139248 1979  
 C-NADIAN IND. DESIGN REG. NO. 42524  
 CANADIAN PATENT 1065729 1979

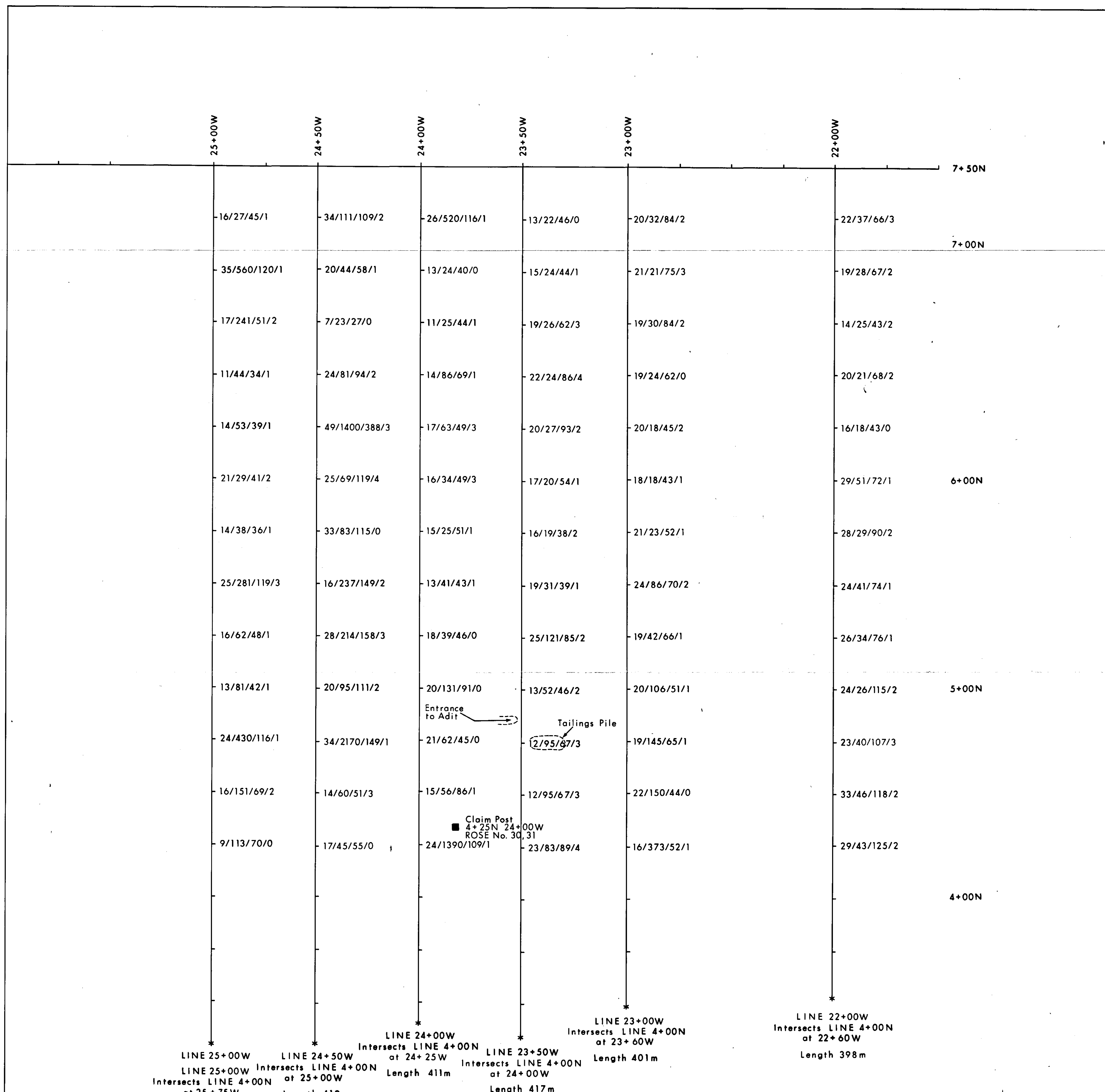
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IRON MAIDEN® SYSTEMS LTD. CALGARY, ALBERTA, CANADA

82-230-C

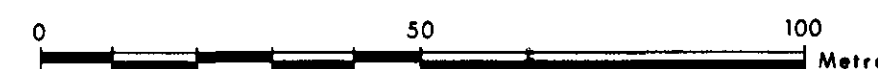


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LOGICAL BRANCH  
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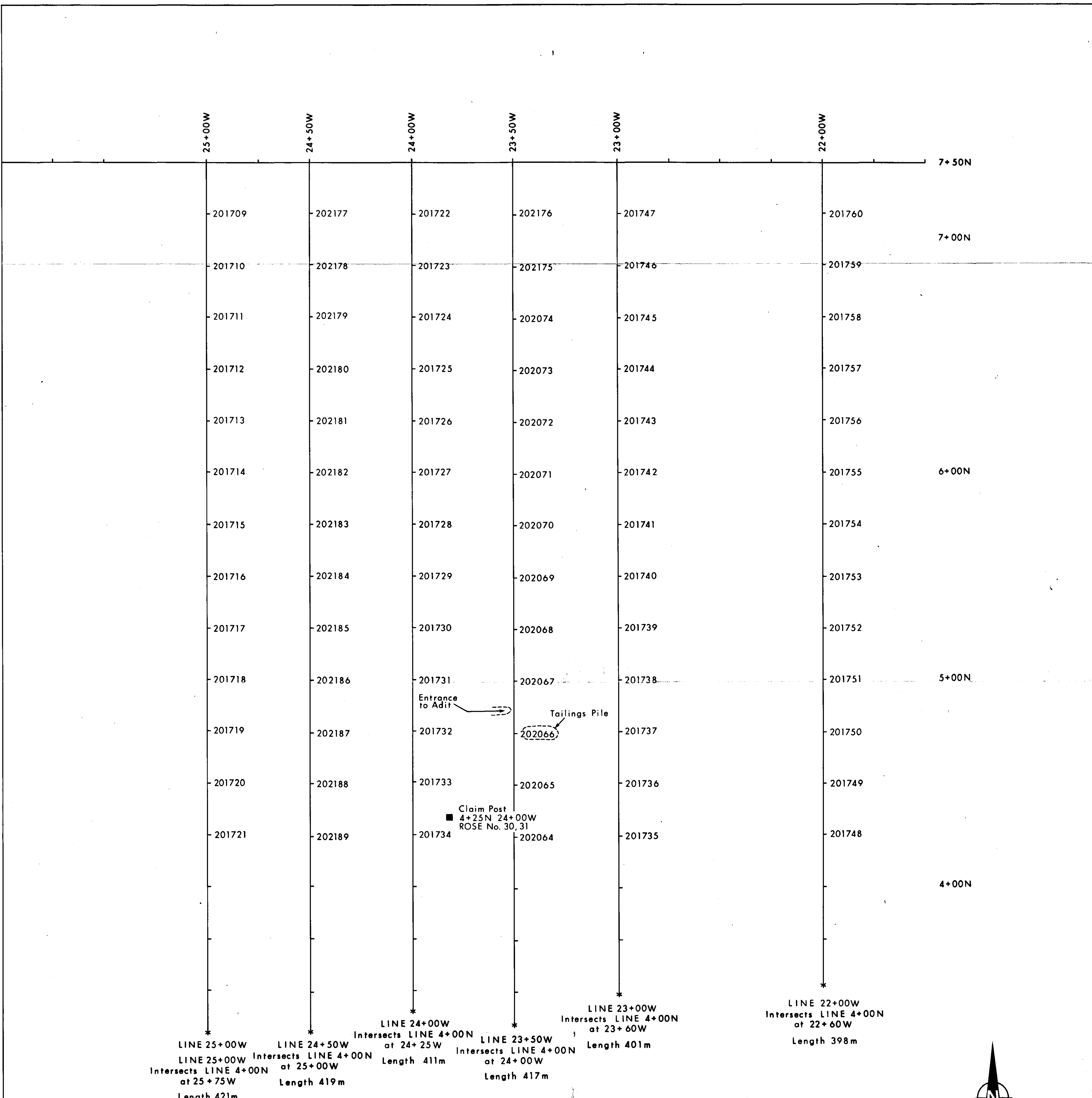
LEGEND

Cu/Pb/Zn/M - Soil Geochemistry  
 Results (all in ppm)

|                                    |                 |                              |                         |
|------------------------------------|-----------------|------------------------------|-------------------------|
| <b>Suncor</b> Inc. Resources Group |                 | COAL AND MINERALS DEPARTMENT |                         |
| SOIL GEOCHEMISTRY                  |                 |                              |                         |
| COPPER, LEAD, ZINC AND MOLYBDENUM  |                 |                              |                         |
| CONE CLAIM                         |                 |                              |                         |
| GRID YP-82-37                      |                 |                              |                         |
| YANKS PEAK PROJECT                 |                 |                              |                         |
| CARIBOO LAKE AREA, B.C.            |                 |                              |                         |
| DATE<br>August, 1982               | SCALE<br>1:1000 | N.T.S.<br>93A/4              | DRAWING No.<br>82-230-C |

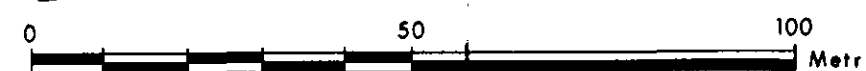
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|                                    |                 |                              |                         |
|------------------------------------|-----------------|------------------------------|-------------------------|
| <b>Suncor</b> inc. Resources Group |                 | COAL AND MINERALS DEPARTMENT |                         |
| SOIL GEOCHEMISTRY                  |                 | (25)                         |                         |
| SAMPLE LOCATIONS                   |                 |                              |                         |
| CONE CLAIM                         |                 |                              |                         |
| GRID YP-82-37                      |                 |                              |                         |
| YANKS PEAK PROJECT                 |                 |                              |                         |
| CARIBOO LAKE AREA, B.C.            |                 |                              |                         |
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