

PROSPECTING AND GEOCHEMICAL REPORT

JAN CLAIMS 1 - 12, 15
1 - 8 YB36985 - YB36992
9 - 12 YB32976 - YB32979
15 YB32980



NTS 105 D/9 60 31' 134 15'

'093139

WORK AND REPORT DONE BY G. RUSHANT

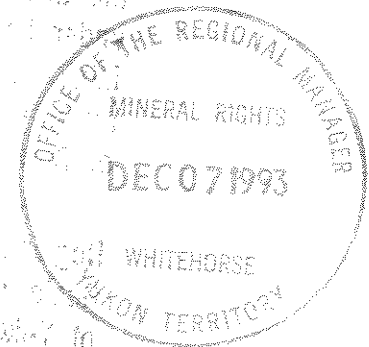
AUGUST 15 - AUGUST 21, 1993

CLAIMS OWNED BY:

G. RUSHANT

BOX 6

CARCROSS, YUKON



R. BERDAHL

P.O. BOX 5664

WHITEHORSE, YUKON

DATE DUE

[Empty rectangular box for date due]

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
reproduction work in the amount
of \$3,000.


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

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APPENDIX

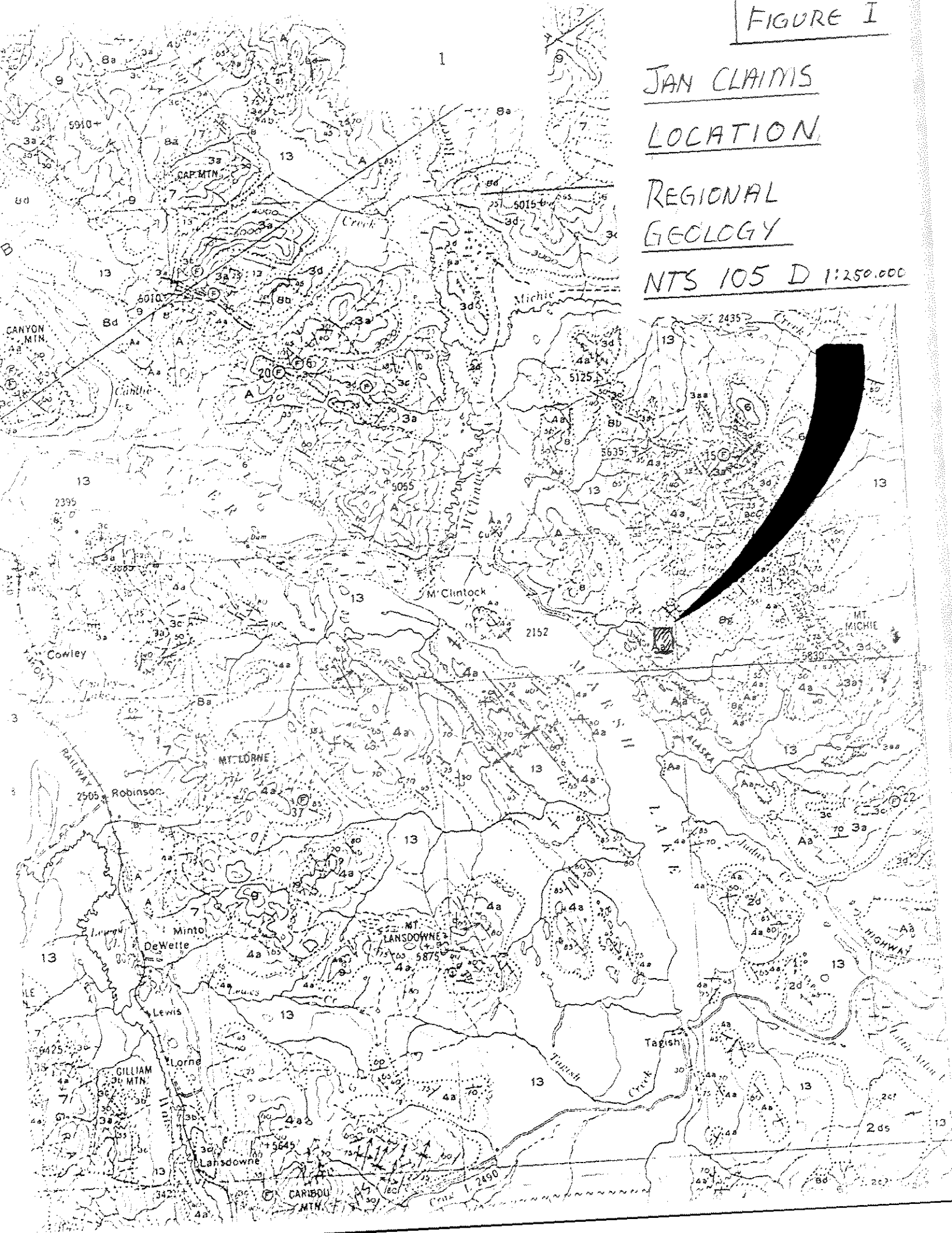
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FIGURE I

JAN CLAIMS
LOCATION

REGIONAL
GEOLOGY

NTS 105 D 1:250,000



2 LEGEND

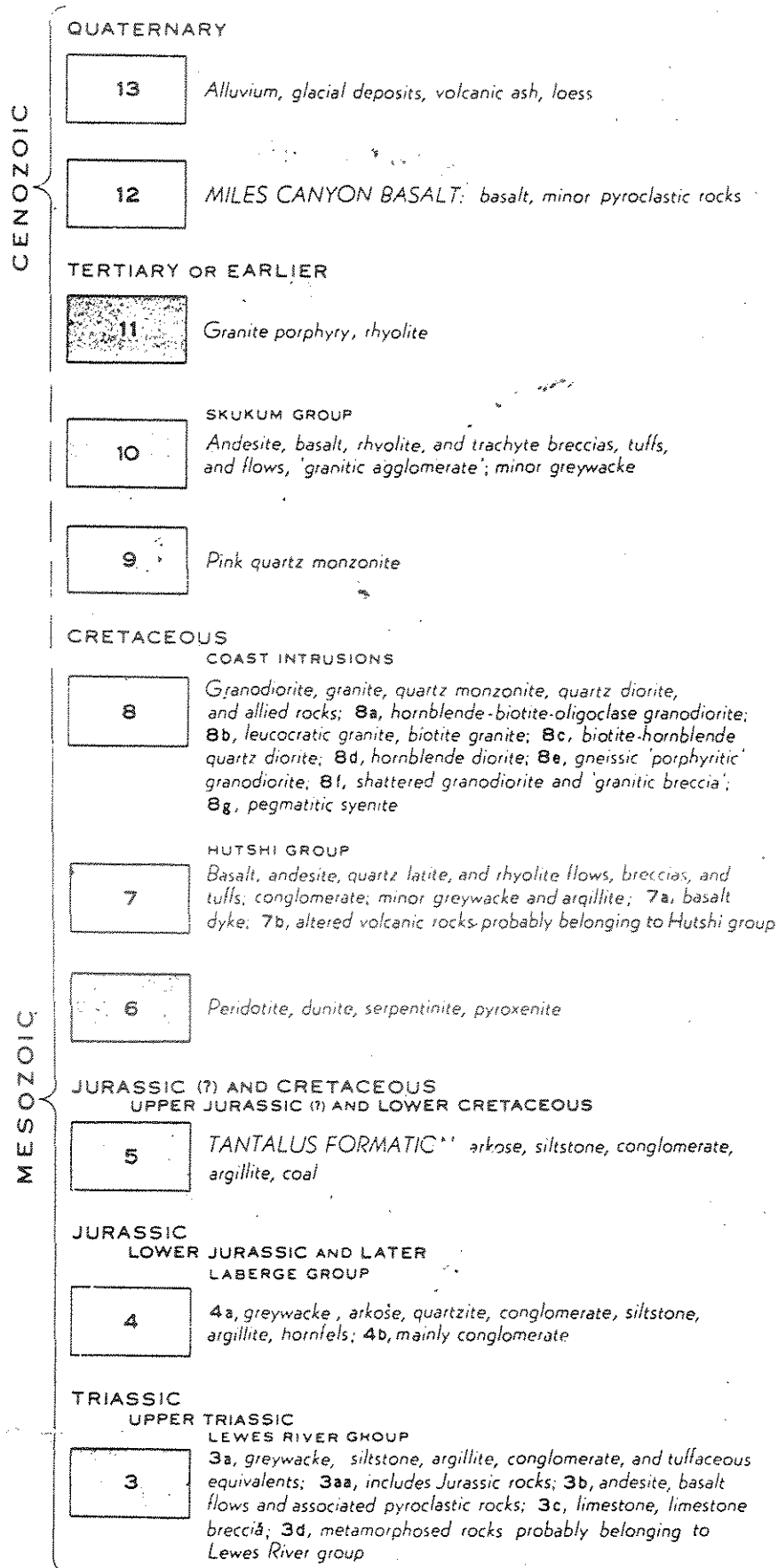


FIGURE 1 B

PALÆOZOIC

PENNSYLVANIAN (?) AND PERMIAN TAKU GROUP

2 2a, mainly chert; 2b, greenstone flows and pyroclastic rocks; 2c, limestone, limestone breccia; 2d, metamorphosed volcanic rocks, probably belonging to Taku group; 2ds, metamorphosed volcanic rocks containing numerous serpentine bodies

PRECAMBRIAN AND LATER

YUKON GROUP

1a, Quartz-mica, quartz-chlorite, and mica schists; quartzite, micaceous quartzite, gneiss, and amphibolite; 1b, feldspathic gneiss, gneissic granitic rocks, lit-par-lit gneiss; 1c, crystalline limestone



Volcanic rocks of uncertain age; Aa, metamorphosed volcanic rocks

- Bedding (horizontal, inclined, vertical, overturned)..... + y x f
- Bedding (dip known, top of bed unknown)..... / \
- Schistosity, gneissosity (inclined, vertical)..... / \
- Slaty cleavage (inclined, vertical)..... / \
- Fault (defined approximate, assumed)..... ~~~~~
- Anticline (arrow indicates direction of plunge)..... ——— ↘ ———
- Syncline (arrow indicates direction of plunge)..... ——— ↙ ———
- Fossil locality..... 23 ⊙
- Mine..... 15 ✕
- Mineral occurrence..... 16 ✕
- Placer deposit..... ✕

SYMBOLS FOR METALS AND MINERALS

Antimony..... Sb	Gold..... Au
Coal..... Coal	Lead..... Pb
Copper..... Cu	Silver..... Ag
Fluorite..... Fl	Zinc..... Zn

Geology by J. G. Fyles, 1946; J. R. Johnston, 1947; and J. O. Wheeler, 1948-1951

To accompany G.S.C. Memoir 312 by J. O. Wheeler

Approximate magnetic declination 31° 16' East

Base-map compiled by the Topographical Survey, 1947

Cartography by the Geological Survey of Canada, 1960

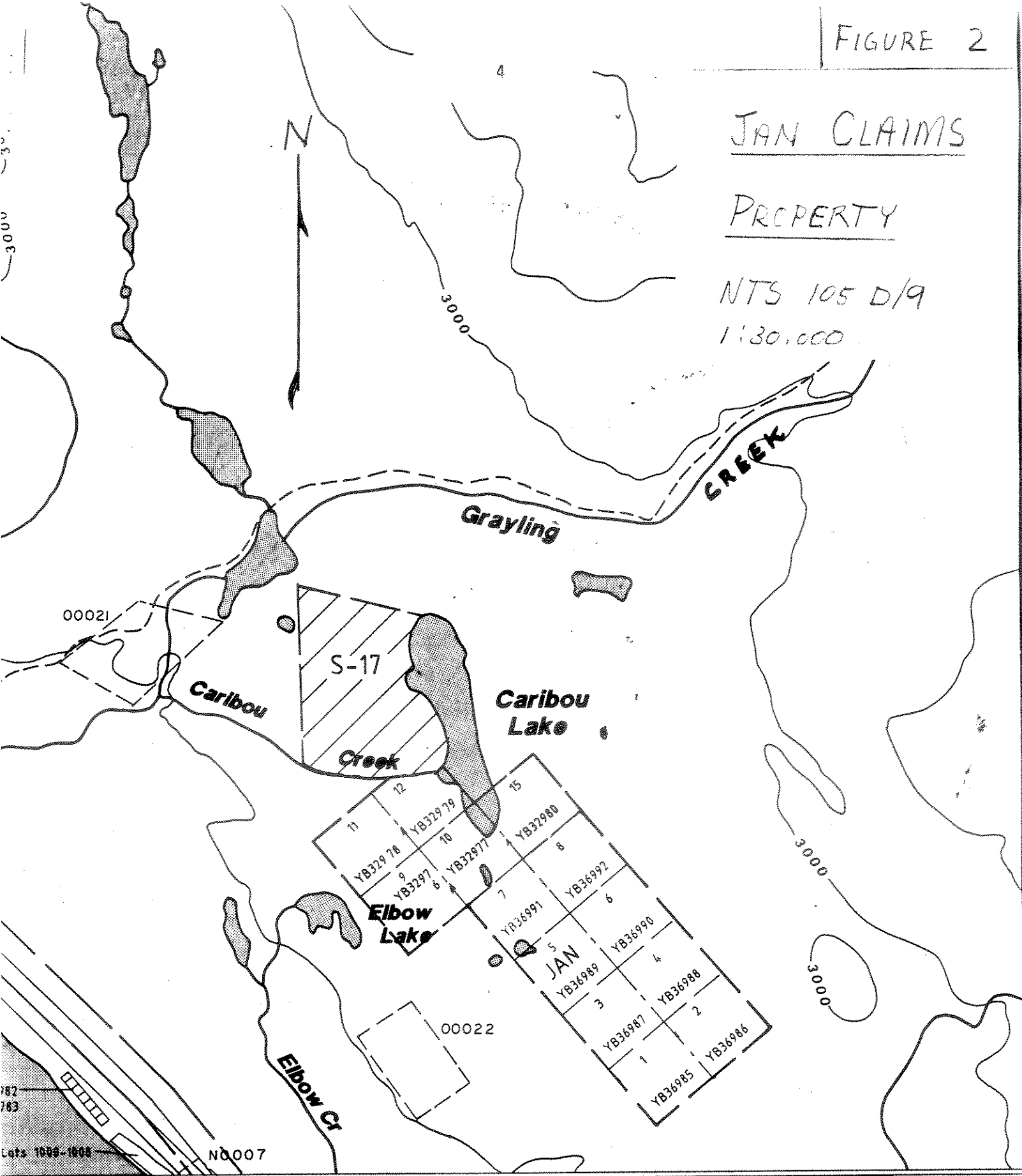
Air photographs covering this map-area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario

JAN CLAIMS

PROPERTY

NTS 105 D/9

1:30,000



15'
105D-9

INTRODUCTION

This report covers work done over a period of seven days on 13 JAN claims which were staked in August, 1992. It was assisted by the YMIP Target Evaluation Program, #93-091.

The project consisted of reconnaissance prospecting and geochemical survey to follow up results of previous work and airborne Mag/EM anomalies SW of Caribou Lake.

HISTORY

Exploration for gold has taken place in recent years along a major NW trending structure paralleling Marsh Lake; notably the Rossbank property 15 km NW and the Bug claims 15 km SE. An airborne EM, Mag survey was done over this trend in 1968 by Prado Explorations Ltd. This was followed up by ground IP, EM and soil sampling around Caribou Lake. The results were inconclusive. The NW part of the JAN claims cover some of the EM and Mag anomalies. Grassroots prospecting was done by G. Rushant in 1992 - YMIP #92-048. Gold and arsenic anomalies in soil, possibly coincident with geophysical anomalies, led to the staking of the JAN claims.

ACCESS AND TERRAIN

The property is located several kilometres east of the Alaska Highway. A tote road from the highway to Michie Lake passes by the north end of Caribou Lake; it is currently passable by ATV.

The terrain is of low, rounded hills with swamp or lake occupying lower ground. Elevation ranges from 2600 to 2900 feet. The area is treed with aspen, spruce and pine. Ground cover is of average density boreal shrubs. There is approximately one to two

percent outcrop on the property; most of it is mantled with glacial till and sediment from .5 m to unknown depths. Striation on bedrock at one location was 355°.

GEOLOGY

The rocks in the area were mapped as unit Aa, metamorphosed volcanic rocks of uncertain age, by J.O. Wheeler in 1951. The most abundant rock seen in outcrop is meta-volcanic. It is black, fine grain, quartz rich, gneissic, sheared to folded, variably graphitic and locally rusty. Occurring within this unit and at contacts are; a grey silicic aphanitic rock; a grey, green fine to medium grain greenstone; and a biotite, sericite schist.

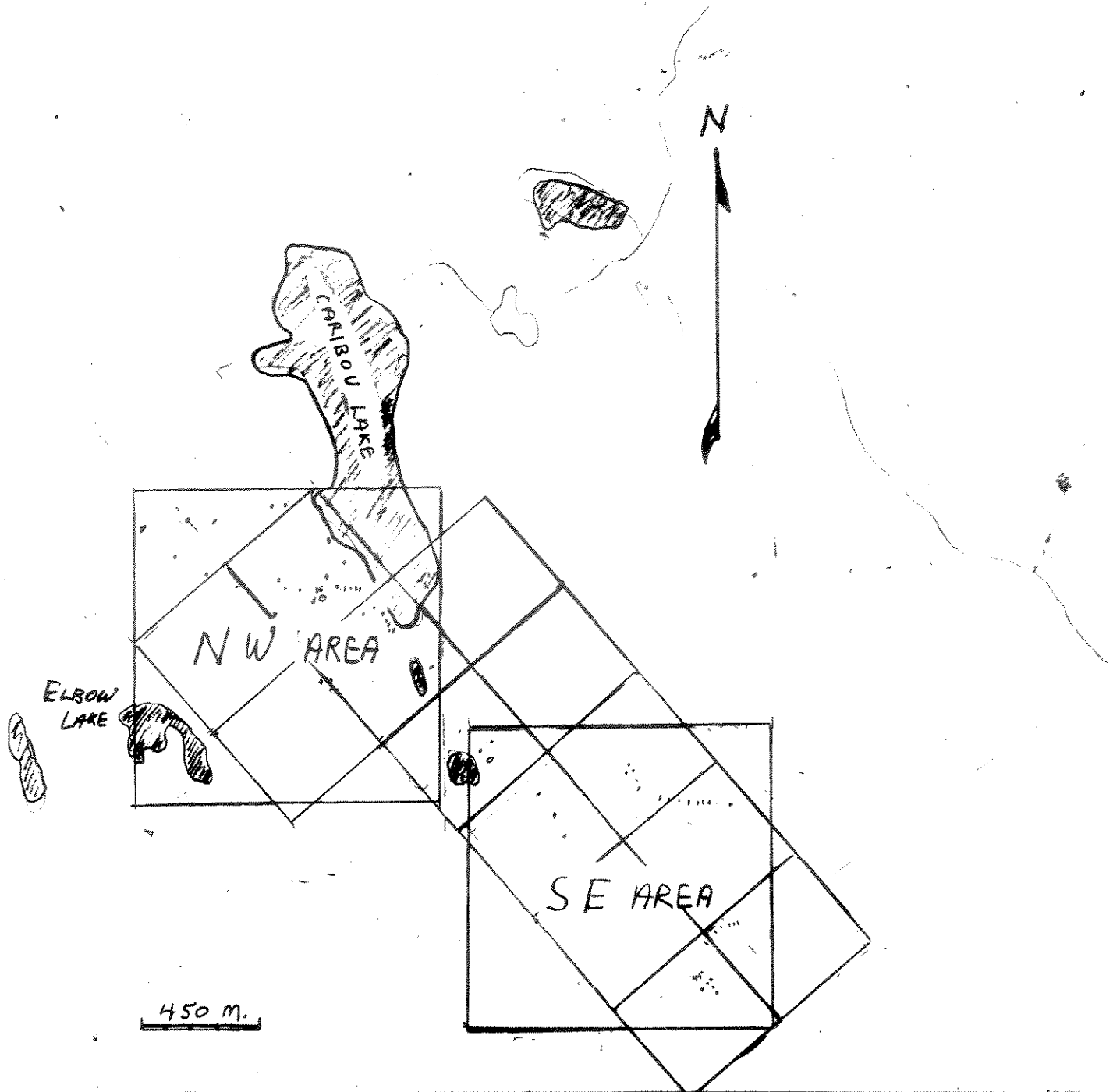
There are outcrops of serpentinite with magnetite veinlets on the SW end of the claims. Their contact with the meta volcanics appears to be along N-NW trending shears. SW of Caribou Lake there are minor shale, argillite and greywacke outcrops. The argillite is sheared, variably carbonatized, rusty and graphitic.

A fine to medium grain feldspathic, hornblende phytic intrusive occurs to the E-SE of the claims. It is in contact with meta-volcanics along an easterly trend. Minor amounts of a fine to medium grain, grey, volcanic rock (gabbro) also occur along this trend. It is locally listwaenitized (silicified, carbonatized with mariposite) or bleached.

The major structural trends on the property are N to NW, as seen on air photos, linear features on the ground and in shearing of the rocks. Other structure, shearing and geologic contact, is E to NE trending.

JAN CLAIMS

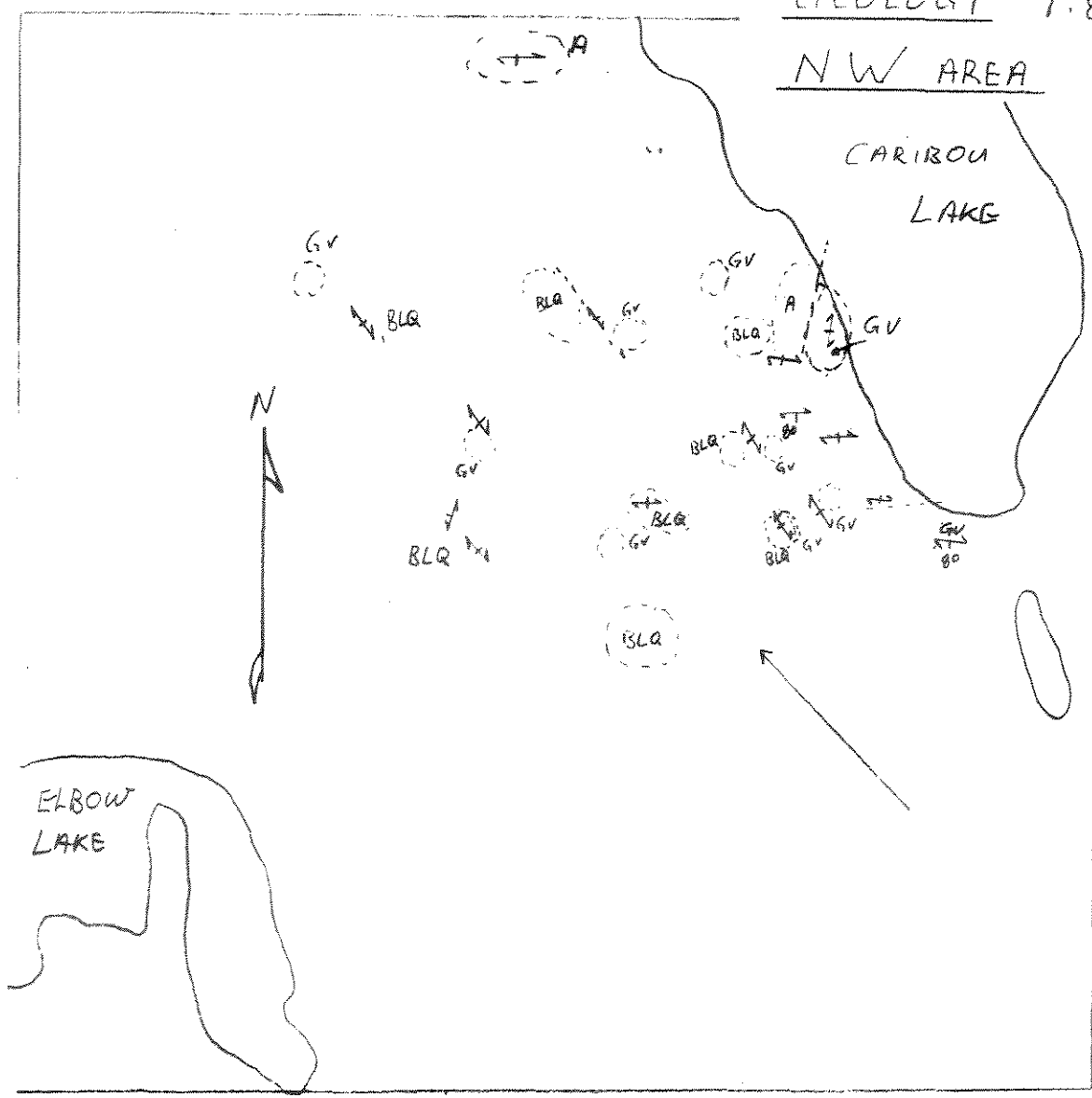
KEY TO 1:8000
GEOLOGY AND
LOCATION MAPS



JAN CLAIMS

GEOLOGY 1:8000

NW AREA



LITHOLOGIES

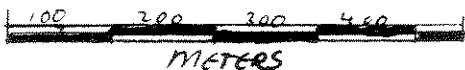
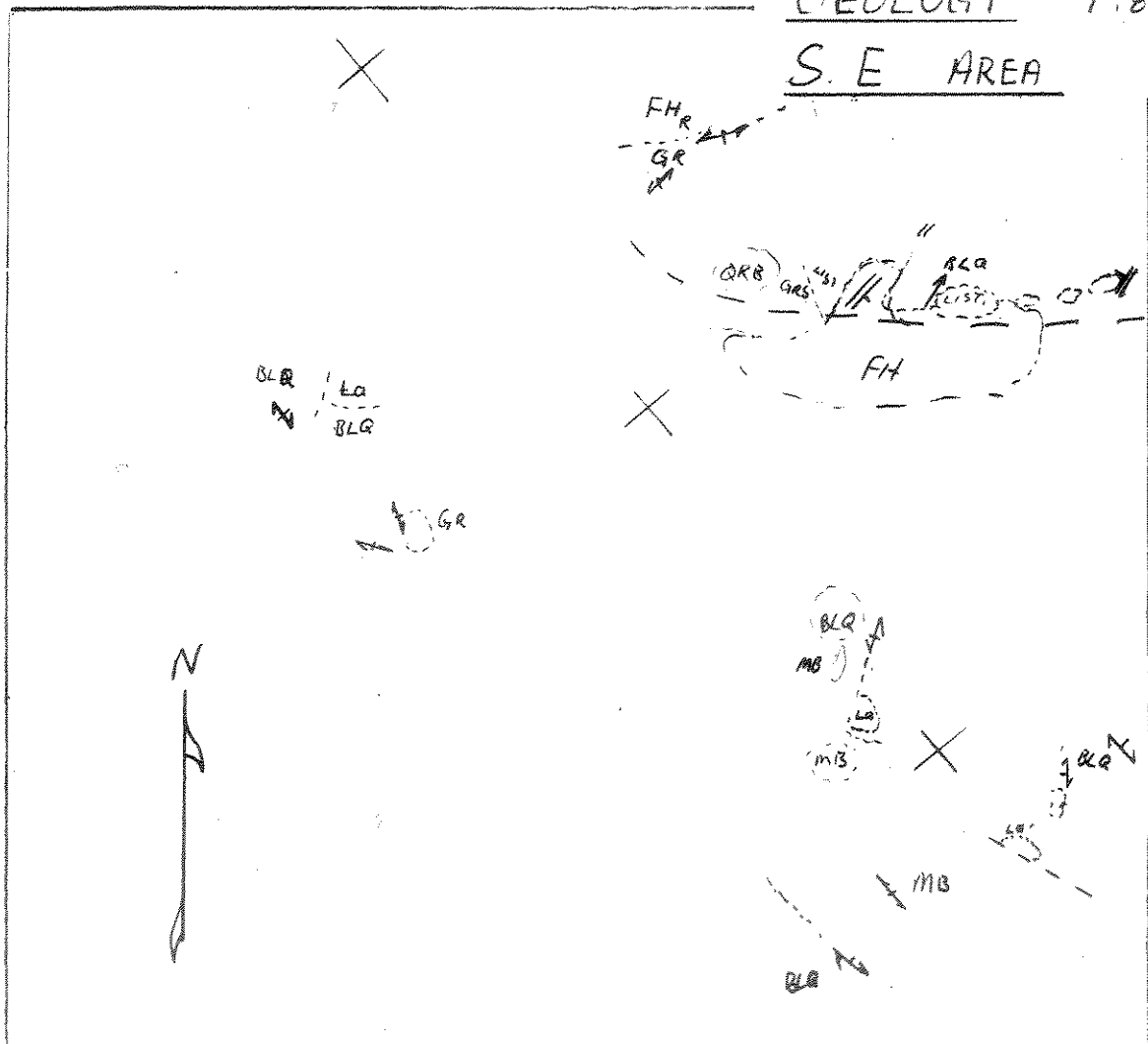
↔ SHISTOSITY

← GENERAL TREND OF GULLIES - GEOLOGICAL STRUCTURE

BLQ - BLACK FINE GRAIN META VOLCANIC
 HARD, VARIABLY Qtz RICH -
 SUCROSIC BLCBS → GNEISSIC FOLDED
 SHISTOSITY GENERALLY N-NW

GV - GREY GREEN VOLCANIC FINE GRAIN
 MED. HARD

A - DARK GREY TO BLACK SHALE (ARGILLITE)

JAN CLAIMSGEOLOGY 1:8000S. E AREA

- BLQ - META VOLCANIC
- BLACK, FINE GRN, QTZ
RICH, BLEBS + RODS,
SCHISTOSE TO FOLDED
- MB FINE GRAIN - GREENISH
BLACK VOLCANIC - CUT BY
MAGNETITE STRINGERS
- GR. GREENSTONE
- La BIOTITE SCHIST
- FH FELDSPAR HORNBLENDE
PORPHYRY 'R' - RUSTY

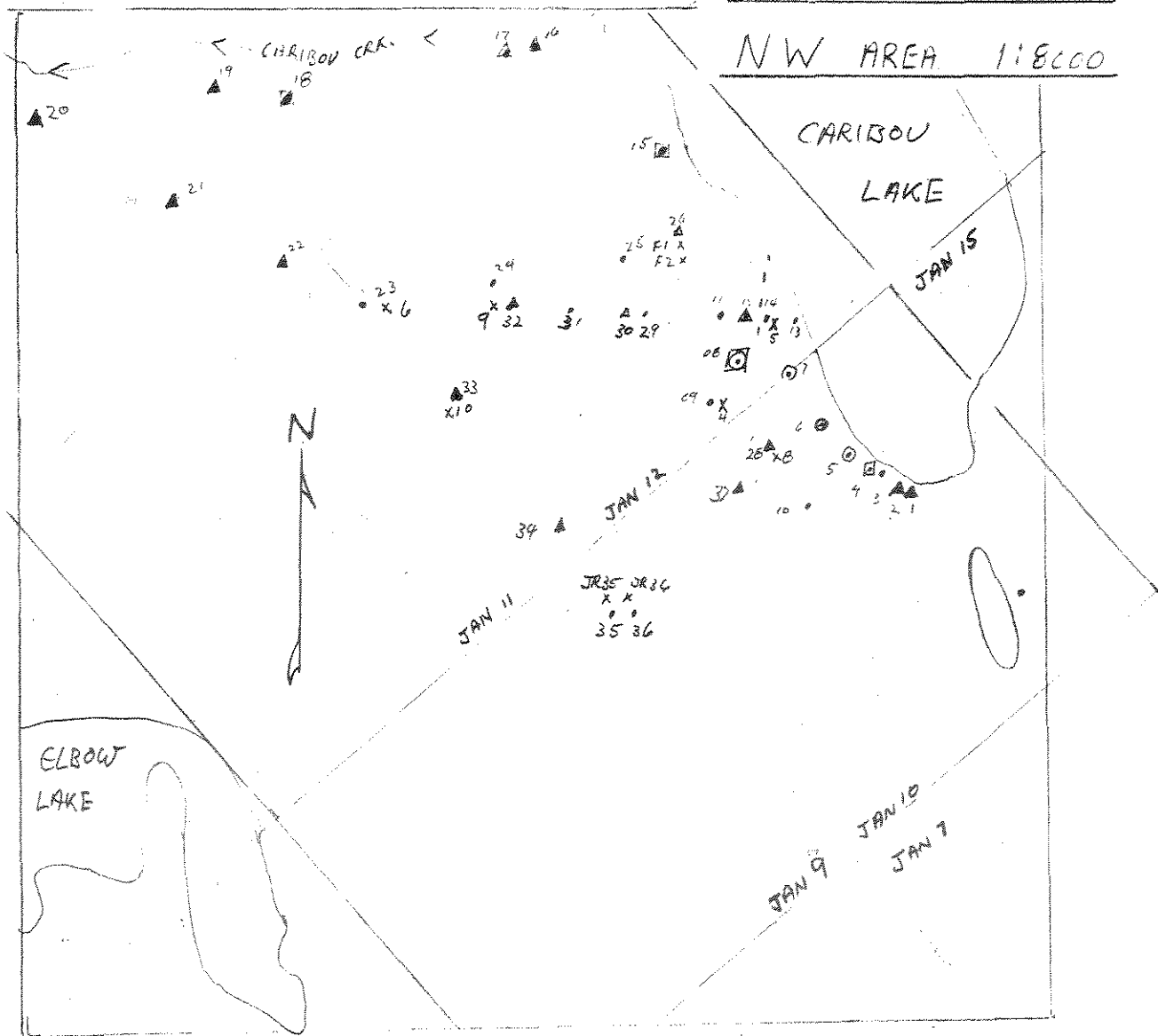
Pyritic, graphitic, quartz veining, mostly stringers or breccia, occurs in N trending shears in meta volcanics. Quartz and quartz carbonate mariposite stringers and vein float material, occur with an E to NE trending contact of the feldspathic intrusive and volcanics.

GEOCHEMISTRY

Rock and soil samples collected were analyzed by NAL of Whitehorse. All samples were analyzed for: gold by fire assay, atomic absorption analysis finish, and analysis for silver, copper, lead, zinc, arsenic and antimony, also by atomic absorption. Sample locations and anomalies appear on the accompanying maps. Sample descriptions and lab reports are presented in Appendix A. An effort was made to collect soil samples from residual or basal till horizons in areas of thinner overburden. However, some samples were of glacially moved fines; these are shown on the maps.

Two areas show anomalous values in soil. Near the SW shore of Caribou Lake, four samples of residual material related to graphitic, carbonatized, argillatious, east trending shears returned mildly anomalous multi-element values, one with 800 ppb gold. On the east side of the property, soil samples from along an east trending contact between meta-volcanics and a feldspathic intrusive are anomalous in Cu, Pb, Zn, As and Sb, with gold values to 257 ppb. Rock samples testing quartz and breccias, mostly from N trending shears and contacts, showed no anomalous values. On the east side intrusive/volcanic contact area, quartz, carbonate +/- mariposite vein material has elevated As and Sb. One sample of

JAN CLAIMS
 SAMPLE LOCATION
 NW AREA 118000

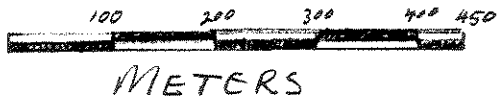
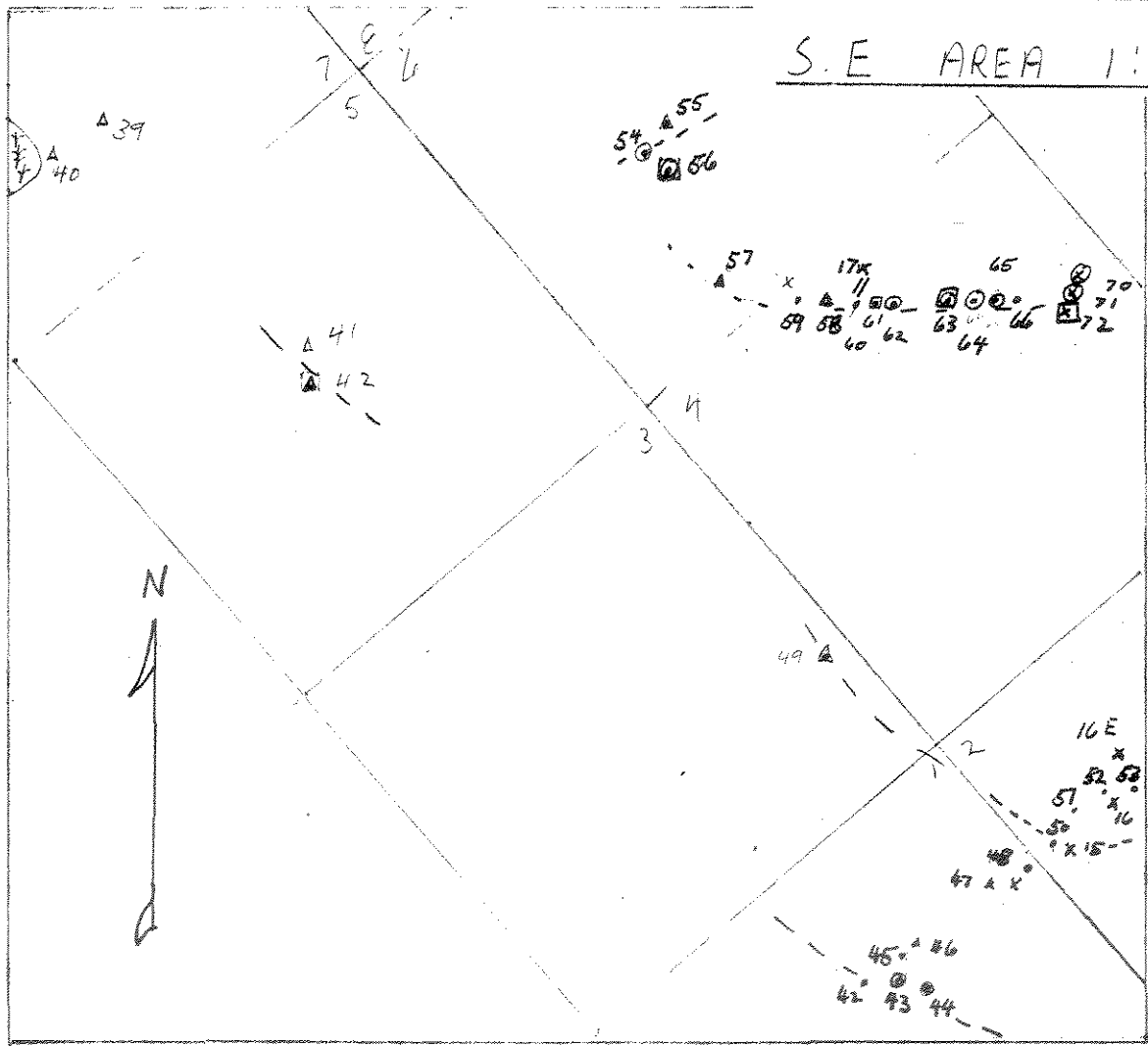


- SOIL SAMPLES - SJ
- RESIDUAL AND/OR
BASAL TILL - - - - - ●
- GLACIAL - FINES - - - - - ▲
- ROCK SAMPLE - JR - - - - - x
- ANOMALOUS AU - - - - - □
- ANOMALOUS CU PB ZN AS - - - - - ○

JAN CLAIMS

SAMPLE LOCATION

S.E. AREA 1:8000



LEGEND

- SOIL SAMPLES - SJ, GS
- RESIDUAL AND/OR BT - - - - - •
- GLACIAL - - - - - ▲
- ROCK SAMPLES - JR - - - - - x
- ANOMALOUS AU - - - - - □
- ANOMALOUS
CU PB ZN AS +/- SB - - - - - ○
- GEOLOGIC CONTACT - - - - - - - - - - -

quartz carbonate vein material has a gold value of 193 ppb in conjunction with elevated Pb, As and Sb.

CONCLUSION

Overall, geochemical values are low. However, the samples from the two anomalous zones are of residual material and indicate a potential for mineralization seemingly in connection with East trending structures. Sample geochemical values from north trending structures were dead.

It is unclear whether there is any correlation between EM anomalies and economic mineralization, as there is graphite associated with anomalous and barren samples. No sampling done around the magnetic serpentinite returned anomalous values. Further work on these zones would require excavation as the structures involved are well buried.

20-Sep-93date

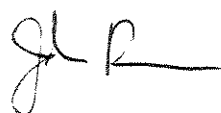
Assay Certificate

Geoff Rushant

WO 00314

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
SJ-1	21	<0.1	54	8	40	16	<2
SJ-2	32	<0.1	22	7	33	<10	<2
SJ-3	8	<0.1	60	5	44	10	<2
SJ-4	59	<0.1	46	4	35	13	<2
SJ-5	9	0.1	129	19	168	22	<2
SJ-6	31	0.5	159	29	251	25	2
SJ-7	28	<0.1	105	39	121	24	<2
SJ-8	804	0.6	144	41	119	58	3
SJ-9	12	<0.1	49	7	60	11	<2
SJ-10	19	<0.1	34	9	164	16	<2
SJ-11	7	<0.1	19	8	66	15	<2
SJ-12	9	<0.1	34	9	69	14	<2
SJ-13	13	<0.1	41	15	39	11	<2
SJ-14	12	<0.1	21	8	56	<10	<2
SJ-15	61	<0.1	48	10	22	<10	<2
SJ-16	21	<0.1	15	11	54	<10	<2
SJ-17	6	<0.1	16	11	72	13	<2
SJ-18	31	<0.1	25	6	49	<10	<2
SJ-19	18	<0.1	15	0	55	<10	<2
SJ-20	8	<0.1	20	8	40	10	<2
SJ-21	7	<0.1	18	7	42	<10	<2
SJ-22	8	<0.1	20	6	43	<10	<2
SJ-23	6	<0.1	14	5	52	10	<2
SJ-24	8	<0.1	17	9	59	<10	<2
SJ-25	9	<0.1	30	9	47	14	<2
SJ-26	7	<0.1	10	6	37	<10	<2
SJ-28	13	<0.1	22	8	53	15	<2
SJ-29	7	<0.1	16	7	54	13	<2
SJ-30	12	<0.1	59	8	52	13	<2
SJ-31	15	<0.1	19	8	99	16	<2
SJ-32	18	<0.1	19	10	46	16	<2
SJ-33	10	<0.1	23	8	37	10	<2
SJ-34	16	<0.1	33	8	40	14	<2
SJ-35	5	<0.1	30	7	46	10	<2
SJ-36	7	<0.1	50	9	65	<10	<2
SJ-37	10	<0.1	20	7	45	13	<2
SJ-38	<5	<0.1	14	6	31	10	<2
SJ-39	<5	<0.1	13	6	30	10	<2
SJ-40	5	<0.1	18	7	37	12	<2
SJ-41	7	<0.1	17	11	41	<10	<2
SJ-42	40	<0.1	30	16	47	12	<2
GS-42	15	0.2	28	13	117	<10	<2

Certified by



20-Sep-93date

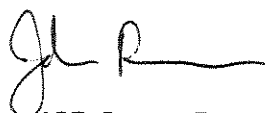
Assay Certificate

Geoff Rushant

WO 00314

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
GS-43	37	0.1	186	17	257	<10	<2
GS-44	9	<0.1	84	15	229	20	<2
GS-45	14	<0.1	35	6	45	<10	<2
GS-46	18	<0.1	28	11	46	<10	<2
GS-47	38	<0.1	23	8	33	<10	<2
GS-48	15	<0.1	25	10	43	10	<2
SJ-49	13	<0.1	28	8	46	11	<2
GS-50	12	<0.1	87	9	66	11	<2
GS-51	16	<0.1	32	9	39	10	<2
GS-52	7	<0.1	74	7	118	<10	<2
GS-53	13	<0.1	63	4	46	<10	<2
SJ-54	19	0.7	259	32	162	511	34
SJ-55	8	<0.1	49	25	94	37	<2
SJ-56	125	<0.1	492	21	118	136	2
SJ-57	7	<0.1	15	8	36	10	<2
SJ-58	11	1.7	15	17	41	119	4
SJ-59	9	<0.1	63	12	39	60	4
SJ-60	12	<0.1	69	15	67	95	2
SJ-61	53	<0.1	75	38	127	306	20
SJ-62	9	<0.1	104	33	254	215	11
SJ-63	257	<0.1	32	54	110	198	13
SJ-64	13	<0.1	144	17	195	482	46
SJ-65	6	<0.1	150	15	86	180	11
SJ-66	8	<0.1	130	13	74	68	<2
JR-93-4	11	<0.1	30	23	30	12	<2
JR-93-5	7	<0.1	21	33	60	14	<2
JR-93-6	12	<0.1	20	11	32	<10	<2
JR-93-8	7	<0.1	43	17	35	<10	<2
JR-93-9	6	<0.1	18	4	22	<10	<2
JR-93-10	8	<0.1	25	24	40	<10	<2
JR-93-15	8	<0.1	68	1	29	<10	<2
JR-93-16	7	<0.1	20	5	14	<10	<2
JR-93-16E	7	<0.1	20	6	8	<10	<2
JR-93-17	6	<0.1	12	2	23	11	<2
JR-35	23	<0.1	29	6	15	<10	<2
JR-36	10	<0.1	19	<1	19	<10	<2
JR-59	13	<0.1	9	11	29	54	6
JR-62	18	0.1	6	31	20	21	<2
JR-70	21	<0.1	74	3	31	116	6
JR-71	<5	<0.1	5	12	24	139	5
JR-72	193	<0.1	8	14	55	433	6
GR-48	7	<0.1	27	6	21	<10	<2

Certified by



20-Sep-93date

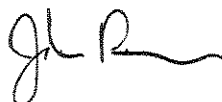
Assay Certificate

Geoff Rushant

WO 00314

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
GR-52	6	<0.1	21	4	6	<10	<2
SJ-25-F-1	11	<0.1	21	6	39	<10	<2
SJ-25-F-2	12	<0.1	10	4	13	<10	<2

Certified by



APPENDIX B

ROCK SAMPLE DESCRIPTIONS

- JR 93-4 Rusty orange to red
Quartz +/- feldspar - sucrosic
Graphitic selvages on shear surfaces
Quartz stringer 2 cm
'Matrix' wall rock 50% black fine grain - rough surface
variably graphitic - schistose
Banding between quartz
- JR 93-6 Blocky fracturing quartz veined to 2 cm and silicified -
black volcanic rock
Red stained
Slightly graphitic
Foliation 110° approximation to fracturing
Non carbonate
- JR 93-8 Dark grey - black
Silicified, quartz flooded breccia
Fine green black fragments
Rusty quartz stringers .5 mm - 1 mm
Cubic pyrite crystals with quartz
- JR 93-9 As 93-4
- JR 93-10 AS 93-4
- SJ 25 F-1 Orange brown stained limonitic quartz. Milky clear
sucrositic with wispy fracture coatings - recemented
Greyish quartz cutting milky sucrosic quartz - cut by
milky stringers 1 % graphitic selvages
Minor carbonization
- SJ 25 F-2 Red orange stained
Laminated sucrosic quartz
Black laminae to .5 mm
Minor graphitic
- JR 93-5 Very red orange stained milky quartz
Fizzy on fractures
1 % very fine laminae cutting quartz
Mostly oxidized material
- JR 93-15 Massive grey quartz
Serricitic
Limonite
- JR 93-16 Rusty weathered greyish quartz
Black crackle inclusions
Carbonatized

- JR 93-16E Rusty grey quartz
 Yellow orange weathering in some fractures
 Serricitic shear planes 1 %
 Non fizzy
 1 % black disseminated specks and blebs to 1 mm
- JR 35 Sucrosic quartz and thin black graphitic laminae
 Folded, phyllitic
 Limonitic
 Minor specks 2 % black shiny sulphide - pyrite
 Quartz - laminae 50/50
- JR 36 Clear to white to greyish quartz carbonate
 5 % graphitic blebs and bands
 Thin laminae - .05 m
 Minor vugs limonitic
- GR 52 Limonitic quartz - sucrosic white to light grey
 (greenish) to dark grey
 White powdery (serricitic) coating on break selvages
 Minor 1 % or less black specks with light quartz
- GR 48 Light grey - sucrosic quartz mixed (sheared) with black -
 brown country rock chips
 Schistose - breccia in some chips
 Minor black specks
- JR 93-17 Vein - white quartz carbonate with 50 % orange limonite
 fracture and joint surfaces
 Black material in thin joints (stringers)
 Appears sheared in 2 directions approximately 80° - 85°
 to each other
 Some banded appearance
- JR 62 Silicified - limonitic felsite rock with quartz stringers
 Minor < 1 % black specks
 Cubic cleavage
- JR 59 Quartz carbonate mariposite vein float material
 Coarse bladed
 Banded with slivers of country rock
- JR 70 Greyish quartz - massive
 5 % pyrite
 Orange yellow rusty joint and shear plane surfaces 10 -
 20 %
 Black fine grain wall rock inclusions 5 %

REFERENCES

Rushant, G. Prospecting in the Michie Creek Area, 105D/9. Yukon Mining Incentives Program, # 92-048. 1992.

Tindale, J.L., B.Sc. Airborne Electromagnetic and Magnetometer Survey in the Marsh Lake area. 1968.

Wheeler, J.O. Memoir 312: Whitehorse Map Area, Yukon Territory, 105D. Geological Survey of Canada, 1961.

STATEMENT OF QUALIFICATIONS

I, Geoff Rushant, of Box 6, Carcross, Yukon Territory, have been prospecting in the territory for five years.

I have attended prospecting courses with Yukon Chamber of Mines in 1988 and the B.C. EMPR Advanced Prospecting Course in Cowichan Lake, B.C. in 1989.

EXPENSES

Work, August 15-21,	7 days @ \$175.00 day	1,225.00
Live out	7 days @ \$52.85 day	369.95
Report		400.00
Transportation, Float plane & truck		300.00
Geochemical Analysis		1,690.87
		<hr/>
Total		\$3,985.82

Needs approval

MINFILE: 105D 068
PAGE NO: 1 of 1
UPDATED: 06/21/94

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): Oak	NTS MAP SHEET: 105 D 9
MINFILE #: 105D 068	LATITUDE: 60°31'24"N
MAJOR COMMODITIES:	LONGITUDE: 134°16'33"W
MINOR COMMODITIES:	DEPOSIT TYPE: Unknown
TECTONIC ELEMENT: Cache Creek Terrane	STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

OAK, PINE, ACE, JAN

WORK HISTORY

Staked as Oak and Pine cl (Y12711) in Apr/67 by Prado EL, which conducted an airborne mag and EM survey later that year, covering 307 square kilometres. Geochemical and IP surveys were conducted over an airborne anomaly in 1969.

Restaked as Ace cl (YB35456) by B. Patnode in Oct/90. G. Rushant staked Jan 1-8 cl (YB36985) to the southeast in Sep/92. In April/93, R. Berdahl staked further Jan cl (YB37976) and transferred them to G. Rushant. Geochemical sampling and prospecting was conducted on the Jan claims in Aug/93.

GEOLOGY

The area is underlain by metamorphosed volcanic rocks, a feldspar-hornblende porphyry and scattered occurrences of serpentinite. The dominant structures in the area trend N-NW. Alteration consists of local occurrences of listwaenite (quartz-carbonate alteration with mariposite). Stringers of quartz and breccia with pyrite occur in N-trending shears within the metavolcanics. Two geochemical anomalies are associated with east-trending structures, with assayed gold values in soil ranging up to 800 ppb.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 68-68, p. 54.

MINERAL INDUSTRY REPORT 1969-70, p. 114.

PRADO EXPLORATION LTD, Mar/68. Assessment Report # #019593 by J.L. Tindale & G.W. Sander.

RUSHANT AND BERDAHL, Aug/93. Assessment Report #093139 by G. Rushant and R. Berdahl.