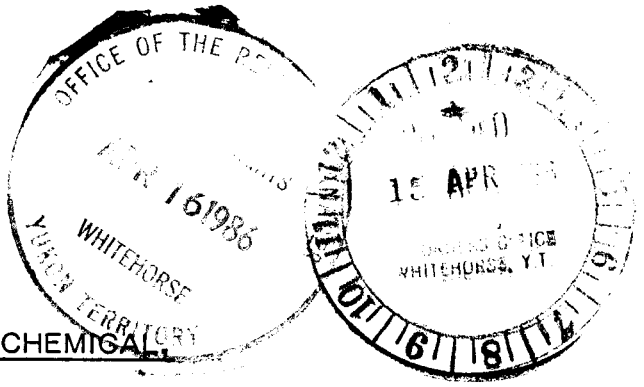


GEOLOGICAL, GEOCHEMICAL

AND AIR PHOTO INTERPRETATION REPORT

ON THE AFI 45 - 182 CLAIMS, WHITEHORSE M.D., YUKON

091812

Claims: Afi 45-160
Afi 161-164 fr.
Afi 165-182
Afi 297-300 fr.

Location: 1. NTS Map No. 105 D/2
2. 70 km South of Whitehorse, Yukon
3. Latitude 60° 07' N
Longitude 134° 44' W

For: Omni Resources Inc.
706 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

By: Harmen J. Keyser, B.Sc.
Aurum Geological Consultants Inc.
1614 - 675 West Hastings Street
Vancouver, B.C.
V6B 4W3

091812

April 7, 1986

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 20,400.

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

SUMMARY

The Afi 45-182 claims consist of 134 mineral claims and 8 fractional claims in the Whitehorse Mining District, Yukon. They are accessible by road from Carcross.

Situated in the gold- and silver-bearing Montana Mountain area, the property is underlain by two thick sequences of Mesozoic volcanic and sedimentary lithologies which have been intruded by granitoid rocks of the Coast Plutonic Complex. Cretaceous to Tertiary felsic dikes occur on the ground, and this is interpreted as a suitable host for precious metal deposits.

Results of 1985 exploration work described in this report have outlined one main target: gold-silver vein-type mineralization associated with arsenic and antimony at the southeast corner of the property. Large untested areas remain to be explored.

A program of geochemical sampling, prospecting, and geological mapping is proposed for the 1986 field season.

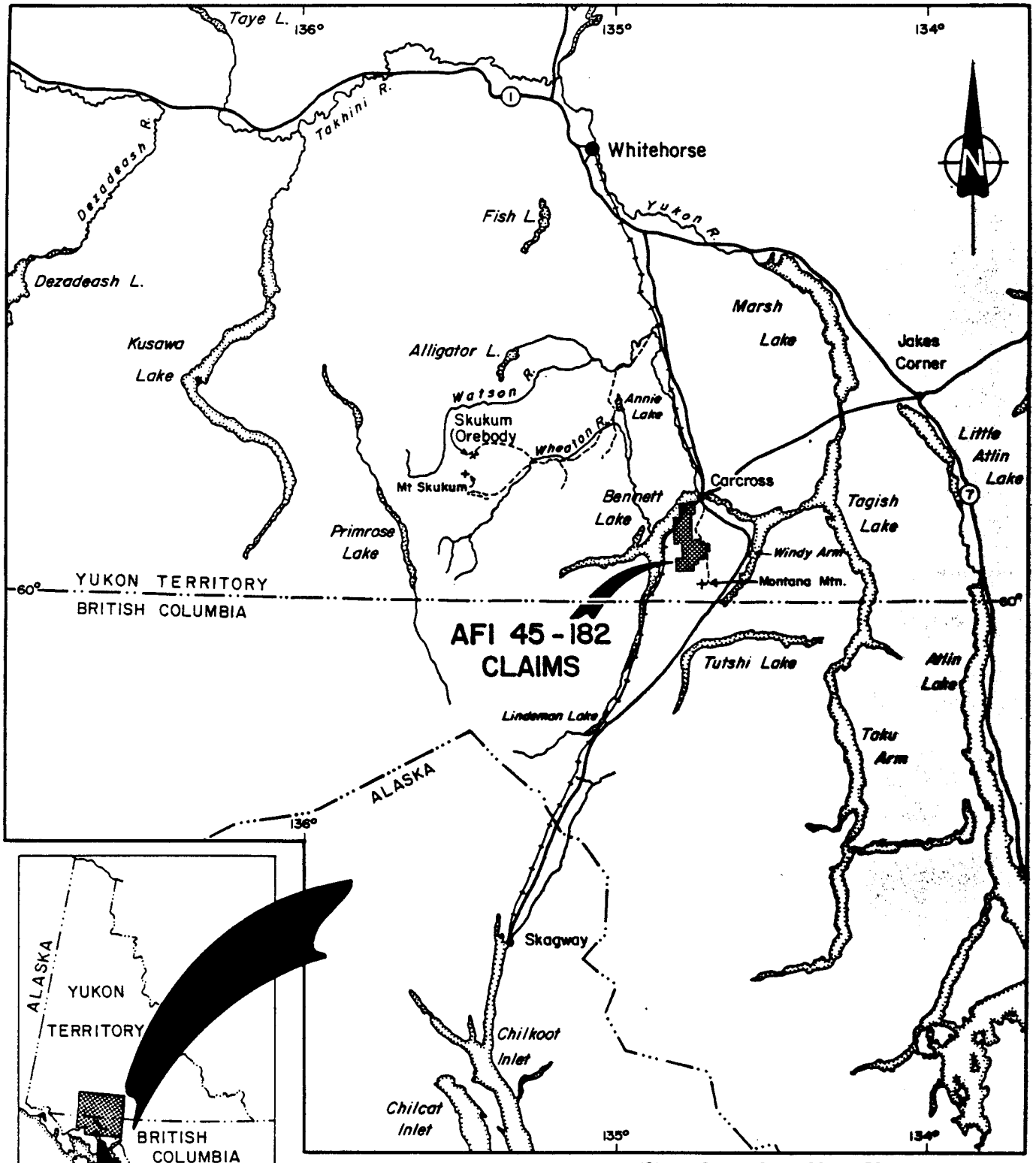
TABLE OF CONTENTS

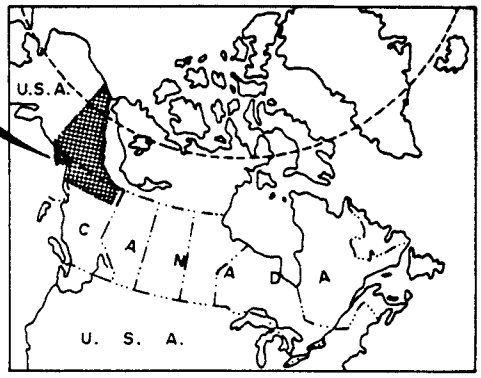
INTRODUCTION

This report was prepared at the request of Mr. Ernest Bergvinson, president of Omni Resources Inc. Its purpose is to assess the economic potential of the Afi 45-182 claims through a description of an exploration program carried out in August and September of 1985.

The property is located 70 kilometers south of Whitehorse, Yukon (Figure 1) and is accessible by road.

Exploration work carried out in 1985 consisted of a program of prospecting; geological mapping; geochemical rock, soil, and stream sediment sampling; and aerial photography and interpretation. Soil sampling was by MBW Surveys Ltd. and aerial photography was flown by North West Survey Corporation (Yukon) Ltd. The remaining work was carried out by Omni Resources Inc. and Aurum Geological Consultants Inc.





OMNI RESOURCES INC.			
AFI 45-182 CLAIMS			
LOCATION			
Aurum Geological Consultants Inc.	April , 1986		
Drawn by N.H.	Checked by H.K.	Scale 1:1,000,000	FIGURE 1

LOCATION AND ACCESS

The Afi 45-182 claim group is located in sothwestern Yukon Territory, about 70 kilometers south of Whitehorse. Centred at latitude 60° 07' N and longitude 134° 44' W, the claims cover an area known as Brute Mountain between Bennett Lake and Montana Mountain.

Access to the property is by gravel road from Carcross. Alternatively, access is provided by helicopters based at Whitehorse.

HISTORY

Considerable prospecting was carried out in the Montana Mountain-Windy Arm area starting in the late 1800's, culminating in the discovery of at least 19 gold and silver (and related metals) deposits. Although none are presently active, reported production to 1968 totals 28,762 oz gold and 1,024,421 oz silver (Roots 1981).

The Afi 45-182 claims were staked by Omni Resources Inc. in 1984 to cover potential gold- and silver-bearing ground. No mineral occurrences or records of previous exploration are known.

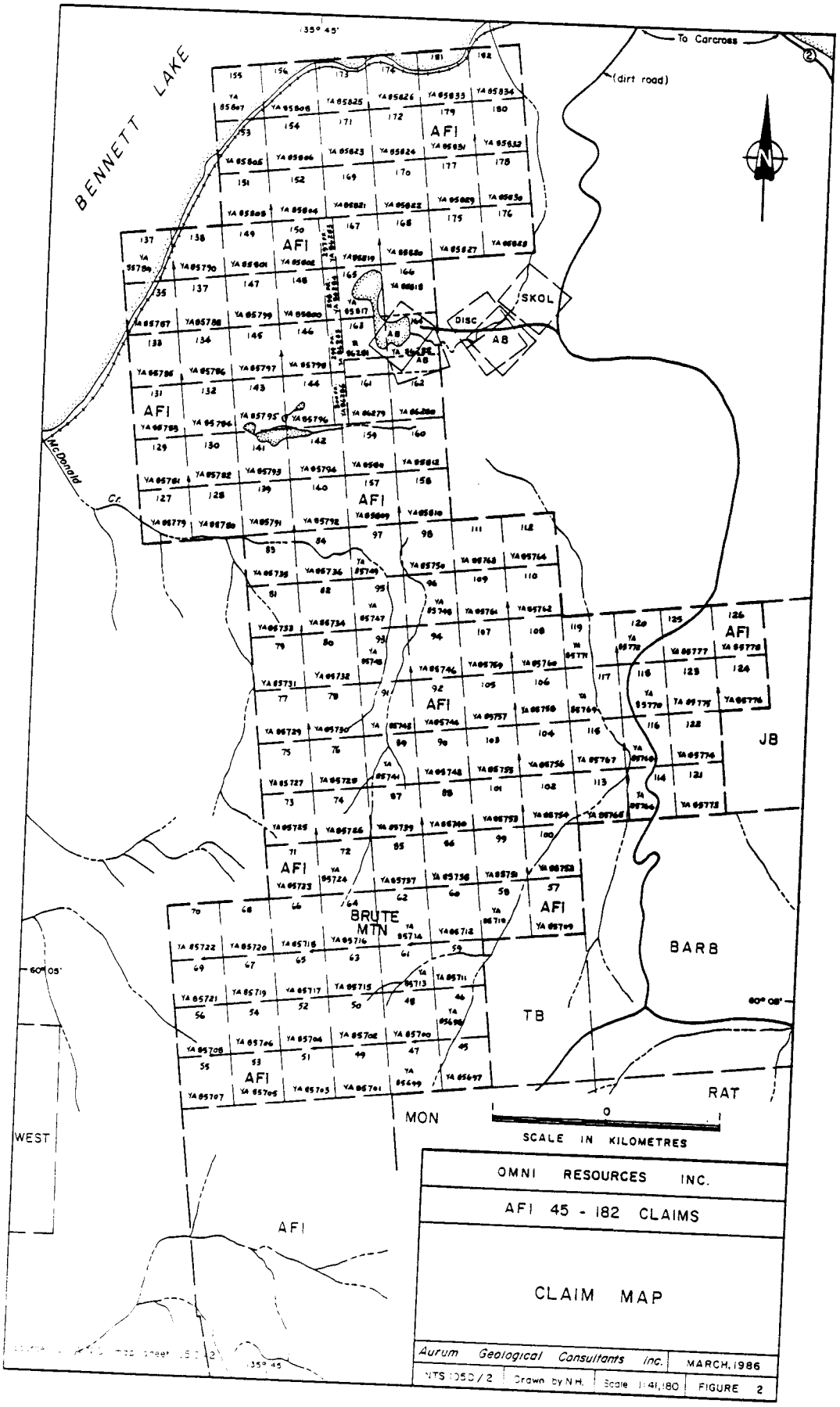
PROPERTY

The property consists of 134 contiguous two-post and 8 fractional mineral claims (Figure 2) staked under the Yukon Quartz Mining Act. Total area covered is approximately 2885 hectares (7128 acres). Claim data is as follows:

Claim Name	Grant No.'s	Mining District	Recording Date	Expiry Date*
Afi 45-160	YA85697-812	Whitehorse	Oct. 12, '84	Oct. 12, '85
Afi 161-164 fr.	YA86279-282	Whitehorse	Dec. 12, '84	Dec. 12, '85
Afi 165-182	YA85817-834	Whitehorse	Oct. 12, '84	Oct. 12, '85
Afi 297-300 fr.	YA86283-286	Whitehorse	Dec. 12, '84	Dec. 12, '85

* pending approval of 1985 assessment work.

The claims are owned completely by Omni Resources Inc. and are shown on D.I.A.N.D. Quartz and Placer Sheet 105D-2.


BENNETT LAKE
To Carcross
(dirt road)
AFI
SKOL
DISC
AB
McDonald Cr.
JB
BRUTE MTN
BARB
TB
RAT
MON
WEST
135° 45'
60° 05'
60° 08'
0
SCALE IN KILOMETRES
OMNI RESOURCES INC.
AFI 45 - 182 CLAIMS
CLAIM MAP
Aurum Geological Consultants inc.
MARCH, 1986
NTS 105D/2
Drawn by N.H.
Scale 1:41,180
FIGURE 2

CLIMATE, TOPOGRAPHY, AND VEGETATION

The climate in the Bennett Lake area is variable, with hot summers and long cold winters somewhat moderated by the nearby Pacific Ocean. Precipitation is light, in the area of 60 cm annually, with heavy snowfalls occurring during the winter months.

The property is situated in in the Cordilleran physiographic region in a transition zone between the Coast Mountains to the west and the Yukon Plateau to the east. Topography is rugged to precipitous, with elevations ranging from 650 m (2150 ft) at Bennett Lake to 2140 m (7020 ft) above sea level on the property. Pleistocene glaciation has greatly affected the area, and such glacial features as U-shaped valleys, aretes, cirques, tarns, moraines and outwash plains are common.

Vegetation consists of stunted spruce and poplar typical of southwestern Yukon. Alpine shrubs and grasses occur above an elevation of 1100 meters (3600 ft). Ridges and plateaux are typically covered with felsenmeer.

GEOLOGY

REGIONAL GEOLOGY

The Afi 45-182 claims are situated at the western edge of the Intermontane Tectonic Belt, where the Whitehorse Trough overlies the Atlin Terrane. The Coast Plutonic Belt lies immediately west of the claim area. Wheeler (1961) and Roots (1981) have adequately described the regional geology of the area.

Basement rocks in the area are mafic volcanic flows of the Carboniferous Atlin Terrane, and are partly overlain by carbonates. An elongate package of Mesozoic volcanic and sedimentary strata, called the Whitehorse Trough, unconformably overlies the Atlin Terrane. Components of this succession include the Lewes River Group and the Laberge Group.

Of particular interest are volcanic to subvolcanic complexes of the Carmacks and possibly Skukum Groups and granitoid plutons related to the Coast Plutonic Belt which intrude and/or unconformably overlie all pre-Cretaceous lithologies in the area.

Faulting, lithologic attitudes, and other regional trends are generally northwest.

GEOLOGY OF THE AFI 45-182 CLAIMS

Property geology (Figure 3) is much more complex than can be shown on the previously described regional mapping. Rock exposures are restricted to higher ridge flanks, and probably constitute less than 5% of the total property area.

Andesite, basalt, pyroclastics, limestone, and limestone breccia of the Triassic Lewes River Group (map unit uTRLW) are the oldest exposed lithologies on the Afi 45-182 claims (Wheeler 1961). They occur along the western margin of the property and were not examined during the 1985 exploration program.

Lying east of the Lewes River Group along a disconformable (?) north-trending contact are black argillites, conglomerates, and other sediments of the Laberge Group (map unit JL). These Jurassic rocks dip steeply to the east, and metamorphism and hydrothermal alteration is evident in several locations.

Leucocratic medium grained equigranular to granitoid rocks (map unit Kgd) intrude the Mesozoic strata at the northern and eastern portions of the property. Based on an overall mineralogy of feldspar (% plagioclase > % orthoclase), 60%; quartz, 25%; and mafic minerals, 15%, they can be classified as granodiorite, locally approaching granite. Hornblende usually predominates over biotite, and both typically exhibit some degree of chloritization. These rocks are thought to be late Cretaceous in age, although Roots (1981) considers them to be early Tertiary.

Light colored, sometimes rusty weathering, rhyolite (map unit Tr) has been observed to cut the Mesozoic strata in several locations as dikes. Although age relations with the granitoid rocks have not been established, the rhyolite is thought to be younger and is probably a hypabyssal equivalent to the Eocene Skukum Group.

Mafic minerals in the granodiorite locally show parallelism, suggesting that regional deformation took place after the intrusion. No major faults have been mapped. Dikes and air photo lineaments determined as part of this report do not show an apparent preferred attitude.

A tabulated geological history of the property and area is given as Table 1.

TABLE 1. Geological History of the Afi 45-182 claim group area.

Unit	Age *	Event/lithology
Qs	Quaternary	Unconsolidated surficial and glacial debris.
---	Pleistocene	Glacial erosion; unconformity.
Tr	Eocene (?)	Skukum Group (?); Emplacement of rhyolite dikes; Mineralization (?).
Kgd	Cretaceous	Coast Plutonic Belt; Granitoid intrusions, folding, faulting, metamorphism, erosion. Mineralization (?).
JL	Jurassic	Laberge Group; Argillite, conglomerate, greywacke, quartzite; Part of Whitehorse Trough.
---	early Jurassic	Disconformity (?).
uTRLW	upper Triassic	Lewes River Group; Volcanic flows, pyroclastic deposits, and limestone reef complexes; Part of Whitehorse Trough.
---	lower Triassic (?)	Unconformity.
---	Carboniferous	Atlin Terrane; Mafic volcanic flows.

* modified from Wheeler, 1961.

GEOCHEMICAL RESULTS

A total of 295 soil samples, 25 stream sediment samples, and 9 rock samples were collected for geochemical analyses during the 1985 exploration program on the Afi 45-182 claims. All samples were analyzed for total gold, silver, lead, zinc, arsenic and antimony contents by Acme Analytical Laboratories Ltd. of Vancouver, B.C. Analytical methods are described with the analytical reports (Appendix).

Threshold anomalous values were arbitrarily determined as follows:

Gold;	25 ppb
Silver;	1.4 ppm
Lead;	50 ppm
Zinc;	100 ppm
Arsenic;	60 ppm
Antimony;	5 ppm

Rock sample locations and values are plotted on Figure 3. For soil and sediment samples, gold and silver values are shown on Figure 4; and lead, zinc, arsenic, and antimony are plotted on Figure 5.

ROCK GEOCHEMISTRY

Of the nine rock samples taken, only one can be considered to have anomalous results. Sample 421074 returned 35 ppb gold, 1778 ppm arsenic, and 42 ppm antimony.

STREAM SEDIMENT GEOCHEMISTRY

Stream sediment samples were collected from 25 creeks and drainages along the west flank of Brute Mountain. They were taken conventionally from the active portion of creek bed loads; or if drainages were dry, from obviously water-transported material. Results show that zinc is anomalous in most of the samples, which probably reflects elevated zinc abundances in black argillites of the Laberge Group.

Gold was anomalous in samples 426072, 426077, 426081, and 416116. Samples 416116, 416117, and 426081 were anomalous in lead. Samples

426065, 416115, 416116, 426077, 416117, 416118, 416120, and 426081 were anomalous in arsenic. Like zinc, arsenic may be enriched in the black argillites. Antimony was anomalous in samples 426064, 416115, 416116, 426077, and 426081.

SOIL GEOCHEMISTRY

Twelve sampling lines were established at spacings of 200 to 914 meters with sampling stations at 50 to 114 meters. This reconnaissance soil "grid" yielded 322 sample sites with 27 samples unobtainable due to scree or deep humus. Samples were taken with a mattock mainly from the 'B' soil horizon (where developed) at depths varying from 5 to 30 cm.

Gold values range from 1 to 230 ppb, with 16 samples deemed to be anomalous. Most of these occur in the southeast part of the property.

Values for silver are quite low; ranging from 0.1 to only 9.5 ppm. The four anomalous values are concentrated in the southeast property corner.

Lead and zinc values range from 2 to 152 and 8 to 308 ppm respectively. The 14 anomalous lead and 30 anomalous zinc values are clustered in the southeast corner of the property.

Antimony values vary from 2 to 6 ppm, yielding only a single anomalous sample. Arsenic analyses produced 23 anomalous samples with values ranging from 2 to 468 ppm. Anomalous sample locations for both elements are found concentrated in the southeast property corner.

CONCLUSIONS AND RECOMMENDATIONS

The regional geological setting of the Afi 45-182 claim group is a thick Mesozoic volcano-sedimentary succession which has been intruded during the upper Cretaceous by granodiorites. Tertiary (?) rhyolitic dikes were emplaced in the Mesozoic strata, and possibly in the granitoid rocks. Vein-type gold and gold-silver mineralization in the nearby Wheaton River area, and to a lesser extent the Montana Mountain-Windy Arm area, is typically dike controlled. Felsic diking on the Afi 45-182 claims therefore provides a setting that is highly permissive for the development of precious metal deposits.

The property is a gold-silver prospect. Although mineralization has not been located to date, anomalous geochemical values in stream sediment and soil samples indicate areas of elevated precious metal abundances and may reflect as yet undiscovered gold-silver mineralization. Anomalous values are concentrated near the southeast corner of the property, proximal to known precious metals mineralization on the adjoining ground. The sampling density and coverage remains low, and large areas are yet to be explored. Sample spacings are such that large anomalous areas could easily have been bypassed.

Gold and silver anomalies may directly indicate precious metal mineralization. Arsenic and antimony are closely related to gold-silver veins at the Montana Mountain-Windy Arm district; therefore arsenic and antimony may be used as pathfinder elements on the Afi 45-182 claims.

Results of the 1985 exploration program on the Afi 45-182 claims warrant additional work. The following work is recommended:

1. Gridded soil geochemistry should be carried out over areas where anomalous results were disclosed in the 1985 program, at a grid spacing of 25 x 100 or 50 x 100 meters. The main area of interest is the southeast property corner.

2. The reconnaissance scale soil geochemistry should be continued, to fill in areas not yet covered.
3. Geological mapping with combined prospecting and stream sediment sampling should be continued, particularly over the central higher elevation part of the property. Special attention should be paid to structure, evidence of vein systems, and hydrothermal alteration and mineralization. An effort should be made to complete ground follow-up of lineaments and anomalies outlined by the 1985 work.

Any further work (geophysics, trenching, road building, drilling, etc.) would be contingent on results of the above work.

Respectfully submitted,

April 7, 1986

Harmen J. Keyser, B.Sc.

REFERENCES

Roots, C.F.;1981: Geological Setting of Gold-Silver Veins on Montana Mountain. In: Yukon Geology and Exploration 1979-80. Geology Section, Department of Indian and Northern Affairs, Whitehorse.

Wheeler, J.O.; 1961: Whitehorse Map-Area, Yukon Territory. G.S.C. Memoir 312 (includes Map 1093 A).

STATEMENT OF QUALIFICATIONS

I, HARMEN J. KEYSER, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC. of 1614-675 W. Hastings St., Vancouver, B.C.

2. I am a graduate of Saint Mary's University, Halifax, Nova Scotia with a degree in geology (B.Sc., 1981).

3. I am a member of the Geological Association of Canada (A3759).

4. I have no interest in the claims or securities of Omni Resources Inc., nor do I expect to obtain any.

5. I am the author of this report on the Afi 45-182 claims near Montana Mountain, Yukon, which is based on my personal examination of the property August 24, 25, and 26, 1985, and on published maps and reports.

6. I consent to the use of this report in a company report or statement, provided that no portion may be used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

April 7, 1986

Harmen J. Keyser, B.Sc.

APPENDICES

STATEMENT OF COSTS

C.N. Forster; Aug. 24, Sept. 7, 8, 1985 3 days @ $350.00/day:	$ 1050.00
H.J. Keyser; Aug. 24, 25, 26, 1985 3 days @ $300.00/day:	900.00
M. Van Wermeskerken; Aug. 25, 26, 27, 1985 3 days @ $200.00/day:	600.00
R. Zuran; Aug. 25, 27, 1985 2 days @ $200.00/day:	400.00
MBW Surveys Ltd.; contract soil sampling:	5000.00
Northwest Surveys; aerial photography:	4492.37
Helicopter Charter; 8.9 hrs. @ $525.00/hr.:	4672.50
Truck & ATV rental:	950.00
Mobilization/Demobilization:	2678.76
Analytical Costs:	3331.20
Camp Costs:	700.00
Report Preparation:	2000.00
TOTAL 1985 EXPENDITURES:	$ 26, 774.83

MONTANA MT.

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

DATE RECEIVED: AUG 31 1985

DATE REPORT MAILED: Sept 6/85

GEOCHEMICAL ICP ANALYSIS

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

ASSAYER: V. Saundry. DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

OMNI RESOURCES PROJECT - 105 D3-(-02)-1 FILE # 85-2162 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
416115	32	131	.3	220	9	16
416116	56	156	.4	73	6	31
416117	23	143	.2	104	2	24
416118	37	141	.4	75	2	18
416119	26	126	.2	96	2	14
416120	36	149	.4	63	2	10
416121	15	95	.2	32	2	9
426061	12	107	.1	5	2	3
426062	20	112	.2	35	2	8
426063	16	107	.2	8	2	5
426064	20	106	.1	12	2	8
426065	38	171	.4	71	2	20
426066	19	128	.2	7	2	7
426067	11	78	.2	6	2	8
426068	16	104	.2	7	2	2
426069	12	93	.1	7	2	4
426070	16	107	.2	11	2	5
426071	28	174	.3	22	2	13
426072	38	182	.3	22	2	28
426075	31	134	.2	53	4	7
426076	26	122	.2	16	2	8
426077	53	231	.4	102	7	32
426078	9	95	.1	35	2	2
426079	17	87	.1	29	2	2
426080	20	114	.3	39	2	14
426081	78	285	1.0	73	6	58
STD C/AU-0.5	38	133	7.1	39	15	520

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
421073	16	7	.2	20	2	2
421074	10	19	.3	1778	42	35
111109	14	31	1.5	70	2	100
111110	9	49	.6	7	2	12
111111	15	75	.2	40	2	2
411114	6	9	.1	11	2	8
432029	4	36	.2	4	2	4
431031	14	13	.1	5	2	1
432032	4	1	.1	2	2	1
432033	5	66	.1	2	2	1
232034	5	23	.1	3	2	8
STD C/AU-0.5	40	135	6.9	39	15	510

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

DATE RECEIVED: SEPT 4 1985

DATE REPORT MAILED: Sept 9/85

GEOCHEMICAL ICP ANALYSIS

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

ASSAYER: T. Saundry. DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

OMNI RESOURCES PROJECT-105 D/3-02(01) FILE # 85-2217 PAGE 1

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB	
432030	210	55	.5	7	2	14	— Montana.
142085	4785	1118	190.1	1071	17	690	
147086 SOIL	463	1163	11.0	276	4	280	
147087 SOIL	468	1319	11.1	269	3	100	

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

GEOCHEMICAL ICP ANALYSIS

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

ASSAYER: DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

OMNI RESOURCES PROJECT - 105D2-01 FILE # 85-2997

SAMPLE#	50 Pb PPM	100 Zn PPM	2.0 1.4 Ag PPM	60 As PPM	5 Sb PPM	25 Au* PPB
L1002	16	99	.3	20	3	4
L1003	77	151	1.1	67	3	7
L1004	25	90	.4	30	2	3
L1005	25	103	.2	29	2	5
L1006	23	61	.2	26	2	2
L1007	8	58	.3	19	2	2
L1008	11	38	.1	15	2	3
L1009	13	33	.2	10	2	11
L1010	11	62	.1	17	3	15
L1011	4	30	.2	9	2	2
L1012	5	31	.1	9	2	9
L1013	13	47	.1	20	2	1
L1014	13	59	.1	15	2	1
L1015	8	47	.1	18	2	3
L1016	12	47	.1	16	2	90
L1017	21	47	.5	121	2	5
L1018	12	48	.5	34	2	4
L1019	13	42	.1	14	2	3
L2001	13	49	.3	35	2	6
L2002	19	52	.3	50	3	7
L2003	23	59	.4	52	2	8
L2004	17	59	.4	27	3	5
L2005	36	89	.4	42	2	2
L2006	15	53	.2	60	2	2
L2007	18	75	1.0	28	2	1
L2008	18	55	.1	26	2	10
L2009	13	76	.1	12	2	29
L2010	9	42	.2	16	2	8
L2011	11	48	.2	23	2	15
L2012	18	62	.2	30	2	46
L2013	18	50	.3	21	2	5
L2014	11	37	.2	14	2	7
L2015	12	51	.1	24	2	2
L2016	10	63	.2	33	2	4
L2017	9	42	.1	16	2	14
L2018	11	61	.1	26	2	7
L2019	12	30	.1	10	2	4
STD C/AU 0.5	40	134	7.0	38	15	480

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
3052	13	88	.3	9	2	2
3053	8	41	.2	8	2	19
3054	11	47	.2	10	2	2
3055	15	164	.2	28	2	2
3056	6	82	.3	27	2	2
3057	6	95	.2	22	2	10
3058	11	93	.1	4	2	1
3059	4	69	.1	22	2	6
3060	2	8	.1	3	2	1
3061	2	10	.1	2	2	1
3062	11	71	.3	13	2	2
3063	12	47	.1	13	2	4
3064	8	48	.1	8	2	1
3065	7	31	.1	6	2	2
3066	5	32	.1	13	2	1
3067	10	39	.1	17	2	1
4051	10	52	.1	14	2	1
4052	11	49	.1	10	2	2
4053	8	35	.2	8	2	1
4054	11	69	.2	11	2	1
4055	8	55	.1	10	2	1
4056	9	49	.1	8	2	1
4057	8	64	.1	8	2	17
4058	5	49	.2	4	2	1
4059	6	59	.2	3	2	1
4060	8	57	.2	10	2	9
4062	7	24	.1	7	2	1
4063	10	33	.3	21	2	1
4064	6	62	.2	4	2	2
4065	14	63	.1	12	2	1
4066	9	72	.2	84	2	1
4067	11	108	.3	11	2	1
4068	17	84	.2	15	2	3
4069	17	77	.3	19	2	1
4070	9	30	.2	4	2	1
5019	20	116	.4	14	2	10
STD C/AU 0.5	41	137	7.1	39	13	485

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
5020	17	59	.3	12	2	1
5021	5	22	.1	7	3	2
5022	18	100	.3	18	2	5
5023	6	69	.1	12	2	7
5024	12	81	.3	12	3	3
5025	8	65	.3	14	2	10
5026	8	74	.1	18	2	8
5027	13	69	.3	24	2	3
5028	16	135	1.2	30	2	5
5029	7	50	.2	17	2	7
5031	4	45	.1	3	2	1
5034	7	59	.2	10	2	5
5035	11	30	.1	10	2	11
5036	16	63	.3	18	2	2
5037	7	47	.2	19	2	13
5038	12	56	.2	20	2	2
5041	14	56	.4	23	2	24
5042	9	46	.2	23	2	3
5043	11	72	.3	28	2	2
5044	11	55	.2	36	2	1
5045	15	81	.3	18	2	2
5046	8	62	.2	17	2	2
5047	4	25	.1	5	2	3
5048	10	148	.2	15	3	17
5049	9	70	.2	12	2	2
5050	7	44	.1	8	2	1
6026N	10	32	.2	18	3	1
6025N	16	113	.5	28	2	4
6024N	12	104	.6	16	2	3
6023N	8	162	.1	23	2	5
6022N	7	82	.2	26	2	2
6021N	9	72	.1	27	2	3
6020N	7	95	.2	14	2	3
6019N	10	55	.1	22	2	6
6018N	10	88	.2	20	2	3
6017N	11	127	.1	18	2	1
STD C/AU 0.5	38	133	7.1	39	16	480

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
6016N	10	85	.3	15	2	5
6015N	11	66	.2	26	2	1
6014N	12	72	.1	34	2	3
6013N	13	86	.1	24	2	1
6012N	20	122	.2	18	2	7
6011N	15	134	.2	27	2	2
6010N	17	92	.2	24	2	2
6009N	11	176	.1	29	2	1
6008N	17	131	.7	29	2	2
6007N	12	67	.2	17	2	1
6006N	7	41	.1	12	2	1
6005N	5	55	.2	23	2	3
6003N	9	65	.3	15	2	2
6002N	10	50	.1	26	2	1
6001N	15	81	.4	54	2	1
6000N	16	77	.2	71	2	4
3031N	13	54	.1	17	2	45
3030N	6	41	.1	11	2	3
3029N	10	45	.4	14	2	1
3028N	10	75	.1	18	2	1
3027N	4	51	.1	23	2	2
3026N	11	52	.1	24	2	2
3024N	10	55	.1	12	2	1
3023N	6	69	.1	19	2	2
3022N	8	66	.1	18	2	3
3021N	16	60	.1	18	2	2
3020N	11	54	.1	22	2	6
3019N	8	56	.1	15	2	2
3018N	2	46	.1	9	2	4
3017N	6	48	.1	16	2	2
3016N	7	35	.2	16	2	1
3015N	12	36	.1	24	2	1
3014N	9	42	.1	9	2	1
3013N	13	48	.1	15	2	14
3012N	7	30	.1	6	2	9
3011N	7	54	.1	10	2	4
STD C/AU 0.5	39	133	7.0	39	16	490

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
3010N	13	54	.1	11	2	2
3009N	10	43	.5	11	3	1
3008N	7	55	.1	12	2	4
3007N	14	61	.1	11	3	2
3006N	12	64	.2	11	3	2
3005N	10	57	.1	12	3	2
3004N	23	76	1.0	16	2	1
3003N	12	60	.1	9	2	2
3002N	13	59	.2	10	2	1
3001N	15	67	.3	13	2	2
3000N	12	60	.2	30	2	5
10+00E 0+00E	5	97	.1	10	2	4
10+00E 0+50E	9	94	.1	14	3	1
10+00E 1+00E	4	105	.1	12	2	1
10+00E 1+50E	10	71	.1	7	2	2
10+00E 2+00E	4	70	.1	9	3	4
10+00E 2+50E	13	90	.1	10	2	5
10+00E 3+00E	12	122	.1	16	2	2
10+00E 3+50E	20	116	.1	17	2	1
10+00E 4+00E	19	99	.2	19	2	1
10+00E 4+50E	15	86	.1	12	2	5
10+00E 5+00E	8	82	.2	11	2	6
10+00E 5+50E	7	81	.1	10	2	3
10+00E 6+00E	7	63	.1	7	2	6
10+00E 6+50E	12	73	.2	11	2	3
10+00E 7+00E	12	71	.1	12	3	2
10+00E 7+50E	14	70	.1	12	2	1
10+00E 8+00E	12	75	.1	7	2	2
10+00E 8+50E	6	75	.1	7	2	4
10+00E 9+00E	10	56	.1	7	2	1
10+00E 9+50E	16	58	.3	8	2	1
10+00E 10+00E	11	54	.1	9	3	5
10+00E 10+50E	10	49	.1	8	2	3
10+00E 11+00E	9	41	.1	7	2	5
10+00E 11+50E	16	61	.1	11	3	2
10+00E 12+00E	11	52	.1	16	2	3
STD C/AU 0.5	38	132	7.0	39	14	475

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
10+00N 12+50E	18	60	.2	18	2	23
10+00N 13+00E	20	64	.3	21	2	22
10+00N 13+50E	17	56	.1	21	3	5
10+00N 14+00E	14	43	.2	19	2	7
10+00N 14+50E	13	51	.2	27	2	16
10+00N 15+00E	12	60	.2	23	2	1
10+00N 15+50E	13	42	.1	10	3	13
10+00N 16+00E	14	48	.1	18	2	230
10+00N 16+50E	15	56	.2	17	2	2
10+00N 17+00E	16	52	.1	18	2	46
10+00N 17+50E	11	48	.2	19	2	10
10+00N 18+00E	20	51	.2	21	2	4
10+00N 18+50E	17	63	.8	46	2	3
10+00N 19+00E	21	65	.3	52	2	14
10+00N 19+50E	24	55	.4	51	2	3
10+00N 20+00E	21	68	.5	49	2	2
10+00N 20+50E	26	68	.5	53	3	14
10+00N 21+00E	27	65	.6	33	2	55
10+00N 21+50E	17	47	.3	28	2	3
10+00N 22+00E	24	75	.4	40	2	42
10+00N 22+50E	28	58	.8	40	4	17
10+00N 23+00E	14	61	.3	23	2	2
10+00N 23+50E	13	35	.1	19	2	3
10+00N 24+00E	14	62	.3	20	2	12
10+00N 24+50E	14	50	1.4	17	3	7
10+00N 25+00E	22	62	.1	23	2	6
10+00N 25+50E	21	76	.2	30	3	2
10+00N 26+50E	19	71	.3	22	2	7
10+00N 27+00E	15	70	.3	24	3	9
6+00N 0+50E	16	88	.2	17	2	2
6+00N 1+00E	10	65	.1	12	2	7
6+00N 1+50E	10	55	.1	9	2	13
6+00N 2+00E	23	101	.2	22	3	10
6+00N 2+50E	14	66	.3	8	2	2
6+00N 3+00E	21	87	.3	17	2	2
6+00N 3+50E	17	83	.1	18	2	16
STD C/AU-0.5	38	134	7.0	40	15	485

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
6+00N 4+00E	14	87	.3	8	2	1
6+00N 4+50E	6	73	.1	9	2	3
6+00N 5+00E	13	88	.3	14	2	1
6+00N 5+50E	13	92	.3	11	2	2
6+00N 6+00E	13	67	.2	10	2	2
6+00N 6+50E	11	100	.1	15	2	1
6+00N 7+00E	9	77	.3	8	2	1
6+00N 7+50E	19	71	.4	12	2	1
6+00N 8+00E	15	78	.7	11	2	1
6+00N 8+50E	14	64	.3	10	2	7
6+00N 9+00E	10	63	.2	21	2	3
6+00N 9+50E	25	81	.7	58	2	2
6+00N 10+00E	28	72	.3	63	2	75
6+00N 10+50E	23	61	.3	103	2	4
6+00N 11+00E	22	50	.2	26	3	3
6+00N 11+50E	18	41	.1	19	2	1
6+00N 12+00E	13	25	.3	10	3	1
6+00N 12+50E	25	49	.4	23	2	1
6+00N 13+00E	21	53	.2	28	3	4
6+00N 13+50E	17	56	.1	17	2	2
4+00N 4+00E	13	65	.1	14	2	3
4+00N 5+00E	12	69	.2	15	2	14
4+00N 5+50E	16	71	.2	13	2	2
4+00N 6+00E	12	91	.5	19	2	4
4+00N 6+50E	21	104	.1	21	2	1
4+00N 7+50E	30	81	.3	35	2	5
4+00N 9+50E	99	58	6.2	121	2	6
4+00N 10+00E	80	167	1.2	259	3	10
4+00N 10+50E	27	53	.3	35	3	1
4+00N 11+00E	28	48	.7	29	3	2
4+00N 11+50E	20	52	.1	21	2	7
4+00N 12+00E	30	40	.3	23	2	4
4+00N 12+50E	29	54	.2	29	2	8
4+00N 13+00E	36	57	.6	27	3	1
4+00N 13+50E	39	63	.3	44	2	1
2+00N 0+00E	17	65	.2	14	2	1
STD C/AU-0.5	41	137	6.9	39	14	500

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
2+00N 1+00E	11	86	.2	4	2	3
2+00N 2+50E	11	67	.1	12	2	5
2+00N 3+00E	20	71	.1	12	2	7
2+00N 3+50E	12	69	.2	10	2	5
2+00N 4+50E	15	63	.3	10	2	3
2+00N 5+00E	18	62	.2	12	2	7
2+00N 5+50E	11	69	.1	11	2	4
2+00N 6+00E	15	87	.2	12	2	44
2+00N 6+50E	14	67	.1	12	2	11
2+00N 7+50E	34	85	.2	106	2	12
2+00N 8+50E	84	110	.5	208	3	18
2+00N 9+50E	57	82	.7	231	2	4
2+00N 10+00E	36	68	.7	117	2	9
2+00N 11+00E	47	72	1.1	57	3	32
2+00N 11+50E	33	72	.5	50	2	20
2+00N 12+00E	152	99	9.5	171	6	85
2+00N 12+50E	37	74	1.0	47	2	26
2+00N 13+00E	49	77	1.2	140	2	13
2+00N 13+50E	52	94	.7	107	2	20
0+00N 0+00E	19	90	.2	15	2	6
0+00N 0+50E	18	90	.3	15	2	4
0+00N 1+00E	20	92	.2	11	2	6
0+00N 1+50E	23	89	.3	12	2	10
0+00N 2+00E	10	73	.2	11	2	4
0+00N 2+50E	9	70	.2	7	2	2
0+00N 3+00E	12	76	.3	9	2	1
0+00N 4+00E	12	65	.2	9	2	2
0+00N 4+50E	14	69	.3	13	2	5
0+00N 5+00E	16	60	.3	15	2	1
0+00N 5+50E	17	71	.3	17	2	2
0+00N 6+50E	30	74	.8	51	2	2
0+00N 8+00E	51	109	.4	120	2	7
0+00N 8+50E	147	242	1.0	292	3	38
0+00N 9+00E	132	308	2.7	468	4	110
0+00N 9+50E	79	138	.6	143	4	14
0+00N 10+00E	28	52	.4	37	2	95
STD C/AU-0.5	39	135	7.1	39	15	480

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
0+00N 10+50E	48	86	.4	58	2	8
0+00N 11+00E	59	73	.6	55	2	19
0+00N 11+50E	35	45	.7	39	2	2
0+00N 12+00E	44	91	.4	65	2	5
0+00N 13+00E	80	127	.8	97	4	10
0+00N 13+50E	137	139	1.1	183	2	4
STD C/AU-0.5	38	136	7.1	37	13	490
		30	4	23	1	16

BENNETT LAKE

Approximate Claim Group Perimeter

(to Carcross)

Qs

KTgd

JL

uRLw

Tr

Abandoned

McDonald Creek

BRUTE MTN

argillite

conglomerate, massive

argillite, quartzite, massive

× 432029 / 4, .2, .4, 36, 4, 2

× 432030 / 14, .5, .210, 55, 7, .2

75 fine grained black argillite

80 fine grained hornfelsed sediments

40 hornfelsed conglomerate

40 well-bedded

37 meta-argillite

42 argillite

4m wide rhyolite dike porphyritic, flow-banded

80 interbedded argillite, quartzite

431031 / 1, .1, 14, 13, 5, .2

78 conglomerate with interbedded argillite

432032 / 1, .1, 4, 1, 2, .2

80 finely laminated argillite minor granodiorite clasts

× 432033 / 1, .1, 5, 66, 2, .2

× 432034 / 8, .1, 5, 23, 3, .2

82 argillite

G 421073 / 2, .2, 16, 7, 20, .2

411114 / 8, .1, 4, 9, 11, .2

421074 / 35, .3, 10, 19, 1778, 42

76 block meta-argillites

Approximate Claim Boundary Perimeter

N

31° magnetic north

LEGEND

LITHOLOGIES

QUATERNARY

Qs surficial deposits

TERTIARY

Tr rhyolite dikes

LATE CRETACEOUS - TERTIARY

KTgd granodiorite

JURASSIC

JL LABERGE GROUP; argillite, arkose, quartzite, conglomerate; and metamorphic equivalents.

TRIASSIC

uRLw LEWES RIVER GROUP; andesite, basalt, limestone, limestone breccia, pyroclastics.

SYMBOLS

- attitude of structure, bedding
- attitude of foliation
- approximate lithologic contact
- × rock sample, float
- + rock sample, outcrop
- 432029/4, .2, .2, 4, 4, 36 sample number / Au (ppb), Ag (ppm), Pb (ppm), Zn (ppm), As (ppm), Sb (ppm)
- 4400 elevation contour; interval 100 ft. A.S.L.
- streams, creeks
- lakes, ponds
- swamp
- dirt road
- cart track
- narrow gauge railway
- power line
- mill, mine
- landslide
- airphoto lineament } from 1:20,000 scale color aerial photographs
- G gossan

Notes - all locations subject to survey
- lithological distributions modified after Wheeler, 1961, and Roots, 1981
- additions from fieldwork, August, 1985 and airphoto interpretation
- topography modified after NTS 105 D/2

091812

200 100 0 200 400 600

SCALE IN METRES

OMNI RESOURCES INC.

AFI 45-182 CLAIMS

MONTANA MOUNTAIN AREA, YUKON

GEOLOGY and LITHOGEOCHEMISTRY

Aurum Geological Consultants Inc.			APRIL, 1986
NTS 105 D/2	Drawn by H.K., N.H.	Scale 1:10,000	FIGURE 3

BENNETT LAKE

Approximate Claim Group Perimeter

(to Carcross)

McDonald Creek

McDonald Creek

BRUTE MTN

Abandoned

Abandoned

Abandoned

± 3330

L 10+00N

L 6+00N

L 4+00N

L 2+00N

L 0+00

L 2+50E

L 6+27E

L 10+02

0+00

2+00E

4+00E

6+00E

8+00E

10+00E

12+00E

14+00E

16+00E

18+00E

20+00E

22+00E

24+00E

26+00E

LEGEND

- soil sample location, flanked by analytical results
- stream sediment sample location, followed by analytical results
  - elemental order
    - Au(ppb)
    - Ag(ppm)
- x anomalous value
  - Au ≥ 25 ppb
  - Ag ≥ 1.4 ppm
- elevation contour ; interval 100 ft.
- streams, creeks
- lakes, ponds
- swamp
- dirt road
- cart track
- narrow gauge railway
- power line
- mill ; mine

091812

200 100 0 200 400 600

SCALE IN METRES

OMNI RESOURCES INC.

AFI 45-182 CLAIMS

MONTANA MOUNTAIN AREA, YUKON

GEOCHEMICAL RESULTS

Au & Ag

Aurum Geological Consultants Inc.			APRIL, 1986
NTS 105D/2	Drawn by H.K., N.H.	Scale 1:10,000	FIGURE 4

Approximate Claim Group Perimeter

BENNETT LAKE

MacDonald Creek

McLeod Creek

BRUTE MTN

(to Carcross)

Abandoned

± 3330

L 10+00N

L 8+00N

L 6+00N

L 4+00N

L 2+00N

L 0+00

L 13+50E

L 10+00

LEGEND

- ⊙ soil sample location, flanked by analytical results
- ○ stream sediment sample location, followed by analytical results
  - elemental order
    - Pb (ppm)
    - Zn (ppm)
    - As (ppm)
    - Sb (ppm)
- X anomalous value
  - Pb ≥ 50 ppm
  - Zn ≥ 100 ppm
  - As ≥ 60 ppm
  - Sb ≥ 5 ppm
- elevation contour ; interval 100 ft.
- streams, creeks
- lakes, ponds
- swamp
- dirt road
- cart track
- narrow gauge railway
- power line
- mill ; mine

091812

200 100 0 200 400 600

SCALE IN METRES

OMNI RESOURCES INC.

AFI 45-182 CLAIMS

MONTANA MOUNTAIN AREA, YUKON

GEOCHEMICAL RESULTS

Pb – Zn – As – Sb

Aurum Geological Consultants Inc.			APRIL, 1986
NTS 105 D/2	Drawn by H.K., N.H.	Scale 1:10,000	FIGURE 5