

# exploration Itd. GEOLOGY · GEOPHYSICS MINING ENGINEERING

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GEOLOGICAL, GEOCHEMICAL and GEOPHYSICAL

REPORT

on the

STANDARD CREEK PROPERTY

Lillooet Mining Division - British Columbia Long. 122° 37' W. Lat. 50° 42' N.

N.T.S. 92J/10E

for

TRANS ATLANTIC KESELOCISOIGICAL BRANCH ASSESSMENT REPORT

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#### SUMMARY

Trans Atlantic Resources Inc. holds 69 claim units at the southern end of the Bridge River gold camp of southwestern British Columbia. The claims are situated 15 kilometres southeast of the Bralorne-Pioneer Mine, the largest gold mine, in terms of past production (4.93 million tonnes grading 18 grams gold per tonne) in the province. Exploration activity in the camp recently has been intense. E and B Explorations Inc. has announced additional ore at Bralorne-Pioneer, and Veronex and Levon Resources have announced a new find on their Congress Property.

The Standard Creek property includes the Royal gold-tungsten and Standard gold prospects. Both lie along the southeast extension of the Cadwallader Break, a prominent fault structure with which the Bralorne-Pioneer Mine is also associated. The property is underlain by sedimentary rocks of the Bridge River and Cadwallader groups which are intruded by a variety of intrusive rocks including diorite of the Bendor intrusions, diorite-greenstone of the Bralorne intrusions, and altered ultramafic rocks of the President intrusions.

The mineral occurrences on the Standard Creek property have not been well documented. They were discovered and worked in the 1930's. Gold values and tungsten mineralization occur on the Royal prospect and visible gold and

0.125 ounces per ton over a width of 70 feet from underground workings on the Standard prospect have been reported. Workings are now caved and hence could not be sampled, but moderately anomalous gold values and highly anomalous arsenic values were obtained on dump material from the latter. The property was examined by Hillside Energy Corporation in 1980 to 1982. They identified a number of gold geochemical anomalies and prominent zinc and arsenic anomalies in soils, but did not carry out follow-up evaluation of these anomalies.

In 1984, Trans Atlantic funded an exploration program comprising soil geochemical sampling, magnetometer, horizontal loop, VLF-electromagnetic, and induced polarization surveys on the property. Geochemical work confirmed and extended the anomalies previously outlined and also identified a number of significant arsenic, zinc, molybdenum, nickel and cobalt anomalies. Magnetic and VLF electromagnetic surveys were somewhat successful in defining the distribution of ultrabasic rocks and their related fault structures. zontal loop electromagnetic survey detected several conductive zones but due to the limited program detailed information was not obtained and therefore we were unable to define the depth, dip or conductivity of the conductors located. The induced polarization and resistivity surveys were very effective in outlining the altered serpentinites and apparently detected an anomalous zone which corresponds with the gold mineralized section reported in the Standard adit.

Follow-up surveys including detailed geochemical, geological and geophysical surveys, trenching and diamond drilling are proposed.

#### CONCLUSION

The Standard Creek property is considered to have good exploration potential for the following reasons.

- 1) The property is well situated at the southern end of the Bridge River gold camp, the most prolific gold producer in British Columbia. It lies along the Cadwallader break, a prominent transcurrent fault with which the Bralorne-Pioneer mine is also associated.
- Exploration activity in the Bridge River camp is intense.

  E and B Explorations Inc. have announced new reserves on the Bralorne-Pioneer Mine, and Levon and Veronex Resources have announced a new find on their Congress property.
- 3) Scattered gold geochemical anomalies and prominent arsenic and zinc (pathfinder elements for gold) geochemical anomalies in soil have been identified.
- Altered ultramafic rock (mariposite-bearing quartz carbonate-talc schist) or listwanite has been identified. This rock type appears to be endemic to gold deposits such as in the Cassiar gold camp, and in the Allegheny mining district of California, although they do not have a direct spatial relationship to auriferous quartz veins. Gold mineralization in the Allegheny district

for example, occurs in steeply dipping veins within altered serpentinite bodies intersected by the veins (Wittkop, 1983). Characteristic features of these veins are as follows:

- (a) they are extremely rich but erratically distributed,
- (b) they are surrounded by a zone of carbonate alteration and pyritization often more than ten feet wide and (c) extensive carbonate alteration (mariposite bearing quartz-carbonate rock) occurs along the serpentinite contacts. Listwanite is presumably developed by hydrothermal carbonatization to form the free quartz found in the rock. The alteration process may also release gold from the ultramafic rock and remobilize it into quartz veins.

The Standard Creek property therefore should be explored for similar high grade gold deposits. In addition, potential exists for bulk tonnage, low-grade gold mineralization as indicated by reported gold values from the Standard prospect and as suggested by Sawyer (1980) and Ostler (1980).

#### RECOMMENDATION

A program of further, more detailed geochemical sampling in conjunction with geological mapping is recommended. An attempt should be made to open and rehabilitate the Standard adit for mapping and sampling to confirm the reported goldbearing zone (Phase I). Contingent on results of the above work, then a second phase exploration program comprising

geophysical surveys to help define trenching and drilling targets, followed by road construction, trenching and diamond drilling should be carried out.

#### ESTIMATED COSTS OF RECOMMENDATIONS

PHASE I Follow-up geological mapping, geochemical sampling, and underground rehabilitation of Standard adit.

#### Salaries

Geologist 1 month @ \$6,000/mo Labour - 2 assistant soil samplers	\$ 6,000
2 man months @ \$4,000	8,000
Room & board 90 man days @ \$30/day	2,700
Geochemical analyses and assay	4,000
Bobcat Rental 25 hours @ \$40 (all incl.)	1,000
Helicopter support 8 hours @ \$500/hr	4,000
Material, camp supplies	500
Vehicle rental, transportation	1,000
Report	1,500
	\$28,700
Contingencies	3,000
TOTAL	\$31,700

## PHASE II

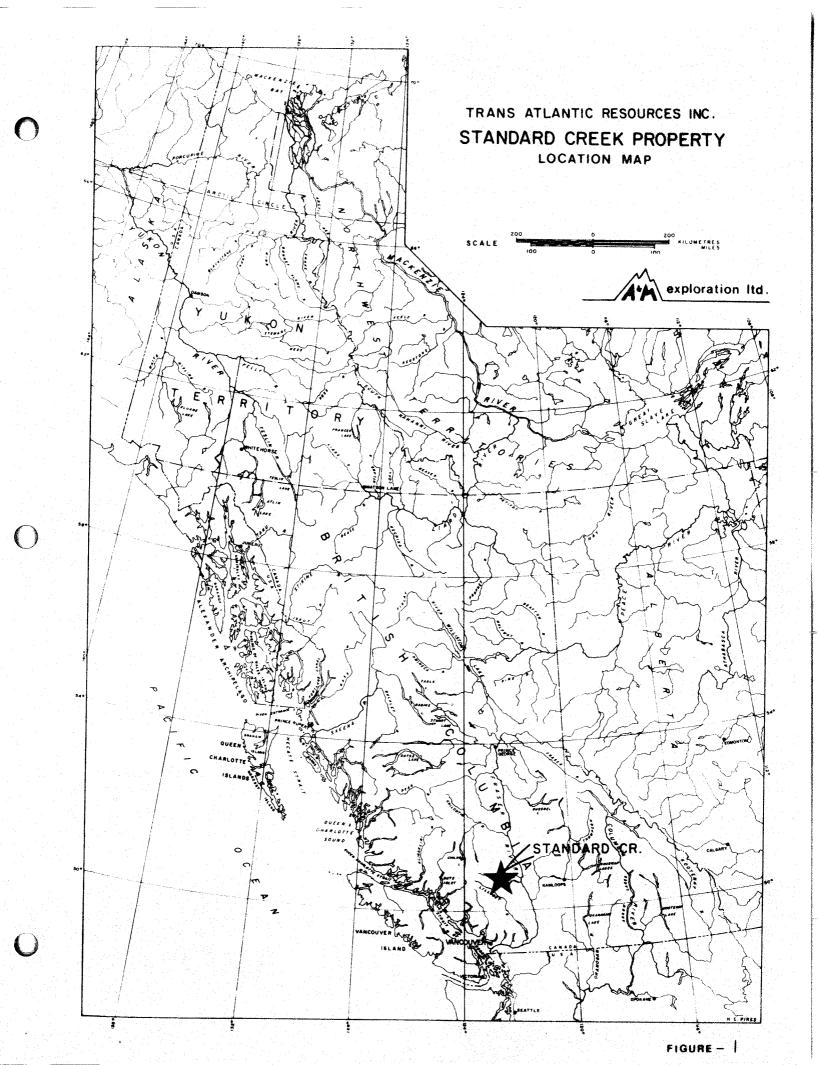
Costs for this phase have not been estimated. Follow-up work would depend upon the results of Phase I. Geophysical surveys to further define targets, road and drill site preparation, bulldozer trenching and diamond drilling probably will be considered.

#### INTRODUCTION

Trans Atlantic Resources Inc. holds 69 claim units in the Bridge River gold camp of southwestern British Columbia. The claims cover two gold prospects formerly known as the Royal and Standard Prospects. These and other showings such as the Butte-I.X.L., along with the Bralorne-Pioneer Mines, are related to the Cadwallader Break, a major transcurrent fault structure. The property is situated 15 kilometres southwest of the Bralorne-Pioneer Mine which was the largest gold producer in British Columbia.

This report summarizes results of an exploration program funded by Trans Atlantic Resources Inc. The program was conducted during the period October 3 to 25, 1984 by consultants A & M Exploration Ltd. and consisted of geological mapping, geochemical sampling, magnetic, VLF-electromagnetic and induced polarization surveys.

This report also summarizes results of geochemical surveys carried out on the western part of the claim group by Hillside Energy Corporation, former holders of the property. Their work identified a number of multi-element soil geochemical anomalies.



#### LOCATION, ACCESS, PHYSIOGRAPHY

The Standard Creek property is situated on Standard Creek, a tributary of Cadwallader Creek, which in turn is a tributary of the Hurley and Bridge Rivers. It lies 15 kilometres southeast of Bralorne, British Columbia (Figures 1 and 2). The western part of the property is accessible from Lillooet by a good gravel road to Bralorne, and thence by a gravel and bush road along the eastern side of Cadwallader Creek to Lower Standard Creek. A trail extends up Standard Creek valley through the eastern part of the claims to McGillivray Pass.

The property is in the Bendor Range of the Coast

Mountains. The claims cover much of the Standard Creek

valley which is a prominent "U-shaped" ice-carved valley.

A number of prominent lateral glacial moraines lie along the

upper part of the valley. Elevations range from 1350 and

2000 metres and topography varies from gentle on valley

bottoms to moderately steep on valley walls. Slopes are

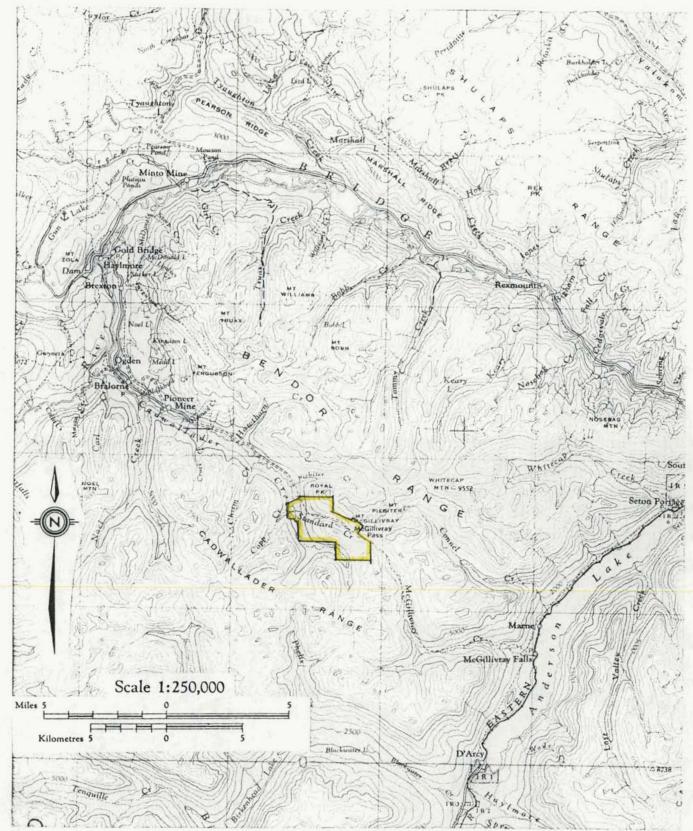
covered with a virgin growth of spruce, balsam fir, jack

pine, white pine and minor poplar and birch. Alder and

willow occupy slide areas. Grass-covered slopes predomin
ate above treeline (above 1950 metres elevation).

#### ENVIRONMENTAL CONSIDERATIONS

Environmentally, the Standard Creek area is in a



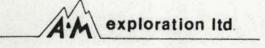
TRANS ATLANTIC RESOURCES INC.

N.T.S. 92J

## ACCESS MAP

STANDARD CREEK PROPERTY

Lillooet Mining Division - British Columbia



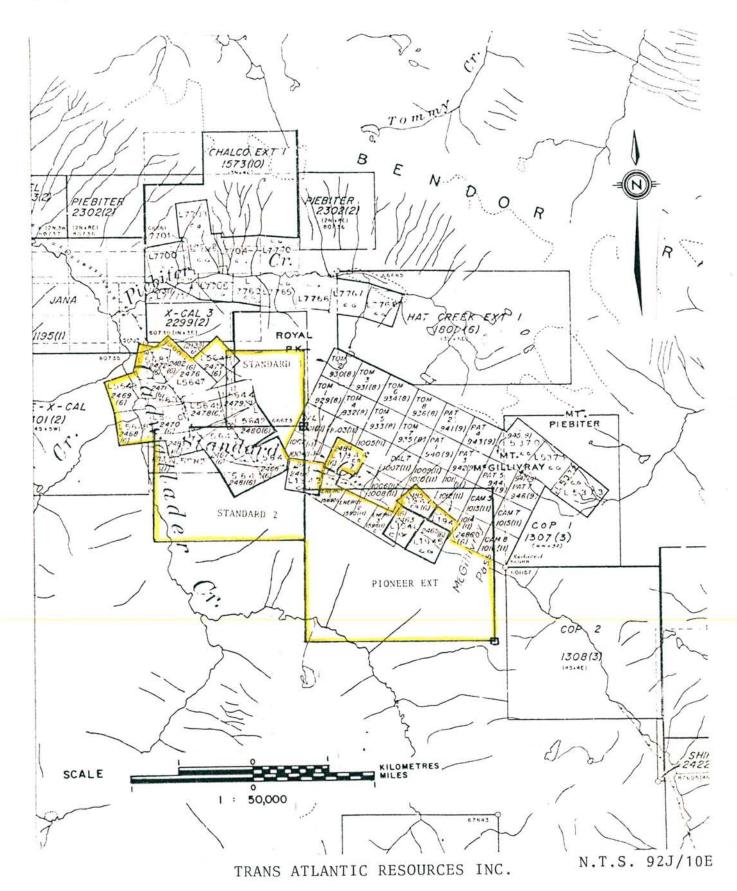
moderately sensitive area. The B.C. Ministry of Forests classifies the trail along Standard Creek as a "wilderness trail". The area does not have a park status but it is used for hiking, snowmobiling and cross country skiing. The Varsity Outdoor Club of the University of British Columbia maintains a cabin on Standard Creek. Any bulldozer work in the eastern part of the property should be carried out when the ground is frozen to minimize surface disturbance along the trail. Any initial drilling should be undertaken with helicopter support.

## CLAIM STATUS

The Standard Creek property consists of 13 reverted crown grant claims and 36 claim units (modified grid) as shown on Figure 3. Claim data is as follows:

Claim Name	Record No.	Lot No.	Type	Expiry date
Lion 1	2463	1940	Reverted Crown Grant	June 13, 1988
Lion 7	2464	1943	$\mathbf{q} = \mathbf{q} \cdot \mathbf{q}$	June 13, 1988
Bulldog 7	2465	1945	n n n	June 13, 1988
Royal	2481	5641	n un un un	June 14, 1988
Royal 1	2466	5640	en e	June 14, 1988
Royal 2	2467	5643		June 13, 1988
Royal 3	2480	5642	n n	June 14, 1988
Royal 4	2478	5645	<b>4</b>	June 14, 1988
Royal 5	2479	5644	n n	June 14, 1988
Royal 6	2476	5647	<b>u u u</b>	June 14, 1988
Royal 7	2477	5646		June 14, 1988
Royal 8	2468	5648		June 13, 1988
Royal 9	2469	5649		June 13, 1988
Royal 10	2470	5650		June 13, 1988
Royal A Fr.	2483	5682	in the second se	June 14, 1988
Royal B Fr.	2471	5683		June 13, 1988
Royal C Fr.	2482	5684	n n n	June 14, 1988
Royal 11	2472	5681		June 13, 1988
Trail 2	2484	1944	n de de	June 13, 1988
Unicorn 4	2486	1941		June 13, 1988
Unicorn 6	2385	1942	in the Carlos (in the case of	June 13, 1988
Bralorne Ext.	2989		Modified Grid: 20 Unit	Sept. 13, 1988
Standard 1	3021		" " 4 Unit	s Nov. 19, 1988
Standard 2	3022		" " 12 Unit	s Nov. 19, 1988

The claims are registerd in the name of Trans Atlantic Resources Inc.



## CLAIM MAP

STANDARD CREEK PROPERTY

Lillooet Mining Division - British Columbia

exploration ltd.

#### **HISTORY**

Gold was discovered in the Bridge River-Cadwallader Creek area in 1896. The district subsequently became the most productive in western Canada. During the 40 years of operation, production from the Bridge River gold camp amounted to 8,224,000 tonnes grading 16 ppm gold (0.52 ounces per ton) and 3 ppm silver. Production ceased in 1971 as a result of increasing costs and a fixed gold price.

The earliest recorded work in the Standard Creek area dates back to 1932 (Clothier, 1932, 1933). The Royal and Standard prospects were acquired and worked by Cadwallader Gold Mines Ltd. and Standard Gold Mines Ltd., respectively. Exploration work on the Royal prospect consisted of ground sluicing and underground development in a short crosscut adit on quartz veins up to 4.5 feet wide. The Standard prospect was explored with a number of open cuts and trenches and underground development in two adits, the principal one being 204 metres in length.

The Standard and Royal groups and surrounding claims were held in 1980 to 1982 by Hillside Energy Corp. (current holders of the JANA claim - Figure 3) who carried out soil geochemical sampling in the vicinity of the Royal prospect and on the west side of Cadwallader Creek (see Ostler, 1980; Brownlee and Fairbank, 1980; Melrose and Fairbank, 1982).

Although results were positive and detailed follow-up work was recommended by Melrose and Fairbank, no further work was

carried out.

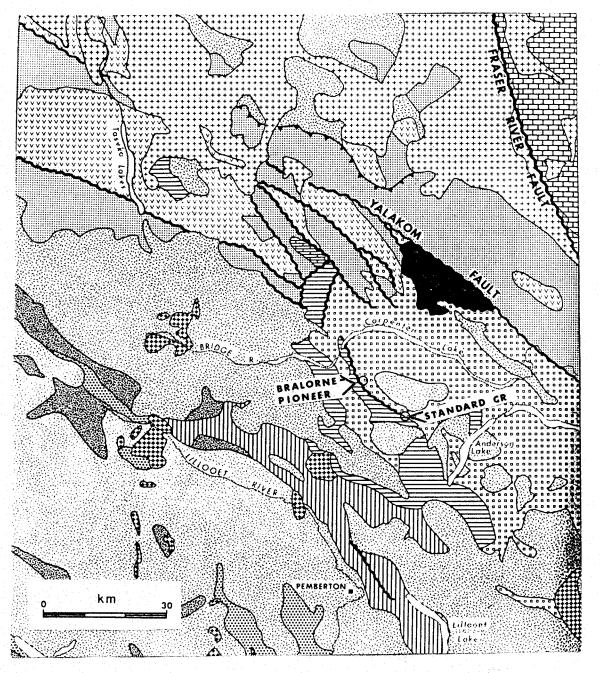
Exploration activity in the Bridge River gold camp currently is intense. E and B Exploration Inc. hold the Bralorne-Pioneer mine and have outlined reserves of 816,000 tonnes grading 8.5 ppm gold (0.24 ounces per ton) with an unknown amount of additional tonnage below the 2600 level (Bellamy and Saleken, 1983). Feasibility studies are reported to be in progress. Levon Resources and Veronex Resources have announced a new discovery (October 10 and 11, 1984 News Releases) on their Congress property (Number 16 on Figure 6) 13 kilometres north of Bralorne. Warstar Resources (October 18, 1984 News Releases) has announced discovery of new exploration targets on their Golden Sidewalk property (Peerless: Number 12 on Figure 6). X-Calibre Resources has extensive claim holdings in the camp and is presently constructing a road up McGillivray Creek to their claims immediately to the southwest of Standard Creek. Chopper Mines hold the DAL, TOM, and PAT claims (Figure 3) immediately to the north of Standard Creek and have reported the presence of a prominent quartz vein (1600 metres long by three metres wide) containing silver values of up to 27.9 ounces per ton and 1% copper (Chopper Mines Ltd. News Release of September 13, 1983).

#### **GEOLOGY**

The Bridge River gold camp is in the Pemberton Map-Sheet of Roddick and Hutchison (1973) and Woodsworth (1977). The geology of the Bridge River-Cadwallader Creek area has been described by McCann (1922), Cairnes (1937) and Joubin (1948) and has been summarized by Pearson (1975) and Woods-worth et al (1977).

Regionally, the Standard Creek property lies off the northeast edge of the Coast Plutonic Complex, near the boundary of two of the main tectonic units of the Cordillera (see Figure 4). Sedimentary and intrusive rocks of the Intermontane belt underlie the Cadwallader Creek area and plutonic rocks of the main part of the Coast Crystalline belt occur about 10 kilometres to the southwest. The Intermontane belt in the Pemberton area consists of three tectonic subdivisions separated by transcurrent faults. Several of these faults, such as the Yalakom and Fraser River fault systems have right later displacements of up to 200 kilometres and are the loci of ultramafic intrusions. According to Woodsworth et al (1977):

"Between the Coast Plutonic Complex and the Yalakom fault system is a complex series of strata, ranging in age from Middle Triassic (and older?) to Late Cretaceous. The oceanic assemblage of cherts, basalts, pelites, and ultramafics of the Bridge River Group is at least in part Middle Triassic but may include older strata. In fault contact with this assemblage are Upper Triassic pillow basalt, graywacke, and argillite of the economically important Cadwallader Group.



## LEGEND

TERTIARY  Basalt, andesite, dacite  GARIBALDI GROUP and related rocks: andesite basalt, dacite
UPPER CRETACEOUS  KINGSVALE GROUP: andesite, basalt, arkose, conglomerate, greywacke
JURASSIC and/or LOWER CRETACEOUS TAYLOR CREEK GROUP: andesite, basalt, shale; JACKASS MOUNTAIN and RELAY MOUNTAIN GROUPS: greywacke, arkose, conglomerate; Undivided: andesite, basalt, shale, greywacke
Metamorphosed sediments and volcanics
UPPER TRIASSIC  TYAUGHTON GROUP: limestone  CADWALLADER GROUP: argillite, greenstone, limestone, diorite  Metamorphosed sediments and volcanics, in part equivalent to Cadwallader Group
MIDDLE TRIASSIC and (?) OLDER  BRIDGE RIVER GROUP: chert, argillite, basalt, phyllite
PERMIAN and TRIASSIC  Ultramafic rocks
PENNSYLVANIAN and TRIASSIC  CACHE CREEK and PAVILION GROUPS: greenstone, argillite, basalt, limestone, chert
AGE MOSTLY UNKNOWN  Plutonic rocks, mainly granodiorite and quartz diorite
Migmatitic complexes
Fault ~~~
Thrust fault

Figure 4. Regional Geology of Pemberton-Taseko Lakes Area (after Woodsworth, 1977)

The Bridge River Group forms the core of a complex antiform that plunges northwesterly beneath, and is faulted against Jurassic and Cretaceous marine and nonmarine clastic rocks. To the northeast, the antiform is terminated by the Yalakom fault. The area between the Yalakom and Fraser River fault systems is underlain mainly by Cretaceous clastic and volcanic rocks and an extensive cover of Tertiary plateau basalts.

Strata between the Coast Plutonic Complex and the Fraser River fault system are punctured by intrusions of granodiorite, quartz diorite, and quartz monzonite that range in age from Middle Jurassic to Eocene."

#### MINERAL DEPOSITS OF THE BRIDGE RIVER CAMP

The Bridge River camp is best known for its precious metals deposits but deposits containing tungsten, antimony, mercury, copper, lead, zinc and molybdenum have been worked to varying degrees. Mineralization zoning in the camp was described by Pearson (1975 - see Figure 6) and Woodsworth et al (1977).

The geology of the Bralorne and Pioneer Mines was described by Joubin (1948) and more recently by Bellamy and Saleken (1983). According to Bellamy and Saleken:

".... a regional northwest-striking fault lens that cuts
Permian to Jurassic sedimentary/volcanic rock units....
and is known as the Cadwallader fault lens....

The Cadwallader fault lens is bounded on the southwest by the Cadwallader fault and on the northeast by the Fergusson thrust fault. The Cadwallader strikes northwesterly and dips vertically to steeply southwest. This fault ranges from 15 to 300 metres in width and is slickensided serpentine. Displacement along the fault is unknown as it trends approximately parallel to the bounding Hurley-Noel sedimentary and volcanic rocks. The Fergusson thrust fault is a northwest-striking, 60 to 80-degree northeast-dipping structure that thrusts Permian Fergusson sedimentary/volcanic rocks over the younger formations. The relative age relationships of the bounding faults are unclear but assumed to be contemporaneous. The faults were active over a long period of geologic time thus creating a structural setting condusive to the emplacement of the diorite/greenstone bodies that host the gold-bearing quartz veins. The movement within the fault lens was never static during the hydrothermal activity responsible for the gold solutions as is evidenced by the multi-banded quartz veins containing high-grade gold values.....

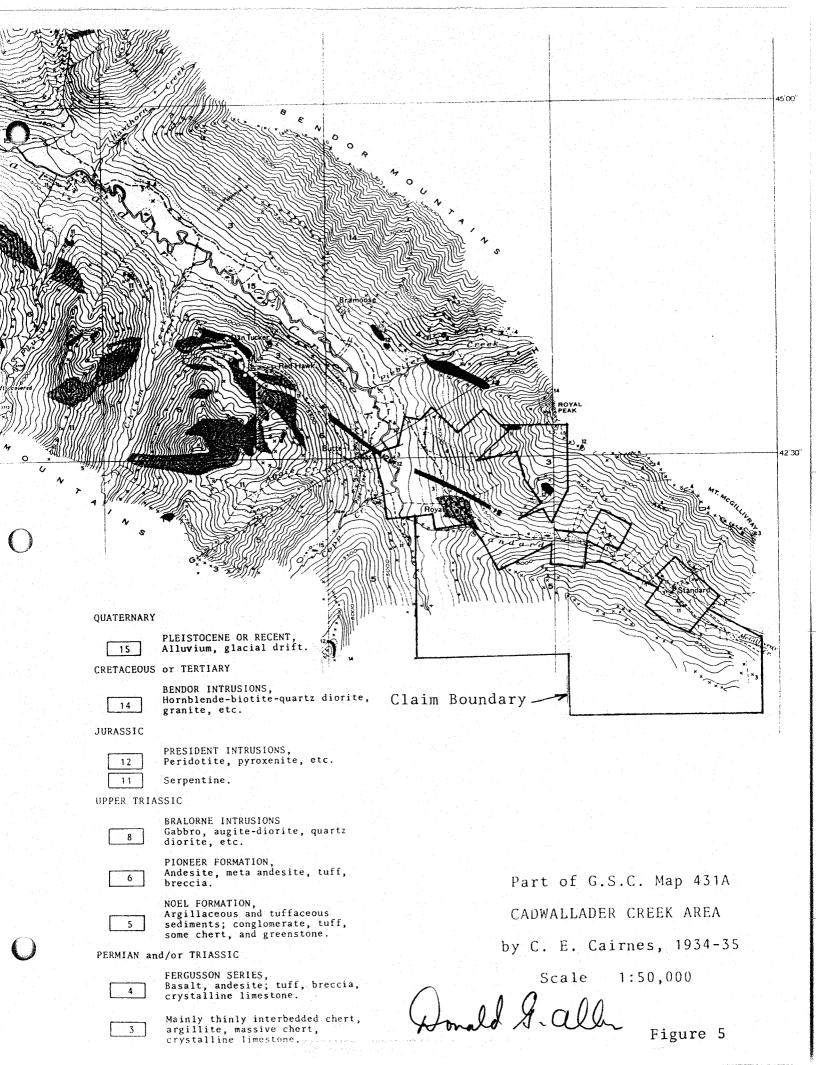
The wallrock control for the Bralorne-Pioneer veins are greenstone/diorite bodies that are competent enough to sustain brittle fractures. Veins that strike tangentially to the Cadwallader fault lens constitute the bulk of the known gold-quartz bodies in the Bralorne-Pioneer area"...

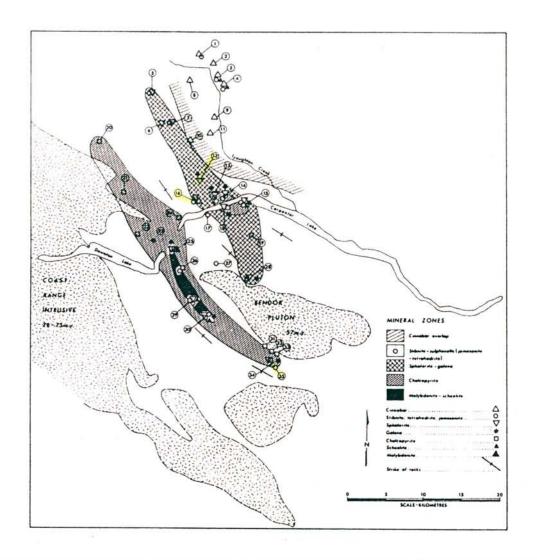
In the Bralorne-Pioneer vein system, production came from 19 of the 52 known veins".

#### LOCAL GEOLOGY

#### Structure

The most prominent structural feature of the Bridge River gold camp is the Cadwallader Creek Fault, a prominent northwest-trending fault that parallels the Yalakom Fault. The Cadwallader Creek valley has been eroded along a fault-bounded line defined by the Cadwallader Fault on the southwest and the Fergusson Thrust Fault on the northeast. The ultramafic body (unit 12, Figure 5) in the vicinity of the Butte-I.X.L. and Royal prospects probably lies along the





#### PRINCIPAL PROPERTIES

1.	Mugwamp	13.	Golden	25.	Arizona	
2.	Manitou	14.	Minto	26.	Forty Thieves	
3.	Tungsten King	15.	Olympic	27.	Rock	
4.	Tungsten Queen	16.	Congress	28.	Grey Rock	
5.	Robson	17.	Omen	29.	Bralorne	
6.	Northern Light	18.	Kelvin	30.	Pioneer	
7.	Lucky Strike	19.	Ben Dor	*31.	Bramoose	
8.	Silverquick	20.	Native Son	•32.	Chalco Z	
9.	Pau1	21.	Jewe1	•33.	Chalco 12	
10.	Lillomer	22.	Penrose	34.	Butte-I,X.L.	
11.	Charlotte	23.	Veritas	35.	Standard	
12.	Peerless	24.	Wayside	•Skar	n mineralization	

Figure 6. Metal Zoning Pattern in Bridge River Mining Camp (after Pearson, 1975).

extension of the Fergusson Thrust and/or Cadwallader Fault.

Other ultramafic bodies (peridotite and dunite of the President intrusions) probably lie along branch faults. The Standard Creek valley has probably been eroded along the southeast extension of the Cadwallader Fault.

#### Property Geology

The Standard Creek property is underlain mainly by sedimentary and volcanic rocks of the Bridge River Group (Fergusson series of Cairnes, 1937, Figure 5) which outcrop north of Standard Creek, and sedimentary rocks of the Noel formation of the Cadwallader Group to the south. Both groups are of Triassic age (Figures 5 and 7). The Bridge River Group in the claim area is comprised of recrystallized chert, intercalated with thinly bedded phyllitic argillite. Andesite and andesite tuff occur as units within the sedimentary sequence. The sedimentary rocks generally strike northwesterly and dip to the northeast. The Noel formation is comprised of argillaceous and sedimentary rocks.

The above rock units are intruded by a variety of rock types.

Granodiorite of the Bendor pluton outcrops to the north of the property in the vicinity of Royal Peak. The rock is a coarse-grained equigranular granodiorite. A fine-grained granodiorite containing scattered quartz veins was observed

in float on the ridge to the south of the Standard prospect.

A small body of dioritized greenstone outcrops in the vicinity of the Royal prospect. This rock contains andesitic to dioritic fragments in a diorite matrix. This rock type appears to be similar to the greenstone/diorite bodies which host the veins of the Bralorne-Pioneer Mine.

Serpentinite outcrops in several areas of the property. It occurs as a dike extending across Cadwallader Creek in the vicinity of the Butte-I.X.L. and Royal prospects. Outcrops are relatively few in the Standard Creek valley and on lower slopes, but an altered equivalent of serpentinite occurs both above and in the vicinity of the Standard prospect and is found on the Standard dump suggesting that it may extend from the Royal to the Standard prospects. This altered equivalent includes quartz-talc schist and a mariposite-bearing quartz-carbonate rock (listwanite) and is considered significant in that it occurs associated with many gold deposits (e.g., see Wittkop, 1983; Panteleyev and Diakow, 1981).

## Mineralization

## Royal Prospect

Mineralization at the Royal prospect was not observed because of snow conditions and the collapsed adit; however, it was described and sampled by Ostler (1980) as follows:

"The Royal Adit extends 13.6 m into sheared diorite at a bearing of  $040^{\circ}$ . Ten meters from the portal, the tunnel intersects a shear zone that strikes  $240^{\circ}$  and dips  $60^{\circ}$ N. The shear and accompanying tension gashes are filled with milky white quartz containing 2mm-long euhedral scheelite (CaWO<sub>4</sub>) crystals. Small rusty pits, probably from weathered pyrite are common on vein surfaces exposed in the adit.

At the working face; 13.6 m from the portal, is a 5cm-thick quartz vein that strikes  $031^{\circ}$  and dips  $68^{\circ}$ SE. The vein contains up to 0.5% scheelite indentified by a U.V. lamp.

Samples from the shear zone and the vein at the working face were taken and assayed:

		Ag		Au oz/t gm/mt	
	%WO <sub>3</sub>	oz/t	gm/mt	oz/t	gm/mt
Portal + 10m vein	0.25	0.10	2.58	0.003	0.08
Portal + 10m shear	0.08	0.20	5.15	0.003	0.08
Portal + 13.6 vein	0.01	0.12	3.09	0.003	0.07

A 20m-long trench was dug just up the hill from the portal. It exposed a large milky quartz vein. The adit may have been an attempt to cross-cut to the vein below surface. The writer suspects that the adit came close but did not intersect the vein exposed in the trench above."

#### Butte-I.X.L.

The Butte-I.X.L. workings lie off the north edge of the Royal 9 claim (Lot 5649). They are undoubtedly associated with the structure that strikes southwesterly and includes the Royal and possibly the Standard prospects. The property as described by Cairnes is as follows:

"The property is underlain, mainly, by banded, argillaceous, and tuffaceous sediments of the Noel formation and by substantial bodies of greenstone and associated, Braiorne dioritic rocks, most of which appear to be intrusive into the Noel. There are, also, sediments and greenstones of the Fergusson series and bodies of serpentine and peridotite.

The principal workings are at the main camp and consist of a crosscut adit 803 feet long, with short drifts from it, and a vertical shaft sunk 165 feet from the surface and connecting near the bottom with the crosscut at 300 feet from the portal.

The above work was designed to investigate exposures of vein quartz, one of which near the shaft is in sediments and another, about 200 feet southwest and farther up the hill, in greenstone. The structure of these deposits is not well defined, but they seem to strike about north SS degrees west and to dip steeply to the southwest about parallel with the general trend of enclosing formations. The continuity to the adit-level was uncertain, although it appeared probable that the first-mentioned corresponds with a quartz vein intersected by the shaft at 90 feet below the collar and that the other is the one drifted on from the crosscut level. Very little mineralization was observed in these veins at the surface, though they are reported to carry low values in gold.

At adit-level a mineralized fissure with about the same attitude as the veins above was intersected at 750 feet from the portal in the greenstone-diorite formation. It has been driven on for 50 feet or more on either side of the crosscut and a shallow winze sunk on it in the west drift. As explored the fissure carries variable widths up to 2 feet of vein quartz which, in places, is heavily mineralized with pyrrhotite, chalcopyrite, and sphalerite with lesser pyrite and galena. The vein matter pinches out towards the faces of the drifts. Values up to about \$4 in gold a ton are reported to have been obtained from this mineralized quartz."

Galena-sphalerite-chalcopyrite-pyrite-bearing quartz veins were observed and sampled by the writer. Analyses of two samples are presented on Table 1 (Samples At 182 and At 183).

#### Standard Prospect

The Standard prospect is situated at the eastern part of the property. An attempt was made to open the lower adit by hand trenching without success because of thick deposits of glacial till. The mineralization as described by Cairnes is as follows:

"For nearly 400 feet from the portal the principal adit cuts across interbedded argillaceous and cherty sediments of the Fergusson series. These strike northwesterly across the adit and dip northerly at about 65 degrees. At 100 feet from the portal the sediments are sheared and are intersected by a quartz vein, a few inches wide, with some attendant pyritic mineralization in the wall-rocks. At 150 feet a well-defined fault-fissure crosses the level and dips southwesterly at 75 degrees. At about 250 feet a strong. talcose shear crosses the adit in a more northerly direction, dipping 70 degrees easterly. Beyond this shear, the sediments, for about 25 feet, contain a network of quartz veins and veinlets, and the intervening wall-rock is sparsely mineralized with pyrite; below the shear a lot of iron oxide on the walls of the adit testify to the presence of more iron sulphides. The course and continuity of this mineralized vein zone are uncertain and no attempt has been made to follow it. At about 350 feet another shear, or fault, crossed the adit in an east-west direction and stands nearly vertical. Its relation to the talcose shear is not disclosed.

Between 400 and 620 feet the adit crosses highly altered rocks, which for much of this distance are intensely sheared and talcose. They appear to be mainly igneous types including altered serpentine, with some greenstone about midway of the section. At different places in this section the crosscut exposes considerable widths of quartz across zones up to several feet wide and striking apparently about northwesterly. Both quartz and wall-rocks carry pyrite and a little arsenopyrite. The section, too, includes a conspicuous amount of the bright green mineral, mariposite.

"Beyond this belt of highly altered rocks the crosscut again enters Fergusson sediments which persist to near the face where a rather coarse-textured, talc-carbonate rock, probably formed from serpentine, appears.

No sampling was attempted by the writer, but the management reports assays in gold ranging from less than a dollar to as much as \$240 a ton (with gold at \$30 an ounce) and visible gold is stated to have been seen in some crushed samples. Average values are not known, but channel samples across sections of the widest vein zone, about 250 feet from the portal, are reported to have assayed as high as \$5.10 in gold a ton.

At a point on the surface about 150 feet above and midway of the length of the adit is an open-cut or trench 30 feet long, exposing near the centre 4 feet of quartz lying between sediments to the southwest and probably altered serpentine to the northeast. The latter is sheared and carries an abundance of mariposite. Fifty feet or so higher and apparently about vertically above the face of the crosscut adit is an open-cut or short-caved adit, exposing sheared, talcose carbonate rock. Similar rock is exposed in a small creek bed about 50 yards to the southeast.

Over 100 feet higher up the slope on the east bank of the same creek and about 1,300 feet northeast of the portal of the crosscut adit is an open-cut across a narrow, but well-defined ridge, exposing a width of 15 to 20 feet of highly sheared rocks containing numerous quartz veinlets and spotted with mariposite. The ridge itself is a noticeable topographic feature and can be followed northwesterly for about 2,000 feet.

Trenching in the valley bottom to the southeast of the crosscut adit has exposed a width of about 30 feet of a mineralized zone striking northwesterly and standing nearly vertical. The zones is flanked to the southwest by serpentine and appears to be an altered, mineralized phase of this rock. It is composed mainly of talc and carbonate with an abundance of mariposite. The zone contains a network of quartz veinlets including many irregular, small masses of crystalline and chalcedonic quartz. In places it is liberally impregnated with pyrite and samples containing visible free gold are reported to have been found.

The short adit and open-cuts near the Standard camp expose sheared and altered sediments, containing veinlets of quartz along numerous slips and fractures which, in places, are coated with pyrite.

The foregoing description of the Standard workings indicates a series of shear zones, striking northwesterly and associated with vein quartz deposits and a disseminated, pyrite mineralization. It seems probable that both sulphide mineralization and quartz deposition are related to the serpentine alteration to talc and carbonate and have been affected by thermal solutions originating with the underlying Bendor batholith."

Mapping and sampling the dump by the writer revealed phyllitic argillite, talc-altered sperpentinite containing mariposite and much quartz vein material. Samples of dump material were found to contain significant amounts of arsenic (up to 1310 ppm or 0.13%) and minor gold values (up to 0.008 ounces per ton in a panned concentrate). The talc altered serpentinite also contained significant nickel values (up to 1120 ppm or 0.11%- see Table 1).

#### Other

Elsewhere on the property, the sedimentary rocks of the Bridge River series are locally quartz-veined and contain amounts of pyrite. Distribution of the quartz-veined sedimentary rocks appears to have some relationship to the distribution of molybdenum in soil (see below) and quartz-veined rocks continued 4 to 13 ppm molybdenum suggesting that a centre of quartz stockwork mineralization may be present but this has not been proven by mapping, nor has geochemical sampling fully outlined the zone.

TABLE 1

0.0011	CAMBIT	PECCETATIONS
ROUK	SAMPLE	DESCRIPTIONS

			Au ppb	As ppm
248 AT	181	Quartz-mariposite rock - Standard dump.	10	
	182	Quartz-mariposite rock. Standard dump.	10	
	183	Quartz vein material from Butte-IXL dump.	460	
	184	Quartz vein material with chalcopyrite, sphalerite, galena, from Butte-IXL dump.	9.0	
	211	Rusty weathering biotite phyllite.	10	4
	213	Pyritized diorite.	10	4
	215	Green tuff with minor disseminated pyrite.	10	4
	217	Phyllitic argillite interlayered with quartzite - contains disseminated pyrite.	1 0.	12
	218	Quartzite and/or recrystallized chert containing vuggy quartz veins - rusty weathering.	10 °	32
	220	Grey phyllite from Standard dump.	10	516
	220a	Panned concentrate of crushed dump material.	0.001 oz/	t 6
	221	Talc-quartz-mariposite rock - Standard dump.	10	154
	221a	Panned concentrate of crushed dump material.	0.006 oz/	t
	222	Serpentinite with some quartz vein material - Standard dump.	10	1310
	222a	Panned concentrate of crushed dump material.	0.008 oz/	t
	223	Quartz-mariposite-talc rock.	10	344
	224	Panned concentrate of crushed dump material.	0.001 oz/	t.
L18E	6+50S	Fine-grained chert interlayered with biotite phyllite containing vuggy qtz veins.	10	6
L20E	11+90S	Epidote-rich greenstone (float) with disseminated pyrrhotite.	10	2
L20E	7+60S	Pyritized metasiltstone.	10	4
248 MT	4	Quartz-veined quartzite with abundant pyrite.	10	4
МТ	2	Gabbro-pyrite on fractures.	10	2
L37-39	21+005	Quartz-veined quartz diorite.	10	

#### 1984 WORK PROGRAM

During the period October 3 to November 6, 1984, an exploration program consisting of geophysical and geochemical surveys was carried out on the Standard Creek property. Geological mapping was also carried out but was hampered by an unusually early snow fall. An unsuccessful attempt was made to open up the Standard adit by hand. In addition, topographic base maps at a scale of 1:2,500 and 1:5,000 were prepared from airphotographs by Triathlon Mapping Corporation.

To facilitate fieldwork, a flagged grid was established. Lines were laid out using compass and hip chain at 100 or 200 metre spacing and flagged at 25-metre intervals. The lines were tied into Hillside Energy's grid (Lines 1E to 12E, Figure 8) on the western part of the property. The trail along Standard Creek was used as a base line (Line 16+00 South).

#### GEOCHEMICAL SURVEY

#### Method

Soil sampling was carried out at 50-metre intervals on flagged lines as shown on Figure 8. Soil material was collected with grubhoes and consisted mainly of glacial till taken at depth of 20 to 30 centimetres, well below th "A"

horizon. Above treeline, fine brown grassland soil was locally present. Stream sediment samples were collected at selected locations. Stream sediment samples consisted of silt or unsorted gravel, taken from active parts of the stream channel. Rock samples were also taken at selected locations (Table 1).

The soil geochemical survey was intended to test primarily for gold and silver; however, extensive overburden in the form of valley bottom fill and prominent lateral glacial moraines on valley walls indicated that more mobile path-finder elements such as molybdenum, copper, zinc, and arsenic should be used. Previous geochemical surveys by Hillside Energy on the western part of the claim group had identified prominent zinc and arsenic anomalies along with scattered gold, tungsten and mercury anomalies. Results of this work are summarized on Figures 8a to 8c. In addition, nickel and cobalt analyses were possibly useful, along with magnetic surveys, to outline serpentinite bodies. Manganese and iron were analyzed mainly to assist with evaluating any multi-element anomalies obtained.

Soil and stream sediment material was placed in Kraft paper bags and shipped to Rossbacher Laboratory Ltd. for preparation and analyses. Samples were screened to -80 mesh and analyzed for molybdenum, copper, nickel, cobalt, manganese, iron, silver, lead, zinc, arsenic and gold by standard atomic absorption techniques.

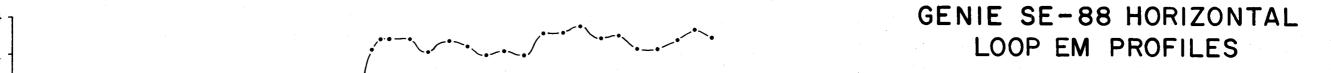
Frequency Pair 112 / 3037 Survey date: Oct. 22, 1984.

LOOP SEPARATION = 60 metres

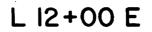
TRANS ATLANTIC RESOURCES INC.

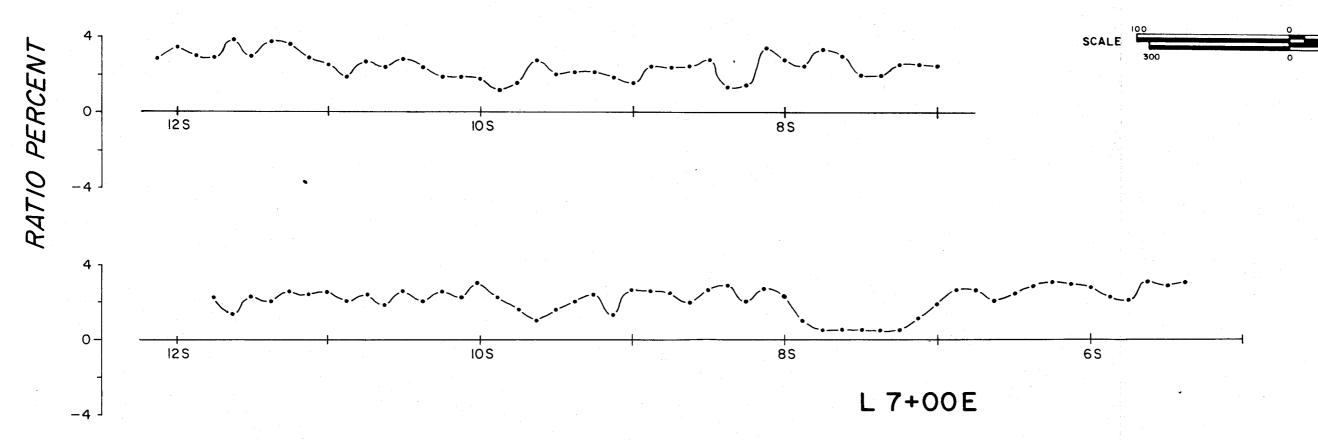
STANDARD CREEK PROPERTY

LILLOOET MINING DIVISION - BRITISH COLUMBIA



125





DISTANCE (metres x 100)

A.M exploration Itd

#### Results

Soil sample sites and selected results are plotted on Figures 8a to c and results presented in Appendix I. Some of the geochemical results of interest are summarized below:

#### Arsenic Geochemistry

Much of the Standard Creek area has a high arsenic background. Prominent arsenic anomalies (>60ppm) with values ranging up to 4160 ppm (0.41%) in soils, occur in a number of east-west trenching belts across the property. The most prominent anomalies are on the Royal claims and in the vicinity of the Standard prospect. The former is about 1500 metres long by 50 to 200 metres wide and the latter is 700 metres long by 200 to 300 metres wide (open to the southeast).

## Gold and Silver Geochemistry

Scattered gold anomalies occur throughout the grid area, the best value being 350 ppb to the north of the Standard prospect. Anomalous silver values (0.8 to 1.6 ppm) are also scattered.

## Zinc Geochemistry

Moderately to strongly anomalous ( > 200 ppm) zinc values occur mainly in the western part of the property.

Work by the Hillside Energy outlined a prominent +500 ppm zinc anomaly north of the Royal prospect.

## Molybdenum Geochemistry

Molybdenum values are usually high (10 to 35 ppm)

in soil over parts of the Standard prospect area and much of the area between Lines 14 and 20. The anomalous area has not been defined to the west because Hillside Energy did not analyze for the element. The high values suggest that the sedimentary rocks might have unusually high metal contents, or else may be related to the quartz veining which has been observed locally. Molybdenum in soils might indicate areas where quartz veining and hence hydrothermal activity was more intense.

## Nickel and Cobalt Geochemistry

Anomalous nickel (>200 ppm) and cobalt (>20 ppm) appear to have potential in outlying distribution of the altered ultramafic rocks. Anomalous nickel values in the Standard prospect area in the vicinity of Line 18 appears to define the ultramafic rocks. The high nickel and cobalt values in the vicinity of Line 20E, 12 to 16S are unexplained.

## Copper and Lead Geochemistry

Copper values are generally low but elevated to anomalous values (>80 ppm) occur associated with higher nickel values. Lead values are uniformly low.

#### Discussion

Geochemical soil sampling has revealed the presence of prominent zinc, arsenic, molybdenum, and nickel geochemical anomalies. The zinc and arsenic anomalies are considered to be significant because 1) both arsenopyrite and sphalerite

occur in gold-quartz veins at Bralorne, 2) both are relatively mobile in the weathering environment and 3) both are known to be good pathfinder elements for gold. Molybdenum anomalies in soils appear to be related to quartz veining observed in outcrops. Areas of high molybdenum might indicate "hot spots" of hydrothermal activity and should be followed up with detailed mapping and detailed geochemical sampling.

Gold and silver anomalies in soil are scatterd and widespread. This may be due to their relative immobility compared to zinc and arsenic as well as the presence of lateral glacial moraines which occur in a number of benches along the valley walls.

Selected series of samples should be tested for antimony and mercury. Both are also possible pathfinder elements for gold and both occur in many mineral prospects in the Bralorne Gold Camp.

#### GEOPHYSICAL RESULTS

A program of very low frequency electromagnetic and magnetic surveys were completed over a large portion of the survey grid. In some areas, induced polarization and horizontal loop electromagnetic surveys were also completed.

A Scintrex MP-2 proton magnetometer, and a Sabre Model 27 VLF-EM receiver were used for the surveys. Readings were taken at 25 metre intervals on lines generally spaced 100 metres apart. Detailing was performed in selected areas with a Scintrex Genie SE88 horizontal loop electromagnetic system. A Sabre frequency domain induced polarization system was used for the I.P. survey.

#### Standard Adit Area

In the vicinity of the Standard adit all four techniques were employed in order to geophysically "fingerprint" the responses of the various rock types and the mineralized zone, reported by Clothier (1933), (Figures 9 to 11 and 13).

The induced polarization and resistivity surveys were most effective in outlining potential mineralized zones of the type reported in the Standard adit between 214 and 284 feet from the portal (70 feet of 0.125 oz/ton Au). The vertical projection of this zone is marked by a pronounced apparent resistivity high (greater than 400 ohm metres) with a co-incident weak relative high I.P. response (greater than 3% frequency effect). The responses obtained could

be accounted for by an introduction of silica in the form of quartz stringers carrying the minor amounts of pyrite into the talcose vein zone as reported by Clothier. The zone of high resistivity is approximately 75 metres wide, strikes parallel to the 16S baseline, and extends from station 15 + 15S on L37E to 15 + 50S on L35E.

The talc-altered serpentinite bodies are characterized by very distinct I.P. highs (from 10-40 p.f.e.) and marked apparent resistivity lows (from 50 to 250 ohm metres). There is a local 50 gamma magnetic high in the vicinity of the talc-altered serpentinite outcrop located at 14 + 00S on L37E. The unaltered serpentinites located just south of the baseline between L38 and 39E corresponds with a marked magnetic high, with values exceeding 1200 gammas above background (Figure 9). The talc alteration would therefore appear to have removed the magnetite from the serpentinite bodies.

A linear VLF-electromagnetic conductor occurs immediately north of the talc-altered serpentinite at 13 + 50S between Lines 35 and 39E. The response could be caused by a near surface shear zone, as is further evidenced by a co-incident strong, topographic linear feature. This shear is believed to represent the extension of the Cadwallader fault.

Further induced polarization and resistivity surveys will be required to fully outline the resistivity high zone detected by the present survey. Readings should be obtained

for a minimum of n=a to 3, in order to allow sufficient depth penetration to detect any unoxidized sulphides present.

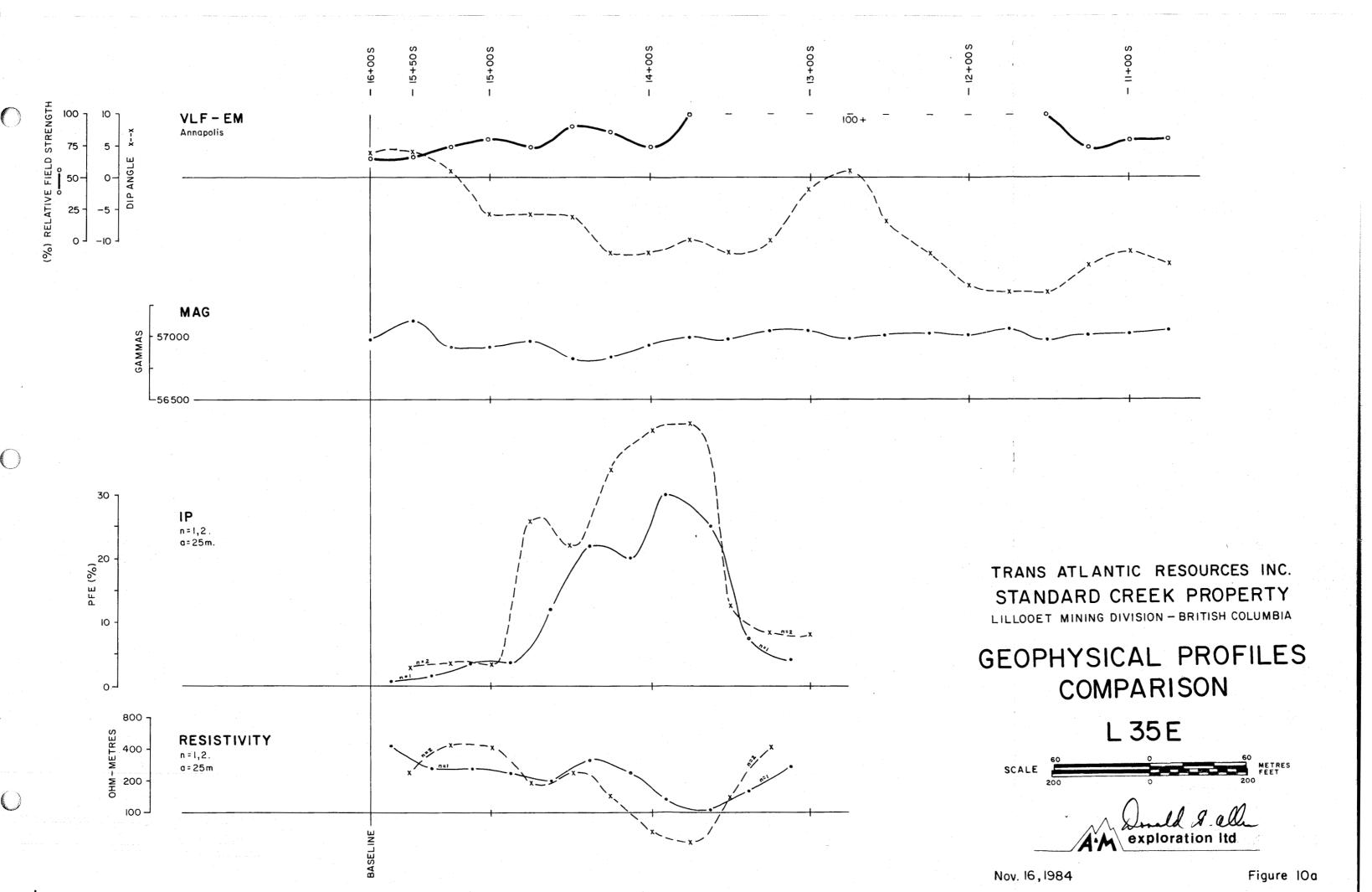
#### Royal Creek Area

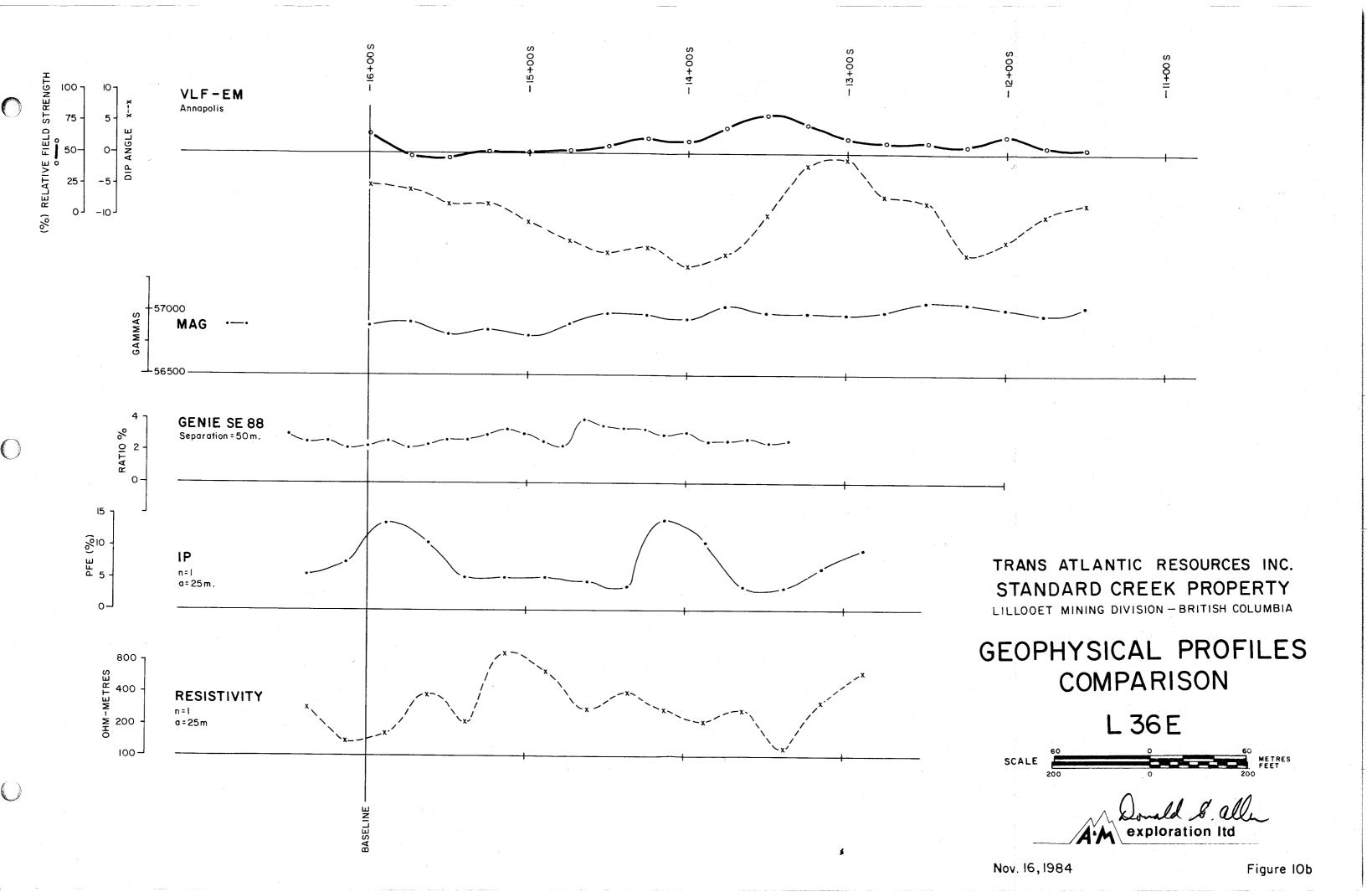
Very low frequency electromagnetic and magnetic surveys were completed over the grid in the Royal Creek area (Figures 12 and 13). Horizontal loop electromagnetic profiles were also completed on lines 7 and 12E.

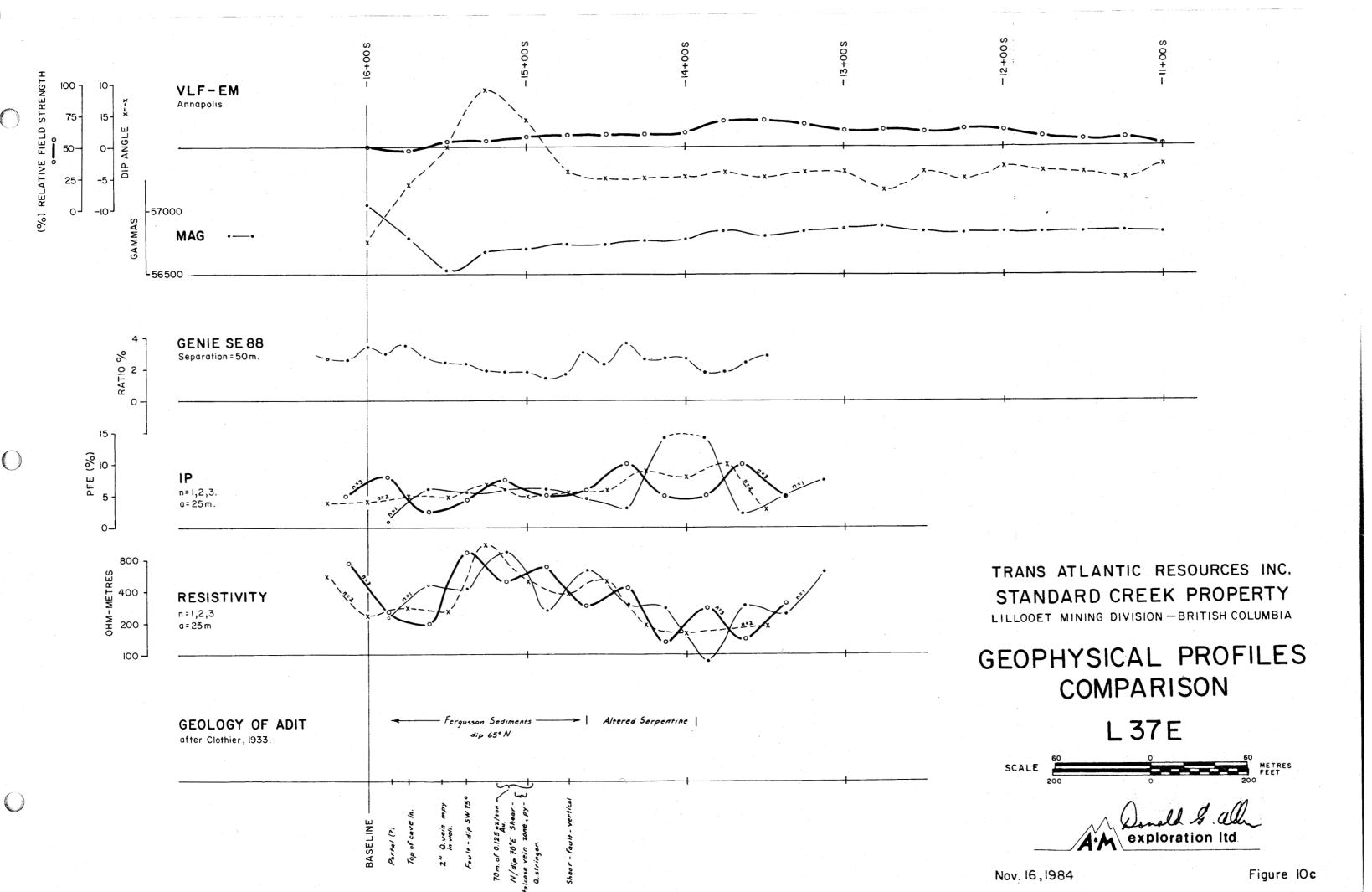
The magnetometer survey outlined a 400 gamma east-west trending high zone located between lines 16 and 20E from 5 + 00 to 10 + 00S. This anomaly is probably caused by an underlying serpentinite body. Two other lower level magnetic anomalies were also detected at between lines 16 and 20E at 14 + 00S and between L12E, 13 + 00S and L7E, 10 + 00 to 14 + 00S. These lower level anomalies may outline the more highly altered serpentinite rocks.

The 400 gamma magnetic high anomaly is separated from the lower level anomalies by a weak but continuous VLF-electromagnetic conductive zone. This conductor is trending approximately northwesterly co-incident with a marked topographic linear. It strikes from approximately 3 + 00 to 4 + 00S on L7E to 9 + 00 to 12 + 00S on L18E. It probably represents a major shear zone, perhaps a splay of the Cadwallader fault.

A forty metre wide weakly conductive zone was detected by the Genie SE88 horizontal loop electromagnetic system, centred at 7 + 50S on L7E. This weak conductor is flanked on each side by anomalous arsenic soil anomalies and will therefore require further evaluation.







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#### CERTIFICATE

#### I, Donald G. Allen, certify that:

- 1. I am a Consulting Geological Engineer, of A & M Exploration Ltd., with offices at #214 850 West Hastings Street, Vancouver, British Columbia.
- 2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
- 3. I have practised my profession of exploration geologist since 1964 to present in British Columbia, the Yukon, Alaska and various parts of the Western United States.
- 4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
- 5. This report is based on field work carried out personally on October 3 and October 18 to 21; on field work carried out by A & M Exploration Ltd., during the period October 18 to October 25, 1984, and on information listed under References.
- 6. I hold no interest, nor do I expect to receive any, in the Standard Creek property or in Trans Atlantic Resources Inc.
- 7. I consent to the use of this report in a Statement of Material Facts or in a Prospectus in connection with the raising of funds for the project covered by this report.

November 28, 1984 Vancouver, B. C.

Donald G. Allen P. Eng. (B. C.)

ed s.all.

APPENDIX I
Analytical Results

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD.

214-850 W. HASTINGS STREET

VANCOUVER, B. C.

PROJECT No.: 248

CERTIFICATE No.: 84448

INVOICE No.: 5013

DATE ANALYSED: Oct.11,1984

FILE NAME: A&M448

PRE FIX SAMPLE NAME	PPM PPM Ma Cu	PPM PPM Ag Zn	PPM PPB Pb Au	
A 248 AT 181 A 182		0.4 34 0.2 54	4 10 4 10	
A 183 A 248 AT 184		0.4 48 2.8 8800	14 460 180 90	

CERTIFIED BY

Hossback

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS ST. VANCOUVER,B.C.

PROJECT No.: 248

CERTIFICATE No.: 84488 - 1 INVOICE No.: 5077 DATE ANALYSED: NOV.7,1984

FILE NAME: A&M488

PRE FIX	SAMPLE NAME		PPM Mo	PPM Cu	PPM Ni	PPM Co	PPM Mn	% Fe	PPM Ag
s ,	/ST#2-0W- 500	S 16005	<u>-</u>	 94	520	 46	 750	4.2	1.0
S	<b>42</b> o 550	상대 그 아이 남자 그를 마시하는데 살아 이 그는 것 같아 하다.	2	18	56	12	310	2.7	0.4
s	600		$\bar{2}$	22	- 58	14	550	3.3	0.4
s \	1. 化水面 1.17 (1.18) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5 17 <i>5</i> 05	1	26	28	8	300	3.1	0.2
sl	<b>70</b> 0	- 프라이트 - 1만 연락하루를 시작되는 사이트 (1885년 사용) - 10 10 10 10 10 10 10 10 10 10 10 10 10	2	20	22	8	270	3.3	0.2
S	750		2	14	22	8	220	3.2	0.2
S	800		1	4	4	2	90	1.2	0.2
5 L20 {	850		3	. 26	60	10	280	3.2	0.2
5 <sup>1</sup> )	900		2	8	16	4	180	2.3	0.2
.S	750		Í	6	20	8	300	3.2	0.2
S \	_ST#2-0W-1000		3	26	36	14	810	3.4	0.4
s (		s7 <b>195</b> 05	0.3	18	40	8	260	3.7	0.2
s 419 3	900	5 (28005	2	22	26	8	730	2.8	0.2
ş l	∟ST#2-1W- 950 :	5 <b>30-5</b> 05	2	8	10	4	160	1.5	0.2
)	248 MT_1		14	62_	8	2_	450	1.6	0,4
Á	248 MT 2		4	96	98	36	730	5.3	0.2
S,	84-248 GS 76 :	S.LINE 784 M	<b></b>	22	34	8	240	2.8	0.2
S	84-248 GS 78		3	26	88	16	560	2.3	0.2
S.	84-248 GS <b>\$7</b>		8	20	62	14	1700	1.9	0.6
5	L-W_O+QO_	5	3	52	<u> 178</u>	32_	810	4.3	0.4
S	0+50	5	2	48	132	28	760	4.2	0.2
S	1+00 {		2	46	144	28	820	3.7	0.2
S	1+50	S. Paris de la	3	- 62	322	26	810	3.8	0.2
S	2+00 9	<b>5</b> )	4	46	84	12	600	उ.०	0.2
5	2+50 !		4	80	_122	20_	<u> 560 </u>	3.9	0 <u>.2</u>
S	3+00 !		2	86	396	42	820	5.2	0.2
S	3+50 (		3	58	124	22	540	3.9	0.2
S	4+00 !	살림, 하는 이 교육 이 나는 이 사람들이 다른 하는 것이 되었다. 그런 하는 것은 사람들이 되었다.	5	52	122	16	520	3.7	0.2_
<b>S</b>	4+50 9	化二氯酚 萨尔特尔 人名英格兰 医电影 医皮肤 医乳腺 医乳腺 化二氯甲基甲基甲基甲基甲基	5	44	100	22	840	3.3	0.2
S	<u>5+00 (</u>		9	56	110_	20_	<u> </u>	3.3_	0.2
S	LPW 5+50 (		12	54	98	16	830	3.2	0.2
S	6+00 (		4	38	86	14	570	2.8	0.2
S	6+50 {		4	40	120	18	680	3.5	0.4
S	7+00 9		5	34	86	14	400	3.3	0.4
S S	Z±50_{			46	98	18_	910	3.2	0.2
S	B+QQ_{		5	44	92	.12	580	3.8	0.2
S	8+50 9		13	46	118	14	860	2.7	0.2
<b>S</b>	Lew 9+00 (		11	10	34	6	280	2.2	0.2
S 84CR			3	74	្ចរ50	24	740	3.0	0.2
Y	. 14 L2:1+ 50		3	64	100	16	590	2.8	0.2

CERTIFIED BY

J. Ambode

#### CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

CERTIFICATE No.: 84488.A - 1

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS ST. VANCOUVER.B.C.

14-850 W. HASTINGS ST. INVOICE No.: 5078

VANCOUVER, B.C. DATE ANALYSED: NOV. 7,1984
PROJECT No.: 248
FILE NAME: A&M488.A

PRE		PPM	PPM	PPB	PPM	
FIX	SAMPLE NAME	Zn	F'b	Au	As	
<b>S</b>	/ST#2-OW- 500 S /6005	202	12	10	 48	
S	550 S 16565	70	- <del>-</del> 4	10	82	
S	600 S 17005	88	2	10	100	
S	650 S 1750S	66	2	10	12	
_ <u>S</u> _		58	4	10	6	
S	750 <b>5 /e6s</b>	46	6	10	7 2	
S L2	າງ 120 800 <b>S 1900</b> \$	16	2	10	2	
S	850 5 19505	62	2	10	26	
S	900 5 <b>70005</b>	36	6	10	6	
_S	L950 S 30666	64	4	10	70	
S	(ST#2-0W-1000 5 2/06 \$	116	2	10	140	
S	ST#2-1W- 850 S M50 S	60	4	10	14	
S L 19		84	4	.10	72	
_S	(ST#2-1W- 950 S 20505	30	2	10	10	
( )	248 MT 1	94	12	10	4	
A	248 MT 2	124	4	10	2	
S	84-248 GS 76 S.LINE 784 M	62	<b>4</b>	10	26	
S	84-248 GS 78	64	2	10	26	
S	84-248 GS 87	50	2	10	14	
<u>S</u>	L-W_0+00_S	98	4	10	30	
S	0+50 <b>S</b>	96	4	10	24	
S	1+00 S	92	4	10	24	
S	1+50 S	120	8	10	66	
S	2+00 5	100	8	10	28	
_S	<u>2+50</u> s	110	4	10	28	
S	3+00 S	150	4	10	50	
S	3+50 S	108	4	10	10	
S	4+00 S	122	4	10	14	
S	4+50 S	120	4	10	10	
_5	5+00_S	140	4	10	10_	
5	L-W 5+50 S	136	4	10	10	
5	6+00 S	86	4	10	10	그렇게 집중하는 것은 이 없는 것이다.
S	6+50 S	112	4	10	20	
S	7+00 S	92	4	10	36	
_======================================	<u>7+50_S</u>	126	4	10	36	
<u>S</u> S	8+00 S	112	2	10	100	
S .	8+50 S	86	2	+ 10	50	
. S	L-W 9+00 S	54	2	10	46	
S 840		124	12	10	5 <b>2</b>	
<b>(L)</b>	4 L2 1+ 50	104	12	10	44	

CERTIFIED BY :

J. Morsbard

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET

VANCOUVER.B.C.

PROJECT No.: 248

CERTIFICATE No.: 84479 - 1

INVOICE No.: 5058

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479

PRE FIX	SAMPLE	NAME	PPM Mo	PPM Cu	PPM Ni	PPM Co	PPM Mn	% Fe	₽₽M Ag	PPM Zn	PPM Pb
		· · · · · · · · · · · · · · · · · · ·	)  \- 		173.						
S	GS	1	1	20	26	8	520	1.5	0.2	76	12
S		2	1	20	32	8	410	2.4	0.2	90	8
S		3	1	1.4	12	6	300	2.2	0.2	206	8
S		4	1	28	26	8	280	3.5	0.2	66	10
_9		5	1_	14	<u>14</u>		2 <u>60</u>	2.3_,	<u> 0.2</u>	58	
S		6	1	14	14	6	470	2.3	0.2	66	6
S		7	1	12	14	6	230	1.8	0.2	56	6
S		8	2	18	20	10	360	2.8	0.2	76	4
S	가는 이렇게 하셨다.	9	2	16	52	10	290	2.4	0.8	60	8
_S		10	2_	30	170	24	410	3.1	0.4	96_	6
S	GS	11	3	32	268	40	790	3.5	0.2	114	8
S		12	11	56	162	34	820	4.0	0.4	122	8
S		13	7	54	206	32	840	3.9	0.6	112	8
S		14	3	58	270	34	620	4.3	0.6	96	8
<b>~</b>		15			<u> 178</u>	30	750	4.3	0.6	106	6
<b>J</b> i		16	8	46	130	28	860	4.0	0.4	116	6
S		17	3	64	114	22	510	3.5	0.4	100	4
S		18	115	20	- 88	16	860	9.7	0.2	28	6
S		19	10	66	162	30	7 <b>9</b> 0	4.5	0.2	122	8
<u> </u>		20	5_	56_	154	22	630	4.2	0.2	130	6
S	G9	21	4	44	88	18	720	3.1	0.2	126	8
S		22	5	40	84	16	770	3.3	0.2	136	8
S		23	3	48	88	12	630	3.1	0.4	98	10
S		24	3	44	82	18	720	3.0	0.4	120	8
		25	3	38	68	12	530	2.8	0.6	110	8
S		26	8	46	80	20	690	3.5	0.6	118	8
S		27	4	36	68	16	570	3.0	0.2	110	8
S		28	2	12	18	2	140	0.8	0.2	32	6
S		29	2	46	94	16	410	3.3	0.4	94	8
<u> </u>		30	4	52_	90	18	630	3.5	0.4	118	6
S	GS	31	3	46	76	18	740	3.0	0.2	112	8
S		32	3	30	70	14	550	3.2	0.2	104	8
S	음식하다 하는 화물빛	33	3	38	146	20	510	3.7	0.2	126	8
S		34	2	38	312	42	830	4.6	0.2	98	4
_S		35	1_	30	74	16	400	3.2	0.2	100	6
S		36	1	30	470	26	720	3.1	0.4	84	6
S		37	2	32	74	16	540	3.2	0.4	104	8
S		38	3	50	92	20	690	3.4	0.4	116	6
S		39	2	48	94	20	670	3.3	0.4	104	6

CERTIFIED BY :

Monsbach

#### CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET VANCOUVER, B.C.

PROJECT No.: 248

CERTIFICATE No.: 84479.A - 1 INVOICE No.: 5059 DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479.A

Horsborek

SAMPLE GS	1 2 3 4	PPB Au 10 10	FPM As 14 16	(2)
	1 2 3 4	10 10	14	<u> </u>
GS	2 3 4	10		
	2 3 4	10		
	4			
	4	19 70 70 70	12	물론 마음들이 사람들 하기 위하는 10일이 되었다. 그 그는 그는
		10	36	경영방 마시티스 보고 있는 내가 되는 경향을 잃어 하다는 모든 모든 모든다.
	5	10	14	하고 하는 것이 되는 것이 있는 것이 되었습니다. 그 등록 경우를 보고 있는 것이 되었다. 그는 것이다. 그렇게 하고 말한 그런 하고 있는 것은 것이 물을 하고 있는 것이 없는 것이 되었다.
	6	10	12	
	7	10		(2) [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
	8	10		선생님 교통 바람이 아니라를 가는 살아 보다 하는 사람이 그 모양
	9			. 이 그리는 이렇게 말씀하게 보는데, 모양을 때 말라다는 것이라고 되었다. 이 전통이 된다. 지도 하고 있다. 사람들은 하는데 보는데 보는데 보고 있다.
	10	10		지장 모양수로 취실하는 지역 실진 그릇들이 하다고 있었다고 계상하다
GS	11	10	400	
	12	10	164	. ''인데'하다 '얼마의 살이 아니다. 이 아니다. 나는 아니다.
	13	10		나는 네 그 맛있다는 보다 하루에 있는 지 못하는 것도 나는 하는 모두 됐다.
	14	10		발표하다 말래 지는 화면 생각이 끝에 되면 가면 가면 가게 되는 데 되었다.
	15	10	The second field of the second	지수를 되는 지수야 하는 사람들은 사람들이 되었다. 그렇게 되었다.
	16	10		
	17	10		[마루 마일시] 경우를 가지 않는 사람들은 사람들이 되었다.
	18			미 글리면 얼굴로 생물하다고 있었을 때 생일을 하는 것으로 모르는 것이다.
	19			하다 아이들은 함께 보이는 가능하는 데 없었다. 그는 이렇게 그렇다.
	20	10		생활을 보는 사람들이 되는 것들이 가장 하는 것이 없는 것이 없는 것이 없는 것이다.
GS	21	10		
	22	10		맞아는 이 사람이라고 그렇게 생활을 가겠다. 이번 말이 먹는 그 살이다.
				발표의 : : [12] [12] [13] : [14] : [15] [15] : [15] : [15] [15] [15] : [15] [15] [15] [15] [15] [15] [15] [15]
	24	10		공항의 교통을 하여 기반에게 불빛했다는 폭발이다는 이번 들어가 되었다.
		10		보통되고 하다. 그는 사람들은 경우를 하고 있다는 것이 되었다.
		350		The party which was not been party that you was not a season which was the party was spin party which was made about the county of the party was not been party was n
	27	10		경도 있다. 그는 그렇게 되는 것들은 경우를 가장하는 것을 받는 것이 되었다. 그 것이 되었다. 20 이 사람들은 기업을 하는 것을 하는 것을 하는 것을 받는 것을 하는 것을
	28	10		할머니의 회약으로 얼굴을 잃었다. 그렇게 하는 하네요. 그림은 나이스
	29	20	46	보다 이번 노력 전환 화장을 당했다. 그 화장한 보다 이 말을 보다 되었다.
	30	10	42	를 보고 있는데 되고 말았다. 가장 되는 그 사람이 뭐라면 말아 먹지 않는다.
GS	31	10	42	
	32	10		말으로 하면 생각하다 하다면 살아 이 나는 사람들이 살아 하다.
	33	10		보는 이름은 항품을 맞아졌다면서 이 네트를 받는다는 그리고 하는다.
				되고 그리고 있다면 하는데 하는데 어떻게 되는데 하고 있다. 그 나는
	35	10	92	경제: 그리다 : : : : : : : : : : : : : : : : : : :
				n mar and the transport of the contract of the state and t
	37	10		
	GS	7 8 9 10 10 12 13 14 15 15 16 17 18 19 20 65 21 22 23 24 25 26 27 28 29 30 65 31 32 33 34 35 36 36	7 10 8 10 9 10 10 10 10 10 GS 11 10 12 10 13 10 14 10 15 10 16 10 17 10 18 10 17 10 18 10 17 10 20 10 20 10 21 10 22 10 23 60 24 10 25 10 26 350 27 10 28 10 29 20 30 10 GS 31 10 32 10 33 10 34 10 35 10 36 10 37 10 38 10	7 10 10 8 10 52 9 10 62 10 10 170 GS 11 10 400 12 10 164 13 10 170 14 10 228 15 10 180 16 17 10 52 18 10 336 19 10 42 20 10 40 GS 21 10 34 22 10 28 23 60 40 24 10 22 25 10 18 26 350 26 27 10 30 28 10 14 29 20 46 30 10 42 31 10 42 GS 31 10 42

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CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET

VANCOUVER, B.C. PROJECT No.: 248

CERTIFICATE No.: 84479

INVOICE No.: 5058

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479

PRE FIX	SAMPLE N	IΔME	PPM Mo	PPM Cu	PPM Ni	PPM Co	PPM Mn	% Fe	PPM Aa	PPM Zn	PPM Pb
										411 	
S	65	40	5	42	78	12	490	3.2	0.6	88	14
S		41	4	44	80	12	380	3.0	0.2	78	8
S		42	4	42	80	10	380	3.2	0.4	96	8
S	봤는 얼마나 얼룩이다.	43	6	44	80	18	680	3.6	0.2	124	8
_ <u>s_</u> _		44	5_	40	82	26_	710	3.3	0.2	112	
S		45		44	86	18	690	3.6	0.2	122	10
S		4,6	4	40	78	16	850	2.9	0.2	132	8
S		47	4	48	82	18	690	3.5	0.2	126	6
S	경화, 그는 일이 되었다.	48	5	26	46	12	460	1.7	0.2	52	6
S		49	4	38	84	16	480	3.3	0.2	94	6
S	GS	50	4	34	82	12	500	2.8	0.2	78	8
S		51	3	30	66	14	660	2.7	0.2	92	8
S		52	3	14	46	10	480	1.8	1.2	64	8
S		53	4	30	68	16	630	3.0	0.2	92	8
<b>~</b>		54	3	30	96	28	930	3.6	0.4	170	10
J		55	4	20	74	10	320	2.8	0.4	62	8
S		56	4	30	94	16	690	3.1	0.2	96	8
S		57	3	50	382	3.4	790	5.0	1.6	102	8
S		58	3	28	148	16	480	3.4	0.2	78	- 6
<u>s</u>		 59	3	46	210	30	880	4.3	0.6	96	8
S	GS	-50	3	<u>-</u>	78	14	390	3.1	0.2	<u>-</u>	8
S		61	4	44	<b>7</b> 8	18	600	3.5	0.2	104	8
S		62	4	26	62		270	2.3	0.2	54	10
ទ		63	12	38	 98	18	750	3.9	0.4	108	8
S		64		40	84	16	560	3.5	0.2	102	8
S .		- <u>2</u>	19	46	74	<u>2</u> ŏ-	<u>999</u> 560	<u>3</u> .8	0.2	±≚=- 106	10
S		66	5	66	126	26	990	3.8	0.2	122	10
S		67	4	42	92	18	850	3.4	0.2	110	8
S		68	4	58	104	18	600	3.5	0.6	106	8
S	(L38 12+50S)	69	4	56	102	20	640	3.6	0.4	118	8
- <u>=</u>	(L38 13+00S)		4	<u>==</u>	<u></u> 74	<del></del>	<u>8</u> 30	<u></u>	<u>-</u>		8
S		70	4	36	70	16	910	3.0	0.2	96	8
S		71	4	44	98	14	460	3.6	0.2	102	8
S		72	4	48	116	20	640	3.7	0.2	86	6
S		/2 _73	3	44	170	24	860	3.9	0.2	96	8
- <u></u>	etir saan ereb wee seine anne anne east anne anne anne anne anne anne	- <u>/</u> 3 74	<u></u>	64	212	<u>-</u> ≜4- 28	770	<u></u>	0.6	<u>7</u>	<u></u> 20
S	65	7 <del>4</del> 75	2	22	410	46	1040	3.2	0.2	92	20 8
S	TS.	/J 1	9		250	46 28	900	4.7	0.2	72 150	보고 나에 상하나도 생활한 경기를 보는다.
S				40	一起的 化二氢甲醇二二二三氢甲醇二二二氢		Tarrier 20 and discussion (11, 4 to 11)				8
5		2	4	74	300	16	510	2.9	1.4	142	8

CERTIFIED BY :

Ansbach

#### CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD.
214-850 W.HASTINGS STREET
VANCOUVER, B.C.
PROJECT No.: 248

CERTIFICATE No.: 84479.A - INVOICE No.: 5059

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479.A

PRE			PPB	FFM	용하다 그렇다 내용 내일이다고 하고객들의 밤바다 하다네네요.
=IX	SAMPLE	NAME	Au	As	
			4.0	 30	
	GS	40	10		꽃깔맞이는 왕이다. 그리, 네이트 (레이트), 그리고 하다.
		41	10	32	경화되었다. 2012년 - 1일 - 1일
		42	10	30	불병하였다 하시는 사람들이 모든 이번 그렇게 하셨다. 이 나라이다
		43	10	22	경찰에게 교통하는 등록 경찰을 만만하게 살아지고 하고 있다.
		44	10_	2 <u>6</u>	
		45	10	30	: [18] - 11 - 12 - 12 - 13 - 13 - 13 - 13 - 13
		46	10	18	, 1985년 1980년 1일 - 1일
		47	10	54	경기 가입니다 그 이 이 아이는 아이를 가장 사람들이 되어 가겠다는데
		48	10	66	즐러움 맞는 사람이 되었다. 그렇게 된 사람들은 하이 그리고 없는 것이다.
		49	10_	44	
	GS	50	10	48	- 이 경영 등 경우 등 보고 있다. 그는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 
		51	10	16	다리 경영하다다고 하시는 얼마나 이번 활하는 지속에는 처음하다
		52	10	6	불리적 소개를 다려왔다. 이번 시간이 나는 '바쁜 분이를 보기를 보니다다.
		53	10	64	나는 사람이 가장 아이들은 얼마를 하는 것이 나를 가장하는 것이 없다.
<b>}</b>	المناصفين وبالم وبينا وبيان منواه المواد والمار والمارة الم	54	10_	200	
		55	10	88	강생이 사일하다 지하는데 그리고 그렇게 되고 생활하는데 하고 있다.
		56	10	124	[1] 문문화 환경 등 시간 시간 중 등 사람들 중 하는 사람들이 되었다.
		57	10	800	
		58	10	180	보호 그는 사람들은 사이지 사람들이 가는 사람들이 나고 가지가 먹었다.
inst inst	, — a see reg and ten and ten and ten and	59	<u>10</u>	490	100 Mark 200
	GS	60	10	100	이 있었다. 나는 어린 내가 이 가족 선생님이 아무지 않아 보다 하는데 있다.
		61	10	50	물병하게 되었다고 있다고 있다. 그 사람들은 사람들은 사람들이 되었다.
		62	10	20	[14일 시간 전 ] 이 시간에 이 모델을 하고 말했다면서 하는 것이 되었다.
		63	10	56	(1) : [1] : [1] : [1] : [1] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2] : [2
		64	10	94	
		65	10	240	됐는데, 이 사람들이 아들아를 가게 되는 것들은 이 들어 먹는데 되었다.
		66	10	24	선생님이 아이가 되면 가장 하는데 하는데 하는데 되었다.
		67	10	28	종류에 그 전화물환여한 현급하는 소교환하는 그로 어디어다.
L	38 12+005	68	10	32	함께는 그리고 화학생은 그렇지 한 어떻죠요? 보다 돼지는데
( <u>L</u>	38 12+50S	) 68b	10	36	
<del>(t</del>	<del>30 13+005</del>	) 69	10	16	보다 하는 중요한 이렇게 하는 것은 말이 모습하다면서 모이를 모습니다.
		70	10	16	원 보통화를 받으면 그렇는 중요한 이번에 보다 보다 되었다.
		71	10	26	<u> </u>
		72	10	210	: :::::::::::::::::::::::::::::::::::
		73	40_	316	
		74	10	4160	
	GS	75	10	260	
	TS	1	10	124	
		2	10	42	프로그램 (2011년 17일 : 스스트를 다르게 되는 그리고 있다. 글로리의 프로프로그램 (2011년 2012년 )

CERTIFIED BY :

A. Horsback

#### LABORATORY

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD. 214-850 W. HASTINGS STREET

INVOICE No.: 5058

CERTIFICATE No.: 84479 -

VANCOUVER, B.C. PROJECT No.: 248

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479

 -RE			PPM	PPM	PPM	PPM	PPM	7.	PPM	PPM	PPM
- I X	SAMPLE	NAME	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb
S	TS	3		14	<b>5</b> 2	6	230	1.1	1.4	62	10
S	김 왕이 아이는 네	4	6	50	244	16	420	3.4	0.4	270	16
S		5	7	32	78	8	350	3.4	0.2	114	1.0
S		6	9	26	90	12	390	3.4	0.2	114	8
S		7	23	48	272	20	540	4.8	0.2	178	8
S		8	9	22	36	6	240	2.5	0.2	90	10
S		9	24	170	122	26	370	4.8	0.2	320	10
S		10	22	54	66	12	310	3.2	0.2	162	12
S		11	25	88	112	24	590	4.6	0.4	224	10
S		12	20	38	76_	16	720	2.9	0.2	128	8
S	TS	13	26	- 80	102	20	770	3.7	0.4	172	12
S		14	11	38	46	6	310	2.3	0.2	74	12
S		15	11	76	148	14	590	3.6	0.2	112	8
S		16	5	38	120	16	520	3.3	0.2	<b>9</b> 8	10
V		17	3	48	126	14	490	4.1	0.2	112	16
\$		18	2	40	114	18	620	3.5	0.2	106	1.4
S		19	3	36	118	22	700	3.7	0.2	106	14
S		20	2	38	92	20	520	3.8	0.2	124	12
S		21	4	32	172	28	1040	3.7	0.2	106	8
L	TL	22	2	26	154	22	600	3.2	0.2	86	8
S	TS	23	3	12	42	10	350	3.7	0.4		5
S		24	5	34	102	16	370	4.3	0.2	114	8
S		25	3	18	44	8	410	4.0	0.2	72	10
S		26A	2	14	14	6	300	2.6	0.2	50	8
<u>s</u>		26B	2	8	10	4	140	1.8	0.2	34	8
S		27	2	20	18	8	280	2.7	0.2	60	8
S		28	2	14	16	8	250	3.5	0.2	48	8
5		29	2	34	52	10	380	3.8	0.2	84	8
S		30	2	42	38	12	380	3.6	0.2	82	6
<u> </u>		31	3	30	20	12	800	3.1	0.2	82	8
S	TS	32	2	34	16	- 6	210	1.8	0.2	44	6
S		33	3	12	14	4	180	2.1	0.2	40	8
S		34	2	36	36	10	350	3.0	0.2	56	8
S		35	1	20	18	6	300	3.0	0.2	52	8
S		36	2	26	22	8	430	3.1	0.2	72	8
S		37	1	18	40		290	3.1	0.2	72	8
S	1 : 15 이 기업을 하지 않는다. 기업은 일본 경기 등 등 기업	38	1	18	20	6	180	2.8	0.2	42	8
S		39	3	24	64	14	780	3.3	0.2	94	8
s		40	3	34	70	10	420	3.0	0.2	86	10

CERTIFIED BY :

Hombord

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD.

214-850 W.HASTINGS STREET

VANCOUVER, B.C.

PROJECT No.: 248

CERTIFICATE No.: 84479.A - 3
INVOICE No.: 5059
DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479.A

PRE			PPB	PFM	시 사람들에 가고 돌아가면 가게 되는 것 같아 되었다면 가는 그렇게 하다고 있다.
FIX	SAMPLE	NAME	Au	As	김사님이 그렇게 되었다고 하는데 있다. 그 만든 모양을 들어 되었다.
	TS	3	10	8	
		4	10	26	일하겠지 않는 사람 전환 전환 그 그 가장 하나 하셨다면 없는 이 모든데
		5	10	16	:
		6	10	12	##2회사·물업기업대회 기업대회 :
		7	10	38	하는 이 없는 이 강선이 있는 사람들이 되었다. 그는 사람들은 사람들이 보고 있다.
		8	10	22	
		9	20	110	그리는 물로 살았다. 나는 가는 하는 사람들은 사람들이 되었다.
		10	10	62	나는 반으로 가는 그는 사람이 되는 것이 없는 그 없는 것이 없는 것이 없었다.
		11	10	94	용하고 하를 맞았다면 하고 하지만 그렇게 바쁜 사람이 되었다.
		12	10	40	
	TS	13	10	66	
		14	10	28	
		15	10	12	있는 경기 회사 회사 전 사람들은 시간 사람이 되고 그 그릇 사람들은 그는 사람들이 되었다.
		16	10	12	보다 하고 하다는 아무리는 회에 가장 하는 이 경찰을 하다면 그 생각을 가지 않았다.
$\sim$		17	10	20	불가지 그리는 사이트로 가장하는 그 불가 있는 그 나가 그 말았다.
O		18	10	18	
		19	10	14	[프랑크리트] : : [항: 12] 12 : [ - 12] 2 : [ - 12] 2 : [ - 12] 2 : [ - 12] 2 : [ - 12] 2 : [ - 12] 2 : [ - 12] 2 : [
		20	10	16	
		21	10	240	하는 사람들은 사용 바로 살아가는 사람들이 가는 사람들이 되었다.
	TL	22	10	160	현대, 그리아 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들
	TS	23	10	28	
		24	10	122	
		25	10	28	
		26A	10	14	#####################################
		_26B	10	8	<i>폭발하다 사람들 목표를</i> 하고 있다. 그 보이 때 생생님의 아이라고 모르네는
		27	10	22	Total days were then first with sign plan and spirit also down the first that you plan and spirit a
		28	10	4	물을 가는 이 사용을 가게 되었다. 그는 것이 되었다. 그는 그는 그는 그는 그를 보고 있다. 1995년 1일 - 1985년 1일
		29	10	6	홍선과
		30	10	14	[발발하다] [발발하고 말하다는 다양하다]] (1922년 1일 발발하고 말하고 있다. 1922년 1일
		31	10	10	
	TS	32	10	6	
		33	10	4	양왕이 이 나는 이 비리가 할 때 보는데 그 그리고 함께 말했다면서 나를 하나 하나 다.
		34	10	14	불빛이 나는 하는데 이번에는 아이들이 살아보고 있는데 하를 모르고 있다.
		35	10	6	경기 외에 보는 중요는 그 그리는 동안이라고 못하지 않았다. 말리아 하였다
****		36	10	10	젊었다. 등 사고리 마루스 이용 등 보고 하는 사고 중요를 가고 있다. 아름 하다
		37	10	26	
		38	10	10	
		39	10	10 62	
		40	10	66	

CERTIFIED BY

Morsbach

#### CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET VANCOUVER, B. C.

PROJECT No.: 248

CERTIFICATE No.: 84479 - 4

INVOICE No.: 5058

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479

PRE			P:F:M	PPM	FFM	PPM	PPM	7.	PPM	PPM	PPM
FIX	SAMPLE	NAME	Mo	Си	Ni	Co	Mn	Fe	Ag	Zn	Pb
S	78	41	4	28	122	24	910	3.5	0.2	106	රු
S		42	3	52	206	22	560	4.8	0.4	84	4
S		43	4	44	176	26	570	3.5	0.6	78	6
S		44	6	56	710	88	1360	6.3	0.8	78	8
_S		45	1	52_	860	74	920	4.7	0.4	_72	4
S		46	18	32	74	20	560	3.4	0.6	100	- 6
S		47	48	16	200	6	130	0.4	0.2	32	4
S		48	11	34	64	12	600	3.2	0.2	100	6
S		49	7	42	68	12	400	3.1	0.2	112	8
_S		50	7	56	134	24	670	3.6	0.2	136	6
-S	TS	51	5	36	98	18	720	2.9	0.2	108	8
S		52	4	28	56	16	860	2.6	0.2	96	8
S		53	4	38	84	12	500	3.2	0.2	102	8
S		54	4	50	60	10	350	3.2	0.2	80	8
7.7		55	4	28	68	10	340	2.9	0.4	82	8
<i>J</i> ;		56	- 6	26	62	10	340	2.8	0.4	88	8
S		57	9	24	54	8	590	2.6	0.4	76	10
S		58	25	46	8	16	690	3.2	0.4	128	10
S		59	23	38	70	16	680	2.7	0.4	86	8
<u>s</u>		60	14	54	180	42	920	3.5	0.2	166	8
Ŝ	TS	<u> </u>	16	48	128	<u>2</u>	590	3.1	0.6	112	10
Ĺ	τŪ	62	19	104	270	42	730	3.6	0.6	182	10
S	TS	 63	14	42	118	12	390	2.6	0.4	94	10
S		64	14	48	120	$\overline{22}$	710	3.0	0.2	176	8
<u> </u>		65	20	138	148	24	800	5.1	0.4	326	6
Š		<u>-</u> 66	<u>2</u> 0	 78	94	<u>2</u> 4	930	3.4	0.2	206	8
Š		67	16	64	104	22	700	3.4	0.2	166	8
s		68	35	92	162	20	540	4.4	0.6	206	8
S		69	18	62	130	$\tilde{2}\tilde{2}$	460	3.7	0.4	184	8
s S	. 즐게 됐하다	70	8	42_	72	12	350	2.8	0.4	116	8
s	TS	<u></u>	12	<u></u> 50	144	<del>1</del> =-	410	3.5	0.4	168	<u>-</u>
S		72	13	36	70	10	300	3.1	0.4	118	10
S		$7\overline{3}$	12	36	96	12	340	3.1	0.4	130	8
S		74	7	14	56	4	260	0.4	0.4	48	4
Š		7 <b>5</b>	6	18	52	6_	270	2.0	0.2	74	8
<u>s</u> s	TS	<u>7</u> 2	33	128	1600	32	<u>-</u>	<u>ē.</u> ¥-	1.0	<u>ś</u> ź-	
S	248 A		13	68	224	20	580	3.0	0.4	268	<u>.</u>
Ĭ		L 212	24	76	226	22	590	3.0	0.6	260	8
Ĺ		L 214	19	66	220	26	890	3.8	0.4	192	ě

CERTIFIED BY :

J. Apploade

## ROSSBACHER LABORATORY

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD. 214-850 W. HASTINGS STREET VANCOUVER, B.C.

CERTIFICATE No.: 84479.A -INVOICE No.: 5059

PROJECT No.: 248

DATE ANALYSED: NOV.5,1984 FILE NAME: A&M479.A

'RE			PPB	PPM		나 아이에는 이 선택을 하다고 있다.	
IX	SAMPLE	NAME	Au	As			
	TS	41	10	92			
		42	10	344			
		43	10	160			
		44	30	3470			
		45	10	524			
		46	10	56			
		47	NSS	18			
		48	10	26			
		49	10	32			
		50	10	30			
	TS	512	10	22			
		52	10	14			
		53	10	36			
		54	10	20			
		55	10	40			
		56	10	24			
		57	10	20			
		58	10	22			
		59	10	10			
		60	10	16	<u>. 1921. De de</u>		
	TS	61	10	44			
	TL	62 –	10	40			
	TS.	63	10	30			
		64	10	48			
		65	10	86			
		66	10	42			
		67	10	34			
		- 68	10	52			
		69	10	44			
			10	22			
	TS	71	10	24			
		72	10	28			
	네 공기를 하고	73	10	34			
		74	10	2			
. نشریدانید پ		Z5	10	12			
	TS	76	10	10			
	248 A <b>£</b>		10	40			
	AL	212	10	54 ″			
등로 내가다.	Αl	214	10	40 :			

CERTIFIED BY

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

PPM

TO : A&M EXPLORATION LTD. 214-850 W. HASTINGS STREET

INVOICE No.: 5058

DATE ANALYSED: NOV.5,1984

CERTIFICATE No.: 84479 - 5

FILE NAME: A&M479

PPM PPM % PPM PPM

		VANCO	JVER,	B.C.		
PROJ	JECT	No.:	248			
PRE					PPM	PPM
						FFI
FIX		SAM	PIFN	AME	Mo	Cu

1 1 \ L	이 이 전 사람들은 동생들이 되었다면 하는 하는 것이다.	F F 11	T T T I	FFH	in the second second	L. L. 1.1	/*	T T T T	r r 1'1	F" F" [*]
FIX	SAMPLE NAME	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb
	248 AL 216	23	94	216	 28	750	4.4	0.4	228	8
L	219	2	30	348	44	680	3.7	0.2	88	4
	224	6	66	186	32	680	4.2	0.2	110	6
L	225	11	30	90	16	630	3.3	0.2	104	6
	224	21	56	118	22	850	3.8	0.2	106	6
L C	227	43	58	230	26	3160	5.6	0.2	178	4
L	248 AL 228	46	90	452	30	2770	5.8	0.2	352	6
S	L18E 5+00S	4	34	86	14	470	3.4	0.4	100	10
S	5+505	4	42	88	22	850	3.3	0.2	112	12
_S	6+005	8	62	114	26_	860	4.2	0.2	172	16
S	7+159	8	110	328	44	1020	5.9	0.4	258	20
S	7+508	9	92	202	32	850	5.6	0.2	324	12
S	8+008	8	48	116	24	840	3.4	0.2	154	8
S	8+505	1	64	700	50	800	4.3	0.2	100	4
	9+005	13_	- 60	160	16	440	3.5	0.4	110	6
Us	9+505	10	38	122	14	400	3.6	0.4	102	8
S	10+005	21	74	222	24	500	5.2	0.4	152	6
S	10+505	11	72	240	36	720	4.6	0.4	196	4
S	11+005	9	76	310	46	890	5.2	0.4	194	6
_S	11+505	8	46	148	28_	610	3.8	0.2	148	66
S	L18E 12+00S	7	42	86	18	430	3.5	0.4	144	8
S	12+505	6	34	94	14	360	3.5	0.4	138	6
S	13+005	8	38	96	16	410	4.0	0.4	172	6
S	13+50S	11	98	660	60	820	5.2	1.2	136	10
_S	14+005	13	74	770_	56_	830	5.3	1.2	134	8
S	L18E 14+505	9	- 68	386	34	650	4.3	0.2	136	6
S	L20E 5+00S	5	50	98	14	380	3.6	0.4	116	18
S	5+505	4	30	50	8	460	2.9	0.4	90	10
S	6+00S	4	44	100	20	700	3.8	0.4	146	12
	6+50S		32	84	18	600	3.0	0.2	92	10
S	7+005	5	40	116	26	910	4.1	0.2	146	8
S	7+50S	9	68	172	38	960	4.3	0.2	244	10
S	8+008	8	64	178	34	860	4.3	0.2	200	12
S	8+258	9	76	154	20	570	4.5	0.4	180	12
S S	9+508	8	58	106	22_	830	4.2	0.4	182	8
S	10+005	21	102	224	36	820	4.6	0.6	236	8
S	10+505	9	78	158	30	730	4.1	0.6	190	12
S	11+008	9	50	202	30	670	4.7	0.2	138	6
S	11+505	10	64	204	30	580	5.3	0.6	148	6

CERTIFIED BY :

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET VANCOUVER, B.C.

CERTIFICATE No.: 84479.A - 5

INVOICE No.: 5059 DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479.A

					7 :		
FROJ	pres pres 1190				-1.		
for for 1 1 1	J 1	No		770			
3 3 3 4 4 4 4 4	L., C	140		. <del></del>			
						1 4	
		market and the second	医乳糖 美工工厂				

FIX	244 14 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FPB	PPM	
	SAMPLE NAME	Au	As	이번에 대답한 경험 이번에 되고 바쁜걸리는 이번에 가는 없었다.
				를 보지 않는 경우 전에 되었다. 그는 그 그 전에 그를 보고 있었다. 그런 그는 그는 그는 그 전에 되었다. 그런 그를 보고 있다. 
	248 AL 216	10	36	일을 보았다는 하는 전 보다 전환 경험은 "'정보라 '를 보고 보고 다른다는 중심장
	219	10	366	불류 화장의 교회가 하는 생각 때문에 가셨다는 그리고 있는데 나와 하다.
	224	10	76	#####################################
	225	10	40	발표 경험 경험 경험 보이 되면 되었다. 이 발표를 받아 되고 보다는 사람이다.
	226	10	<u>48</u>	
	227	10	50	요즘 환경하다 하는 것이 하는데 이번 중요요. 휴가 하다 그렇게 하는데 하다
	248 AL 228	10	82	물질 가입니다 하다 하는 이 나를 가게 하는 것이 없는 것이 없는데 하는데 다른데
	L18E 5+00S	10	20	그리아를 잃었다. 그는 하고 이 이번 일반을 쫓았다. 이 그리는 바로 하고 있다.
	5+505	10	24	보다 하를 보다 맛이 되는 사람들이 되었다. 이 경우를 하는 것이다.
	6+00S	10_	18	
	7+158	10	16	이번 살이 병원 이번 살아 있다면 하는 사람들은 사람들은 사람들이 되었다면 살아갔다.
	7+50S	10	20	(1984년 1일
	8+005	10	14	실기 보는 프로그램 프로그램 그리고 그는 그 그래요 그는 그래를 하고 하셨다.
	8+505	10	40	공연 등 경기가 환경하는 바이 하는 일을 내려 하는 것이 되었다. 이 그렇게 하는 것은 하는
<b>}</b>	9+00S	10_	20	그들은 얼굴하다 하셨다. 그런 바로이 보이 되는 사람이 되었다. 이 생각이다는 말을 살았다.
<b>.</b>	9+50S	10	20	
	10+005	10	88	경기 시간 이 경영에 살이면 무섭지 하시면 선생님이 모든 생각이 하셨다.
	10+505	10	80	[마양 1] : [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
	11+005	10	52	마이크 하는 이 경우를 하는 그리고 됐습니다. 그리고 있는 것이 되는 것이 없는데 되는 것이다.
	11+508	10	42_	[발문문문] 그렇게 하고 하는 하는 학생과 내용 시간 그는 그리고 있는 나를 하는
	L18E 12+00S	10	100	
	12+508	10	40	. 공통으면 이 얼룩되고 아들 동됐다면서는 그렇게 얼마나 하다는 이미를 먹
	13+00S	10	40	그렇게 되는 사람들은 이 아이를 무슨 것을 하는 것은 사람들이 살아 있다.
	13+505	10	86	민준이다 이 본래에는 그 작용했다고 하지 않는데 이 나는 사람이 되는데 되었다.
	14+005	10	100	공항 가는 사람들이 모양하는 사람들이 되었다.
	L18E 14+505	10	48	
	L20E 5+00S	10	36	[붉지]하다 하는 회문이 불어가 되었습니다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
	5+5os	10	16	가족하다는 이번에 가다가 가고 있어? 가용하는 그들이 하는 사람들이 하는데 되었다.
	6+005	10	20	화장하다 마니다이다. 하는 지정하는 경에 가장하는 사람이 나는 도마다 있다. 사람이는
	<u>6+50</u> s	10	20	좋겠다. 그 이번 12 보고 있다고 말했다. 그리고 하는 그는 그리고 있다. 그리고 있다.
	7+00S	10	20	t with green from many control of the green and their think they wise that your control only the control ones and they have been some ones and the control o
	7+50S	10	18	결상용하다 교육 경상을 보면한 대학자에 보다면 그 말이다고 하는데 이 경찰 때문
	8+008	10	16	[생물] 이 마음(111) 등을 가지는 모르는 보는 것이 되어 되는 것이다.
	8+255	10	30	는 경험 클럽 이 보고 있다는 것이 되었다. 그는 그는 사람들이 가지 않는 것이 되었다. 대한경화 클럽 이 보고 있는 것이 되었다.
	9+508	10	12	발표하다는 사료회에 취하는 사는 이렇지만 그리는 제작으로 살아보다.
***************************************	10+005	10	16	
	10+505	10	22	
	11+005	io	62	
	11+50S	10	32	
			್ತು	

CERTIFIED BY :

J. Marshad

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD.
214-850 W.HASTINGS STREET
VANCOUVER, B.C.
PROJECT No.: 248

CERTIFICATE No.: 84479 - 6
INVOICE No.: 5058
DATE ANALYSED: NOV.5,1984
FILE NAME: A&M479

PRE FIX	SAMP	LE NAME	PPM Mo	PPM Cu	PPM Ni	FPM Co	PPM Mn	 % Fe	PPM Ag	PPM Zn	PPM Pb
	L20E	12+508	8								
S		13+005		94	378	48	760	5.4	0.2	294	12
S			10	96	306	52	890	5.5	0.4	282	8
		13+508	9	114	474	48	780	5.3	0.4	278	8
S _S		14+50S	10	80	356	42	710	5.0	0.2	260	10
_=		_15±00S_	12_	88_	390	50	810	5.3	0.6	236	8
S		15+50S	8	68	330	58	890	4.7	0.4	226	10
T	L18E	6+50S	11	44	14	2	70	1.0	0.2	 36	12
T	L20E	8+605	1	82	32	22	270	1.4	0.2	38	4
T	L20E	12+105	1	176	174	46	520	3.3	0.2	70	맞은 하는 사람들이 하는 것이다.
_T	L37-39E	21+008	1	10	32	20	710	3.5			4
T	248	AT 211		36	<u>-</u>	18	<u>/ 1 )</u> 730		<u>0.2</u> _	<u>60</u>	
T		213		50	12	12		2.8	0.2	44	2
T		215					530	3.5	0.2	48	2
Т		217		10	50	22	480	3.2	0.2	26	2
<u> </u>	248	Add for a manager and form the	13	68	66	20	460	2.8	0.2	96	4
<b>)</b>			4	24_	6	2	90	<u>0.9</u>	2.2	18	20
T 7	248	HS		118	42	- 30	240	1.7	0.4	46	4
		OF LCP		40	90	30	440	2.0	0.2	72	2
Α	248	AT 220	1	56	52	18	710	3.4	1.0	112	24
Α		221	1	12	1030	68	570	3.3	0.2	40	4
<u> </u>		222	2	62	32	18	610	2.7	1.0	62	
Α	248	AT 223	1	14	1120	72	640	<del></del>	- <u>-</u> 1.2	<u>9</u> 2 42	<u>6</u>

CERTIFIED BY :

J. Mosbook

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

CERTIFICATE OF ANALYSIS

ret : (604) 299 -

TO: A&M EXPLORATION LTD. 214-850 W.HASTINGS STREET VANCOUVER, B.C.

CERTIFICATE No.: 84479.A -INVOICE No.: \$5059

PROJECT No.: 248

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479.A

RE IX	SAMPLE NAME	PPB Au	PPM As	
	L20E 12+50S	10	30	
	13+00s	10	20	도망에 가장하는 시작으로 그렇게 이 바라가 되었다.
	13+50\$	10	40	등상하는 항상 등이 그리고 있을까? 그리고 했다면 차를 모르고 한다. 생각
	14+505	10	30	보이 되면 되었다. 그리고 있는데 이 그를 잃었다. 이 글로 갔다.
	<u>15+008</u>	10	40	:
	15+50S	10	30	To the same and th
	L18E 6+505	10	6	
	L20E 8+40S	10	2	일 등이 사용되는 경험을 보고 있습니다. 나는 사람들은 사람들이 되었다.
2061	L20E 12+10S	1.0	4	: [1] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
201_L	.37-39 <u>E_21+00</u> S	10_		하다는 사람들이 되었습니다. 이 경험에 가장 보는 것이 되었습니다. 그는 것이 되었습니다. 
	248 AT 211	10	4	
	213	10	4	
	215	10	4	[1] 경우 사람들은 마음이 발표되었다. 12 전 12
	217	10	12	
<b>)</b>	<u>248 AT 218</u> 248 HS	10_	32	
249⊩	게 그리고 하는 것이 하는 것이 되는 것이 되었다.	10	67 (	
-,-		10	_10) ′	: : : : : : : : : : : : : : : : : : :
	248 AT 220	10	516	
	221	40	154	
·	<u>-222</u>	10	<u> 1310                                   </u>	<u> - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1</u>
	248 AT 223	10	344	

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Monsbord

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD.
214-850 W.HASTINGS STREET
VANCOUVER.B.C.
PROJECT No.: 248

CERTIFICATE No.: 84479.A - 4
INVOICE No.: 5059
DATE ANALYSED: NOV.5.1984
FILE NAME: A&M479.A

PRE FIX	SAMPLE NAME	PPB PPM Au As	
	AT 211		
0			
		사람들은 사람들이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
			71 1011 1514 form many talli sang
		마다 시간 한 경험에 환경을 가는 것을 받았다. 그는 사람들이 살려가 하는 것이 되었다. 그 사람들이 되었다. 그 그는 사람들이 살려는 것이 말라면 하는 것을 하는 것을 하는 것을 하는 것이 되었다. 그것은 것을 하는 것이 되었다.	
72.0491   12.1 12.0491   12.1 20.411   13.14			

CERTIFIED BY

J. Hossbach

#### CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO : A&M EXPLORATION LTD.

214-850 W. HASTINGS STREET

VANCOUVER.B.C.

PROJECT No.: 248

PPE

CERTIFICATE No.: 84479 - 4

INVOICE No.: 5058

DATE ANALYSED: NOV.5,1984

FILE NAME: A&M479

FRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ni	PPM Co	PPM Mn	% Fe	FFM Ag	PPM Zn	PPM Pb
	AT 211	4	62	24	14	660	2.5	0.2	150	
<del></del>										
)										
<del></del>										

CERTIFIED BY :

J. Hossbach

# OSSBACHER LABORATORY

CERTIFICATE OF ANALYSIS

2225 S. SPRINGER AVENUE BURNABY, B.C. V5B 3N1 TEL: (604) 299 - 6910

TO: A&M EXPLORATION LTD. 214-850 W. HASTINGS ST. VANCOUVER, B.C.

PROJECT No.:

CERTIFICATE No.: 84497.X -INVOICE No.: 5075 DATE ANALYSED: NOV.7,1984

PRUJEC	l No.:		FII	E NAME: A&M497	<b>'. X</b>
PRE FIX	SAMPLE NAME	oz/t Au	am MT.	mg Au	
	220 221 222 223	0.001 0.006 0.008 0.001	88.73 77.59 73.08 42.59	NIL 0.016 0.020 NIL	
Cus	W + Paind els	sup malui	I fum 8	ment	
<u>)</u>					

CERTIFIED BY

APPENDIX II
AFFIDAVIT OF EXPENSES

#### AFFIDAVIT OF EXPENSES

This will certify that geophysical and geochemical surveys were carried out on the Royal Group of claims Standard Creek area, Lillooet Mining Division, British Columbia, during the period October 3 to 25, 1984, to the value of the following.

#### Mobilization and Fieldwork

Salaries	
S. Travis L. Riteman D. Greenman R. Vinnie D. MacQuarrie D. Allen G. Allen	\$ 1,105.00 750.00 1,040.00 1,040.00 1,500.00 2,400.00 875.00
Field supplies	525.45
Room and board	1,062.95
Vehicle rental, transportation, gas	1,143.68
Geochemical analysis	3,879.40
Topographic base (Triathlon Surveys)	1,128.82
Helicopter support	4,062.21
VLF-EM and magnetometer rental	400.00
Report Preparation and Draughting	
Engineering fees	
D.G. Allen, D. MacQuarrie	3,000.00
Typing, draughting, compilation	1,920.00
Maps, photocopying	472.44
	\$26,379.17

<sup>\*</sup>Assuming that work represented by this report is accepted.

Donald G. Allen, P. Eng. (B. C.)

