

1982 EXPLORATION ACTIVITIES ON THE

ASTRIDE MINERAL CLAIM

YANKS PEAK PROJECT

CARIBOO LAKE AREA, B.C.

This report covers the following mineral claim held by Suncor Inc.:

> 2003 Astride on N.T.S. Sheet 93 A/14 Centered on 52°51'25"N 121°24'25"W in the Cariboo Mining Division

BY: Paul A. Hawkins, P. Eng. Derek K. Armstrong, B.Sc. < Z U M Catherine Lawrence, B.Sc.

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1982 EXPL'N ACTIVITIES ON THE ASTRIDE MINERAL CLAIM

Yanks Peak Project - Suncor Report #9154

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1.0 INTRODUCTION

The Astride Mineral Claim is one of a group of claims held by Suncor Inc., collectively referred to as the Yanks Peak Project. This project is one of three currently operated by Suncor in the area as shown on the Cariboo Gold Projects Property Location Map 81-044.

The other claims within the Yanks Peak project and the other two projects are covered under separate work submissions. Work was carried out on all three properties by the same crew in 1982. Exploration costs were estimated based on preliminary billings.

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1.1 LOCATION AND ACCESS

The Yanks Peak property is located north of Yanks Peak approximately 12 km north of Keithley Creek. The Astride claim (#2003) can be found on N.T.S. Sheet 93A/14 at latitude 52°51'50" and longitude 121°24'25". The claims making up the Yanks Peak project are shown on Map 81-057D.

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 Astride claim lies to the N.E. of Yanks Peak which reachs an elevation of 1900 m. The claim straddles a V-shaped valley with the southerly flowing French Snowshoe Creek at its center.

The topography is moderately rugged and locally quite steep. Small tributaries cut generally E-W trending gorges on the west slope of the valley. These gorges yield good outcrop exposures.

Immediately north of the claim the vegetation is mostly sub-alpine meadow, with the occasional small bog. This grades into dense coniferous forest in the valley bottom and slopes off the claim. While it is locally boggy at its headwaters, the French Snowshoe Creek becomes quite fast flowing, exposing a good deal of outcrop along its path.

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. Most of the area is covered with dense coniferous forest and is densely undergrown.

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

The Astride Mineral claim was acquired by Suncor Inc. from Zelon Enterprises Ltd. under an option agreement early in 1981. During the 1981 field season, Suncor personnel carried out a limited geochemical and geological exploration program on this claim. (Hawkins P.A., 1981).

The Cariboo district, as a whole, has had a long history of placer and lode gold exploration 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.

In the Astride claim itself, there has been no known lode gold mining operations. A number of reported gold occurrances (Holland, S.S., 1954; Lang, A.H., 1938) are located within the Astride claim. These occurrances when not relocated during the 1982 field season. Some additional work in the area is evident beyond the work reported in the assessment files but it is of uncertain age.

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1.4 1982 PROGRAM OUTLINE

Field work during the summer of 1982 on the Astride claim consisted of limited detailed geological mapping and an extensive reconnaissance soil geochemistry program.

Objectives of this program were to provide a good regional geochemical data base, confirm the government mapping of the area, obtain structural data, and prospect for old and new showings.

The 1982 program was designed to follow-up last year's stream sediment geochemistry survey and reconnaissance mapping results. Due to time constraints this summer, only a portion of the claim was mapped in detail. The soil geochemistry survey crosscut the geology, crossed the French Snowshoe Creek in the vicinity of 1981 stream sediment anomalies, and covered as much of the Astride claim as possible.

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2.0 GENERAL GEOLOGY

There has been some recent controversy surrounding the geology of the Cariboo District; primarily concerned with reinterpreted 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 Devonian-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 Cariboo 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 in the greenschist facies (Sutherland Brown, 1963). 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. and the second second

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2.0 GENERAL GEOLOGY - (Continued)

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

2.1 PROPERTY GEOLOGY

The rocks of the Astride Claim as with those of the whole Yanks Peak area, have a very complex structural history, which is not yet fully understood. The claim is underlain by two basic lithologies: a dark grey to black argillite, and interbedded greenish grey to medium grey phyllite, arengeous quartzite, and conglomerate. (Holland, S.S., 1981) interpreted that these were Cariboo Group rocks (the Midas and Snowshoe Formations) involved in overturned anticlines which were in turn part of the Jim Syncline. (Struik, L.C., 1981) on the other hand, believed these rocks are possibly as young as Devonian-Mississippian and are on the east flank of the Lightning Creek anticlinorium. He has also interpreted a N-S trending normal fault running through this area.

The regional strike 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).

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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 number of showings are located in the Yanks Peak Area (see Holland, S.S., 1954) and evidence of lode workings (adits, tailings, pits, trenches, etc.) are plentiful. For the most part, it is difficult to locate all but the most recent workings.

No known lode workings are located on the Astride Claim, although filled-in old trenches may be present. French Snowshoe Creek, a producing placer creek, does have its headwaters located in this claim.

The only mineralization observed, was some minor galena found in a quartz vein in the French Snowshoe Creek at site VP-79. A sample of the mineralized quartz vein sent in for assay ran 0.08 oz/ton Ag, and 0.02% Pb-Zn combined. From the proximity of known showings to the Astride Claim it is quite likely that more mineralization will be discovered as prospecting proceeds.

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2. ECONOMIC GEOLOGY - (Continued)

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Due to time constraints and the small area covered, mapping only confirmed the presence of previously mapped lithologies. More mapping is needed to adequately determine structural relationships and to better prospect the area for mineralization.

2.3 GEOLOGICAL MAPPING AND PROSPECTION

A total of three mandays were spent geological mapping and prospecting the Astride Claim. Detailed mapping along French Snowshoe Creek was started, following-up on reports of extensive outcrop found in the 1981 program. Also, a traverse was carried out in the outcrop-rich west side of the claim. The general geology and structure (including quartz vein orientations) of the Astride Claim are presented on maps 82-208B and 82-208C, respectively.

From the mapping, to date it appears as though the black argillaceous unit which is believed to be the Midas Formation occupies a N.W. trending band in the center of the claim. It is bounded on either side by a lighter, more quartz-rich, and generally coarser grained group of sediments believed to be the Snowshoe Formation consisting of interbedded grey schists, phyllites, siltstones, sandstones, and minor conglomerate. The argillaceous unit was also found within the latter unit, but the exact relationship between the two has not yet been determined. It may be interbedded, isoclinally folded or consist of a synclinal or anticlinal structure.

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3.0 GEOCHEMISTRY

The geochemistry program on the Astride Claim consisted of a limited but intensive rock sampling program carried out in conjunction with the mapping, and an extensive reconnaissance soil survey.

A total of 15 rock samples were taken for analysis; 13 for geochemical analysis; and 2 for assay. Results are presented in the Appendix and on Map 82-208D and are discussed later.

The soil survey consisted of three (3) equally spaced, 1 km long E-W trending lines, traversing the claim. Lines were 250 m apart with sample intervals every 25 m. The lines were put in by compass and chain method, with each station flagged. The grid (VP-82-36) is illustrated on Map 82-197. A total of 121 soil samples were collected.

One manday was spent surveying the grid, while 5 mandays were spent soil sampling and 3 mandays mapping and collecting rock samples.

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3.1 SAMPLE AND DATA HANDLING

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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., for geochemical analysis. Samples were analysed for Cu, Pb, Zn, Mo, W, Au, Ag.

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

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3.2 ANALYTICAL METHODS

All geochemical samples from the Cariboo Gold Projects received a standard package of analyses at Vangeochem Labs Ltd., 1521 Pemberton Avenue, North Vancouver, B.C.

Cu, Pb, Zn, Ag, Mo

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 percholoric acids (15% to 85% by volume of the concentrated acids respectively).
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

Method of Analysis

Cu, Pb, Zn, Ag and Mo analyses were determined by using a Techtron Atomic Absorption Spectorphotometer 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

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- (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 (NaCO3 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 demineralized water by heating in a hot water bath. Method of Analysis - (Continued)

- (b) A fixed volume was subsequently adjusted.
- (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 toploading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCl:HN03) 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 abhout 5 ml.
- (d) The Au complet ions were extracted into diisobutyl katone 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

Method of Detection - (Continued)

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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 were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

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3.3 SOIL GEOCHEMISTRY

Soil sampling has outlined local anomalies in base and precious metals, these areas rarely extending over a distance of 100 meters. In a few cases, one site may contain high values in several elements, but generally, the anomalies are local and pertain to only one metal.

The soil samples were taken using a grid system, the road and stream were also used as control. Follow-up soil sampling could be done between the lines presently spaced at 250 m intervals to define anomalous areas. The following is a discussion of each element's population. A table of summary statistics is also provided.

Copper

The background range for copper varies from undetectable to 30 ppm Cu. The high of 62 ppm Cu at L2+50N, 2+50E is considered anomalous and coincides with other base metal values.

Lead

The background range for lead varies from 5 ppm to 50 ppm Pb. The high value of 520 ppm occurs with other base metal highs and is considered anomalous. A few soil samples have values between 100 ppm and 200 ppm. These samples are scattered throughout the grid and are not considered to be anomalous.

<u>Zinc</u>

Normal background values for zinc range from 5 ppm to 80 ppm Zn. The highest value of 1630 ppm Zn is in an area of anomalous values in Zn only, at L7+50N,

Zinc - (Continued)

between 7+75E and 9+00E. These high values have been attributed to the poor drainage in the area and the large percentage or organic material in the sample.

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Molybdenum

The background values for molybdenum vary from the detection limit to 5 ppm Mo. The high value of 80 ppm Mo coincides with other base metal highs. A few values between 13 ppm and 34 ppm Mo are found along L7+50N between 3+50E and 4+25E. These values partially coincide with high Zn and Pb values.

Gold

The background values for gold range from the detection limit to 20 ppb An with a high of 230 ppb at L5+00N, 1+75E. Other isolated high values were obtained, but do not correlative with any base or precious metal highs.

Silver

Background values for silver range from detection limit to 1.2 ppm Ag. The high of 3.1 ppm Ag is located at L7+50N, 8+25E, but other silver values in the vicinity are considerably lower. The high value coincides with a high Zn value, although it has been determined that the latter is due to high organic content in the sample.

Tungsten

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Background values for tungsten range from detection limit to 10 ppm W, with several values of 20 ppm W. A high of 40 ppm occurs at L7+50W, 5+00E and is coincidental with high copper and gold values.

3.4 ROCK GEOCHEMISTRY

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During the few days spent geological mapping and prospecting the Astride Claim, 18 rock samples were collected. Because of the limited sampling, the values for rock geochemistry are not representative of the claim.

Weathered samples were taken from some of the old workings (YP-58, YP-59), however fresh samples were difficult to obtain. The higher values came from the host rock, the quartz veins proved to be barren of mineralization at these sites. Most values for rock geochemistry are considered to be within a low background range for the area.

Copper

All values for copper range from detection limit to 19 ppm Cu. No anomalous high values were found.

Lead

The normal background level for lead ranges from detection limit 30 ppm Pb. A high value of 68 ppm was obtained from an interfoliated quartz vein at YP-75.

Zinc

Most values for zinc range from 1 ppm to 100 ppm Zn, the normal background between 1 ppm and 20 ppm Zn. The high values of 175 ppm is from a piece of float near 7+70N, 3+75E (YP-73).

Molybdenum

Background values for molybdenum range from 1 ppm to 5 ppm Mo. The high of 25 ppm is found in the same sample as the zinc high at YP-73.

Gold

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The background for gold ranges from detection limit to 20 ppm Au. The high of 30 ppm is from a lenticular interfoliated quartz vein hosted in a phyllite (Yp-76).

Silver

Background values for silver range from detection limit to 0.3 ppm Au. No high values for silver were obtained.

Tungsten

Tungsten values range from detection limit to 5 ppm W. Only one above background value of 10 ppm W was found but more than 50 percent of the samples were at or below the detection limit for Tungsten.

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3.5 SUMMARY

The results of the rock geochemistry did not indicate any anomalous area. The results of the soil geochemistry program indicated areas where further detailed sampling is required to confirm possible anomalous areas. These areas are:

- 1) L2+50N, 2+50E
- 2) L7+50N, 7+75E 5+00E
- 3) L5+00N, 1+75E

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4.0 CONCLUSION

The 1982 Exploration Program has outlined three regions of anomalous geochemistry which warrant further additional follow-up. It is important to find out if the anomalous areas are just a local phenomenon or whether they are wide spread and related to the bedrock. Insufficient sampling of outcrop makes it difficult to determine the presence or absence of anomalous bedrock.

The area is structually complex, the different episodes of jointing and deformation should be studied in more detail to ascertain a proper sequence of events. It is of the up most importance to understand the mode of emplacement of the base and precious metals. The few days spent on the Astride Claim was not sufficient time to gather enough structural data to determine the geological history of the area.

The program in 1981 confirmed the presence of gold and silver in the secondary geochemical environment (Hawkins, P.A., 1981). In 1982, the program was designed to follow-up these anomalous areas. A few areas do appear anomalous and should be studies in more detail to determine the extent of the anomalies. The structure of the area is highly complex and warrants further detailed study both at a megascopic and microscopic scale.

4.1 RECOMMENDED 1983 PROGRAM

The 1983 program should include follow-up geochemistry to determine the extent of the anomalous areas. The grid lines are presently spaced at 250 m intervals. A more detailed study can be carried out by running N-S lines between the already existing lines as well as N-S lines east and west of the grid. Besides being utilized for soil geochemistry, the lines would also provide good control for detailed mapping, as opposed to the reconnaissance geologic mapping done in 1982.

The 1982 program did not include any ground geophysics that had been recommended in the 1981 report on the Yanks Peak Project (Hawkins, P.A., 1981). A geophysical survey using such instruments as proton magnetometer and VLF-EM could be useful in acquiring structual information. Such information should also be gathered by further mapping, but on a detailed scale. Study of handspecimens and thin sections should also be carried out to obtain further information on the structural history.

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REFERENCES

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- Brown, A.S., 1957 Geology of the Antler Creek Area Cariboo District B.C. B.C. Department of Mines Bulletin #38
- 2. Brown, A.S., 1963 Geology of the Cariboo River Area British Columbia B.C. Department of Mines Bulletin #47
- 3. Campbell, R.B., Mountjoy, E.W., Young F.G., 1973 Geology of McBride Area British Columbia G.S.C. Paper 72-35
- Holland, S.S., 1954
 Yanks Peak Roundtop Mountain Area British Columbia
 B.C. Department of Mines
 Bulletin #34
- 5. Hawkins, P.A., 1982 1982 Exploration Activities at Yanks Peak Cariboo Lake Area, B.C. Suncor Report #9172
- 6. Hawkins, P.A., 1981 A Geological and Geochemical Report on Yanks Peak Property Cariboo Lake Area B.C. June - August 1981 Suncor Report #9051
- 7. Lang, A.H., 1938 Keithley Creek Map Area Cariboo District B.C. G.S.C. Paper 38-16
- 8. Struik, L.C., 1981 Snowshoe Formation Central British Columbia in Current Research Part A G.S.C. Paper 81-1A

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APPENDIX

1. Claim Listing

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2. Author's Qualifications

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- 4. 1982 Cariboo and Tchaikazan Mean Salary Calculation
- 5. Cariboo Gold Project 1982 Analysis Costs
- 6. Astride Mineral Claim Estimated Expenditures
- 7. Estimated Field Exploration Costs Yanks Peak
- 8. Geochemical Data Listing
- 9. Report Maps

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YANKS PEAK PROJECT

CLAIM LISTING

CARIBOO LAKE AREA

Cariboo Mining Division

RECORD #	CLAIM NAME	LOT #	UNITS	ANNIVERSARY	IN GOOD STANDING	HECTARES
				DATE	UNTIL	
282	Old Timer	11337	1	Nov. $17/76$	1984 (1986)	12.76
283	Jane	11338	i	Nov. $17/76$	1984 (1989)	19.45
510	Junior	11341	1	Oct. 19/77	1994	20.83
511	Little Robert	11340	ĩ	Oct. 19/77	1984 (1990)	16.69
512	Indian Broom	11333	1	Oct. 19/77	1984	18.07
512	Bella Coola	11342	ī	Oct. 19/77	1984 (1990)	13.16
513	Frill	4676	ī			20020
	Fraction		_			
513	Tri Fraction	11346				
513	Junior	11343				
	Extension					
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	ī	Feb. 6/78	1983	20.90
	Peak No. 2		1	Feb. 8/78	1983 (1988)	
602	Betty	11335	-		,	23.63
602	Betty	11334	1	Feb. 20/78	1985 (1991)	
	Fraction					
603	Janes Ex-	11331	1	Feb. 20/78	1985	17.86
	tension No. 1			•		
654	Janes Ex-	11345	1	April 12/78	1985	51.65
	tension No. 2			±,		
655	Junior	11336	1	April 12/78	1984 (1988)	4.69
	Fraction			1	• •	
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	10666	1	Feb. 18/81	1982 (1989)	20.90
	Peak			•	- ·	
4049	Placer Lease		2	Dec. 9/80	1982	41.80
					TOTAL	1,181.50

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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	$\tt Urangessellschaft$	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

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FIELD STAFF LIST

- 1. David Dillion M.Sc. (Geology) Brock University 1982 B.Sc. (Geology) University of Toronot 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 Sandford 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 Gerald Lalonde 10. Cook 11. Derek Armstrong
 - B.Sc. (Geology) University of Waterloo 1982

12. Derek Newman

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3rd Year Geology Student, Memorial University

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13. John Mirynech

lst 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

and a set of the set of

P.	Hawkins	\$	234.09	Projects Geologist Cordilleran
D.	Dillon		102.26	Tchaikazan Party Chief
c.	Lawerence		99.64	Senior Field Assistant
к.	Lange		98.34	Senior Field Assistant
v.	Rublee		70.49	Junior Field Assistant
ĸ.	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 Party Chief
D.	Newman		80.93	Senior Field Assistant
J.	Mirynech		58.75	Junior Field Assistant
м.	Но		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

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- 35 -

CARIBOO GOLD PROJECT

1982 ANALYSIS COSTS

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

Rock Samples

• La esta de la compañía La compañía de la comp

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

والأراب المراجعة فستنقط وسوورو المراجعة والموادية والمرا

Soil and Steam Sediment Samples

Gusset hi-wet strength geochem	
bas 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

- 36 -

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ASTRIDE MINERAL CLAIM

ESTIMATED EXPENDITURES

Field Exploration Costs		
151.54 x 9	\$1,363.86	
Camp Support		
137.51 x 4	550.04	
Analysis Costs		
120 Soil Samples x 13.82	1,658.40	
Shipping Charges	30.00	
TOTAL FIELD EXPENSES	\$3,602.30	
+ 10%	360.23	
	\$3,962.53	\$3,962.53
Report Preparation		
Salaries 2 x 234.09	\$ 468.18	
3 x 99.64	298.92	
3 x 99.64	298.92	
Typing & Repro & Data Pro., Draft	1,200.00	
	\$2,266.02	\$2,266.02
		\$6,228.55

- 37 -ESTIMATED FIELD EXPLORATION COSTS

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YANKS PEAK PROJECT

Camp Costs

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Food & Catering Costs	\$ 25	5.00	
Equipment & Camp Costs	10	0.00	
Camp Fuel	:	2.50	
Transportation & Logistics	<u>_</u>	5.00	
	\$ 4:	2.50 \$42.5	0
PRORATED SALARY	\$ 9!	5.01 \$95.0)1
TRANSPORTATION COSTS			
Truck Rental 2 x 1000	\$2,00	0.00	
Fuel (month)	22	5.00	
Maintenance	30	0.00	
	\$2,52	5.00	
Per Man Day Cost	1	4.03 <u>\$14.0</u>	<u>)3</u>
$6 \times 30 = 180 \text{ manday}$			

\$151.54

GEOCHEMICAL DATA LISTING

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A DECEMPTOR AND No. 1989 1. 198 *** MAPPER SYSTEM +** SUNCOR INC DATE 111282 PAGE 1. .DATE 26 CCT 82 11:50:07 RID 6 26 OCT 82 PHAWK +CHEMICAL LAB ANALYSIS REPORT FOR ASTRIDE CLAIM - YANKS PK. LAB : VGC (TYPE F) 2. Ā 3. *RS.PRJYR .POCK.SAMPLE.MC •CU •P8 •ZN •AG •AU •₩ ч. .NUMRE?. &A (PPM) . &A (PPM) . AA (PFM) . AA (PPM) . AA (PPM) . AA (PPB) . AA (PPM) * . 5. . 6. 0.3 7. 50 05082 0.3 8. 50 050A2 • ۰. 50 05GR2 1.2 1.4 . 10. 50 05082 0.0 11. 50 05082 1.3 12. O 50 05082 1.0 13. 50 05082 n 0.0 14. 50 05082 -2 0.0 15. • 50 05082 п O 0.3 16. 50 05082 n 17. 0.3 50 05082 1.2 18. n 50 05082 1.2 19. 50 05082 n 20. 01 05082 0.5 2.2 4 S 21. 50 050R2 n 1.5 22. 50 05082 27. 0.4 50 05082 Ţ • 0.3 24. 50 050P2 0.4 25. 50 050A2 0.2 26. 50 05082 0.1 27. 50 05082 0.9 29. 50 050P2 29. 0.6 50 05082 n 1.2 30. 50 05082 31. 1.0 n 50 05082 32. 1.1 50 05082 0.5 33. 50 05082 n 0.5 34. 50 05082 Ο 35. 0.1 50 05CP2 0.4 36. 50 05082 Π 0.4 37. 50 05082 A 39. 0.4 50 05082 0.3 • 39. 50 05082 0.0 40. 50 05082 0.2 41. 50 05082 0.3 42. n 50 05UP2 43. 0.6 п 50 05082 44. 0.8 50 05082 • 0.2 45. 50 05082 0.7 Ω 45. 50 050P2 47. 0.5 50 05082 n 0.3 4 R . 50 05082 0.2 49. 50 D56P2 0.6 50. п 50 05UR2 51. 0.2 50 050A2 n 0.0 52. n 50 05082 ۰s 53. 0.1 50 05082 n ø 0.3 54. 50 05082 1.0 55. 50 05022 3.0 54. 50 05082 0.0 57. O 50 05082 0.9 58. 50 050#2 59. 0.4 50 050P2 Ð 0.7

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cc Paul Handhins me'd			Suth
OCT 1	1982	Filing Fors . Noos	200 ²⁰
British Columbia Ministry of Mines and Datalaum Resources		14-1 1	
	MINERAL ACT	1	SEP 2 2 1982
Statement of Exp	loration (and Devel	Ouesnel, B.C.
I. Paul A. Hawkins	Agent fo	Suncor Ind	
P. O. Box 38	·	P. O. Box	(Heme) 38
Calgary, Alberta	·	Calgary,	Alberta
Valid subsisting F.M.C. No 244686		Valid subsisting F.	M.C. No 244770
STATE THAT	· · · · · · · · · · · · · · · · · · ·		_ * **
1. I have done, or caused to be done, wort	(00, the	cridë"	Mineral Claim(s)
Record No.(s)	• • • •		
Situate at	in the	Cariboo	Mining Division,
to the value of at least	dolla	irs. Work was don	e from the 15th day
of August 1982	., to the	A .day of Aug	ust
A. PHYSICAL (Trenches, open cuts, adits, pl (Give details as required by meth	its, shafts, reclamat a 13 of regulations.)	ion, and construction	on of roads and trails)
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To Snarlberg (Yanks Peak)	 Claim Post Located in Field Estimated Claim Post Position Claim Boundary Road Creek -L500N- Grid Line (for Grid YP-82-36) Area of Discontinuous Outcrop x YP-76 Geological Site and Number Geological Contact (known, approximate, assumed) Foliation (dip unknown, inclined, vertical) Joint (inclined, vertical) Guartz Vein (dip unknown, inclined, vertical) Bedding (dip unknown, inclined, vertical) 	A SESSMENT REPORT 10,775 a) GEOLOGY - ST ASTRIDE C GRID: YP- CARIBOO LAKE	SUNGOR INC REPORT NO: 9154 COPY 2 OF 2 ENO. 3 OF 8 COAL AND MINERALS DEPARTMENT RUCTURE LAIM 82-36 PROJECT AREA, B.C.
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To Snarlberg (Yanks Peak)	LEGEND Claim Post Located in Field Estimated Claim Post Position Claim Boundary Road Creek -L500N- Grid Line (for Grid YP-82-36) Area of Discontinuous Outcrop * YP-76 Geological Site and Number	GEOLOGICAL BRANCH ASSESS AS FIT & F.P.O.R. 54) 100 200 Metres 100 100 100 200 Metres 100 7754		
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• • •	(DKA-YP- <u>273,</u> 274) - Rock Sampte Numbers (underlined sample numbers were sent in for analysis)	GEOLOGY - SITE AND SAMPLE LOCATIONS ASTRIDE CLAIM GRID: YP-82-36 CARIBOO GOLD PROJECT CARIBOO LAKE AREA, B.C.		
		DATE SCALE N.T.S. DRAWING No. September, 1982 1:5000 93A/14 82-208-D		
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- Claim Post (Located in Field)
- Claim Post (Estimated Position)
- Claim Boundary _____ ____

Road

To Snarlberg (Yanks Peak)

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- Creek
- Geochemistry Sample Location on Grid Line
- Claim Number ()
- Cu/Pb/Zn/Mo Geochemistry Results (all in ppm)

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COPI	SOIL GE PER, LEAD, Z ASTR GRID CARIBOO ARIBOO	OCHEMISTR INC & MOLYBE IDE CLAIM YP-82-36 GOLD PROJ LAKE AREA,	Y DENUM ECT B.C.
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	<u>L E G E</u> ■	ND Claim Post (Located in Field)	G E O L O G I C A A S S E S S M E N	LBRANCH TREPORT	100 200	Vetres
To Snarlberg (Yanks Peak)		Claim Post (Estimated Position) Claim Boundary Road Creek Geochemistry Sample Location on Grid Line	10,7	775	SUM REF COF ENC	207 INC ORT NO: 9154 PY 2 OF 2- C. 3 OF B
	() Au, Ag, W	Claim Number Geochemistry Results (Au in ppb, Ag and W in ppm)		SOIL GEO SOIL GEO GOLD, SILVER ASTRID GRID: CARIBOO G ARIBOO LA	COAL DUP CHEMISTRY AND TUNGSTI E CLAIM YP-82-36 OLD PROJE KE AREA,	AND MINERALS EPARTMENT EN CT B.C.
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