

ABERFORD RESOURCES LTD.

RECONNAISSANCE GEOLOGY AND ROCK GEOCHEMISTRY

GALAXY PROPERTY

ROCKET 4-16 MINERAL CLAIMS

KAMLOOPS, MINING DIVISION

SOUTHCENTRAL, BRITISH COLUMBIA

NTS 92I/9W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,690

G. F. McArthur
Report No. 13-83

ABERFORD RESOURCES LTD.

RECONNAISSANCE GEOLOGY AND ROCK GEOCHEMISTRY

ON THE GALAXY PROPERTY

ROCKET 4-16 MINERAL CLAIMS

KAMLOOPS, MINING DIVISION

SOUTHCENTRAL, BRITISH COLUMBIA

NTS 92I/9W

Location: Latitude 50° 37' N
Longitude 120° 25' W

Work Period: August 1 to 29, 1983

G. F. McArthur, P. Geol.

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SUMMARY

The Galaxy Property comprises forty-six located mineral claims and six Crown Grants. This contiguous claim group is situated eight kilometres southwest of the centre of the City of Kamloops in south-central British Columbia. Aberford Resources conducted an exploration program on the southerly Rocket 4-16 claims located at Jacko Lake in August, 1983.

The 1983 exploration program included geological mapping and rock geochemistry on the Rocket 4-16 mineral claims. One hundred and nine rock samples were collected and analysed for gold, silver and copper.

INTRODUCTION

During August, 1983, Aberford Resources Ltd. conducted geological mapping and rock geochemistry on the Rocket 4-16 mineral claims to evaluate the precious metal potential of these claims.

This report is submitted for assessment purposes as a summary of data collected during the 1983 exploration program.

LOCATION AND ACCESS

The Galaxy property is located mainly within the boundary of the City of Kamloops, B.C., approximately eight kilometres southwest of the city centre. The Rocket 4-16 mineral claims comprise the southerly portion of this property and are located near Jacko Lake. The geographical coordinates of the Rocket 4-16 mineral claims are $50^{\circ} 37'N$ latitude and $120^{\circ} 25'W$ longitude (Figure 1 & 2).

Access to the Rocket 4-16 mineral claims from Kamloops is possible via the Trans Canada Highway eight kilometres west of Kamloops to the Lac

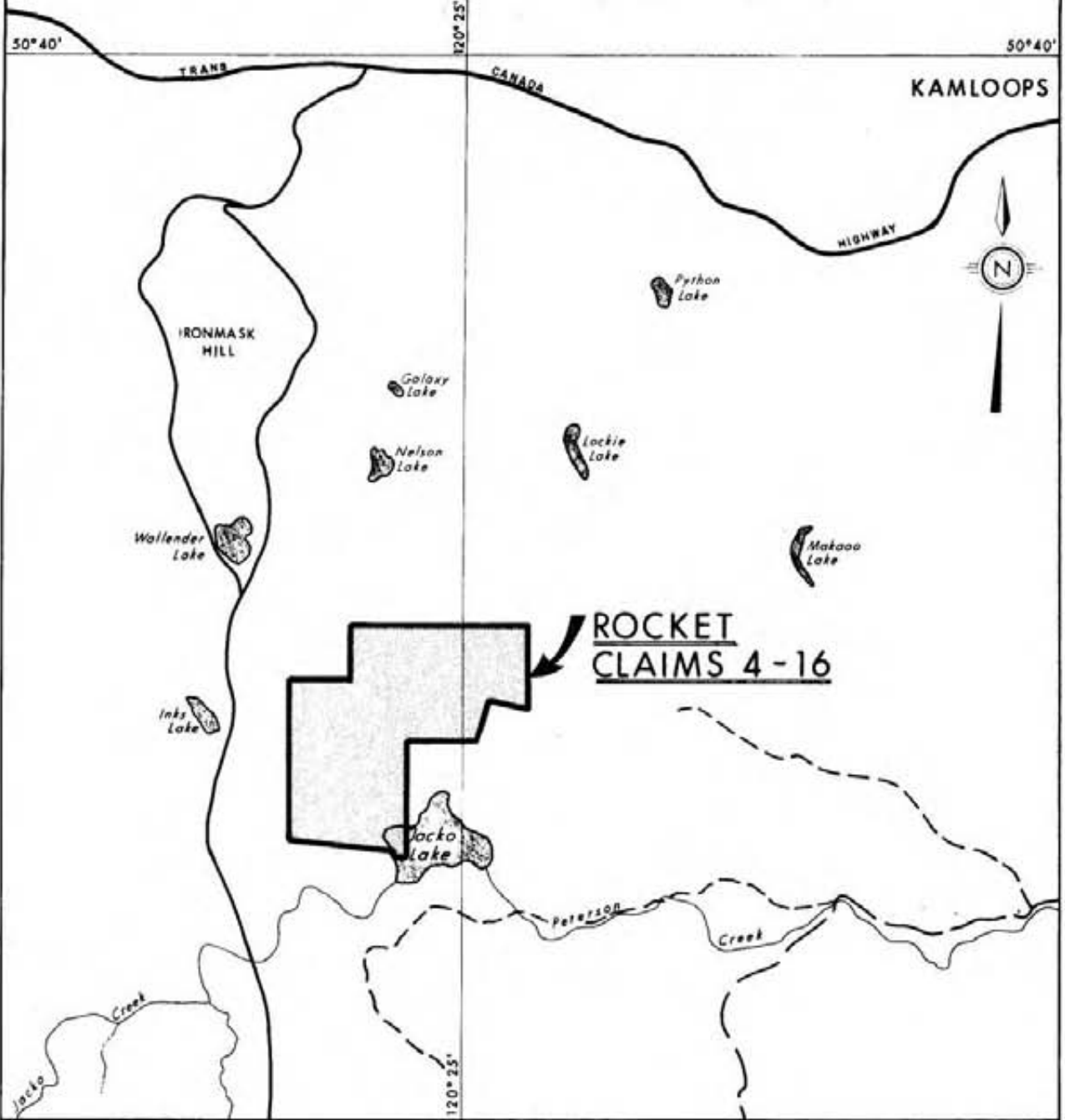


FIGURE 1



TO ACCOMPANY REPORT NO. 13-83 BY G.F.M.

ABERFORD RESOURCES LTD.

PROPERTY LOCATION

GALAXY PROJECT

DATE	SCALE	NPS	DRAWING NO.
AUG., 1983	1: 50 000	92 I / 9	A- 1991

Le Jeune Highway, and then eight kilometres south past Wallender Lake to the Jacko Lake turn-off, then two kilometres east to Jacko Lake. Several ranch roads provide access to the claims from Jacko Lake.

CLAIMS

The Galaxy Property consists of forty-six mineral claims and six Crown Grants which are owned by Aberford Resources Ltd. of Calgary.

Exploration work was only conducted on the southern Rocket 4-16 mineral claims (Figure 2).

<u>Claim No.</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Due Date</u>
Rocket 4	34188	August 30, 1960	August 30, 1983
5 Fr.	34189	"	"
6	34190	"	"
7	34191	"	"
8	34192	"	"
9	34193	"	"
10	34194	"	"
11	34195	"	"
12	34196	"	"
13	34197	"	"
14	34198	"	"
15 Fr.	34199	"	"
16 Fr.	34200	"	"

Assessment is applied to the Rocket 4-16 mineral claims, 13 claims @ \$200/year for a period of two years totalling \$5,200.00.

TOPOGRAPHY AND VEGETATION

The claims are located at an elevation of approximately 914 metres (A.M.S.L.) and local relief is in the order of 150 metres. The property is typical of the semi-arid Kamloops area, mainly open grass and sagebrush covered hills with local stands of pine, spruce and balsam.

Rock outcrop is in the order of 1 to 5% of the total area. Near Jacko Lake outcrop is 5 to 10%.

HISTORY AND PREVIOUS WORK

Exploration activity in the Iron Mask batholith has been generally high since the late 1800's with the resulting discovery of a number of significant prospects. Besides the underground Iron Mask Mine and the Galaxy zone within this claim group, one of the better deposits is Ajax situated north of Jacko Lake. However, until the Afton Mine was discovered in 1971, none of the prospects were economically viable in modern times. The discovery of Afton, in 1971, rejuvenated exploration activity in the area and resulted in the discovery of numerous additional copper showings.

According to P. Badgley (1961) the first recorded work on the Galaxy Property was carried out in 1899. A shaft was sunk on the Crown Granted Evening Star claim between 1903 and 1908. Galaxy Minerals Ltd. rehabilitated the two-compartment shaft in 1956 and carried out a limited drilling and trenching program.

In 1961 P. Badgley was retained by Galaxy Minerals Ltd. to direct further exploration work on their property. Reconnaissance geochemical and geophysical surveys and diamond drilling resulted in the discovery of the Galaxy zone. Subsequent operators have completed a total of 9,499.7 metres of diamond drilling in addition to extensive trenching,

road building, geological mapping and extend the underground workings to a total of 384.7 metres (Amendolagine, 1971).

The latest work on the Galaxy Property was conducted by Canadian Superior Exploration in 1977. They completed a regional topographic survey, magnetometer survey (125.09 line kilometres) and eight percussion drill holes totalling 734.57 metres (Blanchflower, 1977).

GEOLOGY

The region of the Iron Mask batholith has been mapped by various members of both the Geological Survey of Canada and B.C. Department of Mines. The most recent regional mapping in the area was done by Dr. K. E. Northcote of the B.C.D.M. in 1974, 1976 and 1977.

The Galaxy Property is situated centrally within the Iron Mask batholith. This Upper Triassic-Jurassic age intrusive complex is elongate in a northwest-southeast direction with an exposed length of 19.3 kilometres and a width of approximately 4 kilometres. It was apparently emplaced in a high level volcanic to subvolcanic environment and is comagmatic and coeval with Nicola volcanic and minor sedimentary rocks which it cannibalizes and intrudes. The Nicola rocks and Iron Mask batholith are unconformably overlain by Tertiary volcanic and sedimentary rocks of the Kamloops Group. Major systems of northwesterly northerly and northeasterly trending recurring fractures or faults controlled the emplacement of the various units of the Iron Mask batholith. Post-batholith movement on faults around the margin of the batholith resulted in graben structures with off-batholith rocks on the down-thrown-side (Northcote, 1977).

Numerous copper prospects, including the Afton deposit, are located throughout the batholith. Depositional controls for copper-bearing mineralization appear principally related to major structural systems.

LOCAL GEOLOGY

The dominant rock type encountered on the Rocket Claims is the Iron Mask Hybrid unit (Northcote, 1974, 1976, 1977). This unit generally consists of rounded to subangular hornblendite fragments and coarse grained gabbro healed and partially digested by fine to medium grained diorite. Locally, the composition of this intrusive breccia is variable and may include xenoliths of Nicola rocks. An outcrop of this unit on the Rocket 13 claim shows the following relationship; a fine grained hornblende diorite phase is healed by medium grained diorite veins and is subsequently intruded and healed by a coarse grained diorite phase. Albite and epidote veins and alteration are late stage as they cut all other rock and vein types. Disseminated fine to medium grained magnetite is abundant in the Hybrid unit especially in coarse grained gabbroic phases. Copper mineralization is closely related to alteration, veining and fracturing in the Iron Mask Hybrid unit.

On the southwest of the property near Jacko Lake, Nicola volcanic rocks are in contact with the Iron Mask Hybrid unit. Slivers of fault emplaced highly sheared andesitic tuff can be seen along the Jacko Lake access road (Rocket 13, 14). South of the Jacko Lake access road, Nicola volcanic rocks are cut by narrow quartz-carbonate veins containing chalcopyrite and tetrahedrite.

Near the northern and northeastern margins of the Rocket Claims fine grained monzonite to syenite belonging to the Cherry Creek unit (Northcote) are exposed in a few outcrops. These outcrops represent fault emplaced slivers of Cherry Creek unit within the Iron Mask Hybrid unit. Cherry Creek rocks comprising fine grained monzonite to syenite are only weakly altered and veined. No mineralization was found in Cherry Creek rocks on the claims.

STRUCTURE

Fracturing and faulting on the property are generally weak to moderate. Intense east-west faulting and fracturing occurs along the Nicola volcanic-Iron Mask Hybrid contact near Jacko Lake. The most commonly encountered fracture orientations are approximately 320° and 060°. A third, less common set is oriented north-south. Fracture spacing is generally 25 to 75cm, shrinking to 2 to 3 cm when the rock is highly altered or mineralized. The 320° and 060° fracture orientations are more frequently mineralized than the north-south fractures.

ALTERATION AND MINERALIZATION

Alteration on the property is highly variable with Nicola and Cherry Creek rocks only weakly altered. The Iron Mask Hybrid unit which comprised the bulk of the exposures on the Rocket Claims is generally moderately to strongly altered. Alteration comprises saussuritization, albite and/or K-feldspar, epidote and quartz-carbonate veining.

Mineralization on the property comprises several types: Nicola rocks south of the Jacko Lake access road are cut by quartz-carbonate veins containing chalcopyrite and tetrahedrite. Iron Mask Hybrid rocks are veined with albite, epidote, quartz + carbonate, with local concentrations of chalcopyrite and magnetite. Numerous old mineralized pits and trenches were found on the Rocket Claims.

Mineralization is generally localized in zones of intense fracturing, alteration and veining with the best host rock on the property being the Iron Mask Hybrid unit.

ROCK GEOCHEMISTRY

One hundred nine samples were collected from mineralized and unmineralized rock units on the Rocket Claims for geochemical analysis. Samples were shipped to Bondar-Clegg laboratory in Vancouver for copper, gold and silver analyses.

All samples were pulverized to -100 mesh size. A 0.5 gram sample was then digested in hot aqua regia and analysed for copper and silver by atomic absorption. Gold was analysed using a 20 gram sample, which was subjected to a combination of fire assay - atomic absorption method. Lower detection limits for the analysis performed are 1ppm copper, 0.2 ppm silver and 5ppb gold. Results of the analysis are enclosed in Appendix "A" and on Plates 1 and 2.

Geochemical sampling results obtained from the Rocket Claims generally indicate that surface exposure contained low values for copper, silver and gold.

Cherry Creek rocks which display little alteration and mineralization on the claims have average values less than 25ppm copper, 0.2ppm silver and 5ppb gold. Background values obtained for Iron Mask Hybrid rocks give highly variable results but generally contain low values in silver and gold, although highly mineralized samples do contain minor amounts of gold in the 20-50ppb range and silver in the 0.5 to 1ppm range. The highest values obtained ROC 62, 68 which contain better than 1% copper show similar gold values but variable silver values. This may be due to the presence of minor amounts of a discrete silver mineral such as tetrahedrite. Nicola volcanic rocks have background values of 100ppm copper, 0.2ppm silver and 5ppb gold. Mineralized samples of Nicola volcanic rocks and quartz veins give highly variable results. The high silver values obtained are due to the presence of tetrahedrite. Only one high gold value 1000ppb (ROC 108) was obtained and this may be due to the presence of free gold in the quartz-carbonate vein.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping and rock geochemistry conducted on the Rocket 4-16 mineral claims has shown that most rock types exposed on the property contain low background values in copper, silver and gold. Iron Mask Hybrid rocks are the most highly altered and mineralized on the property and offer the best potential to host economic mineralization.

It is recommended that the claims be kept in good standing due to their proximity to Cominco's Ajax property which has a proven tonnage of potentially economic mineralization. Any future work carried out to evaluate these claims should consider basal till sampling to evaluate the extensive till covered areas and percussion or diamond drilling to evaluate areas of known mineralization.

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GEOCHEMICAL
VALUES

APPENDIX A
 Rocket Claims
 List of Geochemical Values

Sample #	Cu ppm	Ag ppm	Au ppb
ROC-001	18	<0.2	<5
ROC-002	28	<0.2	<5
ROC-003	9	<0.2	5
ROC-004	610	<0.2	20
ROC-005	87	<0.2	<5
ROC-006	17	<0.2	<5
ROC-007	6	<0.2	<5
ROC-008	78	<0.2	25
ROC-009	82	<0.2	<5
ROC-010	27	<0.2	<5
ROC-011	90	<0.2	<5
ROC-012	148	<0.2	30
ROC-013	745	<0.2	20
ROC-014	91	<0.2	<5
ROC-015	85	<0.2	<5
ROC-016	15	<0.2	<5
ROC-017	74	<0.2	<5
ROC-018	35	<0.2	<5
ROC-019	6820	1.0	45
ROC-020	480	<0.2	10
ROC-021	66	<0.2	<5
ROC-022	21	<0.2	<5
ROC-023	172	<0.2	<5
ROC-024	14	<0.2	<5
ROC-025	10	<0.2	<5
ROC-026	515	<0.2	15
ROC-027	28	<0.2	<5
ROC-028	5	<0.2	20
ROC-029	785	0.6	40
ROC-030	15	<0.2	<5
ROC-031	2480	1.1	55
ROC-032	149	<0.2	5
ROC-033	42	<0.2	<5
ROC-034	389	<0.2	<5
ROC-035	126	<0.2	<5
ROC-036	575	<0.2	10
ROC-037	1540	0.3	5
ROC-038	23	<0.2	<5
ROC-039	32	<0.2	5
ROC-040	13	<0.2	<5
ROC-041	56	<0.2	<5
ROC-042	133	<0.2	<5
ROC-043	1680	<0.2	<5
ROC-044	11	0.2	<5
ROC-045	3	<0.2	<5

List of Geochemical Values
 Rocket Claims

Sample #	Cu ppm	Ag ppm	Au ppb
ROC-046	11	<0.2	<5
ROC-047	3	<0.2	<5
ROC-048	20	<0.2	<5
ROC-049	3	<0.2	<5
ROC-050	5	<0.2	<5
ROC-051	4	<0.2	<5
ROC-052	12	<0.2	<5
ROC-053	11	<0.2	<5
ROC-054	12	<0.2	<5
ROC-055	14	<0.2	<5
ROC-056	17	<0.2	<5
ROC-057	65	<0.2	20
ROC-058	900	1.1	40
ROC-059	720	0.5	70
ROC-060	420	<0.2	20
ROC-061	2500	0.2	15
ROC-062	19000	3.0	135
ROC-063	150	<0.2	10
ROC-064	47	<0.2	5
ROC-065	22	<0.2	<5
ROC-066	3800	<0.2	10
ROC-067	750	<0.2	<5
ROC-068	13500	6.3	135
ROC-069	6400	1.2	15
ROC-070	65	<0.2	<5
ROC-071	28	<0.2	<5
ROC-072	12	<0.2	<5
ROC-073	43	<0.2	<5
ROC-074	135	<0.2	<5
ROC-075	95	<0.2	<5
ROC-076	300	<0.2	<5
ROC-077	1530	<0.2	15
ROC-078	40	<0.2	<5
ROC-079	38	<0.2	<5
ROC-080	48	<0.2	5
ROC-081	61	<0.2	<5
ROC-082	17	0.3	<5
ROC-083	5	<0.2	<5
ROC-084	3	<0.2	<5
ROC-085	10	<0.2	<5
ROC-086	7	<0.2	<5
ROC-087	3	<0.2	<5
ROC-088	20	<0.2	<5
ROC-089	5	<0.2	<5
ROC-090	5	<0.2	<5

List of Geochemical Values
Rocket Claims

Page 3

Sample #	Cu ppm	Ag ppm	Au ppb
ROC-091	28	<0.2	<5
ROC-092	3200	14.0	75
ROC-093	3800	17.0	95
ROC-094	260	0.2	<5
ROC-095	1180	8.3	80
ROC-096	150	<0.2	<5
ROC-097	102	<0.2	<5
ROC-098	520	0.2	<5
ROC-099	69	1.4	85
ROC-100	105	<0.2	<5
ROC-101	65	<0.2	<5
ROC-102	60	<0.2	<5
ROC-103	70	<0.2	<5
ROC-104	92	<0.2	<5
ROC-105	92	<0.2	<5
ROC-106	94	<0.2	<5
ROC-107	71	<0.2	<5
ROC-108	45	0.4	1000
ROC-109	2400	24.0	170

APPENDIX A
Rock Geochemistry Sample Descriptions

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-001	Iron Mask Hybrid	Medium to coarse grained Gabbro containing 1% magnetite, contains vein of epidote and veins or inclusions of fine grained diorite.
ROC-002	Iron Mask Hybrid	Medium to coarse grained Gabbro with .5% magnetite, minor epidote veins.
ROC-003	Nicola Volcanics	Andesite tuff, highly altered containing pyrite and abundant epidote.
ROC-004	Iron Mask Hybrid	Highly altered and sheared vein, epidote and albite veining.
ROC-005	Nicola and Iron Mask Hybrid	Highly sheared containing minor chalcopyrite.
ROC-006	Iron Mask Hybrid	with 5% magnetite cut by minor epidote and albite veins.
ROC-007	Iron Mask Hybrid	Local intense epidote alteration.
ROC-008	Iron Mask Hybrid	Epidote veining with minor chalcopyrite.
ROC-009	Iron Mask Hybrid	3% magnetite, minor epidote alteration and chalcopyrite.
ROC-010	Iron Mask Hybrid	2% magnetite, albite and epidote veining.
ROC-011	Nicola Volcanics	Andesite tuff, highly sheared, epidote alteration, minor pyrite.
ROC-012	Nicola Volcanics	Andesite tuff, highly sheared, abundant epidote alteration and pyrite.
ROC-013	Iron Mask Hybrid	Medium grained diorite moderate shearing minor pyrite.
ROC-014	Nicola Volcanics	Intense epidote - quartz alteration.
ROC-015	Iron Mask Hybrid and Nicola Volcanics	Andesite tuff, highly sheared contact minor pyrite, intense epidote alteration.
ROC-016	Iron Mask Hybrid	Medium grained diorite, sheared moderate epidote alteration.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-017	Nicola Volcanics	Andesitic tuff, augite-hornblende porphyry, sheared, moderate epidote alteration.
ROC-018	Nicola Volcanics	Andesitic tuff, sheared, moderate epidote alteration hematite coated fractures.
ROC-019	Iron Mask Hybrid	Medium grained diorite, pervasive epidote alteration, carbonate veining, pyrite, malachite.
ROC-020	Iron Mask Hybrid	Medium grained diorite, pervasive epidote alteration, carbonate, albite and pyrite veining.
ROC-021	Iron Mask Hybrid	Medium grained diorite, intense epidote alteration abundant magnetite, highly sheared.
ROC-022	Nicola ?	Feldspar porphyry andesite dyke, minor shearing.
ROC-023	Iron Mask Hybrid and Nicola Tuffs	Epidote alteration and minor pyrite.
ROC-024	Iron Mask Hybrid	Medium to coarse diorite, moderate epidote alteration 3% magnetite, minor pyrite.
ROC-025	Iron Mask Hybrid	Fine grained diorite, moderate to intense epidote alteration, albite veining, intense shearing, minor pyrite.
ROC-026	Iron Mask Hybrid	Fine grained diorite, albite and epidote veining minor pyrite and chalcopyrite.
ROC-027	Iron Mask Hybrid	Coarse grained diorite and gabbro, albite veining, epidote alteration, 5% magnetite.
ROC-028	Iron Mask Hybrid	Coarse grained diorite, moderate shearing, intense epidote alteration, albite veining, chalcopyrite.
ROC-029	Iron Mask Hybrid	Coarse grained diorite, moderate shearing intense epidote and albite alteration, pyrite, chalcopyrite.
ROC-030	Iron Mask Hybrid	Coarse grained diorite, intense shearing epidote alteration, quartz-carbonate veining, pyrite.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-031	Iron Mask Hybrid	Brecciated diorite, intense shearing epidote-albite alteration, quartz-carbonate veining abundant magnetite minor pyrite, chalcopyrite.
ROC-032	Iron Mask Hybrid	Fine grained diorite, minor epidote veining, pyrite.
ROC-033	Iron Mask Hybrid	Fine grained diorite, epidote-albite veining, abundant pyrite, minor shearing.
ROC-034	Iron Mask Hybrid	Fine to medium grained diorite, 2% magnetite, moderate epidote alteration ,pyrite veining and disseminated.
ROC-035	Iron Mask Hybrid	Medium grained diorite, quartz-carbonate veining.
ROC-036	Iron Mask Hybrid	Fine grained diorite, albite and epidote alteration, minor silification, disseminated and vein pyrite.
ROC-037	Iron Mask Hybrid	Medium grained diorite, epidote veining, minor pyrite chalcopyrite.
ROC-038	Iron Mask Hybrid	Medium grained diorite, epidote alteration, pyrite veining, 1% magnetite.
ROC-039	Iron Mask Hybrid	Medium grained diorite, epidote-albite alteration and veining, 2% magnetite, pyrite and chalcopyrite.
ROC-040	Iron Mask Hybrid	Medium to coarse grained diorite, epidote veining, 1% magnetite.
ROC-041	Iron Mask Hybrid	Fine to medium grained diorite, epidote veining.
ROC-042	Iron Mask Hybrid	Medium grained diorite, fault zone, epidote veining, 5% magnetite, minor pyrite.
ROC-043	Iron Mask Hybrid	Medium grained diorite, albite-epidote veining, minor pyrite and chalcopyrite.
ROC-044	Cherry Creek	Monzonite, highly fractured, minor disseminated pyrite.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-045	Cherry Creek	Monzonite, feldspar veining, minor quartz veining, highly fractured.
ROC-046	Cherry Creek	Fined grained monzonite, highly fractured, minor quartz veining, hematite on fracture surfaces.
ROC-047	Cherry Creek	Fined grained monzonite, highly fractured, quartz-carbonate veining, hematitic fractures.
ROC-048	Cherry Creek	Fine grained monzonite, highly fractured, minor quartz veining.
ROC-049	Cherry Creek	Fine grained monzonite, highly fractured, hematitic fractures.
ROC-050	Cherry Creek	Fine grained monzonite, highly fractured, minor quartz veins.
ROC-051	Iron Mask Hybrid	Medium grained diorite, albite-epidote veining 1% disseminated magnetite.
ROC-052	Iron Mask Hybrid	Medium to coarse grained diorite, albite-epidote veining, 1% disseminated and vein magnetite.
ROC-053	Iron Mask Hybrid	Fine grained diorite, moderate fracturing, epidote veining minor magnetite.
ROC-054	Cherry Creek	Fine grained monzonite, minor fracturing, epidote veining.
ROC-055	Cherry Creek	Fine grained monzonite, blocky fracturing, epidote veining.
ROC-056	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, intense albite-epidote veining, 2% disseminated magnetite.
ROC-057	Iron Mask Hybrid	Fine grained diorite, minor epidote veining, minor disseminated magnetite.
ROC-058	Iron Mask Hybrid	Medium grained diorite, intense shearing, quartz vein local pods of massive magnetite, minor chalcopyrite.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-059	Iron Mask Hybrid	Medium grained diorite, intense shearing, quartz-carbonate veins, massive pods magnetite, minor chalcopyrite.
ROC-060	Iron Mask Hybrid	Medium grained diorite, intense zone of epidote flooding and massive magnetite and minor chalcopyrite.
ROC-061	Iron Mask Hybrid	Medium grained diorite, intense shearing, massive epidote-magnetite (skarn) with minor chalcopyrite.
ROC-062	Iron Mask Hybrid	Medium grained diorite, intense shearing massive epidote-magnetite (skarn) with chalcopyrite.
ROC-063	Iron Mask Hybrid	Medium grained diorite, highly fractured, calcite veining, intense epidote alteration , minor chalcopyrite.
ROC-064	Iron Mask Hybrid	Medium grained diorite, albite-epidote veining moderate fracturing.
ROC-065	Iron Mask Hybrid	Medium grained diorite, intense epidote-magnetite alteration, quartz and carbonate veining, minor chalcopyrite.
ROC-066	Iron Mask Hybrid	Medium grained diorite, narrow zone of epidote-magnetite, minor chalcopyrite.
ROC-067	Iron Mask Hybrid	Medium grained diorite cut by fine grained felsite dyke, epidote-calcite veining, minor magnetite and chalcopyrite.
ROC-068	Iron Mask Hybrid	Medium grained diorite, epidote-quartz-carbonate veining, minor chalcopyrite.
ROC-069	Iron Mask Hybrid	Medium grained diorite, highly altered albite-epidote, minor chalcopyrite in vein and fractures.
ROC-070	Iron Mask Hybrid	Fine to medium grained diorite, 2% disseminated magnetite, minor epidote veining.
ROC-071	Iron Mask Hybrid	Fine to medium grained diorite, minor epidote veining, 1% disseminated magnetite.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-072	Iron Mask Hybrid	Fine to medium grained diorite, intense fracturing, moderate epidote-albite veining.
ROC-073	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, intense epidote-albite veining.
ROC-074	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, intense epidote-albite veining, minor chalcopyrite, magnetite.
ROC-075	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, 2% disseminated magnetite, intense epidote-albite veining.
ROC-076	Iron Mask Hybrid	Fine to medium grained diorite, intense fracturing, epidote veining, minor chalcopyrite.
ROC-077	Iron Mask Hybrid	Medium grained diorite, moderate fracturing, intense albite-epidote veining, disseminated magnetite, disseminated and fracture coating chalcopyrite.
ROC-078	Cherry Creek	Fine grained monzonite, minor fracturing, minor epidote veining.
ROC-079	Cherry Creek	Fine grained monzonite, near fault contact, epidote veining.
ROC-080	Cherry Creek	Fine grained monzodiorite, moderate fracturing epidote-albite veining.
ROC-081	Cherry Creek	Fine grained monzodiorite, intense fracturing and shearing, intense epidote-albite veining.
ROC-082	Iron Mask Hybrid	Fine grained diorite, moderate fracturing, epidote veining, minor chalcopyrite, 2% disseminated magnetite.
ROC-083	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, epidote veining, pyrite veins, 3% disseminated magnetite.
ROC-084	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, albite-epidote veining, 3% disseminated magnetite.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-085	Iron Mask Hybrid	Fine to coarse grained diorite, moderate fracturing, epidote veining, minor pyrite.
ROC-086	Iron Mask Hybrid	Fine to coarse grained diorite, blocky fracturing, minor epidote.
ROC-087	Iron Mask Hybrid	Medium to coarse grained diorite, moderate fracturing, intense epidote alteration, disseminated and vein pyrite.
ROC-088	Iron Mask Hybrid	Fine to medium grained diorite, moderate fracturing, epidote veining, minor chalcopryrite.
ROC-089	Iron Mask Hybrid	Fine to medium grained diorite, moderate fracturing, moderate albite-epidote alteration minor disseminated magnetite.
ROC-090	Nicola Volcanics	Fine grained tuff, moderate fracturing, picrite inclusion, quartz-carbonate veining.
ROC-091	Nicola Volcanics	Fine grained tuff, moderate fracturing.
ROC-092	Nicola Volcanics	Fine grained tuff, intense fracturing, large quartz vein containing chalcopryrite, pyrite, tetrahedrite.
ROC-093	Nicola Volcanics	Fine grained tuff, intense fracturing, quartz veins containing chalcopryrite, pyrite, tetrahedrite (Picrite fragments).
ROC-094	Nicola Volcanics	Fine grained tuff, intense fracturing, minor quartz veining, disseminated pyrite, picrite fragments.
ROC-095	Nicola Volcanics	Fine grained tuff, intense fracturing, quartz veining, minor pyrite, chalcopryrite.
ROC-096	Nicola Volcanics	Porphyritic augite-hornblende andesite, moderate fracturing.
ROC-097	Nicola Volcanics	Porphyritic augite-hornblende andesite, blocky fracturing.
ROC-098	Nicola Volcanics	Fine grained tuff, moderate fracturing, carbonate veining.

<u>Sample No.</u>	<u>Rock Type</u>	<u>Field Description</u>
ROC-099	Nicola Volcanics	Fine grained tuff, moderate fracturing, minor quartz-carbonate veining.
ROC-100	Nicola Volcanics	Fine grained tuff, moderate to intense fracturing, intense carbonate veining.
ROC-101	Nicola Volcanics	Fine grained tuff, moderate fracturing, epidote alteration, disseminated pyrite.
ROC-102	Nicola Volcanics	Fine grained augite crystal tuff, blocky fracturing.
ROC-103	Nicola Volcanics	Augite crystal lapille tuff, blocky fracturing, minor disseminated pyrite.
ROC-104	Nicola Volcanics	Augite crystal lapille tuff, blocky fracturing, minor disseminated pyrite, pyrrhotite.
ROC-105	Nicola Volcanics	Basaltic andesite flow top breccia with interstitial and nesicular calcite, blocky fracturing.
ROC-106	Nicola Volcanics	Fine grained tuff, blocky fracturing.
ROC-107	Nicola Volcanics	Fine grained augite crystal tuff, moderate fracturing, disseminated pyrite.
ROC-108	Nicola Volcanics	Fine grained tuffs, intense fracturing, quartz-carbonate veined, epidote altered, disseminated pyrite, minor chalcopyrite.
ROC-109	Nicola Volcanics	Fine grained tuff, intense fracturing, quartz veined, epidote altered, disseminated, minor chalcopyrite, tetrahedrite.

EXHIBIT "A"

Statement of Expenditures
Galaxy Property
Rocket 4-16 Mineral Claims
Kamloops M.D., NTS 92I/9W
South-central, British Columbia

WAGES

G. F. McArthur, Senior Geologist

Travel: August 12-13 - 2 days @ \$225.00 =	\$ 450.00
Claim Location: August 3 - 1/2 day @ \$225.00 =	112.50
Field Work: August 7, 8, 9, 10, 11 - 5 days @ \$225.00 =	1,125.00
Report Preparation: August 16,17,18,22 - 4 days @ \$225.00 =	<u>900.00</u>
Subtotal	\$1,587.50

J. E. Robinson, Geologist

Travel: August 12-13 - 2 days @ \$125.00 =	\$ 250.00
Location: August 3 - 1/2 day @ \$125.00 =	62.50
Field Work: August 7, 8, 9, 10, 11 - 5 days @ \$125.00 =	<u>625.00</u>
Subtotal	937.50

TOTAL \$3,525.00

Statement of Expenditures
Rocket 4-16 Mineral Claims

Accommodation:	$\$346.64 \times .58 =$	\$ 201.05
Food:	$\$451.59 \times .58 =$	261.92
Freight:	$\$ 54.25 \times .58 =$	31.46
Gas:	$\$280.12 \times .58 =$	162.47
Truck Rental:	$\$ 30.00/\text{day} \times 7.5 \text{ days} =$	225.00
Geochemical Analysis:		
	109 Samples rock geochemistry @ \$11.95/sample	1,302.55
	Sample	
	Au, Ag, Cu + Prep.+ Retension	
	$6.00 + 1.90 + 0.95 + 2.75 + 0.35 = \$11.95/\text{sample}$	
Report Cost:	Typing & Reproduction, Drafting	500.00

Summary of Expenditures
Rocket 4-16 Mineral Claims

Wages	\$3,525.00
Accommodation	201.05
Food	261.92
Freight	31.46
Gas	162.47
Truck Rental	225.00
Geochemical Analysis	1,302.55
Drafting & Report Costs	<u>500.00</u>
TOTAL	<u>\$6,209.45</u>

Rocket 4-16 Mineral Claims
13 mineral claims @ \$200/year assessment

2 years Assessment for Rocket 4-16
mineral claims @ \$200.00/year = \$5,200.00

Excess credit for PAC Account is \$1,009.45

Statement of Expenditures
Rocket Claims

Field Expenditures IM and Rocket Claims
During the period August 1st to August 13th, 1983

IM Claims	5.5 Field Days	(.42)
Rocket Claims	7.5 Field Days	(.58)
	13.0 Days	

Accommodations

\$300.00	August 1-13	IM	\$346.64 x .42 = \$145.59
46.64	August 11	Rocket	\$346.64 x .58 = \$201.05
<u>\$346.64</u>			

Food

\$ 24.70	August 1-2		
158.36	August 2		
53.52	August 5	IM	\$451.59 x .42 = \$189.67
75.41	August 8	Rocket	\$451.59 x .58 = \$261.92
34.56	August 11		
<u>105.02</u>	August 1-13		
<u>\$451.59</u>			

Gas

\$ 44.00	August 1		
15.00	August 3		
20.12	August 8		
30.00	August 8	IM	\$280.12 x .42 = \$117.65
49.00	August 11	Rocket	\$280.12 x .58 = \$162.47
45.00	August 12		
37.00	August 13		
<u>40.00</u>	August 17		
<u>\$280.12</u>			

Freight

\$ 54.25	August 8	IM	\$54.25 x .42 = \$22.79
		Rocket	\$54.25 x .58 = \$31.46

Geochemical Costs

Rock Geochemistry

Au,	Ag,	Cu	Prep.	Sample	
6.00	1.90	0.95	2.75	Retention	
				0.35	= \$11.95/sample

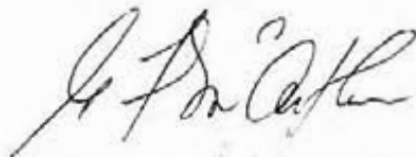
CERTIFICATE

I, Gerald F. McArthur, of the City of Calgary, in the Province of Alberta, do hereby certify:

That I am a practicing Geologist and employed by Aberford Resources Ltd. with offices located at 300 - 5 Avenue S.W., Calgary, Alberta,

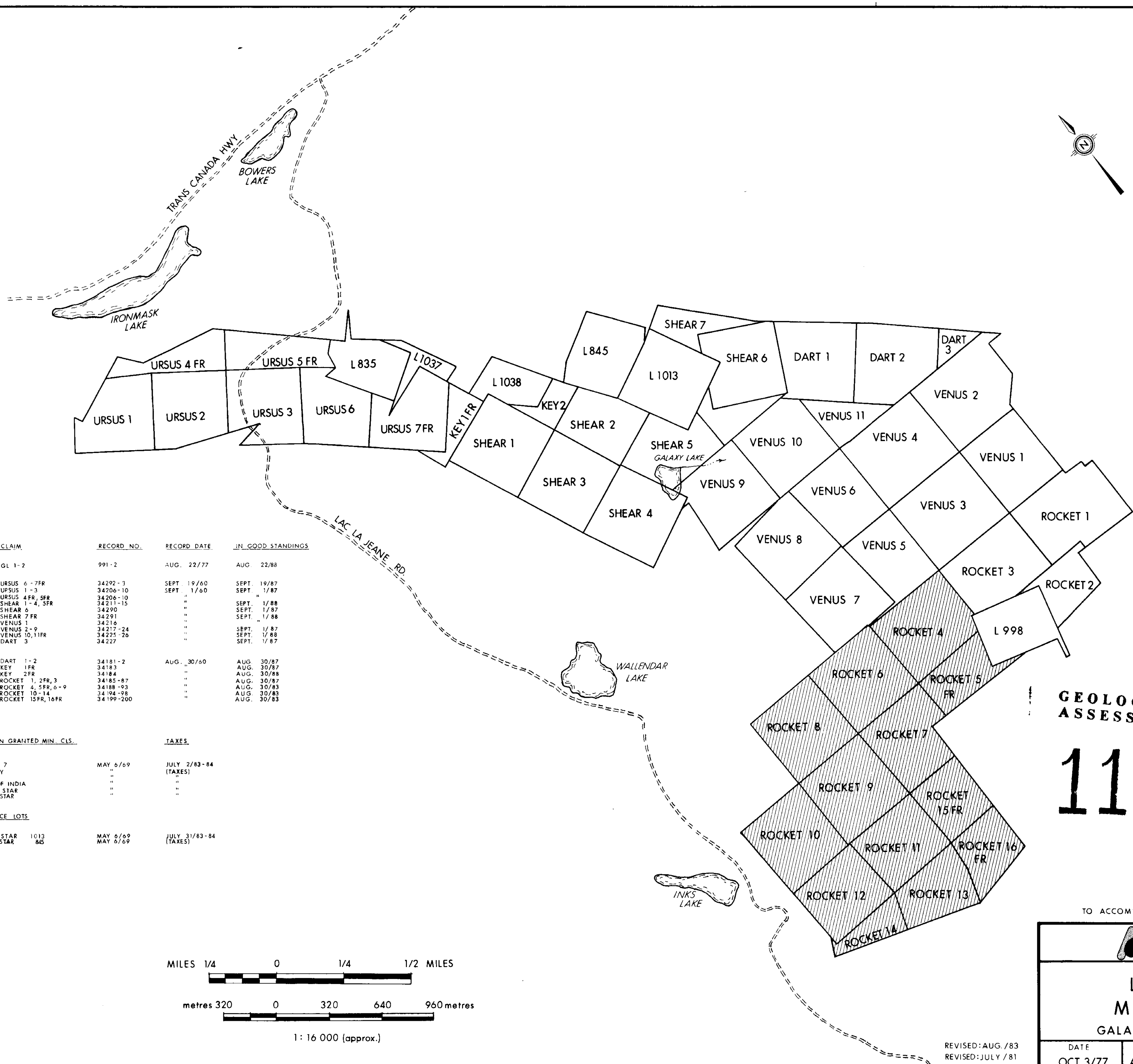
I further certify

- 1) That I am a graduate of the University of British Columbia (1973) and hold a B.Sc. degree in Geology.
- 2) I have been practicing my profession for the past ten years.
- 3) This report is based on information obtained by the writer from personal supervision of the 1983 exploration program.



G. F. McArthur, P. Geol.
Sr. Geologist

Calgary, Alberta
August, 30, 1983



NO.	CLAIM	RECORD NO.	RECORD DATE	IN GOOD STANDINGS
2	GL 1-2	991-2	AUG. 22/77	AUG. 22/88
24	URSUS 6-7FR	34292-3	SEPT. 19/80	SEPT. 19/87
	URSUS 1-3	34206-10	SEPT. 1/80	SEPT. 1/87
	URSUS 4FR, 5FR	34206-10	"	"
	SHEAR 1-4, 5FR	34211-15	"	"
	SHEAR 6	34290	"	SEPT. 1/88
	SHEAR 7FR	34291	"	SEPT. 1/87
	VENUS 1	34216	"	SEPT. 1/87
	VENUS 2-9	34217-24	"	SEPT. 1/88
	VENUS 10, 11FR	34225-26	"	SEPT. 1/88
	DART 3	34227	"	SEPT. 1/87
20	DART 1-2	34181-2	AUG. 30/80	AUG. 30/87
	KEY 1FR	34183	"	AUG. 30/87
	KEY 2FR	34184	"	AUG. 30/88
	ROCKET 1, 2FR, 3	34185-87	"	AUG. 30/87
	ROCKET 4, 5FR, 6-9	34188-93	"	AUG. 30/83
	ROCKET 10-14	34194-98	"	AUG. 30/83
	ROCKET 15FR, 16FR	34199-200	"	AUG. 30/83

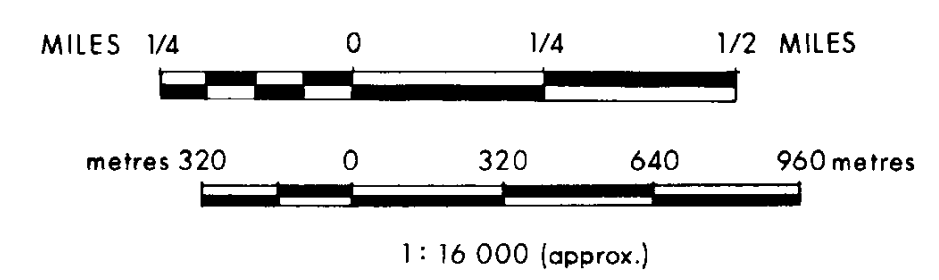
6 CROWN GRANTED MIN. CLS.	TAXES
NUMBER 7	MAY 6/69
KENTUCKY	JULY 2/83-84
BENHUR	(TAXES)
PRINCE OF INDIA	"
EVENING STAR	"
GOLDEN STAR	"
2 SURFACE LOTS	
EVENING STAR 1013	MAY 6/69
GOLDEN STAR 845	JULY 31/83-84
	(TAXES)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,690

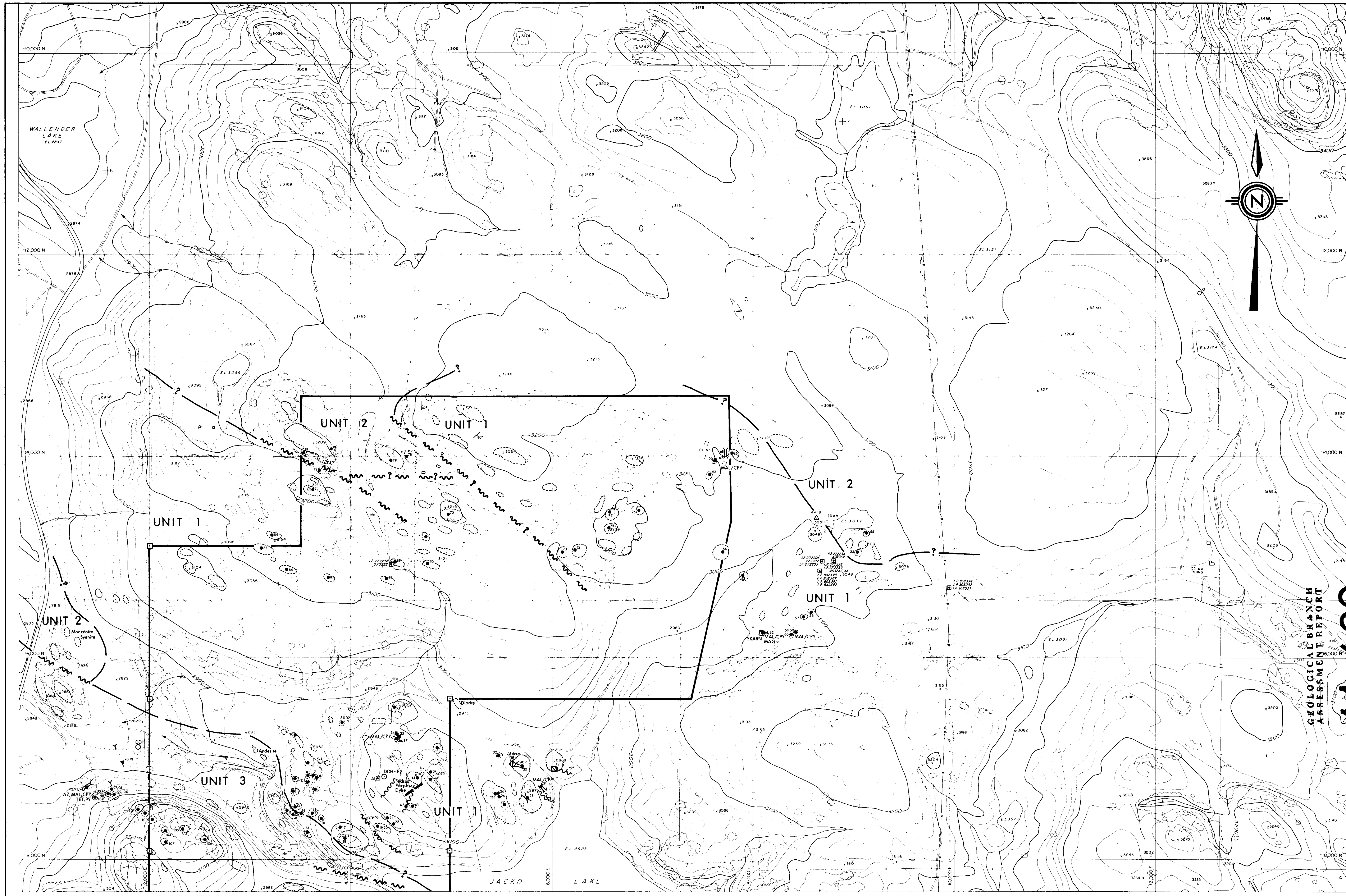
FIGURE 2

TO ACCOMPANY REPORT NO. 13-83 BY G.F.M.



REVISED: AUG. /83
REVISED: JULY /81
REVISED: AUG. /80

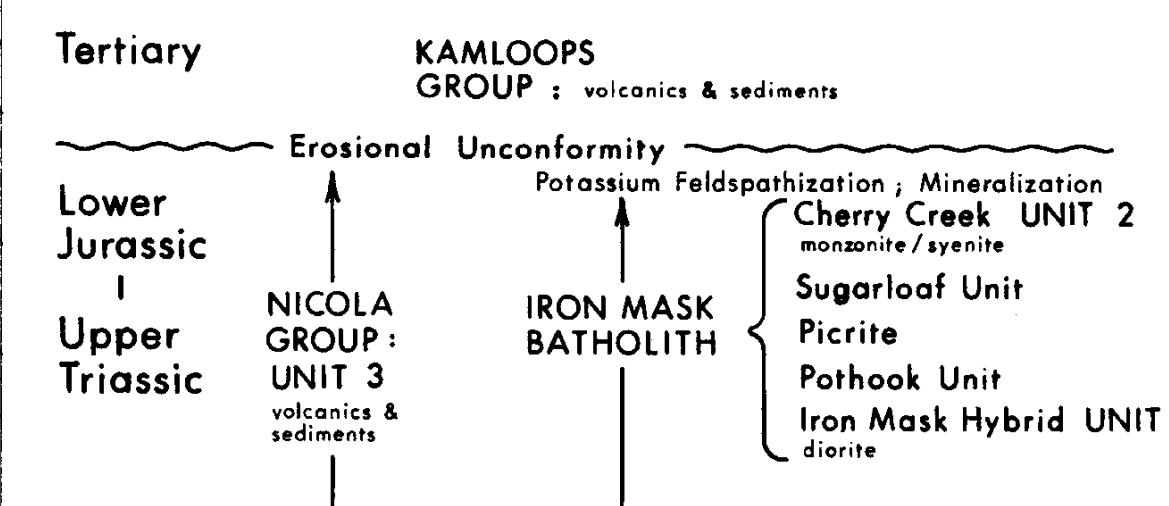
ABERFORD RESOURCES LTD.			
LOCATION OF MINERAL CLAIMS			
GALAXY PROJECT, KAMLOOPS M.D.			
DATE OCT. 3/77	SCALE AS SHOWN	NTS 92 I / 9W	DRAWING NO. C-0049



Rocket Claims
List of Geochemical Values

Sample #	Cu ppm	Ag ppm	Au ppb	Sample #	Cu ppm	Ag ppm	Au ppb
ROC-001	18	<0.2	<5	ROC-055	14	<0.2	<5
ROC-002	28	<0.2	<5	ROC-056	17	<0.2	<5
ROC-003	9	<0.2	5	ROC-057	65	<0.2	20
ROC-004	610	<0.2	20	ROC-058	900	1.1	40
ROC-005	87	<0.2	<5	ROC-059	720	0.5	70
ROC-006	17	<0.2	<5	ROC-060	420	<0.2	20
ROC-007	6	<0.2	<5	ROC-061	2500	0.2	15
ROC-008	78	<0.2	25	ROC-062	19000	3.0	135
ROC-009	82	<0.2	<5	ROC-063	150	<0.2	10
ROC-010	27	<0.2	<5	ROC-064	47	<0.2	5
ROC-011	90	<0.2	<5	ROC-065	22	<0.2	<5
ROC-012	148	<0.2	30	ROC-066	3800	<0.2	10
ROC-013	745	<0.2	20	ROC-067	750	<0.2	<5
ROC-014	91	<0.2	<5	ROC-068	13500	6.3	135
ROC-015	85	<0.2	<5	ROC-069	6400	1.2	15
ROC-016	15	<0.2	<5	ROC-070	85	<0.2	<5
ROC-017	74	<0.2	<5	ROC-071	28	<0.2	<5
ROC-018	35	<0.2	<5	ROC-072	12	<0.2	<5
ROC-019	6820	1.0	45	ROC-073	43	<0.2	<5
ROC-020	480	<0.2	10	ROC-074	135	<0.2	<5
ROC-021	66	<0.2	<5	ROC-075	95	<0.2	<5
ROC-022	21	<0.2	<5	ROC-076	300	<0.2	<5
ROC-023	172	<0.2	<5	ROC-077	1530	<0.2	15
ROC-024	14	<0.2	<5	ROC-078	40	<0.2	<5
ROC-025	10	<0.2	<5	ROC-079	38	<0.2	<5
ROC-026	515	<0.2	15	ROC-080	48	<0.2	5
ROC-027	28	<0.2	<5	ROC-081	61	<0.2	<5
ROC-028	5	<0.2	20	ROC-082	17	0.3	<5
ROC-029	785	0.6	40	ROC-083	5	<0.2	<5
ROC-030	15	<0.2	<5	ROC-084	3	<0.2	<5
ROC-031	2480	1.1	55	ROC-085	10	<0.2	<5
ROC-032	149	<0.2	5	ROC-086	7	<0.2	<5
ROC-033	42	<0.2	<5	ROC-087	3	<0.2	<5
ROC-034	389	<0.2	<5	ROC-088	20	<0.2	<5
ROC-035	126	<0.2	<5	ROC-089	5	<0.2	<5
ROC-036	575	<0.2	10	ROC-090	5	<0.2	<5
ROC-037	1540	0.3	5	ROC-091	28	<0.2	<5
ROC-038	23	<0.2	<5	ROC-092	3200	14.0	75
ROC-039	32	<0.2	5	ROC-093	3800	17.0	95
ROC-040	13	<0.2	<5	ROC-094	260	0.2	<5
ROC-041	56	<0.2	<5	ROC-095	1180	8.3	80
ROC-042	133	<0.2	<5	ROC-096	150	<0.2	<5
ROC-043	1680	<0.2	<5	ROC-097	102	<0.2	<5
ROC-044	11	0.2	<5	ROC-098	520	0.2	<5
ROC-045	3	<0.2	<5	ROC-099	69	1.4	85
ROC-046	11	<0.2	<5	ROC-100	105	<0.2	<5
ROC-047	3	<0.2	<5	ROC-101	65	<0.2	<5
ROC-048	20	<0.2	<5	ROC-102	60	<0.2	<5
ROC-049	3	<0.2	<5	ROC-103	70	<0.2	<5
ROC-050	5	<0.2	<5	ROC-104	92	<0.2	<5
ROC-051	4	<0.2	<5	ROC-105	92	<0.2	<5
ROC-052	12	<0.2	<5	ROC-106	94	<0.2	<5
ROC-053	11	<0.2	<5	ROC-107	71	<0.2	<5
ROC-054	12	<0.2	<5	ROC-108	45	0.4	1000
				ROC-109	2400	24.0	170

LEGEND (Modified after Northcote '77)

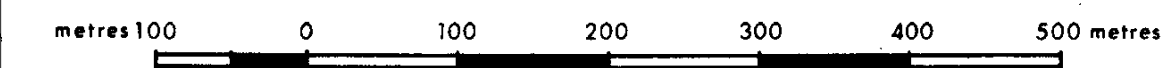


SYMBOLS

- geological contact
- fault
- outcrop
- bedding
- jointing
- adit
- trench
- pit
- drillhole
- rock geochemical sample site

Abbreviations: azurite AZ, malachite MAL, chalcocite CPY, magnetite MAG, tetrahydrate TET, pyrite PY.

SCALE 1:4800 (approx.)



TO ACCOMPANY REPORT NO 13-83 BY G.F.M.

ABERFORD RESOURCES LTD.

GEOLOGY AND ROCK GEOCHEMISTRY

GALAXY PROJECT

DATE	SCALE	NTS	DRAWING NO.
SEPTEMBER, 1983	1" = 400'	92 I / 9	1992

11,690

GEOLOGICAL BRANCH ASSESSMENT REPORT