82-#941-#11194

1982 EXPLORATION ACTIVITIES AT YANKS PEAK CARIBOO LAKE AREA

JUNE - AUGUST 1982

BY: Paul A. Hawkins, 1982

November 1982

Suncor Report #9172

GEOLOGICAL , GEOCHEMICAL

1982 EXPLORATION ACTIVITIES AT YANKS PEAK

CARIBOO LAKE AREA B.C.

JUNE - AUGUST 1982

This report covers the following Mineral Claims held by Suncor Inc.;

282	Old Timer	565	Yanks Peak #2	656	Old Faithful
283	Jane	568	Bertha	1612	Cone
510	Junior	574	Yanks Peak	1611	Rose
511	Little Robert	580	East Yanks Peak #2	2003	Astride
512	Indian Broom	602	Betty	3179	YPE Fraction
513	Bella Coola	602	Betty Fraction	3180	YP Fraction
513	Frill Fraction	603	Janes Extension #1	3181	Yanks Peak #3
513	Tri Fraction	654	Janes Extension #2	3182	Yanks Peak East
513	Junior Extension	655	Junior Fraction		

on N.T.S. Sheet 93A/14W

Centred on 52° 51' 30°N 121°25'30" W

in the Cariboo Mining Division

By: Paul A. Hawkins, P.Eng.
Calgary, Alberta
November 26, 1982

Suncor Report #9172

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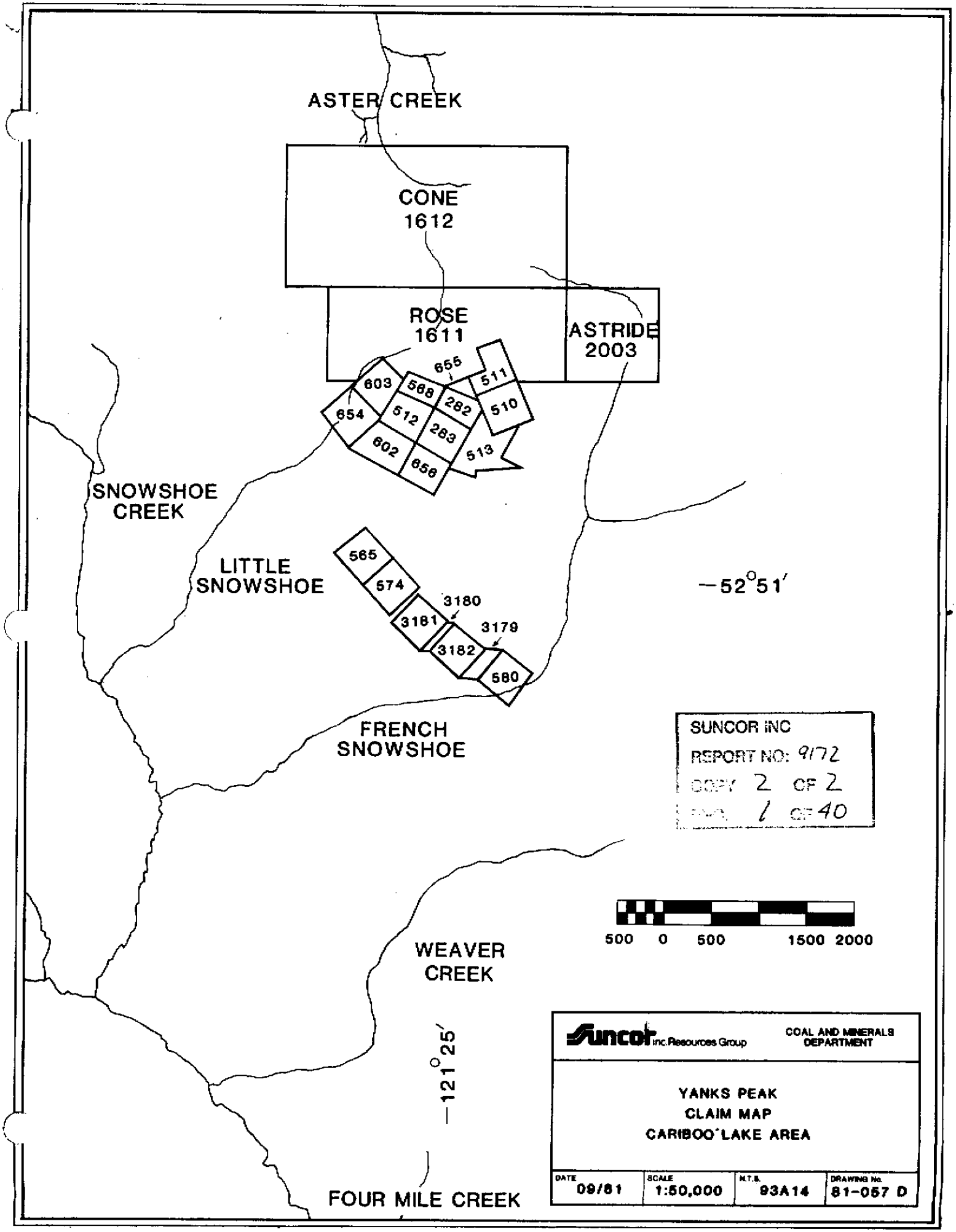
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ROSE
1611
ASTRIDE
2003
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603
568
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SNOWSHOE
CREEK
LITTLE
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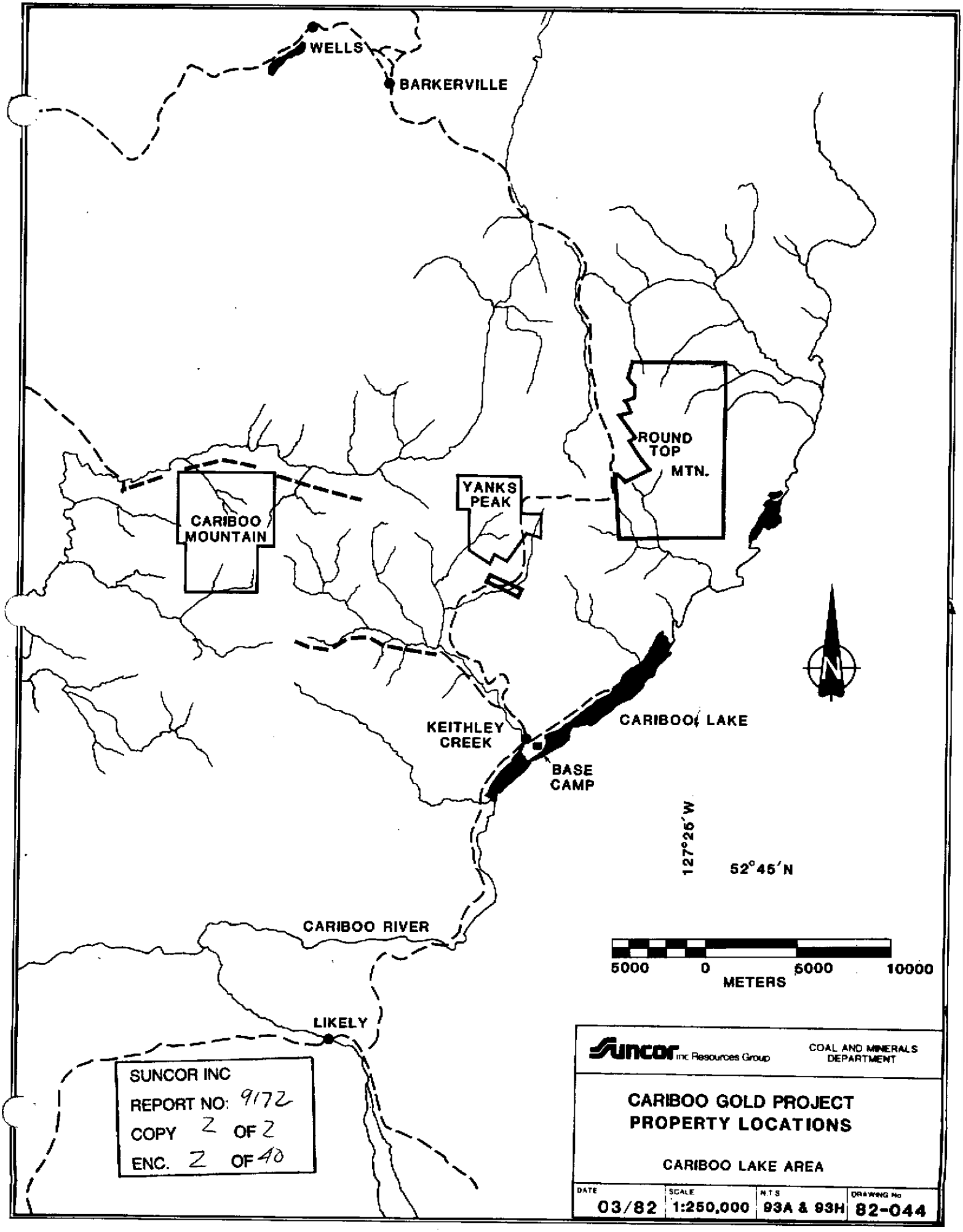
Suncor Inc. Resources Group
COAL AND MINERALS
DEPARTMENT
YANKS PEAK
CLAIM MAP
CARIBOO LAKE AREA
DATE 09/81
SCALE 1:50,000
N.T.S. 93A14
DRAWING No. 81-057 D



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Suncor Inc Resources Group — COAL AND MINERALS DEPARTMENT

CARIBOO GOLD PROJECT
PROPERTY LOCATIONS

CARIBOO LAKE AREA

DATE	SCALE	N.T.S	DRAWING No
03/82	1:250,000	93A & 93H	82-044

1.0 INTRODUCTION

A program of geological mapping and geochemical sampling was undertaken during the 1982 field season on mineral claims located near Yanks Peak in the Cariboo Mining Division. A 5-6 men crew was on site between June 1st to August 31st. A total of 1387 geochemical samples were collected in the Yanks Peak area. Only part of the work covered in this report is being applied as assessment work on the claims. An expenditure statement and manday summary is presented in the Appendix.

The two claim groups making up Suncor Inc. Yanks Peak project are located 15 km north of Keithly Creek. The two claim groups are the French Snowshoe Group and the Little Snowshoe Group. This project is one of three currently operated by Suncor in the area as shown on the Cariboo Gold Project Property Locations Map 81-044. The other two projects are covered under separate reports. Work was carried out on all three properties by the same crew. Exploration costs were therefore prorated between projects based on field mandays.

The claims making up the Yanks Peak Property are shown on Drawing 81-057D.

Work was carried out on the Astride (2003) mineral claim which is part of the Little Snowshoe Group has already been covered in Suncor Report #9154 (Hawkins, P.A., Armstrong, D. K., Lawerence, C., 1982) and will not be covered again.

1.1 LOCATION AND ACCESS

The property is located at Yanks Peak in the Cariboo Mining Division on N.T.S. Map Sheet 93A/14. The claims making up the Yanks Peak project are shown on Drawing 81-057D and are listed individually in the Claim Listing in the Appendix.

The property can be accessed by a good all-weather road from Williams Lake, via Likely, to Keithley Creek, then north on an old forestry road, which progressively worsens to a rugged 4-wheel drive trail. It is approximately a 1-1/2 hour drive from Keithley Creek to the property.

During 1982, Suncor based its field crews out of a camp at Keithley Creek. Supplies and limited helicopter support were obtained out of Williams Lake, B.C.

1.2 PHYSIOGRAPHY

The property lies adjacent to Yanks Peak, which reaches an elevation of 1900 metres. French Snowshoe and Little Snowshoe Creeks have their head waters located within the claim groups. Several adjacent areas are currently being logged, and the development of improved access roads in the area is a direct result of this activity.

Topography in the area is moderately rugged. The property is almost completely forested with many of the old workings are now completely overgrown. The tree line in the area is usually about the 1800 metre level. In the northern part of the Little Snowshoe Group the vegetation is mostly sub-alpine meadow with the occassional bog. This grades to the south into dense coniferous forest in the valley bottom and slopes off the claim group to the south.

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 Pliestocene, 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.

1.3 PROPERTY HISTORY

Suncor Inc. acquired the property from Zelon Enterprises Ltd. under an option agreement early in 1981. The two claim groups which now make up the property total 1181.5 hectares. During the 1981 field season a three man Suncor crew carried out a limited geochemical and geological exploration program on the property (Hawkins, P. A., 1981).

The Cariboo district, as a whole, has had a long history of placer and lode gold epxloration and mining. There are a number of old underground workings and gold occurrences reported in the Yanks Peak area (Holland, S. S., 1954) and placer operations have been active on most of the creeks around Yanks Peak since the 1860's. Current placer mining operations can be found on Keithley, Little Snowshoe, and French Snowshoe Creeks.

1.4 1982 PROGRAM OUTLINE

Field work carried out during the summer of 1982 on the Yanks Peak property consisted of limited detailed geological mapping, rock sampling and soil sampling. The 1982 program was designed to follow-up on the results of the 1981 program and to provide more detailed data in interesting areas. Due to time constraints no geophysical surveys were run by the crew.

A 5-6 man crew was based out of Keithley Creek to carry out the program. A total of 1387 samples were collected for analysis.

2.0 GENERAL GEOLOGY

There has been some recent controversy surrounding the geology of the Cariboo District; primarily concerned with re-interpreted age relationship. L. C. Struik has interpreted all the lithologies west of the Pleasant Valley Fault in this area, as either Hadrynian (correlative with the Kaza Group) or Devoniona-Mississippian (Struik L, C., 1981). This strata was previously interpreted (Holland S. S., 1954; Brown A. S., 1963) as belonging to the Cariboo Group, and being Hadrynian to Cambrian in age. This discrepancy, still unresolved, exemplifies the complexity of the geology and structure in the Cariboo area. The general geology of the area covered by Suncor's Cariboo Gold Project will now be discussed, using "pre-Struik" terminology.

Suncor's Cairboo Gold Project is situated within the Lightning Creek Anticlinorium, in the Cariboo Mountains of south central British Columbia. The anticlinorium is made up of a belt of Proterozoic to Cambrian Kaza and Cariboo Group rocks, which are overlain by a sequence of unmetamorphosed volcanic and sedimentary rocks of the Slide Mountain Group. The belt trends NE-SW and is 25 km wide by 150 km long. The predominant lithologies on Suncor's Cariboo Properties belong to Holland's (1954) Cariboo group.

Lithologically, the Kaza Group rocks are schistose clastic sediments to a gritty feldspathic micaceous quartzite, which have been regionally metamorphosed to the greenschist facies (Brown, A. S., 1965). To the north east, the Kaza Group rocks are overlain by the Cariboo Group rocks which consist principally of phyllites, micaceous quartzites, marble, and some limestone. The formations are intensely folded and locally highly altered due to hydrothermal activity. No rocks of the Slide Mountain Group occur in the property area.

A table of formations (Modified after Campbell et al, 1973; Brown, A. S., 1963) is provided.

TABLE OF FORMATIONS

CARIBOO LAKE AREA

ERA	GROUP	FORMATION	LITHOLOGY	THICKNESS
Mesozoic	?	Little River Stock	Porphyritic granoldiorite to quartz monzonite	--
	Slide Mountain Group	Antler Formation	Pillow basalt, breccia, chert argillite, diabase and gabbro sills	3600+
		Greenberry Formation	Limestone	
		Guyet Formation	Grey to brown conglomerate, limestone, basic volcanic rocks	1125-1500
		PROSERDINE DIKES	FELSITE DIKES	
PALEOZOIC		Dome Creek Formation	Shale, siltstone argillite?	
		Mural Formation	Limestone dolomite	
		Snowshoe Formation	Grey to brown micaceous quartzite phyllite, impure limestone	1000+
		Midas Formation	Grey to black quartzite siltstone argillaceous schist and slate black fine grained quartzite, gritty to pebble conglomerate, rare limestone	1000+
		Yanks Peak Formation	Grey to white, dense, fine grained silicified quartzite, gritty to pebble conglomerate, rare lime stone	0-1200
	Cariboo Group			
---		Yankee Belle Formation	Light grey to brown phyllite with interbedded quartzite chlorite schist, metasiltstone	1000-2500
		Cunningham Formation	Fine grained grey to black limestone	1500-3000
PROTEROZOIC		Issac Formation	Grey phyllite and calcareous phyllite and limestone	1000-2000
	Kaza Group		Gritty feldspathic micaceous quartzites and green schists	+12,000
	?		Augen gneiss, gneissic granodiorite diorite	

2.1 PROPERTY 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 property 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 phyillite to a chlorite schist. The Yanks Peak Formation is a grey to white quartzite. The Midas Formation is a black silty quartzite to an argillaceious schist to a carbonaceous or graphitic limestone. The Snowshoe Formation which is a quartzite or conglomerate with a upper unit that is more of a limestone to 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 in Drawing 82-252B.

The regional stirke is approximately 330°, although a more detailed study reveals local variation which undoubtedly would help to unravel the complex structure. Ground preparation for mineralization is good with abundant jointing, related quartz veining and a possible major fault (Struik, L. C. 1981).

2.2 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 area (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.

2.3 GEOLOGICAL MAPPING AND PROSPECTING

A program of geological mapping and prospecting was undertaken in conjunction with geochemical sampling. Mapping in the past had been carried out by the G.S.C. and B.C. Department of Mines (Holland, S. S., 1954; Bown, A. S., 1963) covered the Yanks Peak area in good detail. Suncor mapping consisted largely of taking down structural data, as presented on Drawing 82-252C. Another factor was the location and mapping of all old trenches. Most quartz veins on the property have been previously trenched and an attempt was made to sample as many as possible in 1982.

The main aim of this part of the program was to prepare good base information to assess the amount of previous work. Prospecting yielded no new showing and no underground mapping was attempted.

3.0 GEOCHEMISTRY

The geochemistry program at Yanks Peak consisted of stream sediment sampling, soil sampling and rock sampling for both rock geochemistry and assaying. The numbers of each sample type taken are provided in Table 3.1. A total of 1387 samples were sent for analysis a number of other samples were retained for further study. This total also includes samples taken in adjacent areas.

Soil sampling was carried out over a number of traverse lines which were run by pace and compass methods to follow-up 1981 anomalous areas. Samples were collected every 25 metres. The "B" horizon was selected where present at a depth of 4-10 cm. Stream sediment samples were collected on two tributaries of Little Snowshoe Creek every 50 metres. The preferred stream sediment sample media was fine sediment low in organics.

TABLE 3.1

Sample Types Collected
Yanks Peak Project

Stream Sediments	89
Soil Samples	1129
Rock Samples (Geochem)	137
(Assay)	32
TOTAL	1387

3.1 SAMPLE AND DATA HANDLING

Soil samples were collected in 4" X 10" kraft water-proof paper sample bags and air dried before shipment.

All samples from the Cariboo Mountain project were sent to Vangeochem Labs Ltd., 1521 Pemberton Avenue, North Vancouver, B.C.

All rock samples for assay were sent to Loring Laboratories Ltd., 629 Beaverdam Road, Calgary, Alberta. Standard assay procedures were used.

Field data was recorded on Suncor's "Geochemical Sample Record" forms, while Vangeochem reported their results on Suncor's "Geochemical Labratory Report" forms.

3.2 ANALYTICAL METHODS

Geochemical analysis was carried out by Vangeochem Labs Ltd., while assaying was carried out by Loring Laboratories using standard assay procedures. The following is a discussion of the Vangeochem analytical procedures.

Cu Pb Zn Ag Mo Geochemical Analysis

The analytical procedure used to determine hot acid soluble Cu, Pb, Zn, Ag and Mo in soil stream sediments and rock samples is outlined below:

Sample Preparation

(a) Geochemical soil, stream sediment or rock samples were received in the laboratory in wet-strength 3 1/2 x 6 1/2 Kraft paper bags and rock samples in 4" x 6" Kraft paper bags.

(b) The west samples were dried in a ventilated oven.

(c) The dried soil and stream sediment samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

(d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

Methods of Digestion

(a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.

(b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

(c) The digested samples were diluted with de-mineralized water to a fixed volume and shaken.

Method of Analysis

Cu, Pb, Zn, Ag and Mo analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene flame, but Mo digestion were aspirated into an acetylene and nitrous flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit and displayed in a strip chart recorder.

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staff of Vangeochem Lab Ltd.

Tungsten

The analytical procedure used to determine trace tungsten in geochemical samples by fusion is outlined below:

Sample Preparation

(a) Geochemical soil, stream sediments and rock samples were received in the laboratory in high wet-strength 4" X 6" kraft paper bags or rock samples in 8" X 10" plastic bags.

(b) The wet samples were dried in a ventilated oven.

(c) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

(d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

Method of Dissolution by Fusion

(a) 0.50 gram of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance.

(b) Two grams of flux ($NaCO_3$ and NaCl) were mixed with each sample and the samples were fused over a muffled furnace in high temperature.

Method of Analysis

(a) The fused samples were then dissolved in de-mineralized water by heating in a hot water bath.

(b) A fixed volume was subsequently adjsuted.

(c) An aliquot from each sample for tungsten analysis is developed in a strongly acid (HCl) solution of stannous chloride using a thiocyanate as the complexing agent.

(d) The tungsten-thiocyanate complex was extracted into 1/2 ml of a carbon tetrachloride and tri-n-butyl phosphate solvent mixture.

(e) The concentration of tungsten was calculated colorimetrically by comparing the intensity of its color organic layer with a set of known standards prepared in a similar fusion as the samples.

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staff of Vangeochem Lab Ltd.

Gold

The analytical procedure used to determine Aqua Regia soluble gold in samples is outlined below:

Method of Sample Preparation

(a) Geochemical soil, stream sediments or rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.

(b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

(c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

Method of Digestion

(a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.

(b) 20 ml of Aqua Regia (3:1 $HCl:HNO_3$) were used to digest the samples over a hot plate vigorously.

(c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.

(d) The Au comples ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

(e) Separate funnels were used to separate the organic layer.

Method of Detection

The gold analyses were detected by using a Techtron Model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

The analyses was supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

3.3 SOIL GEOCHEMISTRY

A total of 1129 soil samples were collected on the Yanks Peak property in 1982. No large significant anomalies are present however, a number of large to small weak anomalies are present.

Background range data for soils is provided in Table 3.1. A complete data list is provided in the Appendix.

Soil sampling was carried out on the French Snowshoe group as a whole using flagging tape grid (FS-82-18) on lines 100 metres apart with samples every 25 metres. Results are shown on three map sheets. Sheet A, 82-300C-1, Sheet B, 82-300C-2 and Sheet C, 82-300C-3. In an area of specific interest, small mini-grids were set up with a 25 metre square sampling interval. These mini-grids are located on French Snowshoe Index Map (Drawing 82-298). These mini-grids are Fs-82-17, FS-82-20, FS-82-21, FS-82-25 and FS-82-26. Drawing numbers are present in the List of Maps.

On the Little Snowshoe Group, soil sampling was carried out on flagged lines, along existing trails. Generally, sampling was carried out every 25 metres. Certain areas received higher density sampling than others due to last year's results. Data for Cu Pb Zn and Mo is presented on Drawing 82-231C and for Au Ag and W on Drawing 82-231D.

TABLE 3.2

SOIL GEOCHEMISTRY BACKGROUND LEVELS

ELEMENT	UNIT	ARITHMETIC MEAN	GEOMETRIC MEAN	BACKGROUND RANGE
Cu	ppm	25.1	19.4	1 - 62
Pb	ppm	53.9	31.7	3 - 122
Zn	ppm	95.8	68.0	3 - 240
Mo	ppm	2.3	1.8	0 - 5
Au	ppb	19.9	12.6	0 - 50
Ag	ppm	.55	.37	0.0 - 1.6
W	ppm	7.9	6.9	0 - 20

3.4 STREAM SEDIMENT GEOCHEMISTRY

Two tributaries of Little Snowshoe Creek were sampled every 25 metres. Results are shown on Drawing 82-240C and 82-240D. On the western tributary an anomaly high in Pb-Zn-Au-Ag exists. Values of lead reach up to 348 ppm over a background range of 10-221 ppm. Zinc also reaches up to 2260 ppm, while gold and silver reach 460 ppb and 0.9 ppm. Soil sampling in this area does not show similiar anomalous levels.

Several other isolated highs occur in single sample sites but do not appear to be significant. Background levels for the area are provided in Table 3.3

TABLE 3.3

STREAM SEDIMENT BACKGROUND BACKGROUND LEVELS

ELEMENT	UNIT	ARITHMETIC MEAN	GEOMETRIC MEAN	BACKGROUND RANGE
Cu	ppm	82.0	55.4	5 - 244
Pb	ppm	74.2	57.0	10 - 221
Zn	ppm	327.0	202.0	0 - 1390
Mo	ppm	2.7	2.4	0 - 5
Au	ppb	21.9	12.8	0 - 45
Ag	ppm	.36	.28	0.0 - .8
W	ppm	9.8	8.4	0 - 20

3.5 ROCK GEOCHEMISTRY

Rock samples were collected from most outcrops. All samples were not, however, analysed. A total of 137 rocks received geochemical analysis and 32 rocks were assayed for specific elements. Rock geochemistry background ranges are presented on Table 3.4.

Rock samples collected from the French Snowshoe Group yielded disappointing results. No anomalous levels of gold or silver were detected at all form this year's sampling. Results are present on Drawing 82-300D-1, 82-300D-2 and 82-300D-3.

Rock samples collected from the Little Snowshoe Group showed interesting levels of gold, silver, lead and tungsten. Several good gold geochems were obtained from samples collected at the Jim Adit dump of 300 and 350 ppb gold.

Another good gold value of 300 ppb was obtained north of the Junior Fraction (655). In this same area, good soil geochemistry results were also obtained.

Several good gold and silver values were also obtained from samples obtained from rock piles at Snowshoe Gold Mines Ltd. workings. Values of 0.118 and 0.102 ounces per ton of gold were obtained.

On McMartin creek where the Taylor Tungsten and the Hebson vein are located, good values of lead, zinc, silver and tungsten were obtained. Tungsten in one grab sample returned 13.87% WO_3. Samples data is shown on Drawing 82-252E.

In general, on the property silver values appear to increase with lead zinc values. Gold values do not always follow with silver.

TABLE 3.4

ROCK GEOCHEMISTRY BACKGROUND LEVELS

ELEMENT	UNIT	ARITHMETIC MEAN	GEOMETRIC MEAN	BACKGROUND RANGE
Cu	ppm	9.5	5.8	0 - 33
Pb	ppm	22.0	10.7	0 - 91
Zn	ppm	343.6	218.5	1 - 175
Mo	ppm	3.2	2.3	0 - 9
W	ppm	8.4	6.5	0 - 10
Au	ppb	20.76	12.78	0 - 65
Ag	ppm	0.27	.21	0.0 - 0.9

4.0 CONCLUSIONS

The Yanks Peak area hosts several gold occurrances and has been a centre of much exploration activity in the past including underground exploration. Several interesting areas are present but cannot be fully evaluated based on surface work alone. Most old surface trenches have been relocated and sampled. These trenches were, however, not reblasted to obtain fresh samples. Good values were obtained from some of these trenches inspite of this.

No new showings have been discovered on the property. Future work on the property should consist of geophysical surveys in preparation for diamond drilling. It appears that diamond drilling will have to be used to fully assess the potential of the property since all the surface work carried out to date has not improved upon the potential of the property. The surface work has confirmed and defined the previously known mineral potential.

4.2 RECOMMENDED 1983 PROGRAM

The following is the recommended 1983 program for the Yanks Peak Project. A 2.5 km x 2.5 km square grid should be cut with base line running NW at 330° from the Jim adit area with lines every 150 meters running SE from the base line. Magnetometer and VLF-EM surveys should be run over these lines. Several selected lines should be tested with an Induced Polarization equipment .

All of the above work refers to the Little Snowshoe group. No work is recommended for the French Snowshoe group of claims.

All of this work when combined with existing data will form a data base for the selection of the best sites for diamond drilling. The diamond drilling of the promising areas is recommended once geophysical surveys have been completed.

A total of about 1000 meters of diamond drilling would be required to test the area on a first pass basis. This drilling is required to fully evaluate the property. The estimated cost of the geophysical program and diamond drilling is $175,000.00.

Paul A. Hawkins, P. Eng.

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APPENDIX

1. Claim Listing
2. Author's Qualifications
3. Field Staff List
4. 1982 Cariboo and Tchaikazan Mean Salary Calculation
5. Cariboo Gold Project 1982 Analysis Costs
6. Cariboo Project Expenditures
7. Estimated Field Exploration Costs Yanks Peak
8. Geochemical Data Listing
9. Report Maps

YANKS PEAK PROJECT

CLAIM LISTING

CARIBOO LAKE AREA

Cariboo Mining Division

RECORD #	CLAIM NAME	LOT #	UNITS	ANNIVERSARY DATE	IN GOOD STANDING UNTIL	HECTARES
282	Old Timer	11337	1	Nov. 17/76	1984 (1986)	12.76
283	Jane	11338	1	Nov. 17/76	1984 (1989)	19.45
510	Junior	11341	1	Oct. 19/77	1984	20.83
511	Little Robert	11340	1	Oct. 19/77	1984 (1990)	16.69
512	Indian Broom	11333	1	Oct. 19/77	1984	18.07
512	Bella Coola	11342	1	Oct. 19/77	1984 (1990)	13.16
513	Frill Fraction	4676	1			
513	Tri Fraction	11346				
513	Junior Extension	11343				
565	Yanks Peak #2	10663	1	Feb. 1/78	1983	20.29
568	Bertha	11332				11.38
574	Yanks Peak	10662	1	Feb. 6/78	1983 (1987)	20.50
580	East Yanks	10668	1	Feb. 6/78	1983	20.90
	Peak No. 2		1	Feb. 8/78	1983 (1988)	
602	Betty	11335				23.63
602	Betty Fraction	11334	1	Feb. 20/78	1985 (1991)	
603	Janes Extension No. 1	11331	1	Feb. 20/78	1985	17.86
654	Janes Extension No. 2	11345	1	April 12/78	1985	51.65
655	Junior Fraction	11336	1	April 12/78	1984 (1988)	4.69
656	Old Faithful	11339	1	April 12/78	1984 (1985)	18.73
1612	Cone		18	April 30/80	1983 (1985)	450.00
1611	Rose		10	April 30/80	1983 (1985)	250.00
2003	Astride		4	Sept. 22/80	1983	100.00
3179	YPE Fraction	10667	1	Feb. 18/81	1982 (1986)	5.97
3180	YP Fraction	10665	1	Feb. 18/81	1982 (1985)	1.34
3181	Yanks Peak #3	10664	1	Feb. 18/81	1982 (1992)	20.90
3182	East Yanks Peak	10666	1	Feb. 18/81	1982 (1989)	20.90
4049	Placer Lease		2	Dec. 9/80	1982	41.80
					TOTAL	1,181.50

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 Assistant

FIELD STAFF LIST

1. David Dillon
   M.Sc. (Geology) Brock University 1982
   B.Sc. (Geology) University of Toronto 1979

2. Catherine Lawerence
   B.Sc. (Geology) University of Western Ontario 1982

3. Karla Lange
   B.Sc. (Geology) University of British Columbia 1982

4. Jacqui Rublee
   2nd Year Geology Student, University of British Columbia

5. Kimberly Russell
   2nd Year Geology Student, Sir Sanford Fleming College

6. Richard Laing
   B.Sc. (Biology) University of Calgary
   1st Year Geology Student, University of Calgary

7. Steve Barnhart
   2nd Year Geology Student, University of Waterloo

8. Jim Boyd
   2nd Year Geology Student, McMaster University

9. Reno Pressacco
   Graduate Geological Technician, Cambrian College 1982

10. Gerald Lalonde
    Cook

11. Derek Armstrong
    B.Sc. (Geology) University of Waterloo 1982

12. Derek Newman
    3rd Year Geology Student, Memorial University

13. John Mirynech
    1st Year Geology Student, University of Western Ontario

14. Mark Ho
    2nd Year Geology Student, University of Waterloo

15. Don Sabo
    1st Year Geology Student, University of Saskatchewan

16. Roy Lush
    Cook

17. Ernst Maas
    Helicopter Pilot

18. Cynthia Bonthoux
    Replacement Cook

1982 CARIBOO AND TCHAIKAZAN MEAN SALARY CALCULATION

	Daily Rate	
P. Hawkins	$ 234.09	Projects Geologist Cordilleran
D. Dillon	102.26	Tchaikazan Party Chief
C. Lawrence	99.64	Senior Field Assistant
K. Lange	98.34	Senior Field Assistant
V. Rublee	70.49	Junior Field Assistant
K. Russell	70.49	Junior Field Assistant
R. Laing	95.73	Camp Manager
S. Barnhart	70.49	Junior Field Assistant
J. Boyd	78.33	Junior Field Assistant
R. Pressacco	80.36	Junior Field Assistant
G. Lalonde	117.49	Cook
D. Armstrong	99.64	Cariboo Pary Chief
D. Newman	80.93	Senior Field Assistant
J. Mirynech	58.75	Junior Field Assistant
M. Ho	70.49	Junior Field Assistant
D. Sabo	70.49	Junior Field Assistant
R. Lush	117.49	
	$ 1,615.20	
AVERAGE	$ 95.01	

Paul A. Hawkins
September 6, 1982

CARIBOO GOLD PROJECT

1982 ANALYSIS COSTS

Lab: Vangeochem Lab Ltd.
1521 Pemberton Avenue
North Vancouver, B.C.

Rock Samples	
Plastic Samples Bag 8" X 13" c/w 7" tie	0.19
Rock Samples Preparation	2.50
Cu Pb Zn Ag Mo	4.85
Trace Analysis Au	4.30
Trace Analysis W	3.75
Save Rejects	0.25
Rock Sample Analysis Cost	15.84
Soil and Stream Sediment Samples	
Gusset hi-wet strength geochem bags 4" X 6"	0.07
Soil Sample Preparation	0.60
Cu Pb Zn Ag Mo	4.85
Trace Analysis Au	4.30
Trace Analysis W	3.75
Save Rejects	0.25
Soil and Stream Analysis Cost	13.82

CARIBOO GOLD PROJECTS

TOTAL PROPERTY EXPENDITURES (ALL PROPERTIES)

Field Related Expenses

Salaries		$ 58,086.00	
Helicopter		39,880.64	
Fuel		10,185.26	
Truck Rental		11,149.04	
Communication Expenses		1,240.23	
Travel and Freight		11,124.44	
Geochemical Analysis and Assays		43,752.20	
Food		14,604.75	
Camp costs and Equipment		15,922.48	
Lumber		1,495.25	
Warehouse Rental		1,335.00	
Cabin Rental		2,400.00	
Office Supplies, Maps and Reproduction		1,843.29	
Equipment Rental		1,450.00	
	Sub Total	$214,468.58	
	+10% Operating Overhead	21,446.85	
		$235,915.43	$ 235,915.43

Office Expenditures

Salaries:		
Project Geologist (10x234.09)	$2,340.90	
Senior Assistant (44x99.64)	4,384.16	
Draftsman (22x99.64)	2,192.08	
Typing (2x99.64)	199.28	
	$9,116.42	9,116.42

Other Expenses

Data Processing	$ 300.00	
Reproduction	900.00	
	$1,200.00	1,200.00

TOTAL PROJECT EXPENSES $ 241,231.85

CARIBOO GOLD PROJECT

Prorated Field Expenses

	TOTALS
Salaries	$ 58,086.00
Helicopter	39,880.64
Fuel	10,185.26
Truck Rental	11,149.04
Communications Expenses	1,240.23
Travel and Freight	11,124.44
Food	14,604.75
Camp Costs and Equipment	15,922.48
Lumber	1,495.25
Warehouse Rental	1,335.00
Cabin Rental	2,400.00
Office supplies, Maps and Reproduction	1,843.29
Sub Total	$169,266.38
+10%	16,926.63
	$186.193.01

Total Field mandays - 308.5

Per Manday Field Costs - $603.54

CARIBOO GOLD PROJECT

1982 Mandays Breakdown

Yanks Peak Property		
Mineral	154	
Placer	11	
	165	165.0
Roundtop Property		
Mineral	30.5	
Placer	10	
	40.5	40.5
Cariboo Mountain		
Mineral	71	71.0
Open Ground	32	32.0
TOTAL FIELD DAY		308.5
Camp Support	327	327.0
TOTAL PROJECT MANDAYS		635.5

CARIBOO GOLD PROJECTS

1982 INTER PROJECT

Field Manday Summary

	Mandays		%
Yanks Peak			
French Snowshoe Group	78		
Little Snowshoe Group	76		
Mineral Total	154	154	49.92
Placer	11	11	3.56
Roundtop Mountain			
Roundtop Group	30.5	30.5	9.89
Placer	10	10	3.24
Cariboo Mountain			
Cariboo Group	27		
Andy #1	5		
#2	5		
Dain #1	21		
#2	13		
#3	0		
#4	0		
Mineral Total	71	71	23.01
Open Ground	32	32	10.38
TOTAL		308.5	100.00%

TOTAL 1982 EXPLORATION COSTS

Yanks Peak Project

	French Snowshoe Group	Cost	Little Snowshoe Group	Cost
Field Work				
Mandays	78	47,076.21	76	45,869.04
Sampling				
Soil Samples	221	3,054.22	545	7,531.90
Stream Sediments	0	0	89	1,229.98
Rock Samples	44	696.96	91	1,441.44
Assays	0	0	134	939.50
Field Total		$50,827.39		$57,011.86
Report Preparation and other expenses		2,607.99		2,541.96
TOTAL PROGRAM		$53,435.38		$59,553.82

SUMMARY OF STATEMENTS OF EXPLORATION AND DEVELOPMENT
1982 YANKS PEAK FIELD PROGRAM

CLAIM GROUP	STATEMENT DATE	RECEIPT #	CLAIMS	TOTAL WORK	WORK APPLIED	SURPLUS TO P.A.C.
French Snowshoe	Nov. 16, 1982	187541E	Yanks Peak #2, Yanks Peak, YPE fr., YP fr.	800	800	0
			TOTAL Applied	800	800	0
			Total Work (Suncor Report #9172)	53,435.38		
			Total Applied (As Above)	800.00		
			Unused Work	52,635.38		
Little Snowshoe						
	Sept. 22,1982	187121E	Astride	6,228.55	4,000	2,228.55
	Oct. 19, 1982	187309E	Junior, Little Robert, Indian Broom, Tri Fraction	5,398.20	800	4,598.20
	Nov. 16, 1982	187541E	Old Timer, Jones Extension, Jones Extension #2, Old Faithful Cone, Rose	10,100.00	10,100	0
			TOTAL Applied	21,726.75	14,900	6,826.75
			Total Work (Suncor Report #9172)	59,553.82		
			Total Applied (As Above)	21,726.75		
			Unused Work	37,827.07		

P. A. Hawkins
February 15, 1983

GEOCHEMICAL DATA LISTING

YANKS PEAK PROJECT

Soil Sample Listing

Cu, Pb, Zn, Mo, W, and Ag in ppm

Au in ppb

YANKS PEAK PROJECT - SOIL GEOCHEMISTRY FEB 7, 1983.

SUMMARY STATISTICS

SUBSET	VARIABLE	UNITS	N	ARITH MEAN	STD DEV	CV %	SKEW	EXCESS KURT	95% LIMITS ON MEAN		GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN	
TOTAL	CU AA	PPM	1075	25.1	22.6	90.2	4.24	26.92	23.7	26.4	19.4	1.2876	.3131	18.6	20.2
TOTAL	PB AA	PPM	1075	53.9	180.	333.2	15.50	300.18	43.2	64.7	31.7	1.5013	.3236	30.1	33.2
TOTAL	ZN AA	PPM	1073	95.8	116.	121.5	5.78	49.36	88.8	103.	68.0	1.8323	.3423	64.8	71.3
TOTAL	MO AA	PPM	917	2.34	3.54	151.2	13.90	268.36	2.11	2.57	1.81	.2586	.2605	1.74	1.89
TOTAL	AU AA	PPB	645	19.9	50.4	252.6	15.06	287.42	16.0	23.8	12.6	1.1013	.3307	11.9	13.4
TOTAL	AG AA	PPM	950	.555	.738	132.9	6.74	70.32	.508	.602	.373	-.4284	.3652	.353	.393
TOTAL	W AA	PPM	559	7.95	5.23	65.8	2.70	9.57	7.52	8.39	6.90	.8391	.2153	6.63	7.19

SUBSET	VARIABLE	UNITS	N	MIN VALUE	PERCENTILE 25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH	MAX VALUE
TOTAL	CU AA	PPM	1075	1.000	14.000	19.000	29.000	34.000	46.000	62.000	90.000	116.000	265.000
TOTAL	PB AA	PPM	1075	3.000	20.000	28.000	43.000	48.000	71.000	122.000	241.000	480.000	4200.000
TOTAL	ZN AA	PPM	1073	3.000	43.000	69.000	111.000	120.000	172.000	240.000	450.000	610.000	1630.000
TOTAL	MO AA	PPM	917	1.000	1.000	2.000	3.000	3.000	4.000	5.000	9.000	13.000	80.000
TOTAL	AU AA	PPB	645	5.000	10.000	10.000	20.000	20.000	30.000	50.000	100.000	205.000	1060.000
TOTAL	AG AA	PPM	950	.100	.200	.400	.600	.700	1.100	1.600	2.400	3.300	10.100
TOTAL	W AA	PPM	559	.400	5.000	5.000	10.000	10.000	10.000	20.000	20.000	30.000	40.000

.DATE 12:57:22 RID 20 07 FEB 83 PHAWK

*PROJ#	.SAMPLE.NUMBER	.ROCK.TYPE.	.RS.CU .AA	.PB .AA	.ZN .AA	.MO .AA	.AU .AA	.AG .AA	.W .AA	.	.	.	.	.	.	.
05082	200018		48	40	161	2	10	0.4	0							
05082	200019		36	24	105	2	10	0.2	5							
05082	200020		39	33	119	2	5	0.4	0							
05082	200021		30	23	121	0	25	0.1	5							
05082	200022		34	26	142	2	5	0.2	5							
05082	200023		33	23	119	2	10	0.1	5							
05082	200024		30	25	95	2	10	0.0	0							
05082	200025		59	42	197	2	5	0.1	0							
05082	200026		37	42	126	1	0	0.2	5							
05082	200027		31	39	138	3	0	0.4	5							
05082	200028		38	45	189	3	10	1.5	5							
05082	200029		55	46	183	3	5	1.5	0							
05082	200030		36	33	126	2	5	0.3	0							
05082	200031		41	35	128	2	20	0.4	0							
05082	200032		50	42	147	2	15	1.3	5							
05082	200033		35	29	121	1	0	0.4	0							
05082	200034		29	31	116	3	0	0.4	0							
05082	200035		36	31	120	2	0	0.1	0							
05082	200036		42	40	162	1	5	0.6	0							
05082	200037		54	46	185	3	0	1.2	0							
05082	200038		30	23	89	1	0	0.0	0							
05082	200039		24	25	130	1	0	0.5	0							
05082	200040		30	25	122	1	0	0.1	0							
05082	200041		49	40	124	2	0	1.2	0							
05082	200042		28	23	115	2	0	0.5	0							
05082	200043		34	21	96	2	10	0.3	5							
05082	200044		29	24	115	2	15	0.6	0							
05082	200045		27	21	77	1	0	0.2	0							
05082	200046		18	20	112	1	20	0.4	5							
05082	200047		29	26	136	1	0	0.4	0							
05082	200048		21	23	94	0	5	0.0	0							
05082	200049		42	34	140	2	0	0.5	5							
05082	200050		31	26	119	1	5	0.2	0							
05082	200051		36	28	120	1	0	0.3	0							
05082	200052		51	43	213	1	0	0.1	0							
05082	200053		19	14	72	1	5	0.8	0							
05082	200054		36	30	146	1	0	0.0	0							
05082	200055		47	41	198	2	0	0.1	0							
05082	200056		36	33	140	1	0	0.6	5							
05082	200057		39	32	129	1	0	0.7	10							
05082	200058		41	40	171	2	20	0.3	5							
05082	200059		27	25	116	2	5	0.6	5							
05082	200060		30	23	129	1	0	0.0	0							
05082	200061		49	20	140	2	0	0.9	0							
05082	200062		36	24	191	2	0	0.6	0							
05082	200063		39	35	142	1	0	0.8	0							
05082	200064		49	48	140	2	0	1.8	0							
05082	200065		96	69	196	3	0	2.4	5							
05082	200066		31	20	173	1	0	0.3	5							
05082	200067		32	22	155	1	0	0.1	0							
05082	200068		36	24	196	2	0	0.3	5							
05082	200069		34	23	207	1	0	0.4	0							
05082	200070		49	43	214	1	10	0.9	0							
05082	200071		67	49	245	3	0	0.3	0							
05082	200072		46	26	240	3	0	0.4	0							

05082	200073	37	25	192	2	0	0.2	0
05082	200074	38	25	197	2	5	0.4	5
05082	200075	36	22	188	2	0	0.4	5
05082	200076	34	32	187	2	0	0.6	5
05082	200077	33	26	174	2	0	0.4	0
05082	200078	35	21	150	2	5	0.3	5
05082	200079	36	23	171	2	30	0.3	5
05082	200080	34	21	176	2	20	0.3	0
05082	200081	34	21	172	2	0	0.2	0
05082	200082	33	24	173	2	20	0.4	0
05082	200083	35	24	170	2	15	0.4	0
05082	200084	36	25	170	1	0	0.3	0
05082	200085	34	25	177	2	10	0.2	5
05082	200086	38	19	162	2	5	0.5	5
05082	200087	41	40	174	2	60	0.4	0
05082	200088	39	24	163	1	5	0.4	0
05082	200089	46	48	216	2	0	0.6	0
05082	200090	35	30	158	1	10	0.2	5
05082	200091	37	32	149	2	0	0.3	5
05082	200092	39	57	140	1	10	0.4	0
05082	200093	19	19	122	0	0	0.4	0
05082	200094	16	16	104	1	0	0.3	5
05082	200095	23	41	173	2	0	0.1	5
05082	200096	16	46	206	1	0	0.5	5
05082	200097	17	88	395	1	0	0.3	5
05082	200098	15	72	296	0	10	0.4	5
05082	200099	12	14	110	0	0	0.3	0
05082	200100	35	325	1150	1	10	0.5	0
05082	200101	31	59	170	2	0	0.2	5
05082	200103	36	25	155	1	0	0.4	5
05082	200104	21	12	92	1	0	0.0	5
05082	200105	24	16	139	2	10	0.8	5
05082	200106	116	45	650	3	0	3.3	0
05082	200107	39	34	194	1	0	0.9	0
05082	200108	57	29	365	3	0	1.1	5
05082	200109	21	18	102	2	0	0.3	5
05082	200110	37	28	148	2	10	3.9	0
05082	200111	57	42	141	4	10	1.0	0
05082	200112	89	30	240	2	10	1.9	0
05082	200113	40	21	109	1	10	0.6	5
05082	200114	36	24	89	1	0	0.7	5
05082	200115	26	22	200	2	0	0.9	0
05082	200116	30	19	118	1	0	0.9	0
05082	200117	34	96	144	3	0	2.0	10
05082	200118	68	40	600	6	0	2.4	0
05082	200119	29	15	110	2	10	1.0	5
05082	200120	63	30	276	4	10	0.5	5
05082	200121	56	21	104	3	0	0.1	0
05082	200122	74	34	239	3	10	0.6	5
05082	200123	48	33	186	2	10	0.8	5
05082	200124	35	18	116	2	0	0.4	0
05082	200155	18	20	90	2	5	1.0	0
05082	200156	20	19	121	2	0	0.6	0
05082	200157	45	26	102	3	10	0.4	5
05082	200158	14	17	60	1	0	0.3	5
05082	200159	19	20	109	1	10	0.3	5
05082	200160	30	17	118	2	0	0.7	0
05082	200161	41	32	201	2	0	1.6	0
05082	200162	59	24	119	2	0	0.0	5

05082	200163	16	16	124	1	10	0.3	0
05082	200164	24	15	211	2	0	0.1	5
05082	200165	19	16	59	1	10	0.1	0
05082	200166	42	21	111	2	15	0.1	0
05082	200167	88	21	80	3	0	0.1	5
05082	200168	39	18	82	2	10	0.2	0
05082	200169	51	24	86	2	0	0.3	5
05082	200170	172	34	125	4	10	0.4	5
05082	200171	197	24	112	4	15	0.4	5
05082	200172	116	32	101	2	5	0.5	0
05082	200173	44	20	89	2	10	0.6	0
05082	200174	32	24	97	1	0	0.2	0
05082	200175	54	35	89	1	0	0.0	0
05082	200176	18	20	74	1	10	0.4	5
05082	200177	40	32	91	1	0	0.4	5
05082	200178	74	32	90	3	10	0.5	0
05082	200179	111	26	72	3	10	1.7	0
05082	200180	76	29	93	2	10	0.2	0
05082	200181	57	24	90	1	0	0.3	5
05082	200182	51	21	110	3	10	0.3	5
05082	200183	60	24	87	5	10	0.4	5
05082	200184	41	22	71	6	0	0.3	5
05082	200185	45	19	79	1	5	0.4	0
05082	200186	83	26	90	2	15	0.7	0
05082	200187	71	21	65	2	5	0.9	0
05082	200188	74	27	60	2	5	0.3	0
05082	200189	58	26	76	3	10	0.4	0
05082	200190	70	33	95	4	0	0.0	0
05082	200191	48	35	91	2	10	0.2	5
05082	200192	46	25	82	2	0	0.4	0
05082	200193	34	21	70	3	10	0.0	0
05082	200194	62	40	70	2	5	0.2	0
05082	200195	46	43	76	4	5	0.6	0
05082	200196	101	42	92	5	0	2.0	0
05082	200197	97	38	89	4	10	1.9	0
05082	200198	45	43	94	4	10	1.1	0
05082	200199	95	47	127	2	0	0.7	5
05082	200200	151	74	145	5	0	0.3	5
05082	200201	64	45	124	3	0	0.7	0
05082	200202	46	41	91	5	15	0.1	0
05082	200203	97	25	62	1	10	0.3	0
05082	200204	47	24	94	1	5	0.1	0
05082	200205	45	26	163	1	10	0.0	0
05082	200206	20	20	57	1	0	0.2	10
05082	200207	27	25	96	1	0	0.4	5
05082	200208	14	24	72	1	0	0.0	5
05082	200209	23	20	52	1	0	0.3	0
05082	200210	24	18	55	0	10	0.2	0
05082	200211	75	44	87	2	0	1.0	5
05082	200212	58	26	82	1	0	0.6	0
05082	200213	46	24	84	0	0	0.0	5
05082	200214	90	41	96	2	15	2.5	5
05082	200215	21	26	115	1	0	0.1	5
05082	200216	22	24	120	2	10	0.1	0
05082	200217	14	16	81	2	0	0.2	0
05082	200218	14	16	99	3	5	0.1	0
05082	200219	8	9	50	2	0	0.1	0
05082	200220	19	21	124	2	10	0.0	5
05082	200221	46	26	73	1	5	0.4	5

05082	200222	24	20	71	1	15	0.0	5
05082	200223	43	22	72	1	5	0.3	5
05082	200224	37	26	175	4	10	0.6	0
05082	200225	51	25	185	1	10	0.2	10
05082	200226	21	24	260	2	0	0.1	10
05082	200227	33	25	197	1	10	0.0	5
05082	200228	80	23	124	4	15	0.9	5
05082	200229	72	26	500	4	15	0.4	0
05082	200230	116	49	800	2	10	0.1	0
05082	200231	69	49	337	3	0	0.5	0
05082	200232	67	52	186	0	0	0.2	0
05082	200233	19	41	261	2	10	0.4	0
05082	200234	19	26	144	2	5	0.3	0
05082	200235	44	32	241	1	0	0.7	5
05082	200236	40	39	125	0	5	0.4	5
05082	200237	45	32	66	3	0	1.1	5
05082	200238	27	24	97	3	5	0.3	10
05082	200239	20	19	65	2	0	0.2	5
05082	200240	81	44	133	4	0	0.0	5
05082	200241	29	25	90	2	10	0.2	10
05082	200242	24	21	76	3	10	0.3	0
05082	200243	46	44	151	2	10	0.1	0
05082	200244	35	35	112	3	0	0.4	0
05082	200245	35	30	115	3	0	0.4	0
05082	200246	48	28	109	3	10	0.5	5
05082	200247	26	23	99	2	10	0.2	5
05082	200248	17	21	73	3	0	0.1	0
05082	200249	19	27	75	2	0	1.1	0
05082	200250	30	32	106	1	0	0.6	5
05082	200251	16	20	68	1	0	0.3	5
05082	200252	16	13	42	1	0	0.1	0
05082	200253	10	18	45	2	0	0.2	5
05082	200254	14	16	59	2	0	0.3	5
05082	200255	26	22	112	1	10	0.0	5
05082	200256	20	26	71	0	0	0.7	0
05082	200257	14	18	65	2	5	0.3	0
05082	200258	21	32	111	1	5	0.9	0
05082	200259	13	16	42	1	0	0.6	0
05082	200260	40	23	118	1	10	1.0	0
05082	200261	39	48	142	1	0	0.5	0
05082	200262	15	19	50	2	10	0.4	0
05082	200263	13	16	33	1	0	0.3	10
05082	200264	29	14	70	0	15	0.1	10
05082	200265	13	15	32	0	0	0.1	20
05082	200266	26	18	64	1	0	0.0	20
05082	200267	18	16	46	0	0	0.1	10
05082	200268	16	18	46	0	10	0.2	10
05082	200269	15	23	40	1	10	0.1	10
05082	200270	8	10	15	0	140	0.0	10
05082	200271	19	19	36	1	0	0.1	5
05082	200272	20	17	47	1	0	0.2	10
05082	200273	18	15	46	1	0	0.1	5
05082	200274	48	24	89	1	1060	0.2	5
05082	200275	13	19	33	1	10	0.0	10
05082	200276	12	14	36	1	10	0.1	0
05082	200277	11	16	44	0	5	0.1	0
05082	200278	21	19	65	0	5	0.1	0
05082	200279	24	18	55	1	0	0.1	0
05082	200280	18	18	56	1	0	0.3	5

05082	200277	11	19	44				
05082	200278	21	19	65	0	5	0.1	0
05082	200279	24	18	55	1	0	0.1	0
05082	200280	18	18	56	1	0	0.3	5

05082	200281	12	15	45	1	10	0.3	0
05082	200282	17	21	45	0	15	0.5	10
05082	200283	21	15	56	1	0	0.1	10
05082	200284	12	19	49	0	15	0.5	10
05082	200285	27	26	99	2	0	0.3	5
05082	200286	36	225	149	1	0	0.2	0
05082	200287	33	50	140	1	15	0.1	10
05082	200288	16	23	64	2	5	0.3	10
05082	200289	18	16	78	2	0	0.0	5
05082	200290	14	14	49	0	0	0.2	0
05082	200291	22	23	104	0	0	0.1	10
05082	200292	16	15	140	1	0	0.0	5
05082	200293	15	15	45	0	0	0.2	5
05082	200294	18	18	61	2	0	0.5	5
05082	200295	21	18	102	2	0	0.2	5
05082	200296	26	23	375	1	0	0.2	10
05082	200297	26	21	89	0	0	0.3	10
05082	200298	20	19	71	1	0	0.1	10
05082	200299	13	13	45	0	0	0.2	10
05082	200300	24	33	99	2	0	0.5	10
05082	200301	29	32	90	2	0	0.6	10
05082	200302	36	36	98	3	0	0.3	10
05082	200305	27	20	70	1	20	0.3	10
05082	200306	18	20	37	0	0	0.5	10
05082	200307	14	18	21	2	10	0.6	5
05082	200308	19	31	35	2	5	1.0	5
05082	200309	20	16	46	0	0	0.5	0
05082	200310	21	14	49	1	10	0.5	5
05082	200311	21	13	39	0	15	0.3	5
05082	200312	46	19	75	2	0	0.1	0
05082	200313	18	15	46	2	10	0.3	5
05082	200314	20	23	65	1	0	0.1	10
05082	200315	20	26	53	1	0	0.4	5
05082	200316	21	26	67	2	0	0.2	5
05082	200317	20	29	60	1	0	0.3	5
05082	200318	14	16	40	1	5	0.4	10
05082	200319	12	14	29	1	0	0.6	5
05082	200320	14	14	34	1	10	0.2	5
05082	200321	20	21	1010	1	5	0.3	5
05082	200322	51	43	114	2	5	0.0	0
05082	200323	42	36	99	0	20	0.1	0
05082	200324	20	18	46	2	0	0.6	20
05082	200325	39	24	117	1	0	0.8	10
05082	200326	24	26	55	2	0	0.6	10
05082	200327	24	21	67	1	0	0.2	20
05082	200328	10	9	26	2	5	0.0	20
05082	200329	18	29	70	2	0	0.2	10
05082	200330	21	21	96	1	0	0.0	10
05082	200331	23	21	87	1	0	0.0	10
05082	200332	16	18	51	0	0	0.2	0
05082	200333	25	34	102	2	5	0.2	5
05082	200334	15	17	40	1	0	0.3	5
05082	200335	42	21	105	3	0	0.1	10
05082	200336	39	33	116	2	0	0.5	10
05082	200337	26	33	116	2	0	0.6	5
05082	200338	38	41	127	2	0	0.3	5
05082	200339	18	20	76	1	5	0.4	5
05082	200340	42	36	141	3	0	1.0	5
05082	200341	74	45	125	3	0	0.0	5

05082	200342		53	43	146	2	0	0.8	0
05082	200343		55	42	134	2	0	0.0	10
05082	200347	50	46	46	315	2	10		5
05082	200348	50	41	43	440	3	0	0.4	0
05082	200349	50	54	60	206	9	5	1.3	5
05082	200350	50	38	47	94	1	0	0.0	0
05082	200351	50	41	41	99	5	10	0.0	5
05082	200352	50	75	63	143	4	0	0.6	0
05082	200353	50	90	45	166	4	0	0.1	0
05082	200354	50	30	28	99	1	0	0.2	5
05082	200355	50	63	43	450	12	0	0.5	5
05082	200356	50	26	40	240	11	0	1.8	5
05082	200357	50	36	29	530	3	5	0.6	20
05082	200358		28	16	84	1	10	0.1	5
05082	200359		43	18	91	0	0	0.2	0
05082	200360		55	27	116	1	5	0.0	5
05082	200364		52	21	106	1	0	0.0	5
05082	200365	50	39	44	10	1	5	0.4	5
05082	200366	50	40	40	89	2	0	0.9	5
05082	200367	50	36	27	90	2	0	0.4	5
05082	200368	50	23	20	71	2	0	0.2	5
05082	200369	50	42	24	118	2	10	0.7	5
05082	200370	50	56	31	205	4	0	0.2	0
05082	200371	50	31	14	48	4	0	0.9	5
05082	200372	50	15	15	34	1	0	0.4	0
05082	200373	50	25	18	117	3	0	0.0	0
05082	200374	50	33	20	140	2	0	0.4	0
05082	200375	50	14	12	78	2	5	0.5	5
05082	200376	50	20	16	45	1	0	0.4	5
05082	200377	50	16	16	46	1	10	0.2	0
05082	200378	50	16	15	44	1	10	0.4	10
05082	200379	50	6	9	18	1	5	0.1	0
05082	200380	50	19	22	47	2	5	0.3	5
05082	200381	50	20	27	69	1	0	0.3	5
05082	200382	50	12	20	40	1	0	0.2	10
05082	200383	50	16	20	41	1	0	0.0	5
05082	200384	50	24	29	116	2	0	0.0	0
05082	200385	50	19	18	52	1	5	0.0	10
05082	200386	50	14	23	84	1	5	0.1	10
05082	200387	50	14	16	40	0	0	0.5	10
05082	200388	50	16	19	40	1	60	0.2	5
05082	200389	50	20	19	48	1	0	0.3	5
05082	200390	50	14	14	32	1	10	0.2	5
05082	200391	50	17	12	31	1	0	0.1	5
05082	200392	50	19	14	40	2	10	0.0	5
05082	200393	50	12	14	25	2	10	0.0	5
05082	200394	50	16	13	47	1	5	0.1	0
05082	200395	50	19	14	34	0	0	0.0	0
05082	200396	50	15	13	32	1	10	0.2	5
05082	200397	50	15	8	28	0	5	0.3	0
05082	200398	50	12	10	20	1	0	0.1	5
05082	200399	50	11	10	25	1	0	0.2	0
05082	200400	50	23	24	89	1	0	0.2	5
05082	200401	50	12	15	25	0	5	0.1	5
05082	200402	50	22	22	65	1	0	0.1	5
05082	200403	50	18	19	57	2	10	0.1	0
05082	200404	50	17	28	71	2	20	0.3	0
05082	200405	50	9	16	33	1	30	0.3	0
05082	200406	50	15	19	56	1	15	0.2	5

05082	200405	50	9	16	33	1	30	0.3	0
05082	200406	50	15	19	56	1	15	0.2	5

05082	200407	50	15	16	58	1	0	0.0	5
05082	200408	50	16	13	45	1	0	0.2	5
05082	200409	50	12	71	36	1	0	0.0	5
05082	200410	50	16	16	49	1	10	0.0	10
05082	200411	50	15	16	56	2	35	0.1	10
05082	200412	50	19	17	60	1	25	0.2	5
05082	200413	50	15	14	31	2	5	0.1	0
05082	200414	50	12	14	29	2	0	0.2	0
05082	200415	50	20	20	58	1	20	0.0	10
05082	200416	50	11	10	29	1	5	0.1	5
05082	200417	50	13	21	45	1	20	0.0	0
05082	200418	50	20	17	54	1	26	0.0	5
05082	200419	50	16	16	41	1	10	0.1	0
05082	200420	50	12	19	36	2	0	0.2	0
05082	200421	50	19	16	57	2	0	0.3	0
05082	200422	50	23	20	72	2	0	0.0	0
05082	200423	50	20	16	40	1	20	0.0	0
05082	200424	50	20	19	44	1	10	0.0	0
05082	200425	50	14	22	43	1	0	0.1	0
05082	200426	50	14	16	30	1	0	0.3	0
05082	200427	50	14	16	30	2	0	0.1	0
05082	200428	50	22	17	43	1	0	0.2	5
05082	200429	50	18	16	36	1	10	0.4	5
05082	200430	50	12	15	24	1	15	0.2	0
05082	200431	50	19	16	26	1	30	0.2	0
05082	200432	50	12	11	18	1	30	0.2	0
05082	200433	50	17	18	34	1	30	0.3	5
05082	200434	50	18	20	46	1	10	0.4	5
05082	200439	50	12	16	20	1	0	0.2	5
05082	200440	50	12	19	37	1	0	0.1	20
05082	200441	50	16	14	21	1	0	0.3	5
05082	200442	50	10	12	15	1	0	0.2	10
05082	200443	50	14	16	20	1	5	0.3	10
05082	200444	50	20	18	36	1	0	0.4	10
05082	200454	50	9	10	12	1	0	0.4	5
05082	200455	50	17	19	29	1	0	0.3	5
05082	200557		12	13	29	0	0	0.6	0
05082	200558		20	22	45	1	10	0.6	10
05082	200559		16	14	27	0	0	0.0	0
05082	200560		15	16	18	0	0	0.2	10
05082	200561		15	14	34	0	0	0.3	0
05082	200562		17	15	39	0	0	0.2	0
05082	200563		14	11	28	1	0	0.4	0
05082	200564		19	12	26	1	0	0.1	10
05082	200565		20	15	63	1	0	0.3	10
05082	200566		16	9	28	1	0	0.3	10
05082	200567		21	25	39	0	5	0.0	10
05082	200568		44	21	170	2	0	0.2	10
05082	200569		23	14	64	2	0	0.2	10
05082	200570		15	18	43	1	0	0.2	5
05082	200571		18	18	40	1	0	0.0	10
05082	200572		18	24	56	1	10	0.1	10
05082	200573		19	24	74	2	10	0.3	10
05082	200574		16	20	60	1	0	0.3	10
05082	200575		18	18	51	1	0	0.0	0
05082	200576		20	22	64	2	0	0.0	0
05082	200577		23	21	69	1	0	0.0	0
05082	200578		26	26	95	2	5	0.0	0
05082	200579		31	32	84	2	0	0.5	5

05082	200580		16	24	52	2	10	0.0	0
05082	200581		12	14	23	1	10	0.3	0
05082	200582		16	17	34	2	0	0.9	0
05082	200583		18	15	28	1	0	0.1	0
05082	200584		18	16	45	1	0	0.3	0
05082	200586		24	24	65	1	0	0.6	5
05082	200587		22	32	73	2	10	0.6	5
05082	200588		17	15	30	0	0	0.1	0
05082	200589		24	20	88	2	0	0.3	5
05082	200590		21	25	84	2	10	0.4	0
05082	200591		39	122	103	0	20	0.1	5
05082	200592		13	171	36	1	10	1.1	5
05082	200593		21	63	52	0	10	0.0	5
05082	200594		16	39	45	2	0	0.0	0
05082	200595		15	60	41	1	0	0.5	0
05082	200596		24	45	65	2	110	0.1	0
05082	200597		26	32	69	1	205	0.0	0
05082	200598		25	34	56	2	150	0.0	0
05082	200599		28	43	74	3	40	0.0	5
05082	200600		19	62	87	1	40	0.1	0
05082	200601	50	19	34	52	1	10	0.2	10
05082	200602	50	24	40	58	1	45	0.0	10
05082	200603	50	45	43	102	2	10	0.2	10
05082	200604	50	26	40	72	1	50	0.1	0
05082	200605	50	31	39	78	3	40	0.6	10
05082	200606	50	29	39	75	1	0	0.3	0
05082	200607	50	33	46	76	1	150	0.1	0
05082	200608	50	23	30	63	1	20	0.1	5
05082	200609	50	21	33	68	1	50	0.2	10
05082	200610	50	24	40	70	1	60	0.5	5
05082	200611	50	26	26	92	1	10	0.4	5
05082	200612	50	18	39	88	2	30	0.3	10
05082	200613	50	25	39	90	1	10	0.0	10
05082	200614	50	22	40	76	3	10	0.4	20
05082	200615	50	20	29	72	0	0	0.0	0
05082	200616	50	13	21	45	1	5	0.2	5
05082	200617	50	19	21	70	2	60	0.6	10
05082	200618	50	24	45	161	2	90	0.4	5
05082	200619	50	20	18	112	2	0	0.3	0
05082	200620	50	40	30	225	3	5	0.3	10
05082	200621	50	25	33	72	1	0	0.4	0
05082	200622	50	12	16	27	0	0	0.6	0
05082	200623	50	46	44	73	1	0	0.8	0
05082	200624	50	67	71	109	4	20	2.7	0
05082	200625	50	38	45	90	1	10	0.9	0
05082	200626	50	26	56	124	3	5	1.4	0
05082	200627	50	25	40	68	1	0	0.5	0
05082	200628	50	21	31	63	2	0	0.1	5
05082	200629	50	22	43	101	2	0	0.4	10
05082	200630	50	32	30	100	2	10	0.5	5
05082	200631	50	20	41	88	4	0	0.3	0
05082	200632	50	5	44	610	5	5	0.3	5
05082	200633	50	2	19	74	2	40	0.3	10
05082	200634	50	3	43	96	3	30	1.1	10
05082	200635	50	4	112	1070	4	0	0.1	0
05082	200636	50	2	78	590	2	50	0.5	10
05082	200637	50	1	29	87	1	130	0.4	5
05082	200638	50	2	51	132	2	350	0.0	0
05082	200639	50	8	142	500	8	20	1.4	5

05082	200637	50	1	27	51	132	2	350	0.0	0
05082	200638	50	2	51	142	500	8	20	1.4	5
05082	200639	50	8							

*** MAPPER SYSTEM *** SUNCOR INC

05082	200640	50	2	40	146	2	40	1.6	5
05082	200641	50	2	36	160	2	30	0.5	0
05082	200642	50	2	34	108	2	10	0.0	0
05082	200643	50	2	45	119	2	140	0.4	0
05082	200644	50	23	36	75	2	60	0.3	0
05082	200645	50	21	34	66	2	20	0.1	5
05082	200646	50	15	18	32	1	0	0.3	0
05082	200647	50	24	24	76	0	60	0.3	5
05082	200648	50	19	20	64	1	30	0.2	5
05082	200649	50	141	41	94	2	10	2.0	5
05082	200650	50	50	48	95	5	50	1.6	20
05082	200651	50	196	52	291	10	0	1.3	10
05082	200652	50	31	91	95	8	0	1.3	30
05082	200653	50	52	54	101	10	0	0.4	30
05082	200654	50	30	19	76	1	5	0.1	20
05082	200655	50	29	43	148	2	0	0.6	5
05082	200656	50	16	22	44	2	20	0.3	0
05082	200657	50	38	20	69	1	30	0.5	0
05082	200658	50	35	21	65	1	30	0.2	0
05082	200659	50	10	37	26	0	0	0.2	3
05082	200660	50	12	22	44	1	10	0.6	5
05082	200661	50	23	39	105	2	30	0.3	5
05082	200662	50	20	46	122	1	30	0.3	10
05082	200663	50	11	25	36	1	0	0.3	10
05082	200664	50	26	16	96	3	30	0.2	20
05082	200665	50	19	88	50	1	0	0.7	10
05082	200666	50	17	59	43	2	5	0.4	10
05082	200667	50	10	20	21	1	0	0.4	5
05082	200668	50	4	10	16	2	10	0.6	20
05082	200669	50	9	51	30	1	0	0.8	10
05082	200670	50	10	49	35	2	0	0.3	10
05082	200671	50	18	66	19	2	20	1.4	0
05082	200782	50	19	44	245	4	10	0.1	0
05082	200783	50	20	42	154	0	10	0.2	0
05082	200784	50	9	23	44	2	0	0.0	0
05082	200785	50	11	25	41	3	10	0.2	5
05082	200786	50	29	51	141	0	0	0.8	5
05082	200787	50	20	30	89	2	25	0.2	20
05082	200788	50	27	40	322	3	0	1.4	20
05082	200805	50	55	15	240	4	5	0.8	0
05082	200806	50	94	30	201	4	20	1.4	10
05082	200807	50	146	74	247	3	30	1.6	20
05082	200808	50	28	43	92	2	45	1.9	20
05082	200809	50	265	40	590	2	10	1.0	5
05082	200810	50	52	31	148	5	15	0.9	5
05082	200811	50	120	19	201	1	10	1.5	20
05082	200812	50	86	36	390	3	0	4.7	20
05082	200813	50	95	34	610	2	0	0.8	10
05082	200814	50	107	18	345	1	0	1.3	10
05082	200815	50	83	20	188	5	5	0.7	0
05082	200816	50	11	21	37	3	0	1.0	0
05082	200817	50	12	14	41	1	5	0.2	0
05082	200818	50	25	37	116	0	320	1.3	0
05082	200819	50	25	48	93	0	300	0.4	5
05082	200820	50	19	49	67	4	0	0.2	20
05082	200821	50	24	58	121	3	20	1.0	20
05082	200822	50	23	34	83	2	10	0.4	30
05082	200823	50	17	35	65	2	5	0	5
05082	200824	50	18	29	72	2	0	0.3	10

05082	200825	50	19	48	70	4	0	0.1	0
05082	200826	50	14	24	29	5	0	0.6	30
05082	200827	50	16	20	41	2	0	0.8	5
05082	200828	50	22	46	46	4	0	0.3	5
05082	200829	50	15	38	65	2	0	0.2	5
05082	200830	50	10	24	42	3	10	0.6	0
05082	200831	50	8	13	26	2	0	0.1	0
05082	200832	50	5	17	19	1	5	0.0	0
05082	200833	50	10	18	27	2	10	0.1	5
05082	200834	50	8	21	29	4	0	0.5	0
05082	200835	50	46	60	289	3	0	0.1	0
05082	200836	50	42	51	224	3	10	1.3	0
05082	200837	50	4	26	44	0	50	0.3	0
05082	200838	50	15	54	59	3	5	0.4	0
05082	200839	50	12	35	71	2	15	2.4	0
05082	200840	50	9	48	60	2	5	2.6	0
05082	200841	50	17	46	71	0	0	1.1	0
05082	200842	50	9	35	61	1	15	0.2	0
05082	200843	50	12	19	34	0	10	0.0	0
05082	200844	50	25	38	80	1	10	0.1	0
05082	200845	50	14	35	56	2	0	0.4	0
05082	200846	50	14	24	74	1	15	0.3	0
05082	200847	50	20	40	88	2	0	0.2	5
05082	200848	50	15	21	60	1	10	0.7	5
05082	200849	50	10	15	41	1	10	0.9	0
05082	200850	50	15	15	72	0	5	0.2	0
05082	200851	50	28	66	141	1	0	1.1	0
05082	200852	50	10	18	37	0	15	0.3	0
05082	200853	50	15	25	65	0	0	0.3	0
05082	200854	50	18	27	46	0	10	0.0	0
05082	200855	50	36	48	95	2	0	0.7	0
05082	200856	50	19	25	64	2	20	0.4	5
05082	200857	50	24	21	65	2	10	0.5	5
05082	200858	50	21	40	65	2	20	0.8	5
05082	200859	50	26	38	93	1	20	0.5	5
05082	200860	50	17	26	46	2	10	0.1	5
05082	200861	50	33	47	102	2	0	0.0	5
05082	200862	50	18	11	51	1	10	0.0	0
05082	200863	50	7	8	24	1	0	0.0	0
05082	200864	50	12	13	36	0	0	0.4	5
05082	200865	50	6	20	23	1	35	0.0	10
05082	200866	50	6	99	21	1	10	0.2	5
05082	200867	50	25	42	59	1	10	0.3	10
05082	200868	50	11	19	25	1	10	0.4	5
05082	200869	50	13	42	38	2	10	0.4	10
05082	200870	50	21	158	112	1	0	1.4	10
05082	200871	50	15	71	74	1	0	0.1	20
05082	200872	50	15	40	68	2	0	0.3	20
05082	200873	50	10	20	46	1	0	0.0	10
05082	200874	50	9	16	29	2	10	0.4	5
05082	200875	50	20	90	60	2	80	0.9	5
05082	200876	50	16	43	84	2	0	0.4	5
05082	200877	50	14	71	49	1	15	0.2	10
05082	200878	50	16	52	65	2	15	0.5	5
05082	200879	50	6	26	14	0	10	0.3	10
05082	200880	50	11	71	9	1	10	2.4	0
05082	200881	50	2	28	15	2	10	2.1	0
05082	200882	50	1	191	13	1	10	0.7	5
05082	200883	50	5	15	12	0	10	0.3	5

05082	200884	50	8	22	20	0	5	0.4	5
05082	200885	50	16	60	37	1	0	0.4	5
05082	201193	50	9	30	20	0	15	0.3	0
05082	201194	50	6	19	10	0	0	0.1	0
05082	201195	50	10	22	23	2	10	0.3	0
05082	201196	50	10	20	24	1	10	0.4	0
05082	201197	50	6	12	18	0	10	0.4	10
05082	201198	50	7	6	12	0	0	0.1	0
05082	201199	50	9	13	18	0	5	0.2	0
05082	201200	50	6	5	11	0	10	0.3	5
05082	201201	50	6	7	16	0	10	0.1	0
05082	201202	50	14	35	47	0	5	0.5	20
05082	201203	50	8	18	23	0	15	0.3	0
05082	201244	50	22	22	76	1	50	0.2	5
05082	201245	50	16	43	48	0	0	0.4	0
05082	201246	50	16	26	31	1	0	0.3	0
05082	201247	50	18	25	70	0	10	0.1	10
05082	201248	50	11	14	51	1	10	1.0	10
05082	201249	50	10	33	33	1	0	1.0	10
05082	201250	50	12	18	17	0	0	0.5	10
05082	201251	50	16	24	56	1	0	0.4	10
05082	201252	50	9	19	21	0	10	0.4	10
05082	201253	50	6	16	20	0	0	0.3	10
05082	201254	50	10	18	45	1	5	0.3	10
05082	201255	50	16	16	35	1	10	0.5	5
05082	201256	50	5	18	24	0	15	0.4	5
05082	201257	50	15	21	45	1	10	0.2	5
05082	201258	50	4	18	22	0	5	0.1	10
05082	201259	50	18	24	54	0	10	0.7	10
05082	201260	50	6	19	26	0	10	0.4	10
05082	201261	50	11	20	68	0	30	1.0	5
05082	201262	50	19	14	146	0	0	2.5	0
05082	201263	50	48	16	115	0	15	8.0	0
05082	201264	50	41	9	23	3	5	1.0	0
05082	201265	50	37	26	43	0	15	3.3	0
05082	201266	50	8	25	30	0	20	1.6	5
05082	201267	50	16	41	116	2	10	1.6	5
05082	201268	50	20	51	96	3	5	0.8	0
05082	201269	50	14	54	68	2	0	0.2	0
05082	201270	50	10	24	75	2	10	0.6	5
05082	201271	50	16	34	51	2	5	0.8	5
05082	201272	50	11	18	70	0	15	0.2	5
05082	201273	50	14	82	98	1	5	0.2	40
05082	201274	50	20	60	121	1	10	0.3	5
05082	201275	50	20	46	100	1	10	0.3	10
05082	201276	50	11	38	49	1	20	0.4	10
05082	201277	50	9	20	49	2	25	0.1	10
05082	201278	50	9	41	22	1	10	0.6	0
05082	201279	50	5	16	14	0	15	0.1	0
05082	201280	50	19	52	45	0	0	0.5	0
05082	201281	50	12	44	24	1	25	0.6	5
05082	201282	50	12	94	48	3	5	0.3	5
05082	201283	50	8	58	21	2	10	0.0	5
05082	201284	50	22	36	42	2	20	0.1	0
05082	201285	50	16	25	33	2	30	0.2	0
05082	201286	50	9	27	13	0	0	0.3	5
05082	201287	50	19	39	40	0	10	0.8	10
05082	201288	50	17	38	44	2	5	0.2	10
05082	201289	50	13	67	26	1	20	0.0	10

05082	201290	50	12	39	8	0	20	0.3	20
05082	201291	50	17	85	34	2	30	0.9	0
05082	201292	50	10	33	11	0	10	0.5	0
05082	201293	50	21	51	43	5	15	0.6	5
05082	201315	50	236	97	410	3	5	0.4	10
05082	201377	50	16	37	26	2	0	0.4	0
05082	201378	50	20	36	53	2	20	0.1	0
05082	201379	50	22	49	68	3	0	0.1	0
05082	201380	50	16	41	42	2	10	0.3	0
05082	201381	50	24	71	64	2	20	0.3	0
05082	201382	50	31	22	138	3	10	0.4	0
05082	201383	50	29	28	170	3	5	0.5	0
05082	201384	50	26	26	221	3	0	0.6	0
05082	201385	50	87	23	157	6	0	0.1	5
05082	201386	50	84	24	405	5	10	0.4	5
05082	201387	50	43	26	364	8	5	0.0	5
05082	201388	50	20	36	226	6	0	0.3	5
05082	201389	50	8	20	44	0	0	0.1	5
05082	201390	50	25	8	10	0	0	0.2	5
05082	201391	50	26	23	78	3	10	0.3	0
05082	201392	50	26	21	76	3	0	0.5	5
05082	201393	50	17	34	45	3	10	0.5	0
05082	201394	50	24	32	87	4	5	0.3	0
05082	201395	50	14	25	43	1	10	0.2	0
05082	201396	50	22	28	102	2	0	0.4	5
05082	201398	50	16	19	38	2	0	0.4	0
05082	201399	50	21	22	67	2	30	0.3	5
05082	201400	50	25	38	76	2	20	0.5	10
05082	201401	50	25	34	218	1	0	0.2	5
05082	201403	50	24	142	121	2	15	0.4	0
05082	201404	50	13	21	26	1	20	0.3	0
05082	201405	50	19	88	50	2	0	0.0	0
05082	201406	50	11	42	15	0	10	0.2	1
05082	201407	50	14	104	21	0	10	0.4	0
05082	201408	50	16	172	40	0	0	0.2	0
05082	201409	50	15	123	72	2	25	0.0	0
05082	201410	50	12	44	26	2	0	0.4	5
05082	201411	50	14	75	42	1	0	0.2	5
05082	201412	50	15	63	42	0	0	0.1	5
05082	201413	50	21	67	55	0	20	0.2	5
05082	201414	50	17	29	29	1	5	0.2	10
05082	201415	50	13	53	40	2	10	0.3	10
05082	201416	50	14	102	46	1	15	0.4	0
05082	201427	50	20	64	89	4	25	0.4	0
05082	201428	50	21	187	110	6	0	0.3	5
05082	201429	50	8	104	19	2	0	0.2	5
05082	201430	50	13	780	146	1	20	0.3	0
05082	201431	50	22	131	94	4	20	0.3	5
05082	201432	50	10	31	20	2	0	0.0	0
05082	201433	50	24	37	54	1	25	0.3	0
05082	201434	50	12	24	28	1	15	0.0	0
05082	201435	50	6	18	16	2	0	0.0	0
05082	201436	50	3	9	6	1	20	0.0	0
05082	201478	50	13	797	52	2	0	3.3	0
05082	201479	50	10	166	39	2	30	1.0	0
05082	201480	50	5	94	14	0	10	1.7	0
05082	201481	50	36	480	22	0	25	1.8	0
05082	201482	50	51	162	96	3	5	1.9	0
05082	201483	50	15	47	213	2	0	1.0	5

05082	201483	50	15	47	213	2	0	1.0	5

05082	201484	50	15	46	125	3	10	0.3	5
05082	201485	50	12	23	48	2	5	0.2	0
05082	201486	50	10	36	120	1	0	0.1	0
05082	201487	50	16	34	74	2	5	0.2	0
05082	201488	50	46	49	44	0	30	0.4	0
05082	201489	50	15	33	43	0	15	0.4	0
05082	201490	50	26	62	71	0	15	0.1	0
05082	201491	50	14	201	68	1	20	0.2	0
05082	201492	50	9	29	24	0	20	0.1	0
05082	201493	50	19	299	89	1	0	0.5	0
05082	201494	50	23	362	74	1	25	1.3	0
05082	201495	50	12	78	43	0	15	0.2	0
05082	201496	50	8	16	22	0	20	0.2	0
05082	201497	50	10	24	36	0	5	0.3	0
05082	201498	50	12	36	60	2	10	0.6	0
05082	201499	50	8	25	45	0	5	0.3	0
05082	201500	50	11	26	48	1	15	0.2	0
05082	201501	50	9	24	46	1	20	0.2	5
05082	201502	50	17	129	71	2	20	0.5	5
05082	201503	50	14	25	52	2	20	0.2	5
05082	201504	50	30	37	98	2	0	0.2	5
05082	201505	50	6	31	76	1	20	0.6	5
05082	201506	50	10	36	74	0	30	0.1	5
05082	201507	50	1	23	10	0	10	0.4	5
05082	201508	50	19	18	42	0	0	0.2	5
05082	201509	50	13	21	42	1	5	0.0	0
05082	201510	50	10	19	49	1	0	0.3	0
05082	201511	50	9	24	58	2	10	0.1	0
05082	201512	50	16	21	72	1	15	0.4	0
05082	201513	50	19	20	76	1	0	0.5	0
05082	201514	50	9	24	59	0	0	0.6	5
05082	201515	50	52	26	47	9	5	1.7	5
05082	201516	50	20	16	93	0	10	2.4	5
05082	201517	50	8	21	38	2	0	0.7	0
05082	201518	50	8	25	32	0	5	0.3	0
05082	201519	50	24	29	101	2	10	0.4	5
05082	201520	50	10	28	47	1	15	0.6	0
05082	201521	50	2	21	10	0	5	0.2	0
05082	201522	50	3	34	16	2	5	0.1	0
05082	201523	50	7	29	81	2	10	0.4	0
05082	201524	50	2	37	40	1	0	1.1	0
05082	201525	50	13	28	90	0	25	0.2	5
05082	201526	50	15	41	84	0	20	0.1	5
05082	201527	50	16	116	89	0	20	0.9	40
05082	201528	50	12	37	126	1	5	1.9	10
05082	201529	50	18	32	73	1	25	1.4	10
05082	201530	50	2	44	14	1	30	0.4	10
05082	201531	50	12	58	38	0	10	0.3	10
05082	201532	50	9	47	41	3	20	0.5	10
05082	201533	50	63	347	26	0	10	1.6	10
05082	201534	50	15	71	50	0	10	0.5	5
05082	201535	50	15	62	41	5	5	0.2	10
05082	201536	50	12	46	32	4	10	0.4	10
05082	201537	50	3	19	14	2	20	0.0	10
05082	201538	50	5	19	8	0	20	0.0	10
05082	201539	50	5	11	18	1	15	0.0	10
05082	201540	50	10	56	44	3	25	0.7	0
05082	201541	50	9	32	42	3	75	0.0	0
05082	201542	50	9	131	45	1	40	0.2	0

05082	201601	50	31	58	4	4	10	0.2	0

05082	201602	50	18	34	64	2	5	0.4	5
05082	201603	50	18	58	73	11	0	0.5	0
05082	201604	50	16	72	132	4	10	0.0	0
05082	201605	50	16	39	50	3	5	0.4	0
05082	201606	50	22	26	69	1	0	0.0	0
05082	201607	50	18	31	43	2	10	0.3	5
05082	201608	50	21	45	99	3	10	0.4	0
05082	201609	50	22	48	76	4	15	0.2	0
05082	201610	50	12	16	31	2	10	0.7	0
05082	201611	50	20	47	95	3	10	0.4	0
05082	201612	50	29	63	146	4	10	0.7	0
05082	201613	50	32	62	159	3	20	0.7	0
05082	201614	50	19	53	172	2	0	0.4	10
05082	201615	50	30	57	410	4	50	0.8	10
05082	201616	50	3	9	16	1	0	0.1	5
05082	201617	50	14	51	365	29	0	0.5	0
05082	201618	50	31	52	240	16	15	1.2	0
05082	201619	50	17	36	51	1	0	0.1	0
05082	201620	50	19	25	65	2	0	0.0	5
05082	201621	50	16	44	90	3	5	0.4	0
05082	201622	50	15	41	70	4	20	0.4	0
05082	201623	50	26	134	91	3	0	0.7	5
05082	201624	50	19	49	46	1	0	0.5	0
05082	201625	50	12	38	15	1	10	0.3	0
05082	201626	50	8	29	20	2	10	0.2	5
05082	201627	50	14	31	51	2	0	0.6	0
05082	201628	50	26	88	114	3	10	0.2	0
05082	201629	50	6	8	19	0	0	0.0	0
05082	201630	50	5	11	21	2	0	0.1	0
05082	201631	50	39	9	42	0	15	0.3	0
05082	201632	50	19	15	51	0	10	10.	0
05082	201633	50	34	121	126	2	20	3.0	5
05082	201634	50	23	31	71	1	0	0.0	0
05082	201635	50	26	95	81	2	5	0.9	0
05082	201636	50	18	57	51	3	30	0.4	0
05082	201637	50	21	53	68	15	10	0.7	0
05082	201638	50	17	34	70	31	0	1.1	0
05082	201639	50	56	65	680	34	5	1.6	5
05082	201640	50	26	29	1630	13	0	0.4	5
05082	201641	50	33	33	300	3	10	0.6	0
05082	201642	50	24	28	78	3	10	0.3	0
05082	201643	50	4	82	19	1	15	101	0
05082	201644	50	4	55	16	1	0	1.7	0
05082	201645	50	10	33	21	0	0	0.9	0
05082	201646	50	3	43	19	0	0	1.6	0
05082	201647	50	8	45	26	1	20	1.1	0
05082	201648	50	9	89	21	1	10	4.0	0
05082	201649	50	9	79	42	3	0	1.9	0
05082	201650	50	20	93	49	4	30	1.2	0
05082	201651	50	2	57	16	1	0	0.5	0
05082	201652	50	8	21	24	2	30	0.2	0
05082	201653	50	5	21	24	4	0	0.2	0
05082	201654	50	2	51	38	1	20	1.1	5
05082	201655	50	2	30	12	2	5	0.3	0
05082	201656	50	34	24	51	3	15	0.4	0
05082	201657	50	10	5	16	1	70	0.3	5
05082	201658	50	6	3	15	2	0	0.0	0
05082	201659	50	14	19	24	1	5	0.5	0
05082	201660	50	10	16	18	1	5	0.3	5

05082	201543	50	11	62	65	3	45	0.4	0
05082	201544	50	11	81	24	2	10	0.2	0
05082	201545	50	46	252	100	20	30	3.1	10
05082	201546	50	23	36	66	1	20	0.0	5
05082	201547	50	8	29	19	1	0	0.6	0
05082	201548	50	1	16	3	1	0	0.0	0
05082	201549	50	10	97	54	3	0	0.6	0
05082	201550	50	16	185	51	2	35	1.1	0
05082	201551	50	14	181	56	3	40	0.5	0
05082	201552	50	20	198	74	3	30	2.9	0
05082	201553	50	17	95	75	3	30	2.6	0
05082	201554	50	12	29	26	0	30	0.3	0
05082	201555	50	20	99	47	1	0	0.3	0
05082	201556	50	6	188	0	0	15	1.2	0
05082	201557	50	14	136	19	1	15	1.4	5
05082	201558	50	19	13	69	1	20	0.0	0
05082	201559	50	12	87	14	0	35	1.3	0
05082	201560	50	19	66	95	5	15	1.0	0
05082	201561	50	41	38	71	2	230	0.0	0
05082	201562	50	16	14	40	2	0	0.0	0
05082	201563	50	8	9	18	0	20	0.3	0
05082	201564	50	16	13	99	15	25	0.3	5
05082	201565	50	23	12	50	1	20	1.2	0
05082	201566	50	20	29	36	1	5	1.2	0
05082	201567	50	21	21	48	2	25	0.5	5
05082	201568	50	18	41	59	2	45	2.2	0
05082	201569	50	13	19	31	1	20	1.5	0
05082	201570	50	12	25	34	1	0	0.4	5
05082	201571	50	9	13	24	3	20	0.3	5
05082	201572	50	8	26	24	2	55	0.4	5
05082	201573	50	9	13	25	0	0	0.2	5
05082	201574	50	11	15	52	3	20	0.1	5
05082	201575	50	20	19	236	9	5	0.9	0
05082	201576	50	12	58	269	7	0	0.6	5
05082	201577	50	16	39	204	3	10	1.2	10
05082	201578	50	12	34	63	0	10	1.0	0
05082	201579	50	10	31	116	5	0	1.1	5
05082	201580	50	20	35	109	5	20	0.5	0
05082	201581	50	15	26	45	0	5	0.5	0
05082	201582	50	11	22	39	0	10	0.1	5
05082	201583	50	10	14	31	1	0	0.4	5
05082	201584	50	16	19	40	0	40	0.4	5
05082	201585	50	8	12	20	2	0	0.4	5
05082	201586	50	12	19	41	2	10	0.3	5
05082	201587	50	12	22	70	2	15	0.0	0
05082	201588	50	15	17	38	2	0	0.2	0
05082	201589	50	14	31	87	1	10	0.3	0
05082	201590	50	12	34	70	1	20	0.6	0
05082	201591	50	16	32	66	1	10	0.8	0
05082	201592	50	14	29	65	2	15	0.2	5
05082	201593	50	13	24	44	3	15	0.2	0
05082	201594	50	15	32	64	3	0	0.2	0
05082	201595	50	10	18	23	2	15	0.4	0
05082	201596	50	16	41	70	4	40	0.2	0
05082	201597	50	15	29	67	3	10	0.0	0
05082	201598	50	21	59	125	4	20	0.0	0
05082	201599	50	11	20	21	3	10	0.1	5
05082	201600	50	26	36	29	1	0	0.9	10
05082	201601	50	31	58	4	4	10	0.2	0

05082	201661	50	11	20	21	2	10	0.3	0
05082	201662	50	28	37	70	2	15	0.2	0
05082	201663	50	34	159	116	2	0	0.3	0
05082	201664	50	28	92	191	3	0	0.5	5
05082	201665	50	14	57	96	1	20	0.9	0
05082	201666	50	8	59	78	0	65	1.0	0
05082	201667	50	3	28	65	3	10	0.8	0
05082	201668	50	6	56	88	3	0	0.9	0
05082	201669	50	2	21	19	3	10	0.2	0
05082	201670	50	12	16	33	2	15	0.1	0
05082	201671	50	13	34	54	1	5	0.2	0
05082	201672	50	22	58	92	3	0	0.8	5
05082	201673	50	12	29	43	0	0	0.8	0
05082	201674	50	26	132	101	3	20	1.3	0
05082	201675	50	12	29	26	1	5	0.3	0
05082	201676	50	9	31	22	2	5	0.8	0
05082	201677	50	19	142	84	2	0	0.6	0
05082	201678	50	17	42	175	6	30	0.0	0
05082	201679	50	25	51	149	3	0	0.3	0
05082	201680	50	33	69	150	2	30	0.3	0
05082	201681	50	24	63	146	2	10	0.8	5
05082	201682	50	86	78	120	3	10	0.5	5
05082	201683	50	7	42	40	2	30	1.0	0
05082	201684	50	11	58	55	3	20	0.5	0
05082	201685	50	8	39	33	2	25	0.4	0
05082	201686	50	17	48	69	3	30	0.5	0
05082	201687	50	16	50	50	5	10	0.7	0
05082	201688	50	18	33	68	2	25	0.1	0
05082	201689	50	14	25	65	0	0	0.0	0
05082	201690	50	48	43	130	3	30	0.2	40
05082	201691	50	23	39	95	5	10	0.8	0
05082	201692	50	15	25	300	3	10	0.2	10
05082	201693	50	12	13	49	2	10	0.1	0
05082	201694	50	14	23	52	2	80	0.1	0
05082	201695	50	10	56	61	0	0	1.5	0
05082	201696	50	43	31	73	1	5	1.6	0
05082	201697	50	5	12	11	0	0	0.3	0
05082	201698	50	14	19	26	1	0	0.2	0
05082	201699	50	7	16	20	2	0	0.1	0
05082	201700	50	11	22	33	1	10	0.2	0
05082	201701	50	45	38	204	1	20	1.6	5
05082	201702	50	28	24	500	4	15	0.5	20
05082	201703	50	25	49	122	3	10	3.1	5
05082	201704	50	29	34	111	1	0	0.8	0
05082	201705	50	23	43	115	1	0	1.1	0
05082	201706	50	17	33	120	3	10	0.6	0
05082	201707	50	12	18	62	2	0	0.2	0
05082	201708	50	16	21	74	1	0	0.0	0
05082	201709	50	16	27	45	1	0	0.4	0
05082	201710	50	35	560	120	1	10	0.8	10
05082	201711	50	17	241	51	2	15	0.1	5
05082	201712	50	11	44	34	1	30	0.4	0
05082	201713	50	14	53	39	1	10	0.1	0
05082	201714	50	21	29	41	2	0	0.0	0
05082	201715	50	14	38	36	1	5	0.0	0
05082	201716	50	25	281	119	3	25	0.4	0
05082	201717	50	16	62	48	1	15	1.1	0
05082	201718	50	13	81	42	1	0	0.0	0
05082	201719	50	24	430	116	1	0	0.6	0

05082	201718	50	13	81	42	1	0	0.6	0
05082	201719	50	24	430	116	1	0	0.6	0

05082	201720	50	16	151	69	2	10	0.3	5
05082	201721	50	9	113	70	0	10	0.2	0
05082	201722	50	26	520	116	1	20	0.4	5
05082	201723	50	13	24	40	0	5	0.1	0
05082	201724	50	11	25	44	1	0	0.2	5
05082	201725	50	14	86	69	1	0	0.1	0
05082	201726	50	17	83	49	3	5	0.1	0
05082	201727	50	16	34	49	3	20	0.4	5
05082	201728	50	15	25	51	1	10	0.2	0
05082	201729	50	13	41	43	1	25	0.0	0
05082	201730	50	18	39	46	0	5	0.2	5
05082	201731	50	26	131	91	0	20	0.2	0
05082	201732	50	21	62	45	0	0	0.2	5
05082	201733	50	15	56	86	1	0	0.1	0
05082	201734	50	24	1390	109	1	0	0.5	0
05082	201735	50	16	373	52	1	0	0.4	10
05082	201736	50	22	150	44	0	25	0.4	10
05082	201737	50	19	145	65	1	0	0.5	10
05082	201738	50	20	106	51	1	20	0.6	0
05082	201739	50	19	42	66	1	0	0.3	10
05082	201740	50	24	86	70	2	10	0.5	10
05082	201741	50	21	23	52	1	0	0.3	5
05082	201742	50	18	18	43	1	0	0.1	0
05082	201743	50	20	18	45	2	20	0.2	0
05082	201744	50	19	24	62	0	5	0.3	10
05082	201745	50	19	30	84	2	0	0.1	5
05082	201746	50	21	21	75	3	20	0.3	5
05082	201747	50	20	32	84	2	0	0.4	5
05082	201748	50	29	43	125	2	10	0.5	10
05082	201749	50	33	46	118	2	15	0.9	5
05082	201750	50	23	40	107	3	0	0.5	5
05082	201751	50	24	26	115	2	0	1.1	5
05082	201752	50	26	34	76	1	20	0.9	5
05082	201753	50	24	41	74	1	5	0.3	5
05082	201754	50	28	29	90	2	10	0.5	0
05082	201755	50	29	51	72	1	10	0.4	0
05082	201756	50	16	18	43	0	0	0.1	5
05082	201757	50	20	21	68	2	25	0.1	0
05082	201758	50	14	25	43	2	10	1.0	5
05082	201759	50	14	28	67	2	10	0.5	10
05082	201760	50	22	37	66	3	5	0.6	10
05082	202064	50	23	83	89	4	0	0.6	0
05082	202065	50	17	42	49	3	0	0.0	0
05082	202066	50	12	95	67	3	0	0.4	0
05082	202067	50	13	52	46	2	0	0.5	0
05082	202068	50	25	121	85	2	20	0.5	10
05082	202069	50	19	21	39	1	10	0.5	0
05082	202070	50	16	19	39	2	0	0.3	0
05082	202071	50	17	20	54	1	5	0.0	0
05082	202072	50	20	27	93	2	10	0.2	0
05082	202073	50	22	24	86	4	15	0.1	5
05082	202074	50	19	26	62	3	0	0.0	5
05082	202175	50	15	24	44	1	5	0.3	20
05082	202176	50	13	46	0	13	10	5	0.4
05082	202177	50	34	111	109	2	10	1.2	0
05082	202178	50	20	44	58	1	0	0.0	10
05082	202179	50	7	23	27	0	10	0.1	0
05082	202180	50	24	81	94	2	5	0.6	5
05082	202181	50	49	1400	388	3	0	1.1	10

05082	202182	50	25	69	119	4	10	0.5	5
05082	202183	50	33	83	115	0	15	0.2	5
05082	202184	50	16	237	149	2	0	0.2	5
05082	202185	50	28	214	158	3	10	0.2	0
05082	202186	50	20	95	111	2	0	0.0	0
05082	202187	50	34	2170	149	1	0	1.9	20
05082	202188	50	14	60	51	3	5	0.1	20
05082	202189	50	17	45	55	0	5	0.5	20
05082	202190	50	33	86	76	1	40	0.9	5
05082	202191	50	18	70	32	2	15	0.4	5
05082	202192	50	6	30	23	2	0	0.4	5
05082	202193	50	27	460	76	0	5	1.1	5
05082	202194	50	25	30	38	0	100	0.8	0
05082	202195	50	31	29	59	0	0	0.7	0
05082	202196	50	5	9	16	1	20	0.2	20
05082	202197	50	16	18	57	2	0	0.0	0
05082	202198	50	18	15	54	1	0	0.1	5
05082	202199	50	13	15	80	2	0	0.2	5
05082	202200	50	62	520	670	80	10	1.2	30
05082	202201	50	37	193	256	9	10	0.6	10
05082	202202	50	23	34	110	10	0	0.3	10
05082	202203	50	21	27	51	2	15	0.7	10
05082	202204	50	11	15	35	1	5	0.1	20
05082	202205	50	16	19	62	1	0	0.8	0
05082	202206	50	22	40	71	1	5	0.3	0
05082	202207	50	26	46	94	0	0	0.5	10
05082	202208	50	27	49	96	2	0	0.4	10
05082	202209	50	21	51	117	3	10	0.3	10
05082	202210	50	12	20	43	2	5	0.5	20
05082	202211	50	23	44	92	2	45	0.1	10
05082	202212	50	11	21	41	1	10	0.7	20
05082	202213	50	14	23	59	2	0	0.4	5
05082	202214	50	15	39	83	1	0	0.2	5
05082	202215	50	18	40	119	2	15	0.8	0
05082	202216	50	19	32	96	2	0	0.2	0
05082	202217	50	13	54	105	2	10	1.1	0
05082	202218	50	11	21	51	1	15	0.1	20
05082	202219	50	10	21	52	2	10	0.3	20
05082	202220	50	14	26	54	4	10	0.3	20
05082	202221	50	25	30	134	4	5	0.7	20
05082	202222	50	23	28	173	4	15	0.0	5
05082	202223	50	25	46	135	5	0	0.5	0
05082	202224	50	24	37	76	3	5	0.4	0
05082	202225	50	23	42	102	4	0	0.3	0
05082	202226	50	17	19	49	2	10	0.3	10
05082	202227	50	21	20	57	2	10	0.2	10
05082	202228	50	25	26	89	2	0	0.4	20
05082	202229	50	19	19	81	3	20	0.1	20
05082	202230	50	19	41	92	2	20	0.9	10
05082	202336	50	11	23	51	2	15	0.0	0
05082	202337	50	19	25	67	1	10	0.4	0
05082	202338	50	6	21	26	2	20	0.6	20
05082	202339	50	15	92	64	3	5	1.9	20
05082	202340	50	16	35	69	2	20	0.5	5
05082	202341	50	15	44	59	3	0	0.3	5
05082	202342	50	19	43	81	5	10	0.1	10
05082	202343	50	17	64	87	5	5	0.1	10
05082	202344	50	24	65	74	6	20	0.5	10
05082	202345	50	14	43	79	3	20	0.6	5

05082	202344	50	24	65	74	6	20	0.5	10
05082	202345	50	14	43	79	3	20	0.6	5

05082	202346	50	28	1800	890	6	30	4.0	5
05082	202347	50	5	67	44	1	0	0.0	0
05082	202348	50	26	4200	530	1	5	2.1	5
05082	202349	50	12	40	54	1	5	0.1	0
05082	202350	50	23	23	77	0	5	0.3	5
05082	202351	50	62	1710	860	2	5	0.8	10
05082	202352	50	16	22	56	2	5	0.0	0
05082	202353	50	19	15	49	2	25	0.4	5
05082	202354	50	10	12	35	1	10	0.1	0
05082	202355	50	24	19	53	2	5	0.4	0
05082	202356	50	18	22	45	2	15	0.0	10
05082	202357	50	14	16	37	1	15	0.0	10
05082	202358	50	18	15	36	1	0	0.2	0
05082	202359	50	24	12	46	3	10	0.6	0
05082	202360	50	27	23	130	3	10	0.1	10
05082	202361	50	13	15	57	3	5	0.1	0
05082	202416	50	11	10	29	1	5	0.1	5

***** END REPORT *****

YANKS PEAK PROJECT

Rock Sample Listing

Cu, Pb, Zn, Mo, W, and Ag in ppm

Au in ppb

YANKS PEAK PROJECT - ROCK GEOCHEMISTRY

FEB 3, 1983. BY P. A. H.

SUMMARY STATISTICS

SUBSET	VARIABLE		UNITS	N	ARITH MEAN	STD DEV	CV %	SKEW	EXCESS KURT	95% LIMITS ON MEAN		GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN	
TOTAL	CU	AA	PPM	134	9.46	11.2	118.2	3.24	14.96	7.55	11.4	5.79	.7629	.4336	4.88	6.67
TOTAL	PB	AA	PPM	131	22.6	33.0	150.3	3.57	16.70	16.3	27.7	10.7	1.0303	.5263	8.70	13.2
TOTAL	ZN	AA	PPM	137	43.6	63.5	145.8	3.74	20.80	32.8	54.3	18.5	1.2670	.6332	14.5	23.7
TOTAL	MO	AA	PPM	120	3.19	4.01	125.6	4.22	18.53	2.47	3.92	2.34	.3688	.2960	2.07	2.64
TOTAL	W	AA	PPM	59	8.39	9.53	113.6	3.79	15.16	5.91	10.9	6.53	.8151	.2482	5.63	7.58
TOTAL	AU	AA	PPB	75	20.7	42.6	205.7	6.53	46.33	10.9	30.5	12.7	1.1029	.3428	10.6	15.2
TOTAL	AG	AA	PPM	80	.270	.246	91.0	2.86	9.52	.215	.325	.209	-.6797	.2915	.180	.243

SUBSET	VARIABLE		UNITS	N	MIN VALUE	PERCENTILE 25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH	MAX VALUE
TOTAL	CU	AA	PPM	134	1.000	3.000	6.000	11.000	12.000	24.000	33.000	46.000	84.000	84.000
TOTAL	PB	AA	PPM	131	1.000	5.000	11.000	21.000	26.000	69.000	91.000	111.000	244.000	244.000
TOTAL	ZN	AA	PPM	137	.100	6.000	22.000	57.000	74.000	112.000	175.000	220.000	510.000	510.000
TOTAL	MO	AA	PPM	120	1.000	2.000	2.000	3.000	3.000	4.000	9.000	25.000	26.000	26.000
TOTAL	W	AA	PPM	59	5.000	5.000	5.000	5.000	10.000	10.000	30.000	60.000	60.000	60.000
TOTAL	AU	AA	PPB	75	5.000	10.000	10.000	20.000	20.000	30.000	65.000	130.000	350.000	350.000
TOTAL	AG	AA	PPM	80	.100	.100	.200	.300	.300	.500	.900	1.200	1.500	1.500

*** MAPPER SYSTEM *** SUNCOR INC

DATE 020383 PAGE 1

.DATE . 16:15:19 RID 17 03 FEB 83 PHAWK

*PRJYR	.SAMPLE	.ROCK	.RS	.CU	.PB	.ZN	.MO	.W	.AU	.AG
*	.NUMBER	.TYPE	.	.AA	.AA	.AA	.AA	.AA	.AA	.AA
05082	CP0002	80		19	8	49	2	10	0	0.3
05082	CP0003	80		27	5	5	2	5	0	0.0
05082	CP0004	80		5	3	10	3	5	5	0.1
05082	CP0005	80		9	10	39	2	0	10	0.0
05082	CP0006	80		2	4	15	3	5	0	0.0
05082	CP0007	80		3	2	4	3	5	0	0.1
05082	CP0008	80		37	11	143	1	0	40	0.0
05082	CP0009	80		26	10	11	3	0	130	0.1
05082	CP0010	80		6	5	25	3	0	0	0.2
05082	CP0011	80		10	2	23	3	5	80	0.1
05082	CP0012	80		6	6	90	2	0	10	0.0
05082	CP0013	80		14	6	189	1	0	10	0.0
05082	CP0014	80		2	1	5	4	5	10	0.0
05082	CP0015	80		2	0	2	4	5	10	0.0
05082	CP0016	80		9	9	68	1	10	10	0.0
05082	CP0017	80		2	0	7	3	0	15	0.1
05082	CP0018	80		4	1	2	2	0	5	0.0
05082	CP0019	80		2	0	9	3	0	0	0.1
05082	CP0020	80		2	3	3	2	10	0	0.1
05082	CP0021	80		10	14	191	1	10	10	0.0
05082	CP0022	80		9	16	100	1	10	15	0.0
05082	CP0023	80		6	5	23	3	5	5	0.0
05082	CP0024	80		4	2	2	4	0	0	0.0
05082	CP0025	80		3	2	4	3	0	30	0.0
05082	CP0026	80		5	4	18	3	0	5	0.0
05082	CP0027	80		2	0	1	3	0	5	0.0
05082	CP0028	80		4	0	1	3	0	5	0.0
05082	CP0029	80		3	1	2	3	0	5	0.0
05082	CP0030	80		33	81	86	1	10	10	0.0
05082	CP0031	80		9	1	4	3	5	10	0.0
05082	CP0032	80		3	16	9	4	5	10	0.0
05082	CP0033	80		2	0	6	3	5	10	0.0
05082	CP0034	80		21	15	97	1	10	0	0.1
05082	CP0035	80		14	8	35	3	5	5	0.1
05082	CP0036	80		3	2	9	3	0	20	0.0
05082	CP0037	80		18	10	51	1	5	65	0.2
05082	CP0038	80		12	42	74	2	5	0	0.1
05082	CP0039	80		30	18	142	2	0	5	0.2
05082	CP0040	80		12	105	20	3	10	0	1.2
05082	CP0041	80		10	86	22	3	0	0	0.2
05082	CP0042	80		6	3	16	3		0	0.0
05082	CP0043	80		8	17	50	2	0	10	0.0
05082	CP0044	80		9	8	16	2	0	0	0.7
05082	CP0045	80		10	14	75	1	0	0	0.2
05082	CP0046	80		4	2	6	2	0	0	0.6
05082	CP0047	80		6	6	8	2	0	0	0.4
05082	CP0050	80		15	24	70	1	5	0	0.3
05082	CP0051	80		15	20	23	3	0	10	0.1
05082	CP0052	80		5	14	19	3	0	0	0.3
05082	CP0053	80		8	18	6	3	0	0	0.2
05082	CP0054	80		11	106	28	3	0	0	0.4
05082	CP0055	80		8	18	86	2	5	0	0.1
05082	CP0056	80		6	18	19	3	0	0	0.3
05082	CP0057	80		26	26	22	3	5	10	0.4
05082	CP0058	80		11	4	16	4	5	0	0.3

05082	CP0057	80	26	26	22	3	5	10	0.3
05082	CP0058	80	11	4	16	4	5	0	0.3

05082	CP0059	80	14	16	37	2	0	0	0.2
05082	CP0060	80	10	4	12	2	0	0	0.4
05082	CP0061	80	7	2	5	2	0	0	0.1
05082	CP0062	80	10	5	16	2	5	0	0.2
05082	CP0087	80	8	21	28	0	5	0	0.3
05082	CP0088	80	5	14	12	0	5	30	0.3
05082	CP0089	80	3	3	4	0	5	0	0.2
05082	CP0090	80	2	6	8	0	5	0	0.3
05082	CP0091	80	10	34	36	0	5	0	0.3
05082	CP0092	80	84	12	62	0	0	15	0.0
05082	CP0093	80	47	18	220	2	0	15	0.0
05082	CP0094	80	9	9	25	1	0	5	0.0
05082	CP0095	80	5	2	6	1	0	0	0.0
05082	CP0096	80	8	8	42	1	5	10	0.0
05082	CP0097	80	14	18	246	9	60	5	0.0
05082	CP0098	80	7	3	6	0	0	10	0.2
05082	CP0099	80	33	8	8	1	5	10	0.1
05082	CP0100	80	12	21	112	3	0	10	0.1
05082	CP0115	80	3	2	4	0	5	10	0.0
05082	CP0116	80	5	1	2	0	5	20	0.0
05082	CP0117	80	6	9	57	2	5	0	0.0
05082	CP0118	80	11	3	30	0	0	0	0.0
05082	CP0119	80	9	2	25	1	5	0	0.0
05082	CP0120	80	24	5	157	1	0	10	0.0
05082	CP0121	80	3	5	4	1	0	0	0.0
05082	CP0122	80	9	69	80	1	5	20	0.9
05082	CP0123	80	2	32	17	0	5	350	0.0
05082	CP0124	80	5	91	37	0	5	5	0.2
05082	CP0125	80	2	11	14	0	5	25	0.0
05082	CP0126	80	2	1	5	0	0	10	0.0
05082	CP0127	80	1	1	6	0	0	0	0.0
05082	CP0166	80	9	12	15	3	30	15	0.2
05082	CP0167	80	4	7	2	4	0	0	0.4
05082	CP0168	80	3	19	96	17	40	15	0.5
05082	CP0169	80	8	21	30	5	0	10	0.2
05082	CP0170	80	36	15	74	3	0	15	0.1
05082	CP0171	80	46	34	115	3	0	20	0.3
05082	CP0172	80	5	6	7	2	0	20	0.2
05082	CP0173	80	2	5	1	2	5	20	0.1
05082	CP0174	80	2	24	46	1	0	0	0.2
05082	CP0175	80	2	4	6	1	0	15	0.0
05082	CP0176	80	5	18	15	1	5	10	0.0
05082	CP0177	80	10	45	93	5	5	20	0.0
05082	CP0178	80	16	16	51	1	0	0	0.2
05082	CP0179	80	2	17	7	3	0	20	0.1
05082	CP0180	80	1	5	45	2	0	0	0.0
05082	CP0181	80	1	2	5	2	0	10	0.0
05082	CP0182	80	2	8	1	3	0	45	0.1
05082	CP0183	80	6	36	45	2	0	10	0.1
05082	CP0184	80	1	41	3	3	0	0	0.2
05082	CP0185	80	1	7	1	2	0	20	0.3
05082	CP0186	80	6	11	23	0	0	20	0.1
05082	CP0187	80	2	26	8	1	0	5	0.0
05082	CP0188	80	1	8	30	3	0	5	0.0
05082	CP0230	80	3	111	7	3	5	0	1.0
05082	CP0231	80	22	34	125	2	5	0	0.0
05082	CP0232	80	23	25	119	3	0	0	0.1
05082	CP0233	80	2	38	9	2	0	0	0.5
05082	CP0234	80	26	39	65	1	0	0	0.2

05082	CP0235	80	1	17	19	5	0	0	0.2
05082	CP0236	80	5	11	96	3	0	0	0.0
05082	CP0237	80	4	11	190	21	5	5	0.1
05082	CP0238	80	1	13	56	4	0	0	0.0
05082	CP0239	80	5	9	16	1		0	0.0
05082	CP0240	80	4	18	39	1	0	10	0.0
05082	CP0241	80	12	244	22	1	0	0	0.2
05082	CP0242	80	11	69	4	2	0	5	0.1
05082	CP0243	80	6	13	175	25	10	5	0.3
05082	CP0244	80	19	11	8	2	5	0	0.2
05082	CP0245	80	5	9	49	1	5	0	0.1
05082	CP0246	80	8	68	64	2	0	20	0.3
05082	CP0247	80	0	24	30	2	0	30	0.1
05082	CP0248	80	1	7	37	1	0	15	0.0
05082	CP0249	80	9	75	0.1	3		0	15
05082	CP0250	80	1	5	1	2	0	0	0.2
05082	CP0251	80	3	25	42	0	5	0	0.2
05082	CP0252	80	4	156	23	2	5	0	0.3
05082	CP0253	80	1	94	84	9	5	15	0.4
05082	CP0254	80	2	73	510	15	20	0	0.3
05082	CP0255	80	0	3	6	3	0	0	0.1
05082	CP0256	80	1	26	58	26	30	10	0.5
05082	CP0257	80	0	17	15	3	0	10	0.0

***** END REPORT *****

YANKS PEAK PROJECT

Stream Sediment Listing

Cu, Pb, Zn, Mo, W, and Ag in ppm

Au in ppb

YANKS PEAK PROJECT - STREAM SEDIMENT GEOCHEMISTRY FEB 7, 1983. BY PAUL A. HAWKINS

SUMMARY STATISTICS

SUBSET	VARIABLE		UNITS	N	ARITH MEAN	STD DEV	CV %	SKEW	EXCESS KURT	95% LIMITS ON MEAN		GEOM MEAN	LOG 10 MEAN	STD DEV	95% LIMITS ON MEAN	
TOTAL	CU	AA	PPM	144	82.0	72.7	88.7	1.05	-.30	70.1	94.0	55.4	1.7434	.3958	47.7	64.4
TOTAL	PB	AA	PPM	144	74.2	58.7	79.0	2.06	5.38	64.6	83.9	57.0	1.7561	.3201	50.5	64.4
TOTAL	ZN	AA	PPM	144	327.	382.	116.7	2.91	8.99	264.	390.	202.	2.3056	.4926	168.	244.
TOTAL	MO	AA	PPM	137	2.70	1.35	49.9	1.14	2.45	2.47	2.93	2.38	.3769	.2254	2.18	2.60
TOTAL	AU	AA	PPB	84	21.9	52.2	236.2	7.39	58.10	10.6	33.2	12.8	1.1056	.3502	10.7	15.2
TOTAL	AG	AA	PPM	122	.361	.307	85.1	2.81	10.19	.306	.416	.279	-.5542	.3056	.246	.317
TOTAL	W	AA	PPM	111	9.82	6.29	64.0	1.58	2.00	8.64	11.0	8.36	.9223	.2361	7.55	9.26

SUBSET	VARIABLE		UNITS	N	MIN VALUE	PERCENTILE 25TH	50TH	75TH	80TH	90TH	95TH	98TH	99TH	MAX VALUE
TOTAL	CU	AA	PPM	144	5.000	35.000	44.000	136.000	171.000	192.000	244.000	257.000	269.000	269.000
TOTAL	PB	AA	PPM	144	10.000	28.000	67.000	91.000	97.000	136.000	221.000	291.000	348.000	348.000
TOTAL	ZN	AA	PPM	144	.100	147.000	204.000	359.000	378.000	640.000	1390.000	1840.000	2260.000	2260.000
TOTAL	MO	AA	PPM	137	1.000	2.000	3.000	3.000	4.000	4.000	5.000	7.000	8.000	8.000
TOTAL	AU	AA	PPB	84	5.000	10.000	10.000	20.000	20.000	35.000	45.000	150.000	460.000	460.000
TOTAL	AG	AA	PPM	122	.100	.200	.300	.400	.500	.700	.800	1.800	1.900	1.900
TOTAL	W	AA	PPM	111	5.000	5.000	10.000	10.000	10.000	20.000	20.000	30.000	30.000	30.000

*** MAPPER SYSTEM *** SUNCOR INC DATE 020783 PAGE 1

.DATE 08:56:01 RID 20 07 FEB 83 PHAWK

*PRJYR	.SAMPLE.NUMBER	.ROCK.TYPE.	.RS.	.CU .AA(PPM)	.PB .AA(PPM)	.ZN .AA(PPM)	.MO .AA(PPM)	.AU .AA(PPB)	.AG .AA(PPM)	.W .AA(PPM)	.	.	.	.	.	.	.
C5082	200125	10	29	18	148	1	0	0.2									
C5082	200126	10	32	19	146	1	0	0.0	5								
C5082	200127	10	37	32	150	2	0	0.0	5								
C5082	200128	10	30	28	145	0	10	0.3	0								
C5082	200129	10	35	24	196	1	0	0.3	0								
C5082	200130	10	27	19	120	2	0	0.2	0								
C5082	200131	10	38	29	168	1	0	0.0	0								
C5082	200132	10	60	25	156	2	0	0.3	0								
C5082	200133	10	49	21	140	2	0	0.3	5								
C5082	200134	10	48	26	147	0	0	0.2	5								
C5082	200135	10	56	59	246	3	10	0.1	10								
C5082	200136	10	41	21	144	1	15	0.1	10								
C5082	200137	10	45	38	223	3	5	0.3	10								
C5082	200138	10	39	22	156	1	0	0.0	5								
C5082	200139	10	36	25	158	2	0	0.1	5								
C5082	200140	10	34	27	134	1	5	0.2	0								
C5082	200141	10	33	20	131	2	0	0.2	0								
C5082	200142	10	36	23	157	1	5	0.1	5								
C5082	200143	10	38	27	178	1	0	0.2	5								
C5082	200144	10	39	26	151	2	5	0.2	0								
C5082	200145	10	36	25	150	1	5	0.1	5								
C5082	200146	10	38	25	156	2	10	0.2	5								
C5082	200147	10	38	31	144	1	0	0.0	5								
C5082	200148	10	51	44	223	3	0	0.1	5								
C5082	200149	10	40	24	167	1	5	0.2	0								
C5082	200150	10	49	43	206	2	10	0.6	5								
C5082	200151	10	45	41	196	2	5	0.4	5								
C5082	200152	10	38	29	137	0	5	0.0	10								
C5082	200153	10	40	28	157	1	10	0.0	10								
C5082	200154	10	37	24	126	0	10	0.1	0								
C5082	200435	10	16	20	42	1	10	0.8	0								
C5082	200436	10	22	16	47	1	20	0.4	0								
C5082	200437	10	16	20	44	1	0	0.3	20								
C5082	200438	10	10	16	26	1	0	0.0	20								
C5082	200445	10	9	11	14	0	10	0.1	10								
C5082	200446	10	19	23	45	1	10	0.3	10								
C5082	200447	10	20	23	52	0	0	1.2	5								
C5082	200448	10	20	24	50	2	0	0.4	5								
C5082	200449	10	16	21	28	2	10	0.3	5								
C5082	200450	10	27	26	70	0	150	0.4	5								
C5082	200451	10	18	21	42	1	0	0.6	5								
C5082	200452	10	17	22	41	1	10	0.0	5								
C5082	200453	10	28	26	76	2	0	0.1	0								
C5082	201315	10	236	97	410	3	5	0.4	10								
C5082	202233	10	56	106	201	5	0	0.4	5								
C5082	202234	10	47	70	188	2	5	0.3	10								
C5082	202235	10	44	70	209	4	10	0.2	0								
C5082	202236	10	46	59	203	3	10	0.0	0								
C5082	202237	10	45	66	182	2	0	0.0	0								
C5082	202238	10	43	72	167	3	0	0.2	20								
C5082	202239	10	42	74	169	2	0	0.2	20								
C5082	202240	10	45	68	188	1	0	0.2	5								
C5082	202241	10	53	75	0.1	3	5	0	5								
C5082	202242	10	44	63	213	3	5	0.1	0								
C5082	202243	10	49	69	204	3	0	0.0	0								

05082	202242	10	44	83	215	3	5	0.1	0
05082	202243	10	49	69	204	3	0	0.0	0

05082	202244	10	32	46	1840	3	0	0.0	5
05082	202245	10	24	41	91	2	5	0.1	20
05082	202246	10	27	46	96	3	10	0.0	10
05082	202247	10	33	67	168	2	10	0.1	30
05082	202248	10	41	121	175	2	0	0.2	30
05082	202249	10	41	66	182	2	0	0.4	30
05082	202250	10	47	76	203	3	0	0.3	20
05082	202251	10	44	83	179	3	10	0.4	10
05082	202252	10	45	92	175	2	5	0.4	10
05082	202253	10	45	74	233	3	0	0.3	20
05082	202254	10	44	65	238	4	0	0.1	5
05082	202255	10	42	70	334	5	0	0.2	10
05082	202256	10	44	79	305	3	15	0.2	10
05082	202257	10	39	65	291	4	15	0.5	10
05082	202258	10	33	59	319	3	5	0.1	20
05082	202259	10	40	68	243	4	0	0.1	20
05082	202260	10	46	66	224	3	0	0.3	30
05082	202261	10	49	91	272	5	0	0.1	10
05082	202262	10	46	70	286	4	10	0.3	10
05082	202263	10	48	74	301	5	30	0.3	5
05082	202264	10	44	79	310	5	20	0.2	10
05082	202266	10	40	70	219	3	25	0.4	0
05082	202267	10	36	59	176	2	10	0.3	20
05082	202268	10	34	58	165	2	10	0.1	20
05082	202269	10	39	66	172	3	15	0.1	20
05082	202270	10	42	64	202	3	10	0.0	5
05082	202271	10	40	70	195	3	0	0.1	5
05082	202272	10	42	72	222	3	40	0.3	20
05082	202284	10	141	230	960	5	40	0.0	0
05082	202285	10	127	224	940	3	20	0.3	5
05082	202286	10	135	221	1070	4	95	0.9	5
05082	202287	10	133	163	1560	4	45	0.3	10
05082	202288	10	106	291	1090	2	10	0.4	10
05082	202289	10	129	348	1730	4	25	0.1	10
05082	202290	10	162	236	1880	3	40	0.1	10
05082	202291	10	168	176	2260	4	30	0.2	10
05082	202292	10	67	101	510	2	20	0.2	10
05082	202293	10	156	180	1590	3	0	0.0	10
05082	202294	10	81	125	1390	2	0	0.2	10
05082	202295	10	66	60	327	3	20	0.4	10
05082	202296	10	119	136	780	1	20	0.1	5
05082	202297	10	136	125	790	3	460	0.3	10
05082	202298	10	194	90	630	2	0	0.1	10
05082	202299	10	185	142	550	3	20	0.5	5
05082	202300	10	189	96	640	3	10	0.4	5
05082	202301	10	257	95	510	3	5	0.6	20
05082	202302	10	269	156	570	3	10	0.6	10
05082	202303	10	188	117	480	2	20	0.2	10
05082	202304	10	219	93	440	2	10	0.4	20
05082	202305	10	181	74	364	1	10	0.4	10
05082	202306	10	247	78	440	2	10	0.5	5
05082	202307	10	192	80	367	2	20	0.3	5
05082	202308	10	248	82	378	3	5	0.7	10
05082	202309	10	171	79	309	2	0	0.3	10
05082	202310	10	179	96	338	4	0	0.8	10
05082	202311	10	263	122	490	5	0	0.7	5
05082	202312	10	192	94	352	3	0	0.6	10
05082	202313	10	244	110	430	3	0	0.4	5
05082	202314	10	179	87	359	3	0	0.6	5

*** MAPPER SYSTEM *** SUNCOR INC

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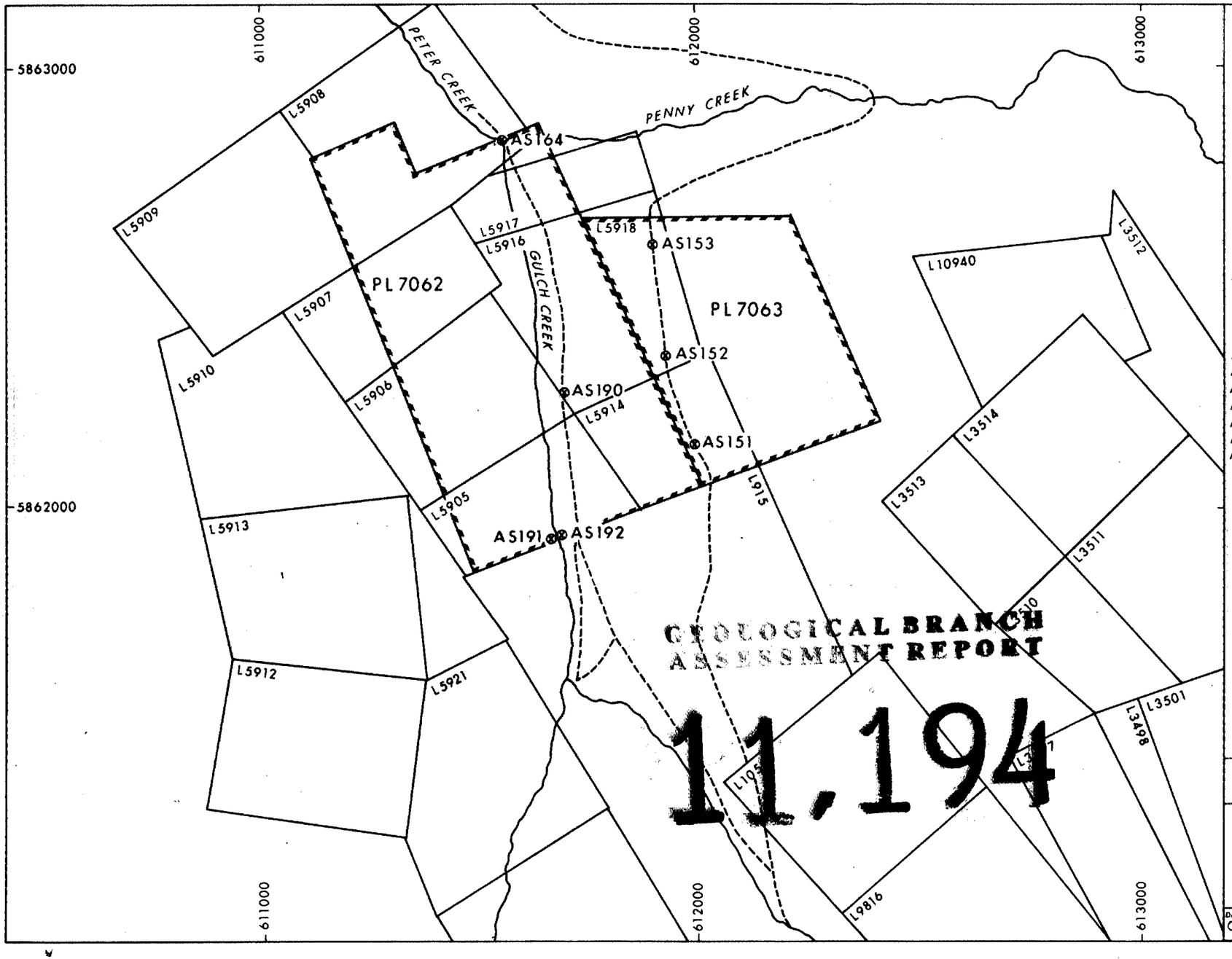
C5082	202316	10	197	120	371	3	25	0.5	10
C5082	202317	10	190	112	334	2	15	0.6	5
C5082	202318	10	256	68	480	4	30	0.5	5
C5082	202319	10	167	87	298	4	30	0.7	5
C5082	202320	10	189	124	377	4	0	0.5	5
C5082	202321	10	181	99	359	4	10	1.9	10
C5082	202322	10	213	107	420	4	10	0.3	10
C5082	202323	10	195	65	399	3	20	0.6	10
C5082	202324	10	171	67	336	2	10	0.0	5
C5082	202325	10	173	90	364	4	0	0.2	10
C5082	202326	10	175	73	359	3	5	0.2	0
C5082	202327	10	168	78	313	2	0	0.7	0
C5082	202328	10	39	37	147	2	0	0.0	0
C5082	202329	10	119	89	251	3	20	0.5	0
C5082	202330	10	124	64	284	3	0	0.5	5
C5082	202331	10	122	68	295	4	10	0.2	0
C5082	202332	10	188	74	319	4	10	0.3	0
C5082	202333	10	122	69	304	4	0	0.4	0
C5082	202364	10	15	16	43	1	0	0.0	0
C5082	202365	10	14	10	28	1	0	0.2	0
C5082	202366	10	10	36	74	5	0	0.0	5
C5082	202367	10	19	37	83	3	35	0.3	0
C5082	202368	10	38	121	176	8	10	0.5	0
C5082	202369	10	29	218	219	8	15	0.1	5
C5082	202370	10	6	62	55	7	10	0.8	5
C5082	202371	10	5	305	16	1	0	1.8	5
C5082	202372	10	17	40	124	3	10	1.7	5
C5082	202373	10	9	33	71	2	0	0.2	0
C5082	202374	10	18	35	96	3	0	0.3	5
C5082	202375	10	12	18	38	2	0	0.1	10

***** END REPORT *****



LEGEND

x AS153 SAMPLE LOCATION

------- ROAD

O TEST PIT LOCATION

TEST PIT RESULTS

S/N	Concentration Factor (Estimated)	Au oz./ton	Ag oz./ton	W %
AS151	100	.012	.16	T
AS152	100	.032	.12	T
AS153	100	T	.44	0.054
AS164	100	T	1.36	T
AS190	100	.024	.06	.008
AS191	100	.090	.39	3.510
AS192	100	.010	.08	.006

T = TRACE

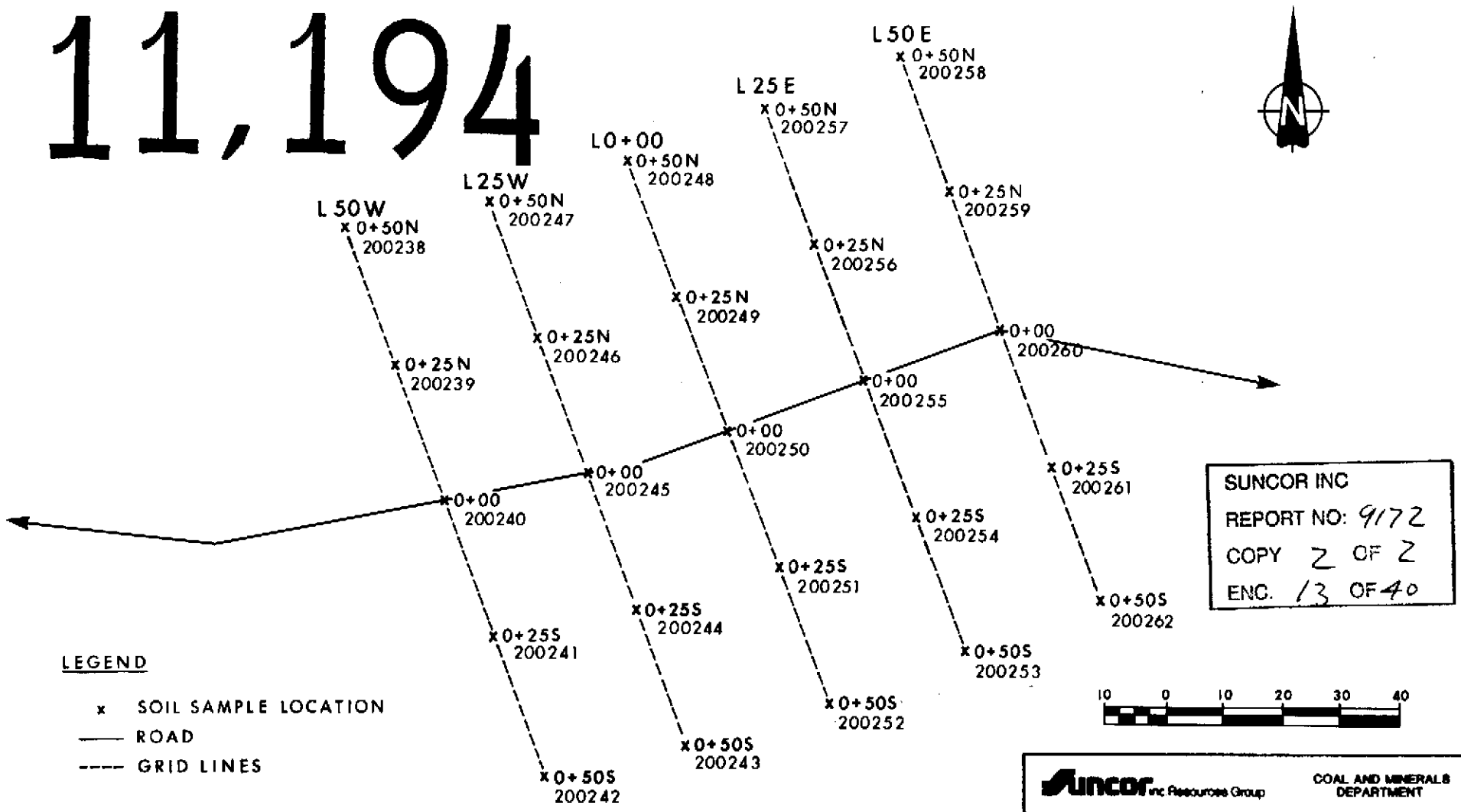
Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

PLACER TEST PIT LOCATIONS
ROUNDTOP MOUNTAIN PLACER LEASE
(PL7062, PL7063)
ROUNDTOP MOUNTAIN PROJECT
CARIBOO LAKE AREA, B.C.

DATE	SCALE	N.T.S.	DRAWING No.
Oct., 1982	1:10,000	93A/14	82-227

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,194



LEGEND

x SOIL SAMPLE LOCATION
—— ROAD
---- GRID LINES

SUNCOR INC
REPORT NO: 9172
COPY 2 OF 2
ENC. 13 OF 40

Suncor Inc Resources Group — COAL AND MINERALS DEPARTMENT

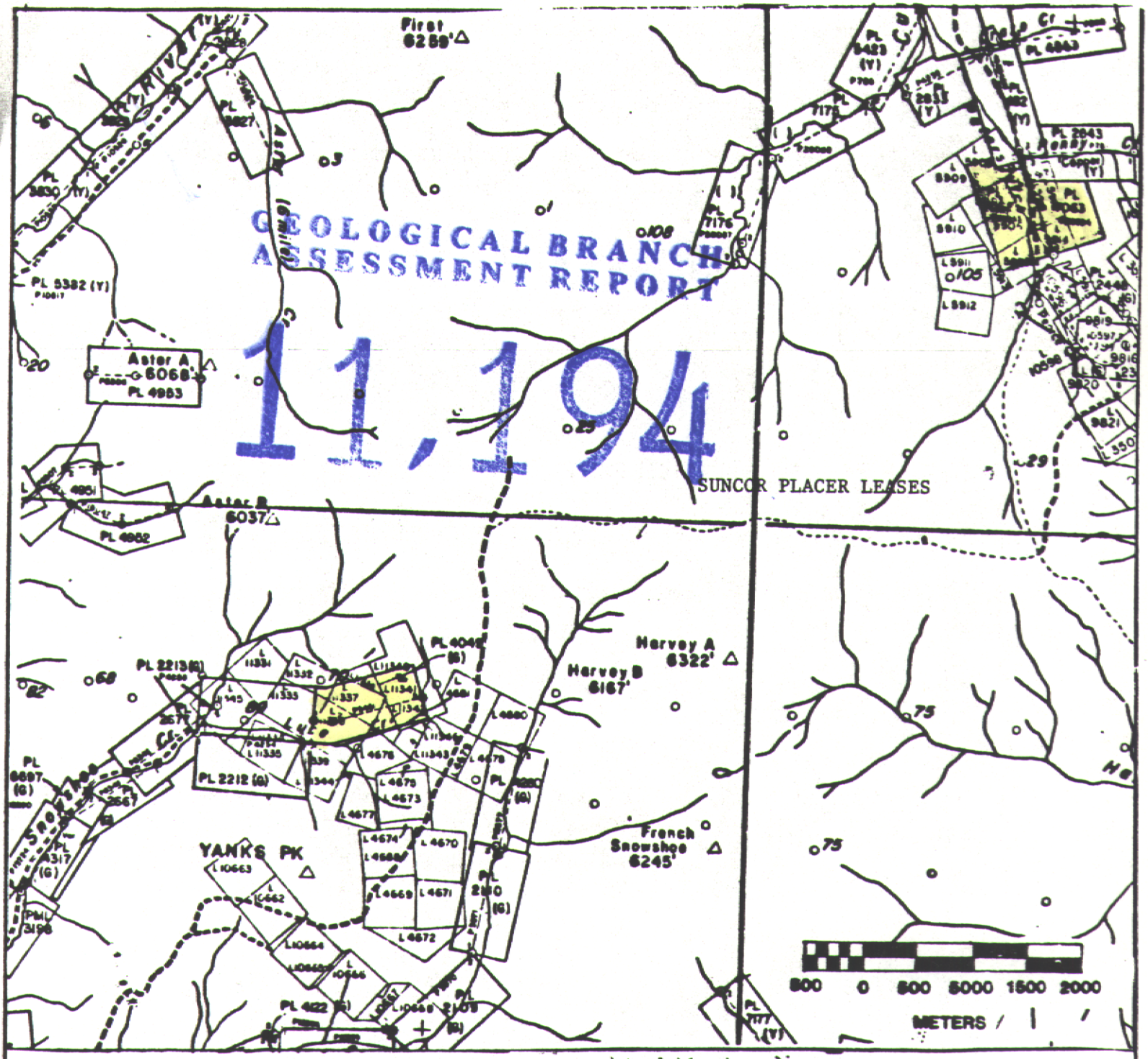
SOIL GEOCHEMISTRY
SAMPLE LOCATIONS
FRENCH SNOWSHOE AREA
F.S. - 82 - 17
CARIBOO LAKE AREA, B.C.

DATE	SCALE	N.T.S	DRAWING No.
July, 1982	1:1000	93/A	82-174-B

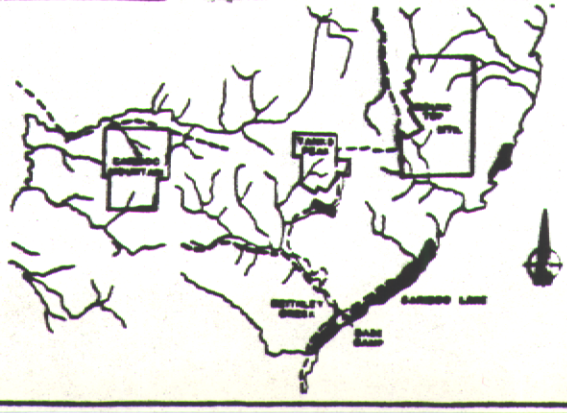
SUNCOR INC.

PLACER LEASES CARIBOO LAKE AREA

LOCATION MAP



TEST SITES *



Yanks Peak Lease is 20 km from Keithley Creek.

Roundtop leases are 27 km from Keithley Creek.