

MAP No.

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
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DOCUMENT NO.: 091931
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOLOGY/GEOCHEMISTRY

105 D 3

REPORT FILED UNDER: Berglynn Resources Inc.

DATE PERFORMED: June 17 to Sept. 30/86

DATE FILED: March 26, 1987

LOCATION	LAT.	60°11'N
	LONG.	135°15'W

AREA: WHEATON RIVER AREA

CLAIM NAME & NO.	POP 101-102 fractions	YA93378-YA93379	TECH 22-40	YA92145-63
POP 1-14	Y75415-Y75428	POP 103-116 fractions	YA93382-YA93395	
POP 15-70	YA81468-YA81523	POP 117-122	YA94672-YA94677	
		TECH 1-18	YA82362-YA82379	
		TECH 19-21 fractions	YA86013-YA86015	

VALUE \$ 43,525.00

WORK DONE BY: Ronald C.R. Robertson

WORK DONE FOR: Berglynn Resources Inc.

DATE TO GOOD STANDING	REMARKS: #26 BECKER-COCHRAN
	#25 PORTER
	#24 GODDELL

091931

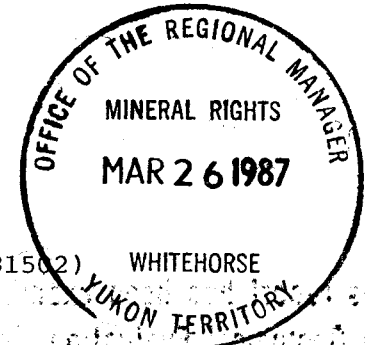
ASSESSMENT REPORT

GEOLOGY AND GEOCHEMISTRY
(POP 23-70 : YA81476-YA81523)

ADIT REHABILITATION AND SAMPLING
(POP 10 : Y75424)

BACKHOE TRENCHING AND SAMPLING
(POP 25, 26, 27, 49 : YA81478, 81479, 81480, 81502)

Carbon Hill Area : Whitehorse Mining District
NTS 105-D-3
Latitude: 60°11'N
Longitude: 135°15'W

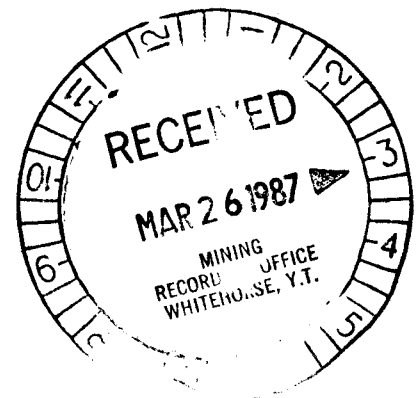


17 June to 30 September 1986

For:
BERGLYNN RESOURCES INC.
706-595 Howe Street
Vancouver, B.C.
V6C 2T5

By:
RONALD C. R. ROBERTSON, F.G.A.C.
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March 1987



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 43,525.00.

D. Edmond

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

During 1986, three distinct work programs were carried out on parts of the POP claim group of Berglynn Resources Inc., located in the Carbon Hill area, Wheaton River district, southern Yukon (Figure 1).

From 17th June to 26th August 1986, surface geological mapping, prospecting soil and rock sampling were conducted by a Berglynn Resources' field crew led by R. A. Doherty of Aurum Geological Consultants Inc. (Vancouver). This work covered large parts of the POP 1-14 and POP 15-70 claims. Surface work on the POP 1-14 claims is not being applied for assessment credit as these claims were recorded more than three years ago.

From 24th July to 3rd August 1986, the old Becker-Cochran #3 adit on the POP 10 claim was rehabilitated by M. J. Moreau Enterprises Ltd. of Whitehorse and then mapped and sampled by R. A. Doherty and the Berglynn Resources' field crew. On October 23rd 1986 all three of the old Becker-Cochran adit portals were boarded-up by M. J. Moreau personnel.

These two initial work phases were described by R. A. Doherty in a report to Berglynn Resources Inc. dated 24th August 1986. Some analytical results were incomplete at that time.

From 4th to 30th September 1986, a program of backhoe trenching was carried out on parts of the POP 25, 26, 27 and 49 claims. Trench geology and sampling was conducted by project geologist D. M. Strain (Atlin, B.C.) and described by him in a report to Berglynn Resources Inc. dated 8th December 1986.

The present report has largely been compiled by the writer from these two earlier reports. The trenching program was supervised by the writer on behalf of the company. The writer did not supervise the earlier work programs; during August 1986 the writer toured the property with R. A. Doherty. This property visit included an inspection of the Becker-Cochran #3 adit and examination of significant areas and geological features located during the surface exploration program. For reference purposes, photocopies of statements of qualifications from the previous two reports are included in Appendix IV of this report.

PROPERTY

The claims to which assessment work is being applied form part of a larger property known as the POP group. These claims are located on map sheet 105-D-3 in the Whitehorse Mining District and were staked and recorded under provisions of the Yukon Quartz Mining Act at various times between 1982 and 1986.

BEAUFORT SEA

FIGURE 1

• Tuktoyaktuk

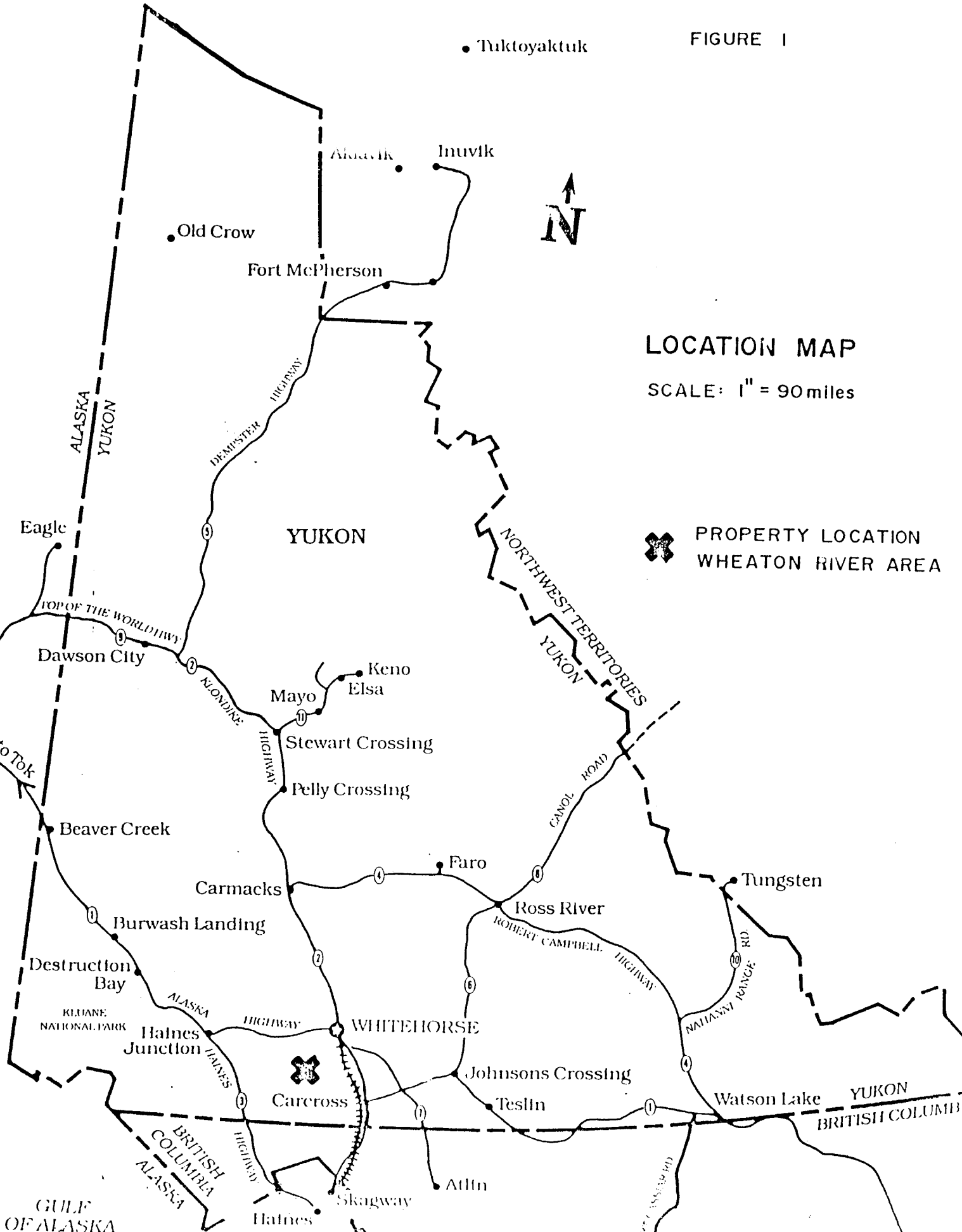


LOCATION MAP

SCALE: 1" = 90 miles



PROPERTY LOCATION
WHEATON RIVER AREA



GULF OF ALASKA

YUKON
BRITISH COLUMBIA

<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Number of Claims</u>
POP 1-14	Y75415-Y75428	14
POP 15-70	YA81468-YA81523	56
POP 101-102 fractions	YA93378-YA93379	2
POP 103-116 fractions	YA93382-YA93395	14
POP 117-122	YA94672-YA94677	6
TECH 1-18	YA82362-YA82379	18
TECH 19-21 fractions	YA86013-YA86015	3
TECH 22-40	YA92145-YA92163	19

The location of these claims with respect to local topography and adjacent mineral claims is shown in Figure 2. Note that part of the boundary between the POP and MOM claims is located farther north than is indicated on this map.

LOCATION AND ACCESS

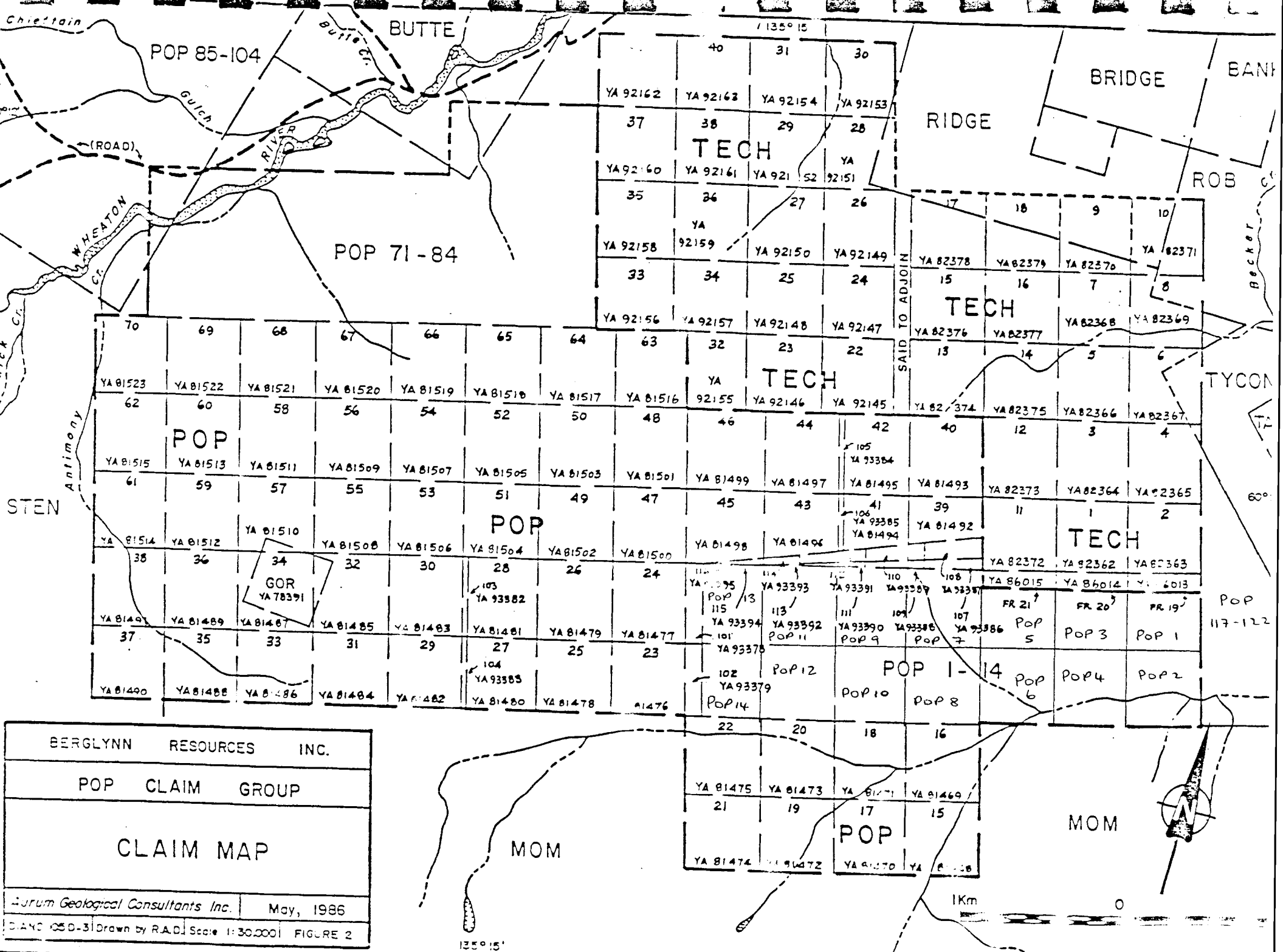
The property is located about 60 kilometers south of Whitehorse on NTS map sheet 105-D-3. Approximate geographical co-ordinates are 60°11' north and 135°15' west.

Access to the property from Whitehorse is by paved highway following the Alaska Highway and then the Klondike Highway (Carcross section) as far south as Robinson, a distance of 40 kilometers. From Robinson, an all-weather gravel road (Annie Lake/Wheaton River Road) is followed for 32 kilometers to the bridge over Becker Creek, a tributary of the Wheaton River. A rough four-wheel-drive trail is then followed for 12 kilometers up Becker Creek, thence west uphill past the old Becker-Cochran adits and across the top of Carbon Hill to the old Porter adit. The Becker-Cochran adits near the center of the property are approximately 81 kilometers by road from Whitehorse.

Exploration of the POP claims in 1986 was carried out from a tent and trailer camp located on the Wheaton River Road near the junction of Partridge Creek and the Wheaton River. Parts of the work program required helicopter support; a Hughes 500D helicopter was used, from Frontier Helicopters' seasonal base on the Wheaton River Road at Becker Creek.

PHYSIOGRAPHY, CLIMATE, VEGETATION

Topography consists of a well-rounded upland plateau, deeply incised by young V-shaped drainage systems, superimposed on broad U-shaped glacially carved valleys. Average elevation of the plateau surface is approximately 5,000 feet (1525 meters) and relief in the area is 3,000 feet (900 meters).



Chickstain

POP 85-104

BUTTE

135° 15'

BRIDGE

BANK

RIDGE

ROB

POP 71-84

TECH

TYCON

POP

TECH

POP

TECH

GOR
YA 78391

POP 1-14

Antimony

STEN

POP 117-122

BERGLYNN RESOURCES INC.

POP CLAIM GROUP

CLAIM MAP

MOM

MOM

POP

Surum Geological Consultants Inc. May, 1986

D-ANC 105D-31 Drawn by R.A.D. Scale 1:30,000 FIGURE 2

1 Km

135° 15'

Slopes are steep and often rugged, particularly on the extreme west end of the property overlooking the Wheaton River, becoming gentle in the dissected plateau area at higher elevations.

Most of the property is above treeline (4,000 feet/1,200 meters) with only local stands of stunted conifers above this elevation. Ground cover is mostly talus, overgrown with brush and moss at lower elevations, with more extensive rock exposure on the steeper slopes at higher elevations. In the lower creek valleys, mixed spruce and poplar forests prevail.

Climatic conditions are generally those of similar elevations in the Carcross area, characterized by a northern interior climate modified by a warmer, moist influence of the nearby Pacific Ocean with periodic high winds. Average annual precipitation is approximately 40 centimeters. Winters in the area are long, with temperature extremes to -40°C but commonly in the -10 to -20°C range. Summers are pleasant, with temperatures up to 25°C and long hours of daylight during May, June and July. The area is generally snowfree from June to September.

REGIONAL GEOLOGY

The Wheaton River district straddles the boundary between folded Mesozoic and Paleozoic volcanic and sedimentary rocks of the Whitehorse Trough and the granitic intrusive rocks of the Cretaceous Coast Crystalline Complex to the west. All of these units are locally overlain by volcanic rocks of the late Cretaceous/early Tertiary Skukum Group, intruded by rhyolite and andesite dykes of the same age.

The region has been mapped twice by the Geological Survey of Canada and the results published as Memoir 31 (D. D. Cairnes, 1912) and Memoir 312 (J. O. Wheeler, 1961). A re-interpretation of the regional geology formed part of the metallogenic map published as Open File EGS 1979-6 of the Department of Indian Affairs and Northern Development (G. W. Morrison).

A table of formations follows:

TABLE 1
Table of Formations

QUATERNARY		Alluvium; glacial and fluvial deposits.
QUATERNARY (?)	Miles Canyon volcanics	Basalt; minor pyroclastic rocks.
TERTIARY	Skukum Group	Basalt, andesite, rhyolite flows, tuffs and breccias, dykes and sills.
MID-CRETACEOUS	Coast Range intrusions	Medium-grained quartz-monzonite; granodiorite.

Table of Formations (cont'd)

JURASSIC/ CRETACEOUS	Hutshi Group (?)	Andesite, rhyolite flows and pyroclastic equivalents.
JURASSIC	Tantalus Group	Mainly conglomerate.
LOWER JURASSIC	Laberge Group	Greywacke, arkose, quartzite, siltstone, argillite and con- glomerate.
TRIASSIC	Lewes River Group	Andesite, basalt flows and pyroclastic equivalents; lime- stone; minor rhyolite flows.
MISSISSIPPIAN- PERMIAN	Cache Creek <u>or</u> Taku Group	Serpentinized ultramafic rocks.
LOWER PALEOZOIC	"Yukon Group"	Metamorphic terrain; quartz- biotite schist; micaceous quartzite; minor gneissic units.

Older sedimentary and volcanic rocks are typically deformed and exhibit at least lower-greenschist facies regional metamorphism. These units generally trend north or northwest and appear to be separated by unconformities. Much of the deformation seen in these rocks relates to regional tectonic events associated with intrusion of large bodies of quartz monzonite and granodiorite of the Coast Range Complex about 100 million years ago.

Major fault structures are associated with early Tertiary volcanic complexes at Montana Mountain, Mount Macauley and Mount Skukum, but older structures may also be present. Skukum Group volcanic rocks are equivalent to the Sloko Group of northern British Columbia and the Mount Nansen Group of central Yukon. Late stage features of Skukum Group volcanism include andesite, dacite and rhyolite dykes, small rhyolite porphyry stocks and quartz or quartz-carbonate veining with important precious metal mineralization.

HISTORY AND PREVIOUS EXPLORATION

The earliest exploration work in the Wheaton River area pre-dates the Klondike Gold Rush by several years. The first recorded claims staked in the region were located by Frank Corwin and Thomas Rickman on Carbon Hill, Chieftain Hill and Mount Anderson(?) during the summer of 1893. Additional prospecting in the Wheaton River District continued intermittently until 1906 when the discovery of gold and gold telluride bearing quartz veins on Gold Hill led to a staking rush which resulted in over 700 claims being located near the discovery and on Carbon Hill where Corwin and Rickman's original claims had been found.

Many of the claims were further developed until the outbreak of WWI - with adit entry underground drifts driven on shear zones or veins on Gold Hill, Tally Ho Mountain, Mount Stevens and Carbon Hill. After the termination of the war, additional exploration was conducted on several of the more promising occurrences, and limited production arose from high grade zones at Tally Ho Mountain, Gold Hill and Mount Stevens.

Most of the Wheaton River district then lay idle from the mid-1920's until the late 1940's as most exploration efforts during this period were directed to silver-lead veins in the Keno Hill area of central Yukon. From the 1940's until the 1980's, the Wheaton River district witnessed only sporadic exploration activity as specific commodities were sought. During the 1970's, exploration reconnaissance programs were conducted in the region for porphyry copper deposits. With the increasing price for gold during the late 1970's, interest again revived for precious metal exploration in southern Yukon.

A regional exploration program conducted by Agip Canada Ltd. in 1980 led to discovery of gold-bearing vein structures at Mount Skukum in 1981. Subsequent diamond drill programs in 1982-1984 defined a commercial ore body consisting of 165,000 tons grading 0.73 ounces of gold and 0.63 ounces of silver per ton as finely disseminated gold hosted by quartz-calcite veining. Mount Skukum Gold Mines Ltd. (a subsidiary of Erickson Gold Mines Ltd. of Vancouver) commenced production at a rate of 300 tons per day in March 1986. The significance of this discovery was realized in 1983 and exploration activity in the Wheaton River district showed a dramatic increase during 1983-1986.

The Carbon Hill area has been intensively explored in the past. Virtually all of this activity focused on development of three areas of stibnite vein mineralization: the Goddell, Porter and Becker-Cochran showings. All these areas were originally found and staked by 1907. The Becker-Cochran antimony showing was worked intermittently between 1906 and 1940.

Between 1964 and 1967, Yukon Antimony Corporation (NPL) acquired the ground and drove three adits and completed diamond drilling to define a mineralized antimony bearing shear zone approximately 300 meters long by two meters wide with a vertical extent of 120 meters (Hylands, 1966). The program outlined probable and possible ore reserves of approximately 140,000 tons of 4% antimony (Holcapek, 1974).

In 1974, the property was acquired by Berglynn Resources Inc.; the ground was optioned to Con Am Resources Ltd. in 1976, who undertook a diamond drill program on the stibnite mineralized zone. No data is currently available and the option by Con Am was dropped.

During 1984-1986, additional ground was acquired through staking or purchase by Berglynn Resources. An extensive soil geochemical survey was carried out on the POP claim group in late August 1985.

1986 EXPLORATION

Geological Mapping and Geochemical Sampling

The geology underlying the POP property consists mainly of Cretaceous monzonite to granodiorite intrusions of the Coast Plutonic Complex containing a number of roof pendants of late Proterozoic Yukon Group schist and gneiss and blocks of Jurassic Tantalus formation conglomerates and Mesozoic Hutshi Group intermediate volcanics. These are overlain locally and intruded by a suite of Eocene Mount Skukum Group rhyolite volcanics and subvolcanic intrusions commonly emplaced along northeast (030°) trends predominantly on the eastern side of the property.

A well-developed 115° trending vertical to steep south dipping fault structure cuts the pre-Tertiary intrusions and contained sedimentary-volcanic rocks and localizes quartz-barite veins containing massive stibnite ± galena ± sphalerite mineralization. Gold and silver values are associated with the sulphides on the western side of the property in the Goddell Adit area and in veins above Antimony Creek.

The faults exposed in Goddell Gully and at the Becker-Cochran Adits are interpreted as part of a throughgoing 4 kilometer fault zone. The timing of this fault in relation to the emplacement of the Tertiary rhyolite dykes is uncertain. Structural relations from mapping in the Becker-Cochran Adits suggest that the fault is pre-Tertiary (Holcapek, 1974) as Tertiary rhyolites are reported to offset the mineralized zone.

A number of prominent northeast trending linears are visible on air photos but a paucity of outcrop along the linears prevents accurate interpretation of these zones. They are possibly related to regional Cretaceous joint sets, faulting or Tertiary rhyolite dykes.

Rhyolite dyke swarms are well-developed northeast of the Adit area and in Conglomerate Creek just west of the Adits and about Horseshoe Gulch. At the head of Conglomerate Creek, a grey-green siliceous zone caps a rhyolite dyke injected into Tantalus conglomerate. To the northeast, two zones of chalcedonic breccia outcrop approximately 400 meters apart on an 036° trend. The chalcedonic breccias carry low grade 100-200 ppb gold values.

The Tantalus Formation commonly produces a bright red to orange-red gossan where exposed. Underlying monzonites and overlying Hutshi Group volcanics on Carbon Hill are only weakly iron stained, suggesting that the pyrite in the Tantalus Formation may be authigenic. Well-bedded syn-sedimentary pyrite has also been cored in the Skukum Creek property of Omni Resources Inc. The possibility that the gossans are the result of mixing zones caused by ascending hydrothermal fluid mixing with descending oxygenated meteoric water should not be discounted.

Geochemical soil sampling was completed in August 1985 on a grid covering 3.4 x 4.9 kilometers. A total of 1745 soil samples were collected at 100 x 50 meter spacings and analyzed for Au, Ag, As, Sb, Pb and Zn at Acme Analytical Laboratories Ltd.

An additional 450 soil samples and 300 rock chip samples were collected from mid-June through to early August during mapping and prospecting on the POP claims; of these, 128 rock samples and 217 soil samples were collected from the POP 23-70 claims.

Geology and sample locations are plotted on Figures 6a and 6b; anomaly locations are shown on Figure 3, and results of detail soil sampling are shown on Figures 4 and 5.

Silver, lead, zinc, arsenic and antimony were determined from a 0.50 gram sample by ICP (Induced Coupled Plasma) analysis after digestion in a hydrochloric-nitric acid solution and are reported in ppm. Gold was analyzed by conventional atomic absorption techniques from a 10 gram sample, and is reported in ppb. Arsenic analysis of a few selected samples by Bondar and Clegg using nitric perchloric digestion and colorimetric finish suggests that the ICP method gives poor quality results for arsenic.

Table 2 lists statistically calculated background, threshold and anomalous values for rock and soil geochemical samples. An anomaly is considered significant at the 97.5% confidence interval.

TABLE 2
Background, Threshold and Anomaly Values

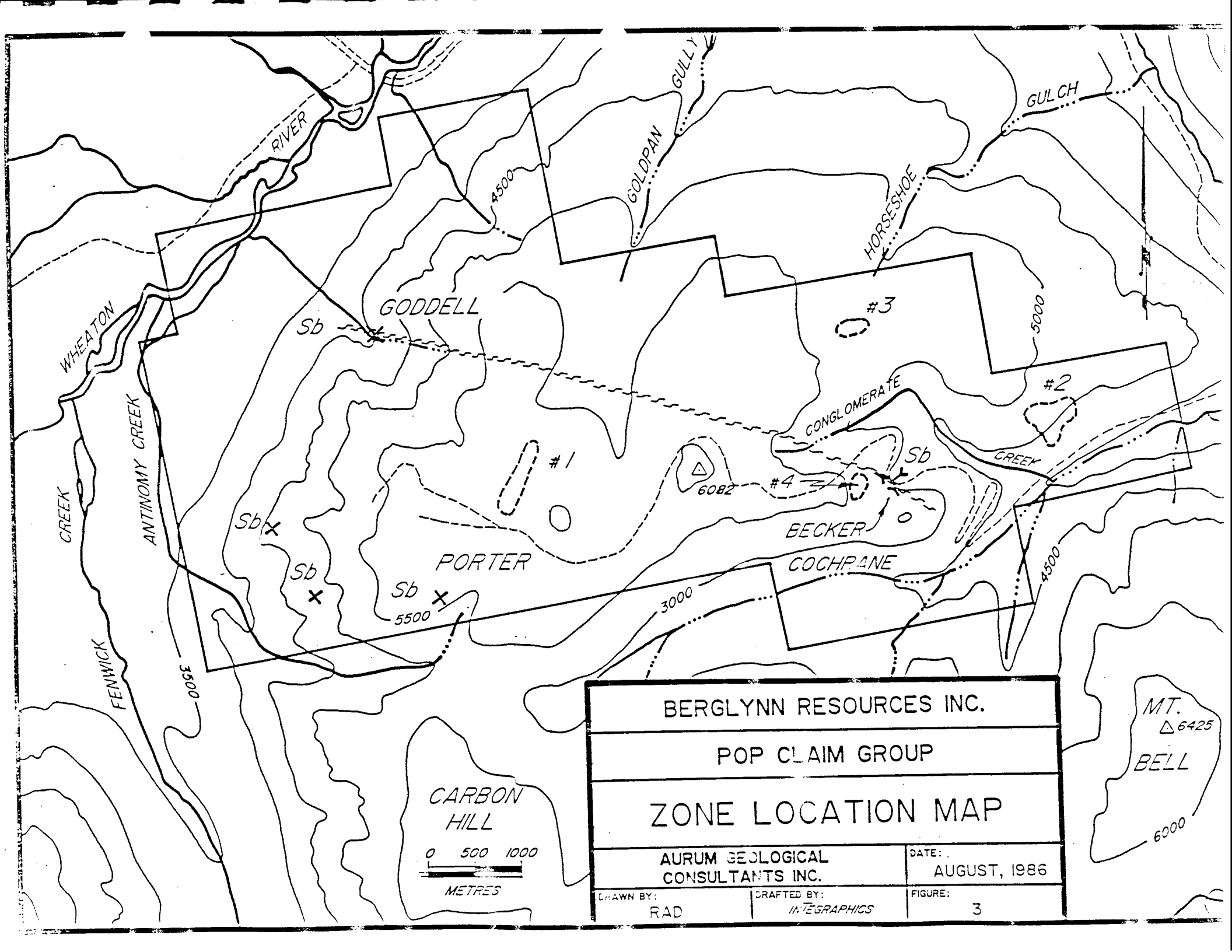
	<u>Au</u> (ppb)	<u>Ag</u> (ppm)	<u>As</u> (ppm)	<u>Sb</u> (ppm)	<u>Pb</u> (ppm)	<u>Zn</u> (ppm)	<u>Hg</u> (ppb)
ROCK (n = 106):							
- Background	12	0.52	27	5	42	83	13
- Threshold	24	1.00	54	10	84	166	26
- Anomaly	78	4.50	227	21	348	277	77
SOIL (n = 1745):							
- Background	25	0.33	25	10	54	108	-
- Threshold	50	0.66	50	20	108	216	-
- Anomaly	140	1.33	189	36	160	248	-

Areas discussed under the following sub-headings are shown on the Zone Location Map, Figure 3.

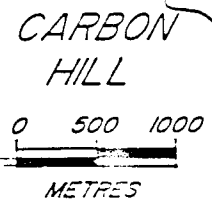
Goddell's Adit Area

This area is the locus of a strong 090-110° steep south dipping fault zone juxtaposing monzonite to the south against Tantalus conglomerate with monzonite to the north and with rhyolite dykes intruded along the fault zone.

Quartz + barite ± stibnite ± galena ± sphalerite ± jamesonite ± arsenopyrite veins fill the fault structure and splay faults below the 1300 meter elevation. The veins are commonly banded with dogtooth quartz margins and central quartz + barite + sulfide zones.



BERGLYNN RESOURCES INC.	
POP CLAIM GROUP	
ZONE LOCATION MAP	
AURUM GEOLOGICAL CONSULTANTS INC.	DATE: AUGUST, 1986
DRAWN BY: RAD	DRAFTED BY: INTEGRAPHICS
	FIGURE: 3



MT.
△ 6425
BELL

Alteration consists of quartz + carbonate ± sericite ± pyrite. Fluorite casts have been noted with coarse grained galena. At the base of the Goddell Gully, a moderately clay altered rhyolite breccia outcrops.

Sampling of veins exposed on the Goddell's Adit area has returned values of 0.38 ounces per ton Au and 2.4 ounces per ton Ag from a grab sample of >80% stibnite; and, in a 0.06 meter wide 118° trending quartz and stibnite vein, 0.17 ounces Au and 2.8 ounces Ag per ton. Results from additional sampling in this area confirm the presence of gold in the 0.1 to 0.3 ounces per ton range.

Antimony Creek

A poorly exposed vein outcrops in trenches and old road cuts above and north of Antimony Creek. The veins are similar to those in Goddell's Adit but altered wall rock is poorly exposed. Moderate density rock and soil geochemistry over the area has produced background values in soils and up to 2350 ppb Au and lower values of 900 ppb Au, 479 ppb Au and 130 ppb Au from quartz and barite ± stibnite veins. A 1985 sample, #221005, returned 0.09 ounces per ton Au and 76 ounces per ton Ag from this area, but the sample has not been accurately located.

060° Fracture Zone

A strong airphoto linear on steep cliffs between the Goddell Gully and Antimony Creek is a Tertiary age fault related to ring fracturing of the Mount Skukum Caldera. Narrow, 0.1 - 0.5 meters, quartz ± barite ± galena ± sphalerite ± stibnite veins are localized normal to this fault zone and show small 1-2 meters left lateral displacements where they cross the 060° fault. A number of veins in this area carry 100-200 ppb gold with 3-4 ounces per ton Ag as well as elevated values for Pb, Zn and Sb.

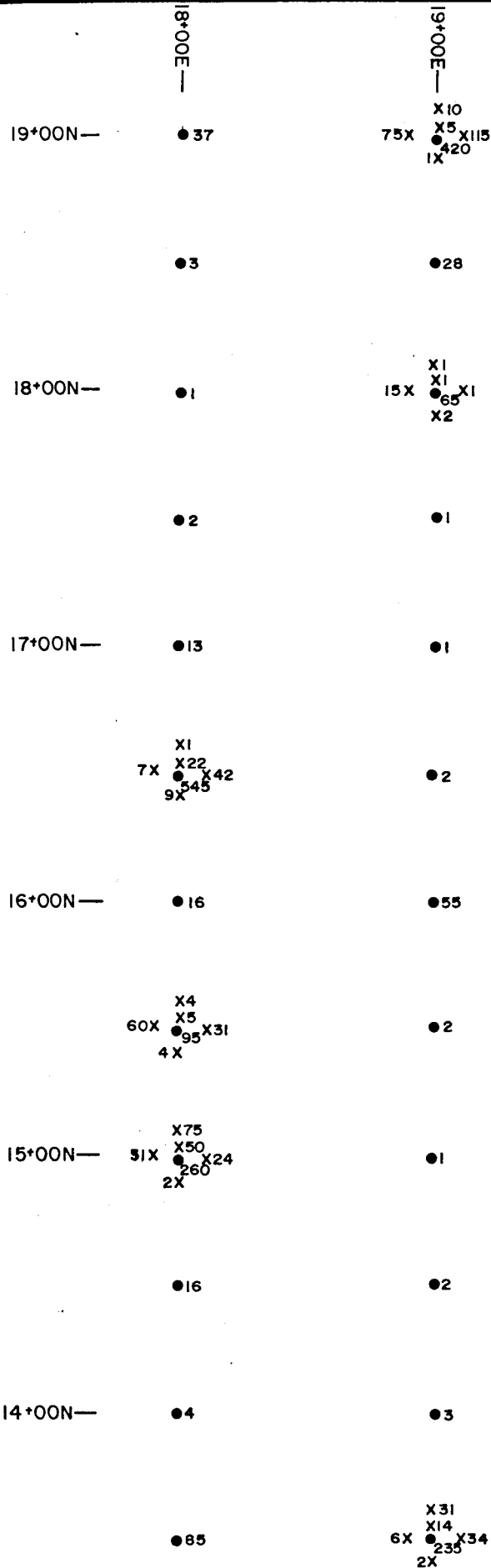
Within the 060° fault zone itself, there are narrow zones (0.25 meters) of clay gouge with very thin calcite and quartz veins which do not carry gold values.

This well-exposed fault zone is parallel to an inferred fault apparently 550 meters upslope which also produces a left lateral offset of approximately 50 meters on an 110° trending diorite dyke. A sample of calcite selvage on the margin of this dyke returned 2450 ppb Au and 25.0 ppm silver with only background values for the base metals.

Goldpan Gulch/Soil Anomaly #1 (Figure 4)

Initial values in soils returned 545 ppb Au and 420 ppb Au; repeat analyses and detailed sampling returned only background and threshold values.

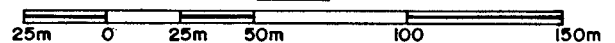
The anomaly occurs in a large overburden-filled depression on a strong northeast trending airphoto linear. Surrounding areas are underlain by Hutshi Group intermediate volcanics cut by Tertiary rhyolite dykes. The Cretaceous monzonite is not exposed nearby and this area may be a down-faulted block.



LEGEND

- 1985 Soil sample
- X 1986 Soil sample
- 55 Au values in p.p.b.

SCALE



POP CLAIMS - ANOMALY #1

GOLD PAN GULLY AREA
DETAIL SOIL SAMPLING: GOLD

Mining District WHITEHORSE

N.T.S. Sheet No. 105-D

FIGURE

Scale 1:2,500

4

Drawn by H.D.P.

Date 87/03/20

Conglomerate Creek/Soil Anomaly #2

Rhyolite dykes outcropping above soil anomaly #2 (895-1500 ppb Au) trend approximately 030° across the slope and also outcrop in Conglomerate Creek at an elevation 150 meters lower. In both areas, rock sampling has indicated anomalous gold values in the 95-245 ppb range, generally from siliceous brecciated dyke margins.

The high soil anomalies occur in fine grained talus chutes and most likely represent mechanical concentrations due to slope processes.

Horseshoe Gulch/Soil Anomaly #3 (Figure ⁵ #)

Fill-in soil sampling on a 20 x 20 meter grid spacing over soil anomaly #3 at the head of Horseshoe Gulch shows a strong 200 x 40 meter east-west trending gold anomaly (i.e. 1180 ppb Au at 2170N/3800E and 1890 ppb Au at 2150N/3780E with three other values >800 ppb, three >500 ppb and five >200 ppb). Silver values are all less than 0.9 ppm and mercury ranges from 30 to 160 ppb. Lead, zinc, antimony and arsenic are all at background values.

Directly southwest of the soil anomaly, a 70 x 5 meter outcrop of chalcedonic breccia in rhyolite outcrops; a further 400 meters on 216° trend (i.e. 036°) is a second outcrop of chalcedonic breccia alongside a rhyolite lapilli tuff. Adjacent to this is a thin grey-green rhyolite dyke, injected along a presumed fault and forming a weak siliceous zone at the contact with Tantalus conglomerate. Results to date indicate that the chalcedonic breccia contains low 50-137 ppb Au. The siliceous rhyolite returned from 900 to 1200 ppb Hg (Noranda sampling), with background gold values.

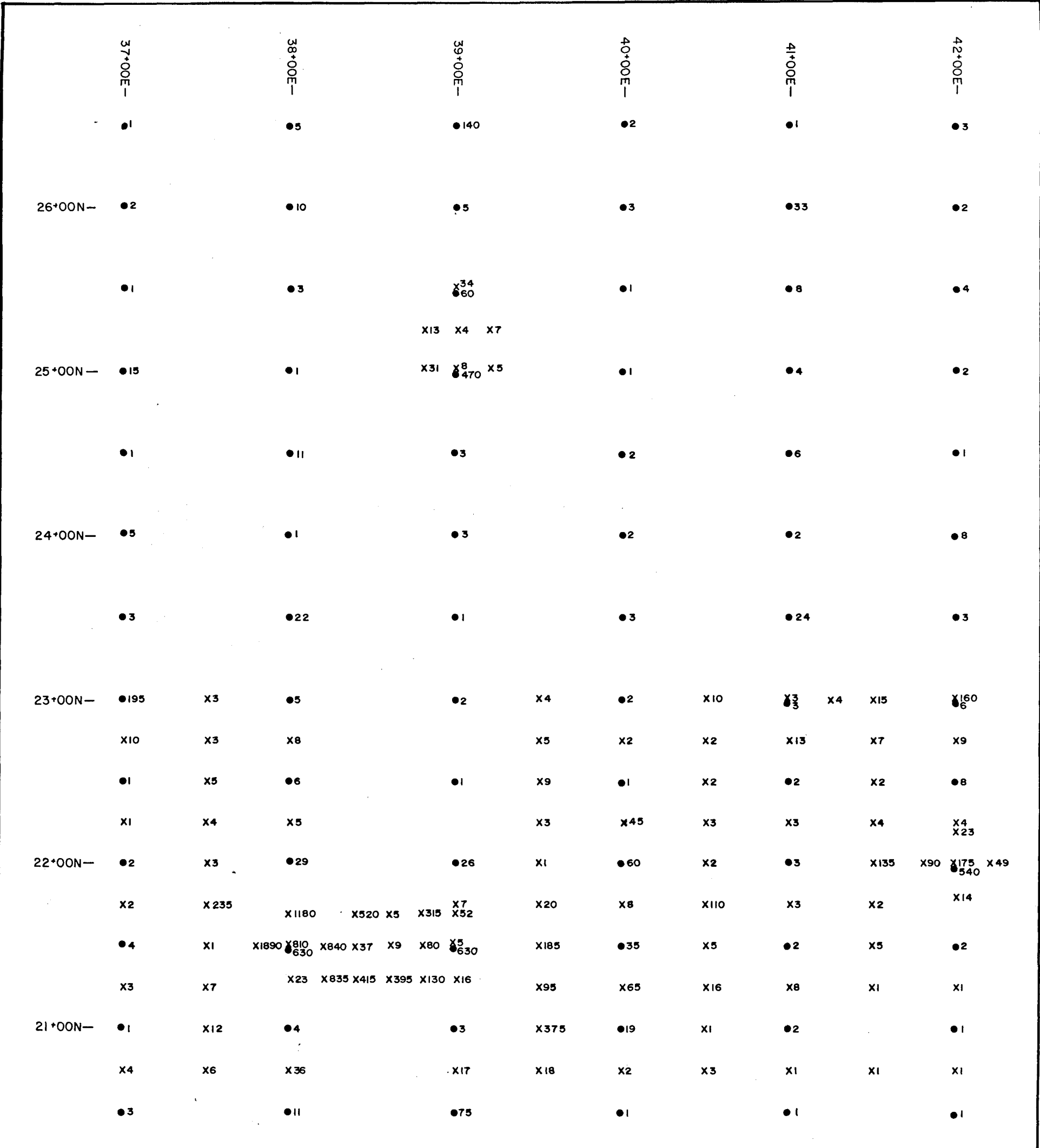
Adit Area/Soil Anomaly #4

A 1500 ppb gold anomaly with lower values (250 and 120 ppb) is situated up a steep gully above Adits #1 and #2 in the Becker-Cochran vein. Bull quartz vein float is ubiquitous about the anomalous area but sampling failed to return any significant values. Rock sampling of other lithologies in the area returned negative results.

Adit Rehabilitation and Sampling

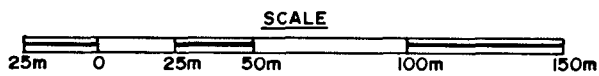
The Becker-Cochran #3 adit was rehabilitated, mapped and sampled for a distance of 95 meters along the crosscut from the portal. From this point, the original workings followed the main zone of stibnite mineralization by drifts along the structure to the northwest and southeast. Poor ground conditions at the crosscut-drift junction prevented access to this area of the underground workings. The drifts were described as badly caved at the time of the last underground examination (Holcapek, 1976).

The #3 adit portal is the lowest of the three portals in this area of the property (5150 feet elevation on maps of Con-Am Resources, 1976, and approximately 1550 meters on the topographic base map currently in use).



LEGEND

- 1985 Soil sample
- X 1986 Soil sample
- 55 Au values in p.p.b.



POP CLAIMS-ANOMALY #3	
HORSESHOE GULCH AREA DETAIL SOIL SAMPLING: GOLD	
Mining District WHITEHORSE N.T.S. Sheet No. 105-D Scale 1:2,500	FIGURE 5
Drawn by H.D.P.	Date 87/03/20

The crosscut trends approximately southsouthwest and intersects variable quartz + calcite ± sericite altered monzonite with numerous small shears containing quartz and/or calcite veinlets and areas of well-developed clay alteration and gouge.

Geology and sample locations are shown in Figure 7. Analytical results are in Appendix I. Samples are rock chips but interval lengths were not available to the writer. Gold and silver values in these samples are at background levels.

In October 1986 the portals of all three adits were boarded up to comply with mine safety regulations.

Backhoe Trenching

In September 1986 a trenching program was carried out using a CAT 225 tracked excavator from Arctic Backhoe of Whitehorse. The objective of this program was to test a number of gold anomalies established by grid soil sampling in 1985 and 1986. Because of a series of equipment breakdowns and heavy snowfall, the program was terminated in late September; at this time, only the "Goldpan Gully" area (anomaly #1 of Figure 3) had been tested.

Anomaly #1 is approximately centered on Line 18+00E/16+00N of the soil grid established in 1985 and extends from Line 17+00E/11+00N to Line 20+00E/20+00N. Elevation ranges from 5,900 feet in the south to 5,400 feet in the north. The anomaly and trenches are situated on the following claims: POP 25 (YA81478), POP 26 (YA81479), POP 27 (YA81480) and POP 49 (YA81502).

The anomaly is a long, broad (100 x 1,000meters) zone of elevated gold values ranging from 14 to 545 ppb with no attendant Ag, As or Sb anomalies. The zone trends due north and occurs in a broad, low gradient, north-facing gully. Not all sample locations throughout the 1,000 meter extent of the zone are anomalous; rather, the anomalous stations occur in clusters approximately every 200 meters. The zone is broadest at its southernmost extent. This area is coincident with a ridge/height of land, the head walls of Goldpan Gully, south of which the slope becomes steep and south-facing. The anomaly narrows towards the north.

Most of the trenches were established at an azimuth of 290°. This orientation was chosen to accommodate primarily the main north trend but also the vague east-west nature of portions of the zone. Trenches 11, 13, 14, 17 and 19 are at orientations other than 290°, either to test for east-west structures/zones or to accommodate topography. Most trenches were dug at or very near to anomalous soil sample locations, generally on the upslope side. Trenches 3, 12 and 18 were excavated between lines on anomalous sites to obtain geological information and to test the integrity of anomalous clusters.

Trenches 8 and 9 were filled-in once geology was noted and samples taken, because they were very deep, water saturated and unstable.

The trenches range in length from 10 to 63 meters and in depth from 0.3 to 4.5 meters, averaging 28.5 and 1.5 meters respectively.

Permafrost was encountered in portions of trenches 1, 4, 5 and 6. Excavation through this material to bedrock was time-consuming and was generally not carried out. In some cases, samples were collected above permafrost; these samples consist of soil plus angular rock fragments and were labelled 2D8001-8003. Most other trenches were free of permafrost, and bedrock was easily unearthed. The trenches and sample intervals were measured using a cloth chain. Sample intervals were marked with pickets placed outside the trench and labelled with sample numbers.

Bedrock was sampled along the lowest point within and parallel to the trench, using a continuous channel sampling method. An attempt was made to keep sample intervals 5 meters or less.

Geology

All of anomaly #1 is mantled by Quaternary soils and tills ranging in depth from 0.3 to 4.5 meters, where tested by trenching.

Generally, the geology consists of an intermediate volcanic package of Mesozoic age intruded by a grey, andesitic dyke or plug, Cretaceous monzonite and granodiorite, and Eocene rhyolite dykes.

Lithologies

(i) **Intermediate Volcanics**

This package is comprised of: a dull earthy green, relatively soft, andesitic, plagioclase porphyritic subvolcanic intrusive; green, locally pyritic andesitic lapilli to block tuff, and very minor, dull earthy green, soft, fine grained amygdaloidal (calcite) andesitic flows. The fragments within the andesitic tuff are angular to subrounded, polyolithic and matrix supported. Most of the fragments are intermediate in composition and contain 5-10% euhedral through anhedral 4 x 2 millimeters plagioclase phenocrysts. Minor light grey, pyritic fragments also occur within the tuff. The matrix is generally fine grained and commonly partially comprised of broken plagioclase crystals.

(ii) **Monzonite/Granodiorite(?)**

These plutonic rocks are spatially related. The monzonite is purple weathering, purple, generally medium grained and equigranular. The granodiorite(?) is an unusual brownish purple rock type. Its texture is variable from that of the monzonite, to fine grained, to very indistinct felsic-looking. It usually contains small chocolate brown to limonite yellow brown clots of Fe, Fe-Mg carbonates and Fe oxides, and is locally calcareous and pyritic.

(iii) **Grey Dyke/Plug**

This rock type weathers dark grey, is grey on fresh surfaces, very fine grained, fairly hard and plagioclase porphyritic. Locally, plagioclase and hornblende phenocrysts are present.

The plagioclase crystals are usually sparse and subhedral. Locally, anhedral masses of plagioclase occur in clusters, giving the rock a "snowflake" texture; elsewhere, a crowded porphyritic texture is approached with 25% euhedral-subhedral, grossly trachytoid plagioclase crystals. Epidote was observed in places along joints or as clots.

(iv) **Felsic Dykes**

Two types of felsic dykes/flows(?) were identified in the trenches. The more abundant type is a very white, very fine grained, generally mildly to strongly clay altered rhyolite. Locally, this rock contains tiny orange coated cavities and manganese oxide on fractures. The less abundant type occurs in Trench 1 and nearby outcrops. It is a grey-green to brown to subtly purplish, very hard, massive aphanitic to subtly banded dacite to rhyolite. Sample 2D1005 in Trench 1 contained tiny quartz gashes and spots of limonite disseminated throughout. A similar lithology was seen in outcrop 70 meters to the northnortheast. Here the rock is texturally variable but, for the most part, appears to be a flow-banded dacitic breccia.

Structure

Only in a few locations were structural measurements possible within the trenches. Foliation and joint orientations were obtained, mainly from nearby outcrops. Slaty cleavage is most well-developed in the clay altered rhyolite but it also affects the intermediate volcanics. The brown granodiorite is, in places, highly foliated, which appears to be the result of jointing or fracturing.

Joint sets occur within the homogenous monzonite and grey dyke.

The foliation in the intermediate volcanics trend from 030° to 060° and are steeply south-dipping to vertical. Only one measurement was obtained of slaty cleavage in the rhyolite - 000°/vertical.

Determination of stratigraphic trends within the intermediate volcanics is complicated by the abundant, randomly oriented dykes and the lack of exposure.

The felsic volcanics seem to have two general trends: 030° and 110°.

Evidence of faulting was observed in Trench 18 with an apparent trend of 170° to 000°. This trend is the same as the Goldpan Gully lineament.

Alteration/Mineralization

(i) **Pyritization**

Pyritization affected more than one rock type, but has a similar occurrence in different lithologies. The pyrite occurs as anhedral aggregates. The aggregates are generally fine grained and evenly disseminated throughout the rock in con-

centrations of 1-10%. This type of mineralization was observed primarily in the intermediate tuffs and becomes more prevalent in the northern trenches. Other rock types affected are the granodiorite(?), the intermediate subvolcanic and grey dyke. As well as occurring in otherwise unaltered rock, pyrite of the same nature occurs in bleached, altered zones.

(ii) **Silicification**

Silicified rocks were observed in Trenches 18 and 19 and in two large outcrops. A large block of silicified and pyritic rock was seen incorporated into the flow-banded dacitic breccia in the large outcrop 70 meters northnortheast of Trench 1. Very similar alteration was observed in outcrop 30 meters west of Trench 19. In both of these areas, the rock is pervasively silicified with fine disseminations of pyrite as described under "Pyritization". Rocks affected weather rusty but on fresh surface are very white and have a fine grained sugary texture. This type of silicification was also noted in Trench 18, affecting the grey dyke. Silica enrichment may also be part of another alteration.

(iii) **Quartz-Carbonate/Carbonate**

Narrow zones of massive, carbonate, brown weathering, hard alteration product occur in Trenches 13, 14, 17(?), 18 and 19. These zones are usually less than one meter wide and have very abrupt contacts. The granodiorite is locally calcareous and contains brown carbonate clots. Rocks near the fault zones in Trench 18 have been bleached to light grey and may be weakly carbonatized.

(iv) **Argillic Alteration**

Much of the white rhyolite in the south part of anomaly #1 is clay altered (kaolinized). In this area, this alteration is restricted to the white rhyolite. Alteration around the main fault in Trench 18 is probably mainly argillic.

Results

All samples taken were analyzed by ICP method for copper, lead, silver, arsenic and antimony, and by AAS for gold (Appendix I).

No significant enrichment in and of these elements was indicated. Only three of the 51 rock samples returned gold values greater than 5 ppb (2D1018 - 48 ppb; 2D1024 - 19 ppb; 2D1035 - 6 ppb). Silver in all samples ranged from 0.1 to 0.3 ppm, arsenic from 2 to 28 ppm, lead from 6 to 43 ppm, antimony from 2 to 10 ppm, and copper from 2 to 49 ppm.

CONCLUSIONS AND RECOMMENDATIONS

The POP property is underlain by Cretaceous monzonite to granodiorite intrusions with roof pendants of Yukon Group metasediments and Jurassic Tantalus conglomerate and Mesozoic(?) Hutshi Group volcanics. These are, in turn, cut by Tertiary age Mount Skukum Group rhyolites which occur as dyke swarms and flows predominantly on the eastern side of the property.

A major 4.0 kilometer, 110-115° trending fault structure with steep south dip cuts the monzonite Tantalus Formation and Hutshi Group volcanics and is probably pre-Tertiary in age.

This structure hosts a quartz ± barite ± stibnite ± base metal assemblage carrying up to 0.38 ounces of gold per ton at elevations below 1300 meters on the west side of the property.

Alteration in monzonite wall rock consists of quartz + Fe carbonate ± sericite ± pyrite. On the Goddell zone, chlorite and fluorite are also present.

The strong carbonate alteration in both the Goddell and Becker-Cochran veins is significant. High Fe-carbonate in fault zones probably indicates a high CO₂ content and records a period of boiling of a gas-rich fluid. Additionally, it suggests that if gold is present in this structure it is probably at much deeper levels - from both regional and property scale data, 1300-1350 meters elevation.

Tertiary rhyolite dykes also host anomalous gold to the 250 ppb level in silicified breccias and chalcedonic breccia zones. These anomalies are well removed from the main fault zone and represent either leakage halos or separate systems. These zones carry gold and mercury anomalies but have background values for Pb, Zn, Sb and As.

Backhoe trenching of the Goldpan Gully soil anomaly did not encounter any significant gold values in bedrock.

Additional backhoe trenching should be carried out to test the other major soil anomalies. Trench walls should be sampled to determine areas of gold enrichment in the overburden profile. The 1986 trenches should also be sampled in the same manner. Before trenching, brief prospecting and rock sampling programs should be conducted in areas of anomalous soil samples to determine what material is producing the gold enrichment in soil and permit accurate positioning of backhoe trenches in the most useful locations. Trial V.L.F. and magnetometer surveys should be conducted across the soil anomalies.

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- HYLANDS, J. J: 1966 - Petrology and Mineralogy of the Yukon Antimony Stibnite Deposit, Yukon Territory. B.Sc. thesis, U.B.C.
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LEGEND

QUATERNARY

- Qcl conglomerate
- Qbs basalt
- Tmb rhyolite breccia
- Tm rhyolite, (Tm-rhyolite porphyry)
- Tao rhyodacite
- Mso dacite
- Mnz monzonite
- Km quartz-monzonite, (Kz-mz - qtz monzonite porphyry)
- Mlf (lapilli) flow breccia
- Mau andesite, (Mau - andesite porphyry)
- Miv intermediate volcanic

JURASSIC

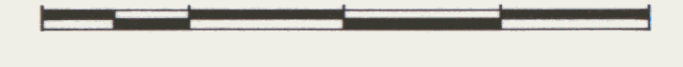
- Jst siltstone
- Jqt quartzite
- Jpc qtz-pebble conglomerate

HADRYNIAN

- Hmt meta-intrusive
- Hsm qtz-mica schist & gneiss

SYMBOLS

- outcrop boundary
- talus/felsenmerle boundary
- - - geological contact (defined, inferred)
- - - fault (defined, inferred)
- ||| bedding, flowbanding, foliation, lineation
- ||| adit
- ||| trench
- ==== road



BERGLYNN RESOURCES INC.
POP PROPERTY

POP CLAIMS
Geology and Sample Locations

Compilation by:
A. Doherty, G. Nicholson, R. Zuran

Aurum Geological Consultants Inc. Aug. 1986

NTS 105 0/3 Drawn by RZ Scale 1:5000 Figure 6a

1013

091931

POP 23-70 CLAIM BOUNDARY

POP 103-104 fractions



BERGLYNN RESOURCES INC.
POP PROPERTY

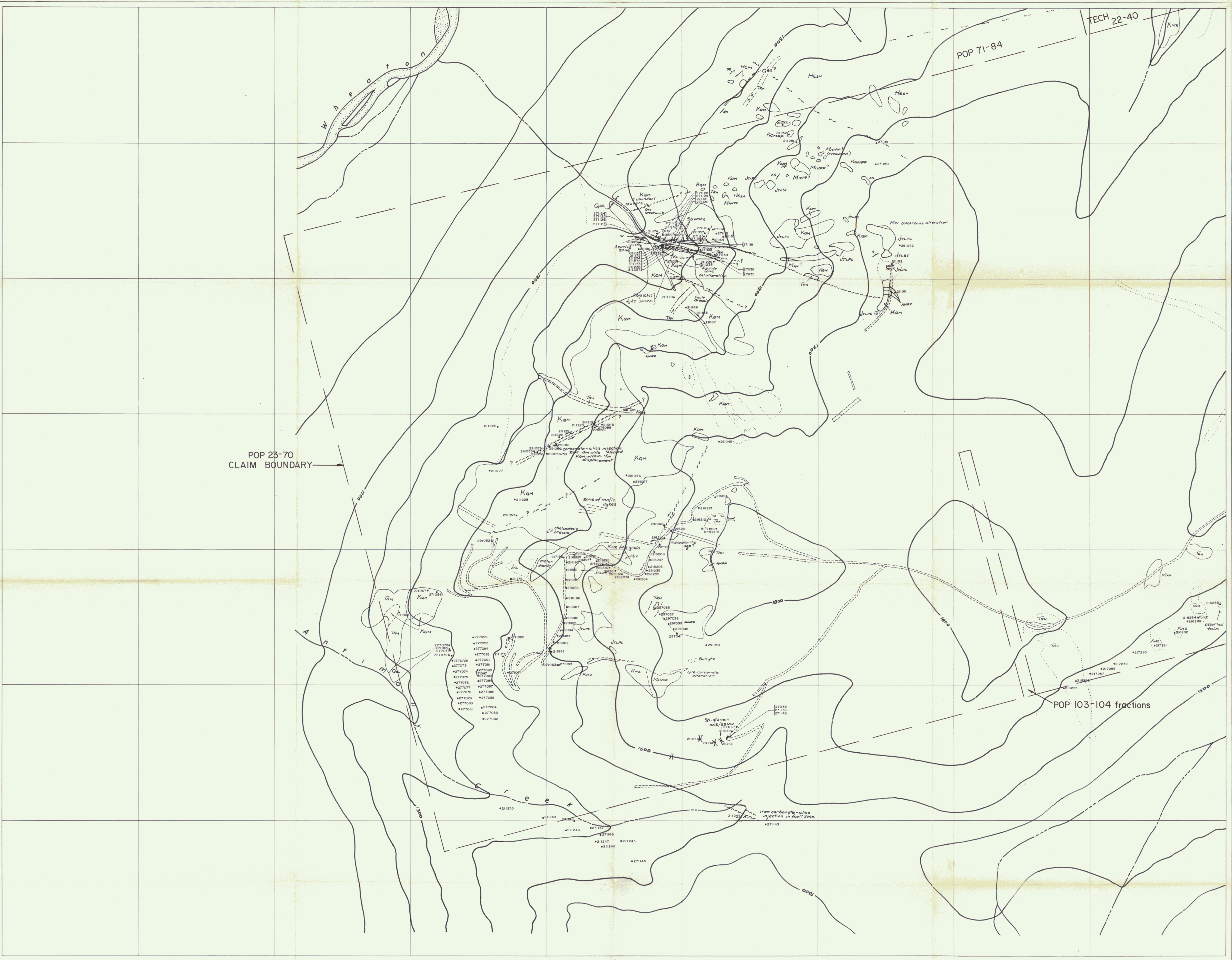
POP CLAIMS
GEOLOGY AND SAMPLE LOCATIONS

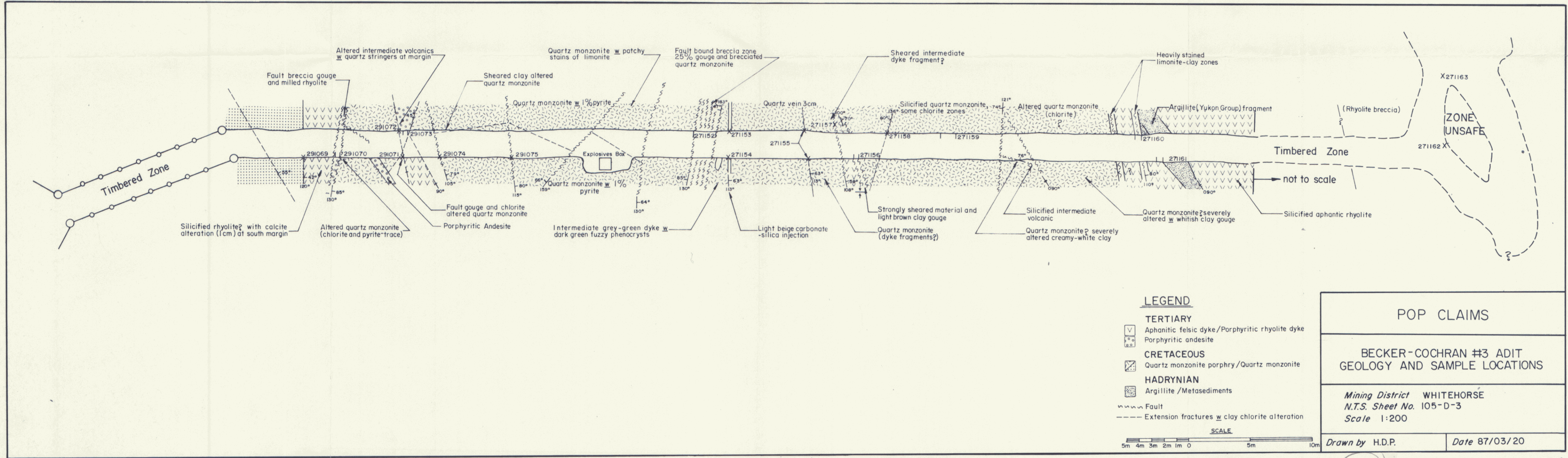
Aurum Geological Consultants Inc. Aug. 1986

NTS 105-D Drawn by R.Z. Scale 1:5,000 Figure 6b

(1014)

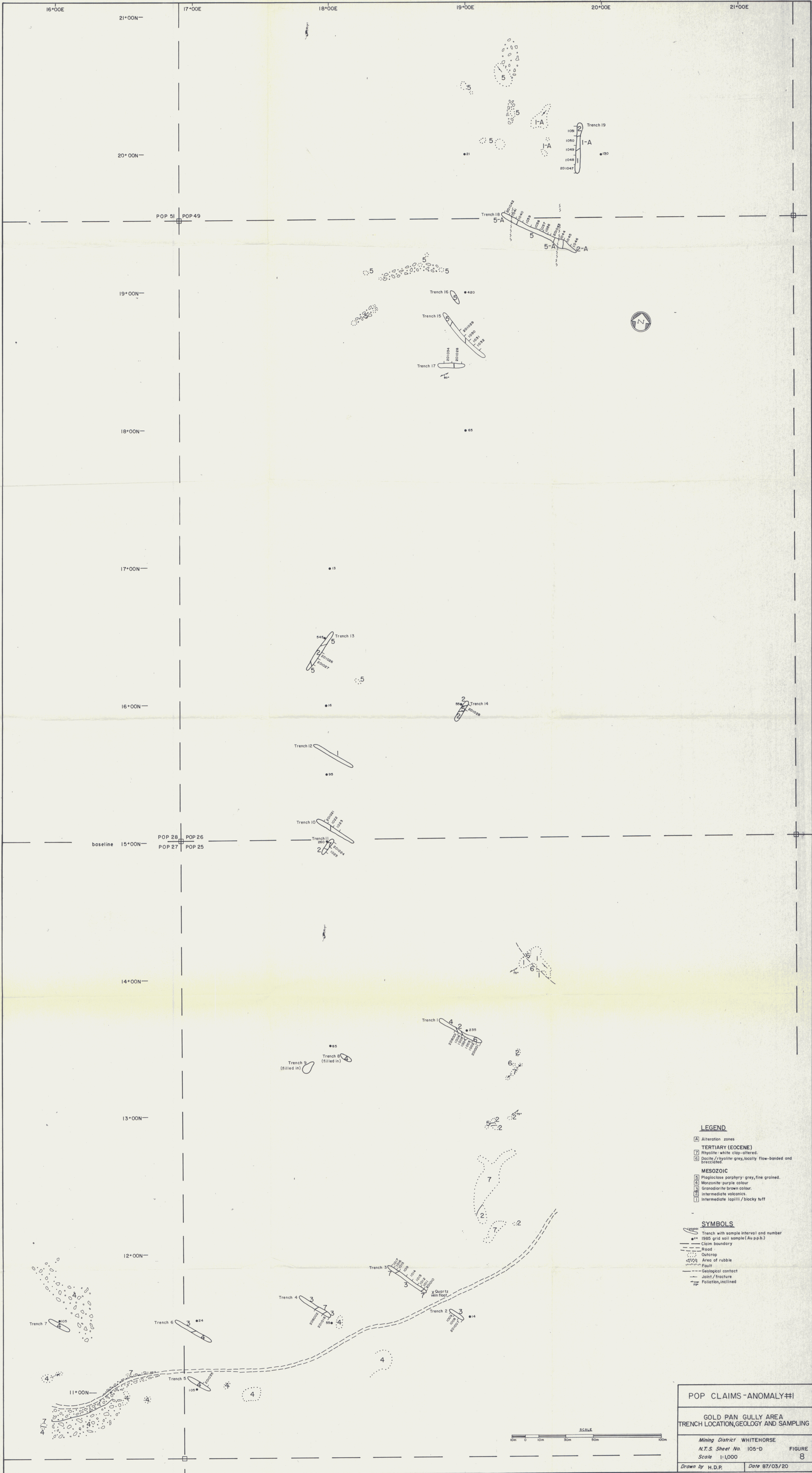
091931





1015

091931



LEGEND

ALTERATION ZONES

TERTIARY (EOCENE)

7 Rhyolite: white clay- altered.

6 Dacite / rhyolite grey, locally flow-banded and brecciated.

MESOZOIC

5 Plagioclase porphyry: grey, fine grained.

4 Monzonite: purple colour.

3 Granodiorite: brown colour.

2 Intermediate volcanics.

1 Intermediate lapilli / blocky tuff.

SYMBOLS

Trench with sample interval and number

1985 grid soil sample (Au p.p.b.)

Claim boundary

Road

Outcrop

Area of rubble

Fault

Geological contact

Joint / fracture

Foliation, inclined

POP CLAIMS - ANOMALY #11

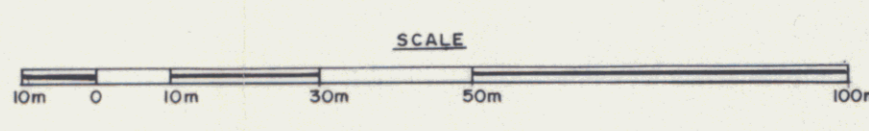
**GOLD PAN GULLY AREA
TRENCH LOCATION, GEOLOGY AND SAMPLING**

Mining District: WHITEHORSE

N.T.S. Sheet No. 105-D FIGURE 8

Scale 1:1,000

Drawn by H.D.P. Date 87/03/20



APPENDIX I

ANALYTICAL RESULTS

- (1) Surface Rock and Soil Analyses

ACME ANALYTICAL LABORATORIES LTD.
 152 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 TEL 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 23 1986

DATE REPORT MAILED: *July 1/86*.....

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1 ROCKS P2 SOILS -80 MESH AU ANALYSIS BY AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - POP 86 FILE # 86-1162 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	Hg PPB
211124	30	48	.2	21	3	24	10
211125	15	79	.1	2	2	2	20
211126	17	18	.1	6	7	6	5
211127	21	106	.1	60	4	1	5
211128	46	171	.5	7	3	2	5
211129	11	16	.4	8	2	3	5
211130	21	63	.1	3	2	1	10
211131	16	55	.1	6	2	1	10
211132	15	53	.1	2	2	1	5
211133	22	52	.2	2	2	1	5
271000	13	49	.1	8	2	1	5
271001	15	42	.1	2	2	1	5
271002	11	49	.1	4	2	2	5
271003	28	49	1.8	211	3	6	30
271004	17	36	.1	4	2	1	5
271005	12	47	.1	2	2	23	5
271006	27	48	2.3	15	2	215	10
271007	28	41	.4	6	2	50	10
271008	16	89	.1	43	2	42	5
271009	24	39	.4	45	2	150	10
271010	19	45	.1	5	2	4	5
271011	19	63	.2	2	6	5	5
271012	24	68	.3	2	2	7	20
271013	26	67	.4	2	2	6	10
271014	21	57	.3	3	2	4	5
271015	15	43	.1	2	2	3	5
271016	17	51	.1	2	2	1	5
271017	18	34	.2	2	2	4	5
271018	21	89	.1	8	2	2	5
271019	19	66	.1	2	2	1	5
271020	16	56	.2	4	2	1	5
291010	58	166	.9	2	2	2	200
291011	13	39	.1	3	2	1	5
291012	14	67	.5	13	2	6	5
STD C/AU-0.5	42	140	7.1	42	15	500	1300

POP 23-70

Q12 UNL-6.104

CME ANALYTICAL LABORATORIES LTD.
 1 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 27 1986

DATE REPORT MAILED: *June 30/86*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. J. Deegan* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES		PROJECT - POP-86		FILE # 86-1194		PAGE 1
SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
211134	29	103	.1	4	2	1
211135	28	113	.1	3	2	2
211136	1569	700	1.9	6	23	9
211137	26	35	.2	3	3	3
211138	61	30	1.2	2	15	1
211139	13	68	.1	8	2	8
211140	32	89	.5	29	4	3
211141	33	103	.5	17	2	5
211142	23	28	.2	4	3	7
211143	19	27	.2	4	2	3
211144	22	44	.4	35	5	23
211145	44	104	.2	7	3	3
271022	27	73	.2	32	6	19
271023	27	40	.2	2	2	1
271024	23	61	.2	6	2	1
271025	27	68	.2	6	2	1
271026	22	88	.5	2	2	2
271027	12	61	.4	4	6	5
271028	22	30	.2	5	2	8
271029	40	100	.3	15	4	27
271030	17	89	.2	9	3	3
271031	9	44	.1	9	3	4
271032	32	53	.1	30	2	8
271033	24	41	.5	15	2	34
271034	23	82	.5	14	6	12
291013	15	3	1.6	15	3	170
291014	13	66	.1	6	4	19
291015	10118	695	20.1	2	2	20
STD C/AU 0.5	39	133	7.1	39	15	500

POP 23-70

POP 23-70

POP 23-70

CANB STAD...

5-11/14

ANALYTICAL LABORATORIES LTD.
HASTINGS ST. VANCOUVER B.C. V6A 1R6
253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 7 1986

DATE REPORT MAILED: July 8/86

GEOCHEMICAL ICP ANALYSIS

500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
SAMPLE TYPE: SOILS & ROCKS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *Deane Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BECOLYNN RESOURCES		PROJECT - POP-86		FILE # 86-1339		PAGE 1	
SAMPLE#		Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
L3900E	570N	48	77	.4	18	6	4
L3900E	550N	37	88	.6	17	5	4
L4000E	775N	78	77	.6	14	3	4
L4025E	750N	66	87	.3	14	4	1
L4075E	625N	57	104	.4	12	4	65
L4100E	625N	53	88	.3	12	2	3
211149		23	63	.2	17	2	2
211151		15	70	.2	2	2	1
211152		12	116	.2	4	4	1
211153		104	222	.3	9	25	1
211154		17	69	.2	14	6	1
211155		16	113	.4	8	3	1
211156		13	67	.7	50	2	9
211157		350	200	1.4	3	2	1
271038		15	42	.1	9	5	1
271039		12	30	.1	2	2	1
271040		23	99	.1	3	2	1
271041		28	68	.2	2	2	1
271042		20	81	.2	26	4	5
271043		12	114	.2	7	2	1
271044		17	93	.1	2	2	2
271045		46	112	.4	16	8	2
271048		19	104	.2	7	2	3
271049		37	73	.1	14	2	3
271050		84	254	1.1	10	2	5
271051		26	117	.1	19	12	1
271052		21	84	.1	2	2	1
291027		11	37	.1	5	2	10
291028		8	14	.1	2	2	1
291030		18	184	.2	445	20	2
291031		50	233	.3	878	57	8
291033		20	113	.2	40	44	2
291034		14	99	.1	13	12	1
292024		43	86	.1	5	8	1
292029		64	3	1.3	17	33	1
STD C/AU	0.5	36	136	7.0	43	16	495

POP 15-22

POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
4000E 2075N	48	110	.1	9	13	2
4050E 2300N	47	101	.2	24	16	10
4050E 2275N	44	96	.3	10	13	2
4050E 2250N	61	101	.1	16	23	2
4050E 2225N	39	109	.1	23	17	3
4050E 2200N	46	114	.1	22	20	2
4050E 2175N	40	105	.1	18	15	110
4050E 2150N	34	82	.2	91	11	50
4050E 2125N	47	111	.1	27	13	16
4050E 2100N	74	139	.3	13	25	1
4050E 2075N	32	125	.4	14	14	3
4100E 2275N	29	78	.1	17	5	13
4100E 2225N	43	157	.1	24	6	3
4100E 2175N	51	98	.1	17	12	3
4100E 2125N	87	103	.2	21	5	8
4100E 2075N	78	131	.1	19	6	1
4150E 2300N	37	74	.1	12	11	15
4150E 2275N	30	104	.1	24	13	7
4150E 2250N	21	73	.1	25	16	2
4150E 2225N	30	106	.1	25	14	4
4150E 2200N	34	69	.1	38	2	135
4150E 2175N	35	82	.6	14	7	2
4150E 2150N	58	103	.2	15	4	5
4150E 2125N	102	122	.1	16	23	1
4150E 2075N	44	81	.1	13	13	1
4200E 2275N	31	76	.1	19	9	9
4200E 2225N	31	97	.1	24	10	4
4200E 2125N	58	110	.3	18	2	1
4200E 2075N	46	73	.2	11	15	1
297036	108	186	.4	359	69	30
297037	37	93	.2	18	18	7
297038	81	112	.1	25	4	5
297039	55	104	.2	19	4	6
297040	56	112	.1	11	2	6
297041	60	77	.3	21	11	4
STD C/AU 0.5	36	139	7.1	43	15	520

POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	
211159	9	65	.6	19	2	12	
211160	15	71	.1	7	5	2	
211161	14	103	.2	4	2	1] Pop 23-70
211162	6	34	.2	15	9	3	
211163	10	27	.1	12	4	7	
211164	14	138	.4	300	11	2	— Pop 23-70
271053	6	73	.1	4	3	1	
271054	12	67	.2	6	2	1	
291035	5	12	.1	4	12	4	— Pop 23-70
292042	160	55	1.3	2	2	2	— Pop 23-70
292043	2	11	.1	2	2	1	
292044	155	25	.2	5	13	1	
STD C/AU 0.5	41	137	7.1	35	16	510	

THE ANALYTICAL LABORATORIES LTD.
 850 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 TEL 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 16 1986

DATE REPORT MAILED: *July 21/86...*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy*. DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - FOP-86 FILE # 86-1493 PAGE 1

SAMPLE#	Pb	Zn	Ag	As	Sb	Au*	
	PPM	PPM	PPM	PPM	PPM	PPM	PPB
211167	29	37279 ✓	.1	513	9	59] Pop 23-70
211168	3169	16213	8.4	93	157	40	
211169	16	201	.1	34	6	3	
211170	21	87	.1	2	2	1	
211171	96	86	.7	39	6	9	
<i>- grab</i> 211172	2	8763	98.9 ✓	2	26420 ✓	13100] 38 opt
211174	2	1250	10.7	2	33253 ✓	84	
211176	153	419	1.9	9	634	51	
272055	156	135	.8	2	4171	5	
271056	9	76	.1	2	36	1	
271058	13	81	.1	7	37	2	- Pop 23-70
271060	70	1870	2.7	5	20	12	
271061	120	701	.9	52	747	225	
271062	68	80	2.3	2	17	6] Pop 23-70
291045	42	12	3.4	4	21	14	
291046	340	1057	6.9	10	32	30	
291047	4735	1863	109.4 ✓	194	1735 ✓	170] 2107 opt
291048	2	6	25.0	21	2	2450	
291049	51	87	.5	10	9	8	
STD C/AU 0.5	38	134	7.0	41	15	500	

~~Assay~~ Assay required for correct result —

ADMET ANALYTICAL LABORATORIES LTD.
 15. E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 18 1986

DATE REPORT MAILED: *July 24/86*.....

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.

SAMPLE TYPE: SOIL -80 MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

12-Rocks
 ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - POP 86 FILE # 86-1541 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
216181	54	18	.3	14	14	22
216182	64	25	.2	10	12	13
216183	161	53	.4	27	17	18
216184	54	24	.2	22	13	9
216185	67	60	.1	22	22	7
216186	46	75	.3	27	43	6
216187	45	105	.3	28	69	8
216188	78	136	.3	95	72	9
216189	99	72	.5	216	85	90
216190	59	81	.3	44	1506	7
216191	43	87	.2	40	142	17
216192	51	81	.2	31	110	5
216193	18	82	.3	7	19	1
216194	73	106	.3	65	358	7
216195	67	110	.4	88	523	13
216196	69	127	.4	76	203	12
216197	68	94	.2	64	66	10
216198	67	98	.3	57	82	7
216199	68	83	.3	87	66	8
216200	58	55	.1	63	69	51
216201	87	113	.4	77	99	7
216202	107	130	.4	45	152	5
216203	107	130	.4	66	145	20
216204	257	207	1.0	37	110	4
216205	65	147	.4	101	50	2
216206	56	61	.4	25	25	8
216207	133	96	.8	51	42	1
216208	40	108	.7	13	25	1
216209	43	112	.7	19	28	2
216210	164	172	1.0	27	26	4
216211	34	99	.6	23	32	3
216212	415	353	1.7	29	49	8
216213	166	200	.8	17	22	7
216214	66	149	.5	331	23	110

POP 23-70

POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	
211177	4045	18461	241.7 ✓	62	2	900	X - POP 23-70
211178	401	635	5.2	294	1028 ✓	47	
211179	153	211	2.6	24	1040 ✓	14	
211180	37	10	.4	25	436	4	
271062	1446	380	18.7	11	186	34	
271063	199	225	2.9	6	24	9	
271064	692	759	13.3	137	2	130	
271065	10033 ✓	8167	253.8 ✓	20	8675 ✓	425	X POP 23-70
271066	133	283	2.0	15	185	9	
271067	56	40	1.1	3	61	1	
271068	17	25	.2	2	19	1	
291050	17	67	.1	4	13	1	
291051	587	10112	26.2	21	2	24	
291052	216	1833	56.8 ✓	24	2	12	X POP 23-70
291053	92	201	1.2	8	1030	44	
STD C/AU-0.5	42	143	7.1	38	15	500	

✓ Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.

DATE RECEIVED JULY 1986

PHONE: (604) 253-3158 COMPUTER LINE: 251-1011

DATE REPORTS MAILED *July 23/86*

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AG ** AND AU** BY FIRE ASSAY

ASSAYER *D. Toye* DEAN TOYE . CERTIFIED B.C. ASSAYER

BERGLYNN RESOURCES PROJECT POP 86 FILE# 86-1541 R

SAMPLE	Ag** oz/t	Au** oz/t	
211177	7.58	.032	1097 r/t
271065	7.95	.014	479 ppb
291052	1.93	.001	(34ppb)

ME ANALYTICAL LABORATORIES LTD.
 52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 23 1986

DATE REPORT MAILED: *July 26/86*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: SOILS -80 MESH AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

12-Rocks

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - POP-86 FILE # 86-1616 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
276098	17	85	.2	10	7	2
276102	50	113	.4	4	6	1
277070	49	165	.4	8	20	1
277071	90	218	.5	12	36	4
277072A	67	156	.1	21	15	2
277072B	28	80	.1	22	8	1
277073	34	78	.2	29	19	1
277074	32	76	.2	15	11	1
277075	43	94	.4	21	15	18
277076	49	118	.6	14	15	1
277077	45	113	.3	19	10	1
277078	49	114	.3	15	9	3
277079	41	153	.5	20	6	2
277080	46	121	.2	24	10	1
277081	44	85	.6	8	8	4
277082	92	108	1.0	15	11	6
277083	62	126	.7	32	3	5
277084	57	105	.5	45	15	2
277085	55	134	.8	45	13	15
277086	46	99	.5	29	7	8
277087	63	97	.8	34	5	16
277088	38	73	.6	20	12	17
277089	33	39	2.3	784	9	32
277090	41	93	.2	47	14	1
277091	44	84	.2	42	10	8
277092	49	81	.5	76	23	10
277093	59	125	.7	37	87	7
277094	52	125	.2	23	17	2
277095	44	94	.1	30	107	1
277096	27	74	.2	29	56	1
STD C/AU-0.5	40	140	7.0	40	16	480

— POP 23-70

POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	
211215	11	23	.3	12	2	160] POP 23-70
211218	46	23	1.5	2	2	21	
211220	79	1606	7.2	2	34	22	
211221	8826	46581	373.1	28	696	280	
216219	24	70	.4	2	4	1	
271069	30984	8002	354.5	2	4914	2350	POP 23-70
271097	79	44	1.8	2	17	12	
271099	37	63	.4	4	2	1	
271100	182	82	5.8	2	29	53	
271101	102	3390	4.4	2	2	11	
271103	245	3687	9.7	2	10	16	
STD C/AU-0.5	38	139	7.3	41	17	525	

✓ Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: JULY 23 1986

DATE REPORT MAILED: *July 26/86*

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS FOR 10 GRAM REGULAR ASSAY

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES

PROJECT-POF-86 FILE # 86-1616A

PAGE

SAMPLE#	Ag OZ/T	Au OZ/T		
211216	.01	.004	<i>177/86</i>	- POF 23-70
211217	3.30	.003	<i>102/86</i>	
211222	4.11	.006	<i>205/86</i>	- POF 23-70
271104	2.63	.001		

THE ANALYTICAL LABORATORIES LTD.
 27 HASTINGS ST. VANCOUVER B.C. V6A 1R6
 TEL. 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 28 1986

DATE REPORT MAILED: *July 30/86*

GEOCHEMICAL ICP ANALYSIS

500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Deys* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - POP-86 FILE # 86-1694 PAGE 1

SAMPLE#	Ag PPM	As PPM	Sb PPM	Ba PPM	Au* PPB
<i>-all #2</i> 211123	.1	14	6	211	3
211124	.1	9	8	177	1
211125	.1	6	3	178	2
211126	.5	2	2	620	210
211127	1.5	3	13	362	2
211128	23.7	52	212	183	32
271105	.3	18	6	82	50
271106	.1	5	2	87	1
271107	1.8	4	4	860	1
271108	2.0	2	2	731	1
271109	16.0	4	9	48	18
271110	1.1	2	4	99	9
271111	.5	2	5	584	2
271112	.2	6	7	163	1
271113	.3	3	4	156	1
291055	4.2	20	26	29	40
291056	.4	2	4	260	2
291057	.1	2	5	1535	2
291058	4.0	59	2	118	51
291059	1.8	8	8	52	7
291060	3.1	5	3	243	4
291061	1.8	39	2	427	33
292054	.3	17	7	45	80
STD C/AU-0.5	7.0	40	15	188	495

POP 23-70

POP 23-70

ME ANALYTICAL LABORATORIES LTD.
 22 HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 30 1986

DATE REPORT MAILED: *Aug. 11/86*

GEOCHEMICAL ICP ANALYSIS

500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. J. J.* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES		PROJECT-POP-86			FILE # 86-1747	PAGE 1	
SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PFB	
211229	32	148	12.9	331	1194	70	— POP 23-70
211230	57	148	.2	171	43	5	
211231	20	250	.3	165	28	390	
211232	44	106	.3	1497	5	8	
211233	33	54	.3	9	42	1	
211234/	36	8239	95.7	13	36605	10900	} POP 23-70
211235/	99	4218	17.4	288	31625	5260	
211236/	56	2927	71.4	2	34866	9300	
211237/	40	4105	132.3	35	36674	9200	
211238/	59	6748	16.2	243	33073	4380	
211239	2530	220	23.5	185	1562	48	} POP 23-70
211240	16	148	.2	5	179	8	
211241/	24408	24032	349.1	10	4736	695	
211242/	23342	57787	290.9	15	14308	450	
211243/	3078	15389	234.9	10	34281	550	
211244	168	293	1.3	7	219	2	} POP 23-70
271114	401	5688	11.6	11	1232	10	
271115	45	131	1.1	2	48	3	
271116	600	264	6.7	2	78	4	
271117	13	41	.2	9	22	1	
271118	157	8969	2.6	4	34	4	} POP 23-70
271119	17	171	.2	86	35	2	
271120/	5720	8033	21.3	907	23156	150	
271121	54	96	.4	33	80	2	
271122	291	529	2.5	49	171	18	
271123	30	607	2.7	893	5728	9320/	} POP 23-70
271124	17	37	.5	13	25	9	
271125	63	62	1.4	9	24	35	
271126	35	213	.6	39	15	2	
271127	215	1368	10.2	157	30326/	3650/	
271128	59	153	.5	24	91	24	} POP 23-70
271129	38	183	.5	17	126	15	
271130	221	1452	2.8	180	10547/	1890/	
271131	101	315	.3	15	48	5	
271132	75	638	.6	322	117	45	
271133	155	140	.3	29	22	7	} POP 23-70
STD C/AU-0.5	42	135	6.9	38	16	500	

✓ assay required for correct result

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
271134	31	74	.4	2899	3984/	295
271135	934	2236	4.0	3365	1280/	85
271136	1154	908	14.9	1514	498	4880/
271137	8	52	.2	13	11	15
271138	20	63	.2	18	9	30
271139	1672	5598	22.1	52	624	45
271140	1264	4358	15.3	28	158	130
271141	54	105	.8	225	29	6
271142	1623	25904/	11.1	54	15637/	26
292062	17	75	1.0	4	63	1
292063	105	134	.4	9	132	3
292064	81	64	.5	28	10	1
STD C/AU 0.5	36	136	6.8	43	16	510

POP 23-70

POP 23-70

✓ Assay required for correct result

ALME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED JULY 30 1986

DATE REPORTS MAILED *Aug 4/86*

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.
Hg - STANDARD BASE METAL DIGESTION, COLD VAPOUR REDUCTION AA ANALYSIS.
Tl - .50 GM. 1:1 HNO3 DIGESTION. GRAPHITE FURNACE AA ANALYSIS.

ASSAYER *D. Joyce* DEAN TOYE , CERTIFIED B.C. ASSAYER

BERGLYNN RESOURCES PROJECT POP-86 FILE# 86-1747A

PAGE# 1

SAMPLE	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppb	Tl ppm	Ag oz/t
1065	21	30	35	2	40	.1	.08
1066	22	22	13	3	30	.2	.07
1067	13	7	13	2	150	.1	.07

} POP
23-70

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED JULY 30 1986

DATE REPORTS MAILED Aug 4/86

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.
AU (1 A/T) BY FIRE ASSAY
ND = NONE DETECTED

ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

BERGLYNN RESOURCES PROJECT POP-86 FILE# 86-1747A PAGE# 1

SAMPLE	SAMPLE -100 mesh		NATIVE Au	AVERAGE Au
	Weight gm	Au oz/t		
291065	260	.001	ND	.001
291066	250	.002	ND	.002
291067	240	.001	ND	.001

POP 23-70

ME ANALYTICAL LABORATORIES LTD.
22 E. HASTINGS, VANCOUVER B.C.
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED AUG 12 1986
DATE REPORTS MAILED *Aug 18/86*

ASSAY CERTIFICATE

SAMPLE TYPE : PULF
AG** AND AU** BY FIRE ASSAY

ASSAYER *D. Toye* DEAN TOYE . CERTIFIED B.C. ASSAYER

BERGLYNN RESOURCES PROJECT POP-86 FILE# 86-1747 R PAGE# 1

SAMPLE	Ag** oz/t	Au** oz/t
211234	3.05	.299
211235	.54	.142
211236	2.27	.270
211237	4.15	.169
211238	.49	.118
271123	.08	.265
271127	.33	.115
271130	.08	.078
271136	.45	.131

POP 23-70

ACME ANALYTICAL LABORATORIES LTD.
 252 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 6 1986

DATE REPORT MAILED: *Aug 11/86*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT-POP-86 FILE # 86-1870 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
211245	33	25	.2	3	2	1
211246	33	43	.3	3	2	1
211247	19	118	.1	6	2	1
211248	23	52	.2	2	2	1
211249	30	119	.2	5	2	1
211250	26	15	.2	7	6	1
211251	21	6	.1	127	4	1
211252	35435 ✓	6870	161.9 ✓	215	1308 ✓	6
211253	9076	6205	154.5 ✓	264	1231 ✓	8
211254	301	67	1.3	11	17	1
271143	59	46	1.0	3	10	1
271144	39	16	.3	2	5	1
271145	34	146	.4	9	2	1
271146	43	65	1.0	3	4	1
271147	34	41	.4	2	9	1
271148	18	78	.1	6	2	1
271150	38	41	.6	5	2	2
271151	10	37	.2	3	3	1
291068	7896	943	15.7	148	255	7
291069	34	141	.3	18	2	1
291070	58	110	.5	24	3	1
291071	47	158	.4	13	10	1
291072	17	129	.3	16	2	1
291073	94	330	2.6	16	7	1
291074	216	195	3.8	8	5	5
STD C/AU-0.5	40	142	7.0	43	15	505

POP 23-70

POP 23-70

POP 23-70

Adit

Assay required for correct result →

BERGLYNN

ANALYTICAL LABORATORIES LTD.
202 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 8 1986

DATE REPORT MAILED: *Aug 12/86...*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL -BOMESH AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *P.S. Rocks* *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - FOP-86 FILE # 86-1927 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	
216255	271	177	.4	15	25	3] POP 23-70
216256	111	132	.2	20	21	410	
216262	62	117	.2	11	9	1	
216263	51	97	.2	12	12	1	
216264	48	115	.5	14	10	1	
216265	75	128	.2	20	10	1	
216266	39	92	.2	22	13	1	
216267	73	135	.7	46	43	1	
216270	42	77	.6	12	8	2	
216271	35	78	.6	13	4	7	
216272	26	65	.5	10	3	65] POP 23-70
216277	97	101	.8	15	2	8	
216278	349	549	1.9	19	2	9	
217257	256	192	.3	24	26	5	
217258	169	156	.3	16	17	4	
217259	118	114	.4	20	15	1	
217260	64	124	.2	13	10	1	
217261	45	97	.3	8	8	4	
217268	99	136	.3	26	27	3	
217269	110	126	.4	15	5	2	
217273	31	82	.3	10	5	650] POP 23-70
217274	46	86	.4	13	5	3	
217276	55	103	.6	14	3	1	
277164	213	223	2.0	43	51	8	
277165	427	263	3.3	40	21	4	
277166	575	327	2.8	39	15	16	
277167	307	311	2.8	66	8	6	
277168	236	323	1.4	62	29	5	
277169	486	161	2.7	92	31	5	
277170	478	217	2.3	140	44	4	
277171	285	232	2.6	89	18	6] POP 23-70
STD C/AU 0.5	37	131	6.9	42	16	510	

Certificate of Analysis

TO Berglynn Resources / Aurum

REPORT NO. A46-137

DATE July 2, 1986

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

MARKED	oz/ton	oz/ton							
	Al	Ag							
<u>soil?</u> Σ 121105	L0.01	0.11							
Σ 121106	L0.01	0.08							
211146	L0.01	0.03	132						
211150	L0.01	0.06	234						
271035	L0.01	0.02							
271036	L0.01	0.02							
271037	L0.01	0.01							
292020	L0.01	0.26							
292021	L0.01	0.02							
292022	L0.01	0.32							
292023	L0.01	0.32							

Σ 121105

132

- on road about 1/2 mi N - ? SILVER

- 972 UN about 1500 yds Au in soil

POP 23-70

Certificate of Analysis

TO Berglynn Resources / Aurum Geological

REPORT NO. A46-147

DATE July 8, 1986

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

MARKED	oz/ton								
	Au								
212158	L0.01								
271046	L0.01								
272047	L0.01								
291026	L0.01								
291032	L0.01								
292025	L0.01								

Pop 23-70

BONDAR-CLEGG & COMPANY LTD.

John R...

Received July 8, 1986

Certificate of Analysis

Berglynn Resources

REPORT NO. A46-161

DATE July 14, 1986

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

MARKED	oz/ton								
	Au								
211165	0.02								
211166	LO.01								

Pop 23-70

Certificate of Analysis

Berglynn Resources

REPORT NO. A46-163

DATE July 15, 1986

I hereby certify that the following are the results of analyses made by us upon the herein described rock samples

MARKED	oz/ton		ppm	ppm	ppm	ppm	ppm	
	Au		As	As	Sb	Pb	Zn	
211173	0.17	583gm/tonne						POP 23-70
211175	L0.01							
271057	0.09	3.08gm/tonne.						
271059	L0.01							

[Handwritten Signature]



REPORT: 126-2629

PROJECT: POP86

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	
R2 211165		2490	6200	23.0	400	>10000=	High Barite — POP 23-70
R2 211166		2280	72	36.0	12	155	



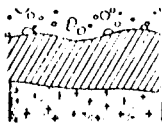
REPORT: 126-2631

PROJECT: POP86

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM
R2 211173		127	6400	>50.0	>1000	>10000
R2 211175		4980	600	5.0	50	500
R2 271057		141	258	5.3	>1000	>10000
R2 271059		67	220	9.5	250	2200

POP 23-70



REPORT: 626-2631

PROJECT: POP86

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT
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R2 211143		2.46
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POP 23-70

(2) Grid Soil Samples

July 11/86

ME ANALYTICAL LABORATORIES LTD.
2 F HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 7 1986

DATE REPORT MAILED:

July 8/86

GEOCHEMICAL ICP ANALYSIS

500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
SAMPLE TYPE: SOILS & ROCKS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - POP-86 FILE # 86-1339 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
L3900E 570N	48	77	.4	18	6	4
L3900E 550N	37	88	.6	17	5	4
L4000E 775N	78	77	.6	14	3	4
L4025E 750N	66	87	.3	14	4	1
L4075E 625N	57	104	.4	12	4	65
L4100E 625N	53	88	.3	12	2	3
211149	23	63	.2	17	2	2
211151	15	70	.2	2	2	1
211152	12	116	.2	4	4	1
211153	104	222	.3	9	25	1
211154	17	69	.2	14	6	1
211155	16	113	.4	8	3	1
211156	13	67	.7	50	2	9
211157	350	200	1.4	3	2	1
271038	15	42	.1	9	5	1
271039	12	30	.1	2	2	1
271040	23	99	.1	3	2	1
271041	28	68	.2	2	2	1
271042	20	81	.2	26	4	5
271043	12	114	.2	7	2	1
271044	17	93	.1	2	2	2
271045	46	112	.4	16	8	2
271048	19	104	.2	7	2	3
271049	37	73	.1	14	2	3
271050	84	254	1.1	10	2	5
271051	26	117	.1	19	12	1
271052	21	84	.1	2	2	1
291027	11	37	.1	5	2	10
291028	8	14	.1	2	2	1
291030	18	184	.2	445	20	2
291031	50	233	.3	878	57	8
291033	20	113	.2	40	44	2
291034	14	99	.1	13	12	1
292024	43	86	.1	5	8	1
292029	64	3	1.3	17	33	1
STD C/AU 0.5	36	136	7.0	43	16	495

POP 15-22
- POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
4000E 2075N	48	110	.1	9	13	2
4050E 2300N	47	101	.2	24	16	10
4050E 2275N	44	96	.3	10	13	2
4050E 2250N	61	101	.1	16	23	2
4050E 2225N	39	109	.1	23	17	3
4050E 2200N	46	114	.1	22	20	2
4050E 2175N	40	105	.1	18	15	110
4050E 2150N	34	82	.2	91	11	50
4050E 2125N	47	111	.1	27	13	16
4050E 2100N	74	139	.3	13	25	1
4050E 2075N	32	125	.4	14	14	3
4100E 2275N	29	78	.1	17	5	13
4100E 2225N	43	157	.1	24	6	3
4100E 2175N	51	98	.1	17	12	3
4100E 2125N	87	103	.2	21	5	8
4100E 2075N	78	131	.1	19	6	1
4150E 2300N	37	74	.1	12	11	15
4150E 2275N	30	104	.1	24	13	7
4150E 2250N	21	73	.1	25	16	2
4150E 2225N	30	106	.1	25	14	4
4150E 2200N	34	69	.1	38	2	135
4150E 2175N	35	82	.6	14	7	2
4150E 2150N	58	103	.2	15	4	5
4150E 2125N	102	122	.1	16	23	1
4150E 2075N	44	81	.1	13	13	1
4200E 2275N	31	76	.1	19	9	9
4200E 2225N	31	97	.1	24	10	4
4200E 2125N	58	110	.3	18	2	1
4200E 2075N	46	73	.2	11	15	1
297036	108	186	.4	359	69	30
297037	37	93	.2	18	18	7
297038	81	112	.1	25	4	5
297039	55	104	.2	19	4	6
297040	56	112	.1	11	2	6
297041	60	77	.3	21	11	4
STD C/AU 0.5	36	139	7.1	43	15	520

Pop 23-70

SAMPLE#	Ag PPM	Au* PPB	Hg PPB
2825N 4125E	.4	5	80
2825N 4200E	.3	3	570
2300N 4100E	.2	3	60
2300N 4125E	.3	4	260
2300N 4200E	.1	160	60
2550N 3900E	.2	34	40
2525N 3880E	.1	13	50
2525N 3900E	.1	4	100
2525N 3920E	.1	7	180
2500N 3880E	.1	31	40
2500N 3900E	.2	8	70
2500N 3920E	.2	5	60
2220N 4200E	.1	23	140
2200N 4180E	.2	90	120
2200N 4200E	.4	175	100
2200N 4220E	.1	49	450
2180N 4200E	.1	14	180
2170N 3800E	.3	1180	50
2170N 3840E	.4	520	40
2170N 3860E	.1	5	50
2170N 3880E	.9	315	30
2170N 3900E	.1	52	40
2150N 3780E	.7	1890	20
2150N 3800E	.6	810	50
2150N 3820E	.4	840	160
2150N 3840E	.3	37	30
2150N 3860E	.1	9	50
2150N 3880E	.6	80	30
2150N 3900E	.2	5	40
2130N 3800E	.1	23	50
2130N 3820E	.6	835	40
2130N 3840E	.3	415	60
2130N 3860E	.3	395	30
2130N 3880E	.2	130	40
2130N 3900E	.5	16	50
STD C/AU-0.5	7.1	490	1300

POP 23-70

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 TEL: 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 14 1986

DATE REPORT MAILED: *July 17/86*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL -80 MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *P3-Rocks* *A. Toyer* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT - F0186 FILE # 86-1462 PAGE 1

SAMPLE#	Fb PFM	Zn PFM	Ag PFM	As PFM	Sb PFM	Au* PFM
3700E 2275N	20	71	.1	14	10	10
3700E 2225N	27	89	.1	11	10	1
3700E 2175N	25	86	.2	10	10	2
3700E 2125N	26	69	.1	17	17	3
3700E 2075N	20	67	.1	16	12	4
3750E 2300N	20	58	.1	11	9	3
3750E 2275N	28	64	.1	14	10	3
3750E 2250N	28	72	.2	11	6	5
3750E 2225N	38	81	.1	11	13	4
3750E 2200N	37	95	.1	11	12	3
3750E 2175N	29	72	.3	13	13	235
3750E 2150N	30	61	.1	17	11	1
3750E 2125N	27	68	.1	13	10	7
3750E 2100N	27	83	.1	14	10	12
3750E 2075N	25	72	.1	12	6	6
3800E 2275N	32	103	.2	17	13	8
3800E 2225N	29	77	.3	10	6	5
3800E 2075N	26	76	.1	15	3	36
3900E 2275N	49	87	.1	10	8	3
3900E 2225N	37	77	.2	9	5	10
3900E 2175N	51	34	.1	3	7	7
3900E 2075N	72	89	.2	31	9	17
3950E 2300N	33	77	.1	12	6	4
3950E 2275N	35	81	.1	13	5	5
3950E 2250N	38	77	.1	13	7	9
3950E 2225N	42	83	.4	14	6	3
3950E 2200N	28	68	.1	10	11	1
3950E 2175N	36	83	.1	15	11	20
3950E 2150N	30	75	.1	13	7	185
3950E 2125N	27	132	.1	24	6	95
3950E 2100N	57	127	.1	36	6	375
3950E 2075N	25	112	.1	10	5	18
4000E 2275N	41	78	.1	14	13	2
4000E 2225N	41	77	.1	17	15	45
4000E 2175N	29	82	.1	20	19	8
4000E 2125N	31	67	.2	30	5	65
STD C/AU 0.5	41	138	7.1	36	15	480

POP 23-70

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
1790E 1650N	29	58	.1	13	3	7
1790E 1550N	33	63	.3	10	3	60
1790E 1500N	29	56	.1	9	4	31
1800E 1660N	21	48	.1	5	2	1
1800E 1650N	21	52	.1	7	3	22
1800E 1640N	20	49	.1	8	3	9
1800E 1560N	22	46	.2	8	3	4
1800E 1550N	33	53	.1	6	3	5
1800E 1540N	27	50	.2	6	2	4
1800E 1510N	19	49	.2	7	4	75
1800E 1500N	31	53	.1	10	3	50
1800E 1490N	32	68	.2	10	6	2
1810E 1650N	22	45	.1	7	3	42
1810E 1550N	26	48	.2	7	3	31
1810E 1500N	26	62	.2	9	3	24
1890E 1900N	23	58	.2	9	3	75
1890E 1800N	30	62	.3	11	5	15
1890E 1350N	48	119	.8	19	6	6
1900E 1910N	30	54	.3	8	4	10
1900E 1900N	29	57	.1	8	2	5
1900E 1890N	19	61	.2	9	4	1
1900E 1810N	24	62	.2	12	2	1
1900E 1800N	21	58	.2	8	2	1
1900E 1790N	23	46	.1	7	2	2
1900E 1360N	46	71	.2	28	6	31
1900E 1350N	41	76	.3	16	9	14
1900E 1340N	46	78	.4	13	5	2
1910E 1900N	26	53	.2	12	5	115
1910E 1800N	19	52	.1	7	3	1
1910E 1350N	67	84	.3	11	5	34
3580E 1075N	98	97	1.6	45	5	9
3580E 1060N	230	167	1.1	41	2	6
3580E 1050N	178	115	1.3	34	5	2
3580E 1040N	152	148	1.1	44	5	4
3580E 1030N	183	173	1.2	51	7	4
3580E 1020N	249	194	1.4	68	8	11
STD C/AU-0.5	41	127	6.8	38	15	500

Pop 23-70

(3) Adit Samples

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 5 1986

DATE REPORT MAILED: *Aug 9/86*.....

GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: ROCK CHIPS AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy*..DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES		PROJECT - FOP-86		FILE # 86-1853		PAGE 1		
SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	Ag OZ/T	Au OZ/T
271152	15	155	.6	16	3	1	.03	.001
271153	35	140	1.2	16	2	5	.04	.001
271154	35	87	.3	20	2	2	.01	.001
271155	10	95	.4	16	2	1	.02	.001
271156	48	100	.3	65	5	1	.03	.001
271157	21	73	.2	30	2	1	.01	.001
271158	26	70	.3	62	5	1	.02	.001
271159	62	35	1.2	45	18	5	.04	.001
271160	79	531	.5	3728	2770	6	.01	.001
271161	38	73	.3	83	24	1	.02	.001
271162	32	179	.4	3535	147	21	.01	.001
271163	38	1350	6.2	3188	13524	395	.13	.012
291075	117	298	.6	68	22	2	.02	.001
291076	15	75	.3	28	50	3	.01	.001
STD C/AU-0.5	41	135	7.1	40	15	490	-	-

3
ADIT

Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.
 52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 6 1986

DATE REPORT MAILED: *Aug 11/86*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES

PROJECT-POP-86 FILE # 86-1870

PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
211245	33	25	.2	3	2	1
211246	33	43	.3	3	2	1
211247	19	118	.1	6	2	1
211248	23	52	.2	2	2	1
211249	30	119	.2	5	2	1
211250	26	15	.2	7	6	1
211251	21	6	.1	127	4	1
211252	35435 ✓	6870	161.9 ✓	215	1308 ✓	6
211253	9076	6205	154.5 ✓	264	1231 ✓	8
211254	301	67	1.3	11	17	1
271143	59	46	1.0	3	10	1
271144	39	16	.3	2	5	1
271145	34	146	.4	9	2	1
271146	43	65	1.0	3	4	1
271147	34	41	.4	2	9	1
271148	48	78	.1	6	2	1
271150	38	41	.6	5	2	2
271151	10	37	.2	3	3	1
291068	7896	943	15.7	148	255	7
291069	34	141	.3	18	2	1
291070	58	110	.5	24	3	1
291071	47	158	.4	13	10	1
291072	17	129	.3	16	2	1
291073	94	330	2.6	16	7	1
291074	216	195	3.8	8	5	5
STD C/AU-0.5	40	142	7.0	43	15	505

#3 ADIT.

Assay required for correct result →

(4) Trench Samples

ACME ANALYTICAL LABORATORIES LTD.
85 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 17 1986

DATE REPORT MAILED: *Sept 24/86.*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES

PROJECT-POP-86 FILE # 86-2704

PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
2D1001	5	10	.1	4	2	1
2D1002	5	11	.2	2	3	2
2D1003	5	13	.1	2	4	1
2D1004	8	16	.2	4	3	1
2D1005	6	19	.3	3	3	2
2D1006	20	29	.1	2	5	1
2D1007	45	19	.1	3	2	2
2D1008	28	19	.1	7	2	2
2D1009	37	23	.1	15	2	3
2D1010	22	14	.1	7	2	2
2D1011	19	16	.2	6	2	3
2D1012	18	21	.2	8	2	2
2D1013	15	12	.1	5	2	3
2D1014	27	12	.1	3	3	1
2D1015	2	15	.2	14	2	2
2D1016	2	24	.2	16	2	1
2D1017	20	26	.1	7	5	3
2DB001	5	24	.3	13	2	49
STD C/AU-R	61	40	6.7	41	16	505

AC ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 19 1986

DATE REPORT MAILED: *Sept. 24/86..*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES PROJECT-POP-86 FILE # 86-2755 PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
2D1018	7	20	.3	8	2	48
2D1019	42	11	.1	7	5	1
2D1020	44	18	.1	5	10	1
2D1021	37	23	.3	7	2	1
2D1022	20	26	.1	2	2	3
2D1023	24	38	.2	2	2	1
2D1024	3	7	.1	2	2	19
2D1025	9	9	.1	2	2	1
2D1026	35	16	.1	6	2	2
2D1027	31	22	.1	9	2	2
2D1028	7	19	.2	5	2	1
2D1029	23	8	.1	9	2	1
2D1030	25	11	.1	7	2	3
2D1031	22	10	.2	13	2	1
2D1032	21	11	.2	9	2	1
2D1033	17	6	.1	10	3	1
2D1034	23	12	.2	12	3	1
2D8002	2	43	.3	28	2	12
2D8003	14	12	.1	3	2	2
STD C/AU-R	58	41	6.9	43	15	500

CME ANALYTICAL LABORATORIES LTD.
52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 26 1986

DATE REPORT MAILED: *Oct 1/86...*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.HG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

BERGLYNN RESOURCES

PROJECT-POP-86 FILE# 86-2885

PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
2D1035	8	13	.1	10	7	6
2D1036	23	11	.1	2	2	2
2D1037	15	13	.1	7	2	2
2D1038	21	7	.2	5	3	3
2D1039	30	12	.1	9	3	1
2D1040	49	15	.3	2	3	1
2D1041	21	14	.1	2	2	3
2D1042	29	13	.1	2	2	2
2D1043	14	7	.1	2	2	1
2D1044	17	10	.1	2	2	3
2D1045	6	9	.1	3	3	1
2D1046	15	11	.1	2	3	1
2D1047	23	11	.1	2	2	1
2D1048	22	11	.1	2	2	4
2D1049	14	16	.1	2	4	1
2D1050	13	15	.1	4	2	1
2D1051	19	18	.1	2	3	1
STD C/AU-R	56	35	6.8	38	17	515

APPENDIX II

TRENCH DESCRIPTIONS

TRENCH 86-1

LOCATION: 19+00E, 13+50N
LENGTH: 37 m
AZIMUTH: 290°
SAMPLES: 2D1001-1006, 2D8001

Geology

The east end of the trench is occupied by a grey-green to brown to subtly purplish, very hard, massive aphanitic to subtly banded felsic volcanic. Manganese staining on fractures is common. Sample 2D1005 contained tiny quartz gashes (discontinuous) and spots of limonite disseminated throughout. Sample 2D1006 consisted primarily of an earthy green andesitic volcanic-subvolcanic with broken plagioclase phenocrysts.

No bedrock samples were obtainable west of sample 2D1006. Sample 2D8001 consists of rock fragments plus soil above the permafrost. Most of the rock fragments in sample 2D8001 and west thereof consist of biotite-bearing monzonite; however, in this case, these fragments may not accurately reflect directly underlying geology.

TRENCH 86-2

LOCATION: 19+00E, 11+50N
LENGTH: 12 m
AZIMUTH: 290°
SAMPLES: 2D1007-1009

Geology

All of Trench 2 is occupied by a purplish brown, fine to medium grained intrusive rock. The colour of this rock type is similar to the monzonite, as well as spatially related to it, so there may be a genetic correlation. Here this rock is fairly heavily fractured (60/m) with orientation of 030°/vertical. Locally contains 3-5% very fine grained pyrite.

TRENCH 86-3

LOCATION: Between L's 18E and 19E @ 11+80N
LENGTH: 35 m
AZIMUTH: 290°
SAMPLES: 2D1010-1017, 2D1019

Geology

Sample 2D1010: light grey, very fine grained rhyolite(?) dyke(?) Very hard, with subtle orange-pink blebs, 2 x 4 mm. Quartz vein float near this sample.

(Trench 86-3, Geology - cont'd)

Samples 2D1011-14 and 2D1019: purplish-brown, fine/medium grained felsic intrusion(?) Same rock as Trench #2. Here calcareous. Brown clots may be dolomitic (dolomite + Fe carbonate). Minor barren quartz veinlets.

Sample 2D1019: grey, sugary-looking, indistinct textures, pyritic (1-4%). Granodiorite?

Samples 2D1015-17: very white clay altered rhyolite. 3% tiny orange-brown coated cavities (1 mm), relict plagioclase phenocrysts, soft, somewhat friable. The trend of this dyke, based on its position in Trenches 3 and 4 and local mapping, is 048°/?

TRENCH 86-4

LOCATION:	18+00E, 11+50N
LENGTH:	27 m
AZIMUTH:	290°
SAMPLES:	2D1018, 2D8002

Geology

Permafrost west of 2D1018.

Sample 2D1018: medium grained, non-calcareous, blocky, "brown spot intrusive" (same as Trench 2).

Sample 2D8002: thick permafrost; sampled overlying material. Rock fragments - platy, white rhyolite.

West of 2D8002: monzonite plus "brown spot intrusive".

TRENCH 86-5

LOCATION:	17+00E, 11+00N
LENGTH:	19 m
AZIMUTH:	290°
SAMPLE:	2D1035

Geology

Monzonite. Similar in appearance to "brown spot intrusive". West part of trench - permafrost.

TRENCH 86-6

LOCATION: 17+00E, 11+40N
LENGTH: 30 m
AZIMUTH: 290°
SAMPLES: (Not sampled)

Geology

Obscured by permafrost. Monzonite in east end. "Brown spot intrusive" and monzonite in west end, with narrow section (4 m) of rhyolite.

TRENCH 86-7

LOCATION: 16+00E, 11+50N
LENGTH: 17 m
AZIMUTH: 290°
SAMPLES: (Not sampled)

Geology

Fresh monzonite.

TRENCH 86-8

LOCATION: 18+10E, 13+40N
(Filled-in because ground here was water saturated)
SAMPLES: 2D8003 - taken randomly from material extracted from lowermost portion of hole; may not reflect underlying bedrock geology.

Geology

Monzonite plus minor hornblende-plagioclase schist.

TRENCH 86-9

LOCATION: 17+85E, 13+35N
(Filled-in because very deep and uninteresting)
SAMPLES: Sample 2D1020 - taken of rock fragments just above bedrock

Geology

Two principal lithologies, both dyke-like. Grey, very fine grained intermediate dyke; breaks into sharp edged triangular chunks with rusty surfaces. Lesser altered dyke similar to "brown spot intrusive"; here bleached and with abundant orange-brown vugs and clots.

TRENCH 86-10

LOCATION: 18+00E, 15+10N
LENGTH: 32 m
AZIMUTH: 290°
SAMPLES: 2D1021-1023

Geology

All of trench occupied by generally green, intermediate fragmental rock. Fragments are angular to subrounded, polyolithic, matrix supported. Felsic-looking fragments generally variably pyritic. Most fragments are intermediate, plagioclase porphyritic subvolcanic-volcanic. Matrix contains phenocrysts or broken crystals of plagioclase of same dimensions as in fragments.

Lapilli to lapilli + block tuff? May be feeder pipe/dyke breccia? Rock contains 1-3% fine grained pyrite.

TRENCH 86-11

LOCATION: 18+00E, 15+00N
LENGTH: 14 m
AZIMUTH: 210°
SAMPLES: 2D1024, 1025

Geology

North half of trench cuts white/off-white, weakly clay altered rhyolite with sparse brown spots. No sulphides. No manganese.

South half of trench: earthy green, medium grained subvolcanic intrusive(?) Looks similar to matrix of rocks in Trench 10 - plus pale green-cream coloured rhyolite.

TRENCH 86-12

LOCATION: 18+00E, 15+65N
LENGTH: 32 m
AZIMUTH: 290°
SAMPLES: (Not sampled)

Geology

Green lapilli-lapilli + block tuff. Intermediate in composition. No alteration, no sulphides, no structural information obtained.

TRENCH 86-13

LOCATION: 18+00E, 16+50N
LENGTH: 35 m
AZIMUTH: 204°
SAMPLES: 2D1026-1027

Geology

North end: grey green, fine grained andesitic volcanic or dyke. Sparse pale green euhedral-subhedral plagioclase phenocrysts. Weathers into blocks. Locally rock contains sparse hornblende phenocrysts and trachytoid alignment of plagioclase crystals.

Sample 2D1026: dull green, medium grained volcanic. Weakly pyritic, 1-2%, white quartz along fractures. Rock may be a tuff?

Sample 2D1027: primarily earthy drab green, amygdaloidal (2-3 mm calcite) andesite flow, plus lesser mottled, grey, fine grained pyritic rock. Alteration product(?) opposed to a rock type. With hand lens, can see abundant tiny plagioclase microlites.

South end: grey plagioclase porphyritic volcanic or dyke.

TRENCH 86-14

LOCATION: 19+00E, 16+00N
LENGTH: 17 m
AZIMUTH: 205°
SAMPLE: 2D1028

Geology

North end: drab green, anhedral plagioclase porphyritic subvolcanic. Some phenocrysts are pinkish.

Sample 2D1028: greenish grey dacitic(?) porphyry. 10% large (4 x 4 mm) blotchy-looking anhedral plagioclase crystals. Fine grained matrix, fairly hard (6). Also within this sample interval, see light grey, medium grained, pyritic rock (alteration of greenish dacite(?) porphyry?) Pyrite occurs as fine, evenly disseminated grains, ±4%.

South end: same as north end.

Central part: can see fragments in drab green porphyritic subvolcanic. Similar in appearance to lapilli-lapilli to block tuff.

TRENCH 86-15

LOCATION: 19+00E, 18+75N
LENGTH: 42 m
AZIMUTH: 307°
SAMPLES: 2D1029-1032

Geology

North end: grey andesitic dyke. Fine grained, blocky, minor tiny epidote clots.

North central/south: dull green, intermediate coarse tuff or subvolcanic breccia. Pyritic, 3%.

Extreme south: 2 m of grey, plagioclase porphyritic andesite dyke. Plagioclase very abundant.

TRENCH 86-16

LOCATION: 19+00E, 19+00N
LENGTH: 10 m
AZIMUTH: 325°
SAMPLE 2D1033

Geology

Grey, very fine grained, hard, blocky andesitic dyke. Same as north end of Trench 15.

TRENCH 86-17

LOCATION: 19+00E, 18+50N
LENGTH: 20 m
AZIMUTH: 260°
SAMPLE: 2D1034

Geology

West end: pale earthy green, pyritic, intermediate fragmental as in Trench 15. Here slightly more pyritic (sample 2D1034 at least) and locally bleached (carbonatization?)

East end: earthy green, soft tuff or altered intrusive (subvolcanic).

Foliation near contact at 045°/80SE.

TRENCH 86-18

LOCATION: 19+75E, 19+30N
LENGTH: 63 m
AZIMUTH: 290°
SAMPLES: 2D1036-1046

Geology

Sample 2D1036: 4 m long. Grey, silicified, fine grained, equigranular, pyritic (3-5%), altered grey dyke(?) Fractures are wavy with 2-4 mm bleached envelopes.

Sample 2D1037: 2 m. Rusty weathering, mottled grey with white and pale green indistinct blebs. Rock is pyritic (5%) and bleached (quartz carbonate?) altered plagioclase-hornblende porphyritic, grey dyke.

Sample 2D1038: 8.5 m. Less altered grey dyke. 3-5% fine to medium grained pyrite. Blocky.

Sample 2D1039: 6 m. Grey plagioclase porphyritic dyke. Some altered zones same as 2D1037.

Sample 2D1040: 6 m. Grey dyke. Dense, blocky, unaltered, 1% very fine grained pyrite. Plagioclase phenocrysts, anhedral, matrix very fine grained.

Sample 2D1041: 4.5 m. Fault zone? Grey altered rock. Low to moderate fracture density. Fractures again wavy, 3% fine grained pyrite.

Sample 2D1042: 5 m. Light grey, somewhat sugary textured, silicified and pyritic (5%) grey dyke. On weathered surface, can see 25% euhedral to anhedral plagioclase phenocrysts. This texture is not apparent on fresh surface.

Sample 2D1043: 7 m.

- 1) Grey green, fairly fresh grey dyke. Less than 1% pyrite. Albite twinning evident.
- 2) Tuffaceous-looking, light grey rock. No resemblance to grey dyke. 3-5% pyrite.

Sample 2D1044: grab from deep part of trench - fault. Rock light grey with small black flecks, fairly soft, unmineralized, sheared. Non-calcareous. Abundant creamy white fault gouge.

Sample 2D1045: 6 m. Highly altered (bleached) - argillization? Soft tuffaceous-looking. Wavy limonitic-goethitic fractures.

Sample 2D1046: 4.5 m. Light grey to white. Variable intensity clay alteration. The highly altered rock is white, soft, non-calcareous, with abundant discontinuous wavy limonitic fractures. No sulphides. The less altered rock is relict porphyritic texture, 3-5% very fine grained pyrite, sparse wavy rusty fractures.

TRENCH 86-19

LOCATION: 19+90E, 20+00N
LENGTH: 38 m
AZIMUTH: 350°
SAMPLES: 2D1047-1051

Geology

Sample 2D1047: 7 m. Light grey, mottled, weakly altered rock. Grossly similar to intermediate block tuff. 1-4% very fine grained pyrite. Trace sphalerite?

Sample 2D1048: 7 m. Grey, very mottled, somewhat altered, intermediate block tuff.

Sample 2D1049: 7 m. Grey to greenish-grey, coarse ash, crystal, lithic tuff. Minor highly silicified grey aphanitic rock. Fractures have 3 mm dirty white envelopes.

Sample 2D1050: 7 m. Light grey (bleached), slightly clay altered. 1-3% very fine grained pyrite. Intermediate tuff.

Sample 2D1051: 7 m. Light grey, slightly bleached, pyritic (2%) porphyritic grey dyke.

APPENDIX III

STATEMENT OF EXPENDITURES

(1)

SURFACE GEOLOGY AND GEOCHEMISTRY (POP 23-70)

ANALYTICAL COSTS:

Acme Analytical - 217 soil samples	\$1,884.30	
Acme Analytical - 128 rock samples	1,514.00	
Bondar-Clegg - rock sample assays	88.50	
C.P.Air - freight samples to Vancouver	<u>377.88</u>	\$3,864.68

HELICOPTER:

Frontier Helicopters: 1.1 hours		583.00
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PERSONNEL:

R.A. Doherty - mid-June to late August	\$6,800.00	
G. Nicholson - mid-June to mid-August	2,400.00	
R. Zuran - mid-June to mid-August	<u>2,325.00</u>	11,525.00

OTHER:

Camp, field supplies, food, equipment, expediting, vehicle and fuel, share of report and map preparation - estimate:		4,700.00
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TOTAL:

\$20,672.68

(2)

ADIT REHABILITATION AND SAMPLING (POP 10)

M. J. MOREAU ENTERPRISES:

Adit rehabilitation	\$7,303.00	
Board-up adits	<u>482.00</u>	\$ 7,785.00

MAPPING AND SAMPLING:

R. A. Doherty: 2 days	\$ 420.00	
G. Nicholson: 2 days	160.00	
R. Zuran: 2 days	<u>160.00</u>	740.00

HELICOPTER:

26 July	\$ 371.00	
23 October	<u>218.00</u>	589.00

ANALYSES:

Acme Analytical Laboratories: 19 rocks		340.40
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OTHER:

Camp, field supplies, food, equipment, expediting, vehicle and fuel, share of report and map preparation - estimate:		1,000.00
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TOTAL:

\$10,454.40

(3)

BACKHOE TRENCHING (POP 25, 26, 27, 49)

ARCTIC BACKHOE:

CAT 225 excavator: 48.5 hours \$ 7,540.00

DIESEL FUEL: 2,530.00

HELICOPTER:

0.4 hours 212.00

ANALYSES:

Acme Analytical Laboratories: 54 rocks \$609.00
C.P.Air: freight samples to Vancouver 157.95 766.95

PERSONNEL:

D. M. Strain \$2,000.00
R. Robertson 1,600.00 3,600.00

OTHER:

Camp, field supplies, food, equipment,
expediting, vehicle and fuel, share of
report and map preparation - estimate: 3,250.00

TOTAL:

\$17,898.95

APPENDIX IV

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

of

RONALD C. R. ROBERTSON

I, **RONALD CHARLES RAMSAY ROBERTSON**, of the City of Whitehorse in the Yukon Territory, hereby certify:

THAT I am a self-employed consulting geologist AND THAT I visited the property with R.A. Doherty in August 1986 to inspect the results of surface exploration and adit rehabilitation, AND THAT I caused to be performed and supervised the subsequent trenching program;

THAT I obtained a Bachelor of Science degree with First Class Honours in Geology from the University of Aberdeen, Scotland, in 1970 and subsequently carried out graduate studies at McMaster University, Hamilton, Ontario, and at Queen's University, Kingston, Ontario;

THAT I have been engaged in mineral exploration on a full- and part-time basis for seventeen (17) years, of which nine (9) have been on mineral exploration programs in the Yukon Territory, British Columbia and Alaska;

THAT I am a Fellow of the Geological Association of Canada (number 4858) and a member in good standing of the following organizations:

- Yukon Professional Geoscientists Society
- Yukon Chamber of Mines
- Canadian Institute of Mining and Metallurgy
- Prospectors and Developers Association

DATED at Whitehorse, Yukon Territory, this 19th day of March, 1987.

R.C.R. Robertson

Ronald C.R. Robertson

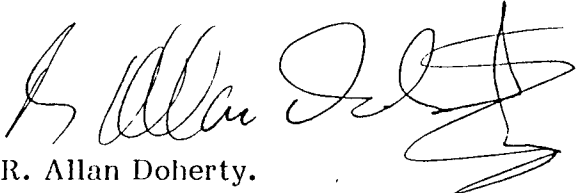
Ronald C. R. Robertson

STATEMENT OF QUALIFICATIONS

I, R. ALLAN DOHERTY, hereby certify that:

- 1) I am a geologist with Aurum Geological Consultants Inc. of 1614-675 West Hastings Street, Vancouver, B.C.
- 2) I am a graduate of the University of New Brunswick with a degree in Geology (Hons. B.Sc. 1977) and completed three years of graduate studies at Memorial University. I have been involved in mineral exploration in the Yukon, N.W.T. and British Columbia since 1980.
- 3) I am a member of the CIMM.
- 4) I have no interest in the claims or securities of Berglynn Resources Inc., nor do I expect to obtain any.
- 5) I am the author of this report of field activities on the POP property.

DATED at Whitehorse, Yukon, this 26th day of August 1986.


R. Allan Doherty.

(From report to Berglynn Resources Inc. dated 26 August 1986)

STATEMENT OF QUALIFICATIONS

I, DAVID M. STRAIN, certify that:

- I have been active in the exploration industry since 1976 and have been employed as geologist by various companies in British Columbia, the Yukon Territory, Ontario and Quebec since 1980.
- I am a graduate of Cambrian College of Applied Arts and Technology with a diploma (honours) in Geological Engineering Technology; I attended the University of British Columbia for three years, enrolled in the Geological Sciences program.
- I have no interest in the claims or securities of Berglynn Resources Inc., nor do I expect to receive any.
- I am the author of the Backhoe Trenching section of this report.

DATED at Whitehorse, Yukon, this 8th day of December, 1986.



DAVID M. STRAIN