Vince original in Cone Assessment File

sherritt

December 20, 1982

52C10NE0073 2.5427 BAD VERMILION LAKE

010

The following projects have been charged $3.09 per determination from the following samples. The determinations for each sample were Au, Ag, Cu, Pb and Zn.

1373 - CONE FOLEY

Sample Number	Number of Samples
1101-1128	28
1134-1255	122
1281-1403	123
1430-1500	71
2401-2499	99
2600-2639	40
TOTAL:	483

483 x 5 x $3.09 = $7,462.35 *

1374 - CONE GENERAL

569-600	32
1501-1510	10
1531	1
1542-1591	50
1612-1638	29
1659-1745	87
TOTAL:	209

209 x 5 x $3.09 = $3,299.05

1377 - DECCA PROPERTY

1424-1429	6
1746-1757	12
2650-2699	50
TOTAL:	68

68 x 5 x $3.09 = $1,050.60

Yours truly,

SHERRITT GORDON MINES LIMITED

William N. Woods

William N. Woods
Planning & Projects Accountant

Vil.

WNW/km

Sherritt Gordon Mines Limited/Mining and Milling Division
Ruttan Operation
P.O. Box 1000, Leaf Rapids, Manitoba, Canada R0B 1W0/Telex: 0766-4590/Tel.: (204) 473-2415

sherritt

Visier original in Cone Assessment File

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Yours truly,
SHERRITT GORDON MINES LIMITED

William N. Woods

William N. Woods
Planning & Projects Accountant

WNW/km

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.4-82 19

Sherritt Gordon Mines Ltd.,

Dryden, Ont.

Nov.4th

72 assays for au & ag @ $10.00 ea | $720.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.10-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O. #1-925711-001

96 assays for Au & Ag @ $10.00 ea | $960.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov. 12-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O. #1-925711-001

96 assays for au & ag @ $10,00 ea	$960.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.11-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O. #1-925711-001

95 assays for au & ag @ $10.00 ea	$950.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.13-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O # 1-925711-001

64 assays for au & ag @ $10.00 ea	$640.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.15-

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O.# 1-925711-001

96 assays for au & ag @ $10.00 ea	$960.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.16-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O# 1-925711-001

96 assays for au & ag @ $10.00 ea	$960.00

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.17-82

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

96 assays for au & ag @ $10.00 ea	$960.0

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.18-82 19

Sherritt Gordon Mines Ltd.,

Dryden, Ont.

9 assays for au & ag @ $10.00 ea	$90.00	

960/567/1377

Sent Lyon 82/11/29

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.4-82 19

Sherritt Gordon Mines Ltd.,

Dryden, Ont.

Nov.4th	
72 assays for au & ag @ $10.00 ea	$720.00

960/567/1377

Rec'd Payment
JwBeck
Cochenour Fire Assaying.

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov. 10-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O. #1-925 711-001

96 assays for Au & Ag @ $10.00 ea	$960.00	

960/567/1377

Rec'd Payment.
J.W. Beck
Cochenour Fire Assaying.

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov. 12-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O. #1-925711-001

96 assays for au & ag @ $10,00 ea	$960.00

960/567/1377.

Rec'd Payment
JW Beck
Cochenour Fire assaying

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.11-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O.# 1-925711-001

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960/567/1377.

Rec'd payment.
JW Beck
Cochenour Fire assaying

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

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Box 43, Cochenour, Ont.

DATE Nov.13-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O # 1-925711-001

64 assays for au & ag @ $10.00 ea	$640.00

Rec'd payment
JW Beck
Cochenour Fire Assaying

960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

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J.W. Beck, Assayer,
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Box 723, Dryden, Ont.

P.O.# 1-925711-001

96 assays for au & ag @ $10.00 ea	$960.00

Rec'd Payment
JW Beck
Cochenour Fire assaying
960/567/1377

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.16-82 19

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

P.O# 1-925711-001

96 assays for au & ag @ $10.00 ea	$960.00

960/567/377

Rec'd Payment
JW Beck
Cochenour Fire assaying.

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov.17-82

Sherritt Gordon Mines Ltd.,

Box 723, Dryden, Ont.

96 assays for au & ag @ $10.00 ea	$960.00

960/567/1377

Rec'd payment
JwBeck.
Cochenour Fire Assaying

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

IN ACCOUNT WITH

COCHENOUR FIRE ASSAYING

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

DATE Nov. 18-82 19

Sherritt Gordon Mines Ltd.,

Dryden, Ont.

9 assays for au & ag @ $10.00 ea	$90.00	

960/567/1377

Rec'd payment in full
J W Beck
Cochenour Fire Assaying

Sent Lynn
82/11/29

ALL ACCOUNTS DUE IMMEDIATELY WHEN PRESENTED

sherritt

020

GEOLOGY REPORT

MINE CENTRE

Project No. 1367

January 27, 1983

V, Scime

Senior Exploration Geologist
Sherritt Gordon Mines Limited
Dryden, Ontario

page

IV MINE CENTRE AREA

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Cone General

Foley

Manhattan

Decca

Lucky Coon

Ferguson

McKenzie-Gray

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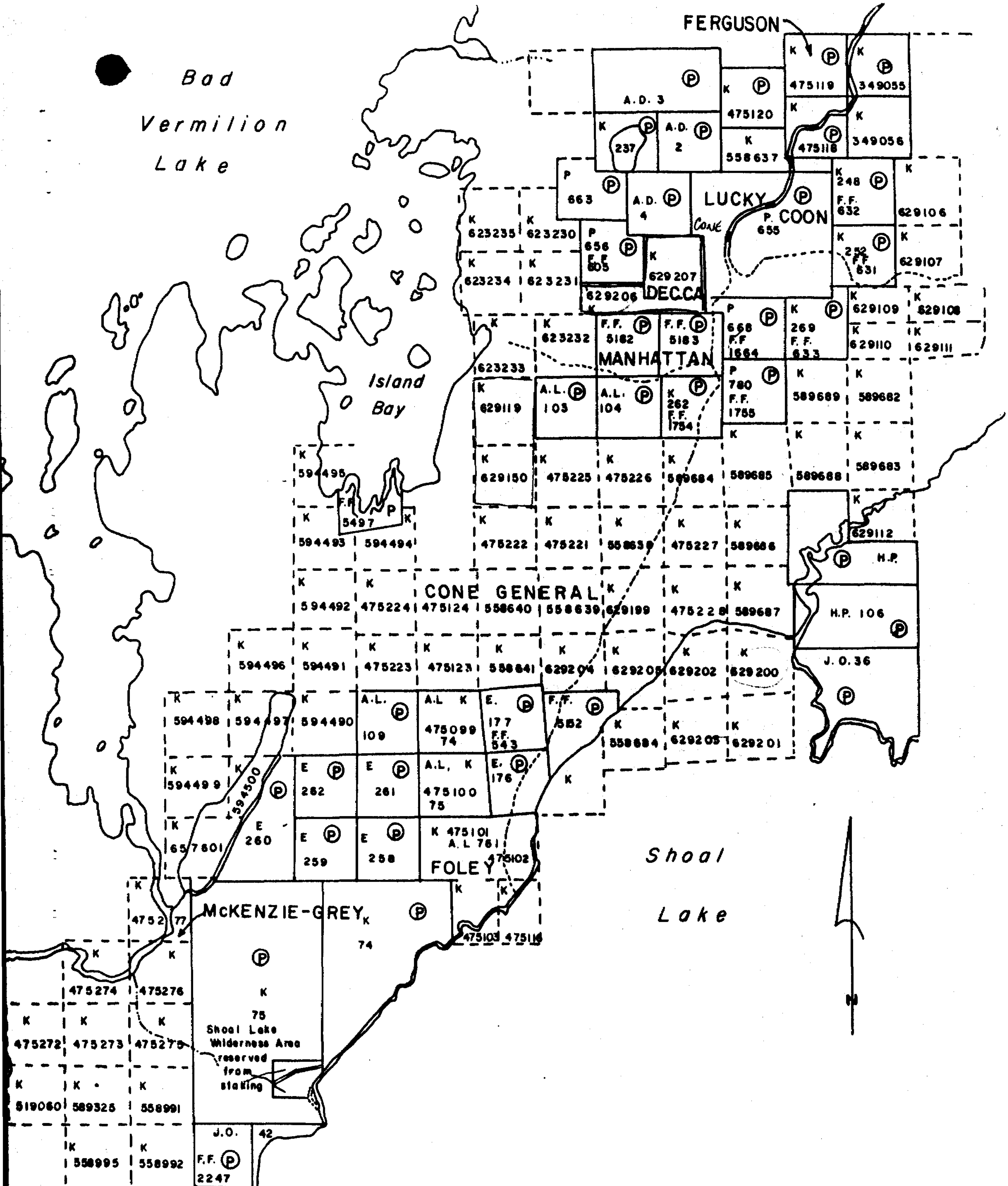
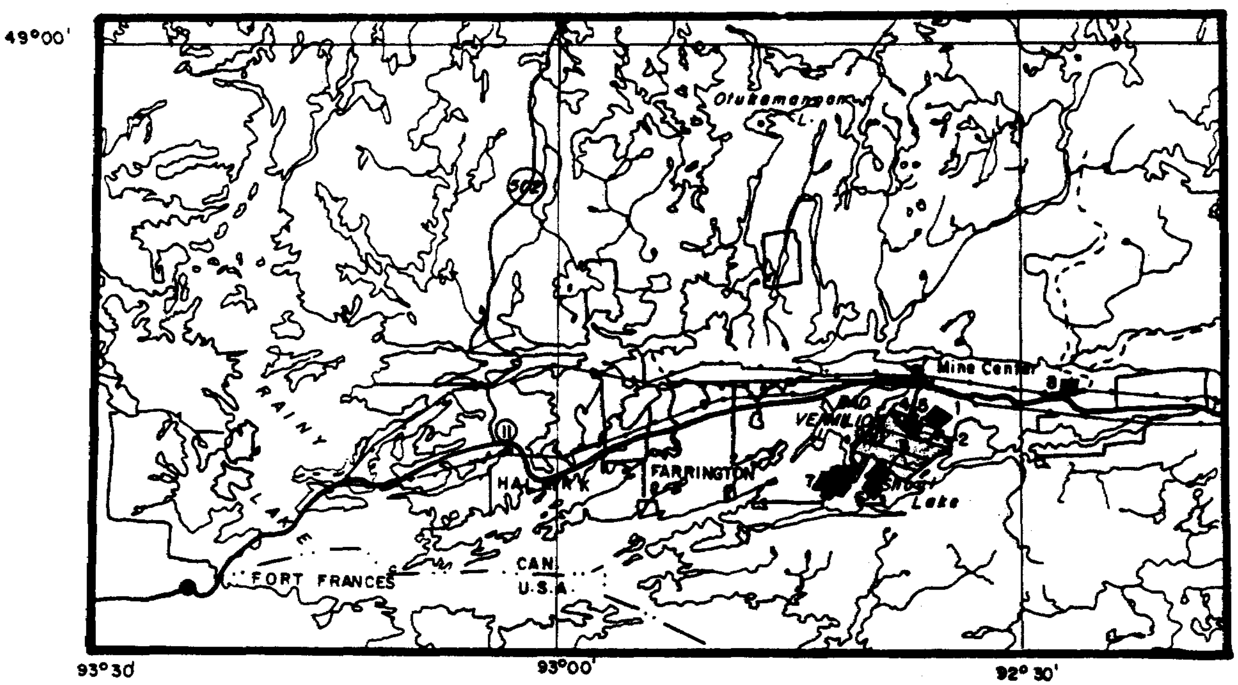


Scale: 1" = 1/2 mile

ASSESSMENT AREA 4 LOCATION MAP
(MINE CENTRE)

SCALE: 1:600 000



PROPERTIES

1. FERGUSON
2. LUCKY COON
3. CONE GENERAL
4. MANHATTAN

DECCA

FOLEY

McKENZIE-GREY

ALBERT

1. GEOLOGICAL REPORT - CONE PROPERTIES

A. SUMMARY AND RECOMMENDATIONS

Field work has identified a subtle but extensive zone of alteration within the Bad Vermilion Tonalite Sill. At least 80% of the observed quartz veins occur in the altered portions of the sill. The veins are associated with discrete shear zones which have developed in response to regional compressive forces. A preferred orientation in a NW-SE direction is apparent.

Approximately 3,400 feet of quartz veins were exposed by trenching and stripping throughout the map area. Systematic sampling has identified several auriferous shoots and has revealed that all sampled quartz veins are gold-bearing to some degree. Average grades of the mineralized shoots range from 0.10 oz/ton to 0.84 oz/ton. Unfortunately, the better grades tend to be associated with narrow widths (1-2ft) while wider veins tend to contain the lower average gold values.

Although this field work is reasonably encouraging, the present economic situation severely restricts the amount follow-up possible in the 1983 field season.

Attention will be focused to Cone's 'hobby vein' where reported grades approach 1 oz/ton over 4 ft. The planned field approach will be identical to that employed during the past season, with the intention of verifying and hopefully extending the mineralized zone.

B INTRODUCTION

i) Location, Access and Claim Status

The Mine Centre Project involves some 84 patented and unpatented claims held under option from various prospectors. The claim status breaks down as follows:

Cone General	62 claims	R. Cone Jr. Mine Centre, Ont.
Foley	6 claims	" "
Ferguson	4 claims	" "
Manhattan	2 claims	" "
Decca	2 claims	" "
MacKenzie-Gray	7 claims	S. Lakatos/K. McTavish Fort Frances, Ont.
Lucky Coon	1 claim	W. J. Lind Port Ludlow, WA, USA

The properties are located immediately south of Mine Centre, Ontario and are accessible via the Shoal Lake Road which junctures Highway 11 approximately one mile east of Mine Centre.

The 1982 field program involved geologic mapping of the Cone General, Foley, Manhattan, Decca and Ferguson properties and systemmatic sampling of quartz veins in the Cone General, Foley and Decca properties.

ii) HISTORY

The gold potential of the Mine Centre Area has been known since the late 1800's. At best, details are sketchy but it is clear the very limited to fairly extensive mining operations continued intermittently to the late 1930's. Most recently, Corporate Oil and Gas performed approximately 11,000 ft. on diamond drilling on the various properties.

iii) GENERAL GEOLOGY

The rocks of the Mine Centre Area border the southern margin of the Wabigoon Subprovince and are bound between the Quetico and Seine Faults. The oldest rocks in the area mafic to felsic metavolcanics and associated metasediments. These have been intruded by gabbroic and granitic sills, including the Bad Vermilion Tronalite Sill. The Seine Group metasediments lie unconformably upon this entire sequence. Regional shortening along a WNW - ESE axis produced the NE trending structural 'grain' in the area. (Blackburn, C.E., 1982)

C GEOLOGY

I) LITHOLOGY

a) Volcanic and Sedimentary Rocks

The Bad Vermilion Tonalite Sill is flanked to the east by Seine Group conglomerates and to the west by intermediate to mafic metavolcanics (fig. 3). In the Manhattan-Decca map area, the metavolcanics form a narrow wedge (probably less than 500 ft.) separating the tonalite body from the Seine Bay-Bad Vermilion Gabbroic Sill. A 200 ft. wide zone of breccias (map unit 1b) immediately borders the western margin of the tonalite sill. The breccia fragments are lapilli sized and consist of fine grained, slightly silicified volcanic material. It is not known whether this breccia is of volcanic origin or related to the intrusion of the tonalite sill. The breccias are followed to the west by an undetermined thickness of fine grained massive volcanic rocks (map Unit 1a).

b) Bad Vermilion Tonalite Sill

1) Unaltered Tonalite

Four subtypes of unaltered tonalite have been identified within the sill:

Map unit	5b	Biotite $\pm$ hornblende tonalite	$<15\%$ mafics
	5c	Hornblende $\pm$ biotite tonalite	$<15\%$ mafics
	5d	Hornblende tonalite	15 - 25% mafics
	5e	Chlorite $\pm$ hornblende tonalite	$<15\%$ mafics

Since the chloritic variety occurs only locally and is of very limited areal extent, it has been included with map unit 5c in the 1":200 ft. geologic plans (fig. 1 and 2). Aside from the subtle variation in minerology, the four subtypes are similar in appearance. All are medium to coarse grained, leucocratic, massive and are not quartz porphyritic.

Subtypes 5b, 5c and 5d show a crude concentric zonation in the map area (fig. 4). A small body of hornblende tonalite occupying the core of the sill is flanked to the NE and SW by hornblende - biotite tonalite which, in turn, is enveloped by biotite - hornblende tonalite. This zonation is obscurred to the NE and along the eastern margin of the sill by what is believed to be an area of subtle but extensive alteration. In these areas, unaltered tonalite occurs as small, lens-shaped remnants.

The complete absence of observable contacts suggests that the various subtypes were not emplaced as separate intrusive phases. Modest variations in chemistry, possibly due to in-situ differentiation, may be responsible for the observed pattern.

2) Altered Tonalite

This variety is likely synonymous with the 'protogine' referred to in several of the old descriptions of the Mine Centre Area. In contrast to the other subtypes, altered tonalite has a gneissic foliation, is quartz porphyritic and shows a noticeable lack of primary mafic minerals. The gneissosity trends NE, paralleling the long axis of the sill. The chemical breakdown of hornblende, biotite and chlorite likely accounts for both the absence of primary mafics and the typically rusty (iron oxides and carbonates) appearance.

3) Aplite Dikes

Aplite dikes are scattered throughout the map area, but appear to be most common in the northern portion of the sill. Both massive and quartz porphyritic varieties are present. Generally, the dikes are narrow (< 10 ft.) and cannot be traced more than a few hundred feet. A notable exception occurs between the North and South Foley Shafts where a porphyritic dike, approximately 50 ft. in width, can be traced in an ENE direction for at least 1,800 ft. As is the case at the Ferguson Property, aplite dikes are often intimately associated with Quartz veins. In these cases, the aplite is typically quite schistose.

II ALTERATION AND QUARTZ VEINING

Several factors point to a close, probably contemporaneous, relationship between the development of the altered tonalite and the emplacement of quartz veins:

a) At least 80% of the observed quartz veins and all of the past producers in the map area are located within altered tonalite.

b) The quartz porphyritic nature of the altered tonalite suggests a pervasive influx of silica bearing hydrothermal solutions. Some of these fluids were channelled into shear zones, thus producing discrete quartz veins. Hydrothermal activity is also believed responsible for the degradation of primary mafics in the altered tonalite.

c) Both quartz veins and altered tonalite are commonly associated in forming cross cutting relationships with respect to unaltered tonalite (fig. 5).

d) The degree of alteration, particularly silicification, increases dramatically with proximity to quartz veins.

The source of the hydrothermal solutions is believed to be the surrounding volcanic pile. Note the areal extent of alteration where the sill contacts volcanic and sedimentary rocks and the general lack of alteration where the sill is in contact with the Seine Bay Gabbroic body (figs. 3 and 4).

III QUARTZ VEINS

a) Structural Relationships

All quartz veins in the Bad Vermilion sill are true fissure veins. They developed within discrete shear zones which show a strong preferred orientation in a NW direction (fig. 6). Detailed mapping of 14 of these veins reveals a left-hand sense of shearing. This sense of displacement, together with the systematic orientation, is consistent with K.H. Poulsen's (1981) interpretation of two conjugate fracture sets (the Quetico and Seine Bay Faults are large scale expressions of the other set) which developed in response to regional compression.

The distribution of quartz vein orientations is not symmetric (fig. 6). The slightly skewed nature of the distribution suggests that the shear zones gradually rotate from a NW trend in the northern portion of the sill (Manhattan, Decca, Ferguson map area) to a NNW trend in the central portion of the sill (Foley map area).

b) Mineralization

All sampled quartz veins are auriferous to some degree. Accessory sulphides, in order of abundance, include pyrite, sphalerite, chalcopyrite and galena. The sulphides generally occur as disseminations although locally, pyrite and sphalerite occur in semi-massive stringer zones. Although statistical methods have not been applied, first impressions indicate no correlation between sulphide content and gold mineralization. The Bonanza Vein, for example, is virtually devoid of sulphides but averages in excess of 0.80 oz/ton Au and has occasional assays of up to 10 oz/ton. In contrast, the Jumbo, V and Vowel Veins, which are locally enriched in Fe, Zn, Pb and Cu, may or may not have gold associated with these sulphides. This inconsistent behavior leads to the suggestion that gold and base metals were not emplaced at the same time. The distribution of gold for some of the Foley and Decca veins is summarized in figures 7 and 8.

Tourmaline is only rarely present and other 'volatile' minerals (carbonates, flourite, etc) are absent.

c) Physical Appearance

Both grid scale and detailed mapping indicate that the quartz veins can show excellent horizontal continuity; approaching several hundred feet in some cases. Underground workings at the Bonanza Vein indicate that similar continuity can be expected in the vertical sense. Vein widths vary from a few inches to a maximum observed thickness of approximately 10 ft. although much greater widths (up to 25 ft) have been reported in older literature.

Individual veins are generally found to consist of several smaller veins exhibiting a broad range of colour (white, rose, grey), texture (massive, sugary, banded) and grain size (fine to very coarse). The composite nature of these veins is consistent with the concept of a shear zone gradually being filled with several ages of quartz. The combination of colours, textures, grain size, multiplicity of ages and wall rock inclusions often produce complex internal structures.

d) Timing of Gold Emplacement

Major differences in the physical appearance of the Decca West, 201 and 202 Veins (figs. 14, 15, 16) in comparison to other veins (figs. 9 thru 13) has led to the conclusion that gold was emplaced as a relatively late stage element. The former three veins typically contain cross cutting tension gashes, locally exist as complex stringer zones rather than singular composite veins and contain intensely silicified wall rock inclusions (incipient quartz). These features, particularly the first, suggest that these veins are relatively immature in comparison to the others, i.e. the shear zones containing these quartz veins were not active for as great a period of time. These immature veins contain only minor and erratic gold values while the more mature veins are relatively enriched in gold.

D SAMPLING PROCEDURE

Approximately 3,400 ft of quartz vein was stripped and 1,460 samples were collected during the 1982 field season. Samples were collected from shallow blasts (6-12 inches) across the width of the vein. The number of samples taken at each blast site varied with the width of the vein. In general, one sample (roughly 10 lbs) was collected for every 2 ft of vein i.e. two or three samples would be taken from a vein 4 ft in width. Blast sites were established at 5 ft intervals along the strike of the vein.

Jan/83.

REFERENCES

Poulsen, K.H. 1981 : The Geologic Setting of Mineralization in the Mine Centre - Fort Frances Area; pgs. 190 - 195 in Summary of Field Work, 1981, O.G.S. Miscellaneous Paper 100.

Blackburn, C.E. et al 1982 : Stratigraphy and Structure of the Western Wabigoon Subprovince and Its Margins, Northwestern Ontario; pgs. 66 - 92 in G.A.C. - M.A.C. Field Trip Guidebook.

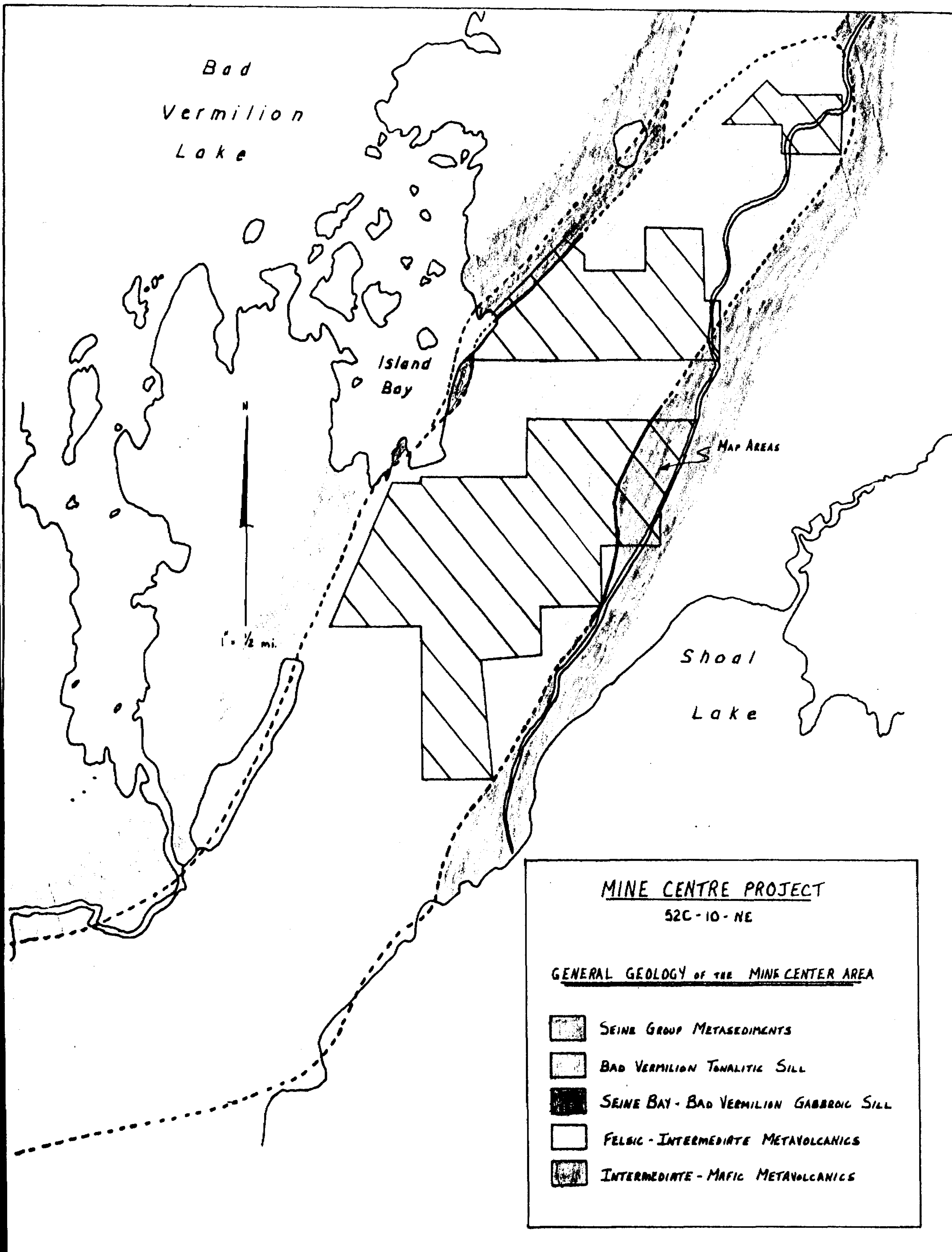
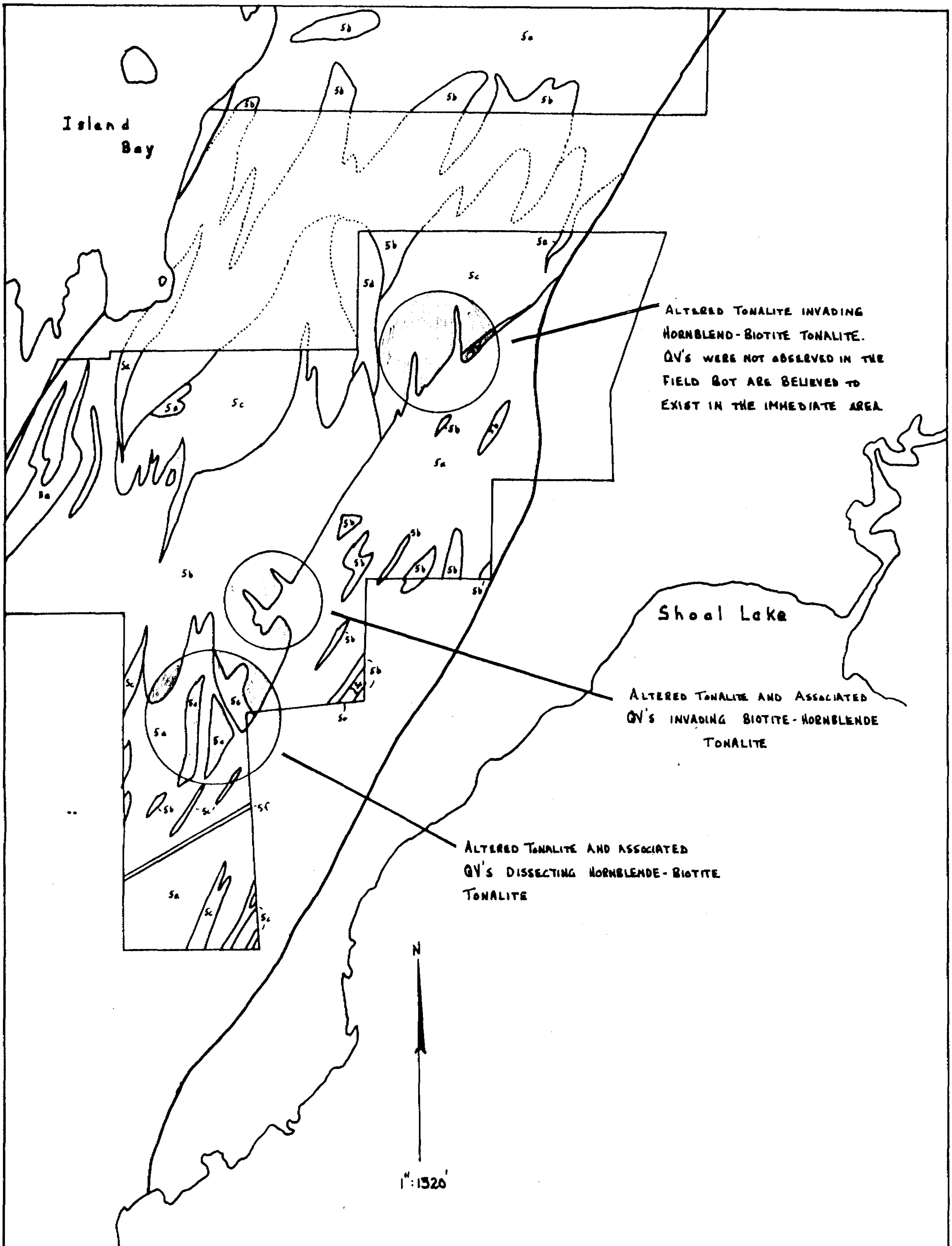

Bad Vermilion Lake
Island Bay
Shoal Lake
Map Areas
N
1" = ½ mi.
MINE CENTRE PROJECT
52C - 10 - NE
GENERAL GEOLOGY of the MINE CENTER AREA
Seine Group Metasediments
Bad Vermilion Tonalitic Sill
Seine Bay - Bad Vermilion Gabbroic Sill
Felsic - Intermediate Metavolcanics
Intermediate - Mafic Metavolcanics

FIGURE 3


Island Bay
Shoal Lake
ALTERED TONALITE INVADING HORNBLEND-BIOTITE TONALITE. QV'S WERE NOT OBSERVED IN THE FIELD BUT ARE BELIEVED TO EXIST IN THE IMMEDIATE AREA
ALTERED TONALITE AND ASSOCIATED QV'S INVADING BIOTITE-HORNBLENDE TONALITE
ALTERED TONALITE AND ASSOCIATED QV'S DISSECTING HORNBLENDE-BIOTITE TONALITE
N
1":1520'

(62)

FIGURE 5

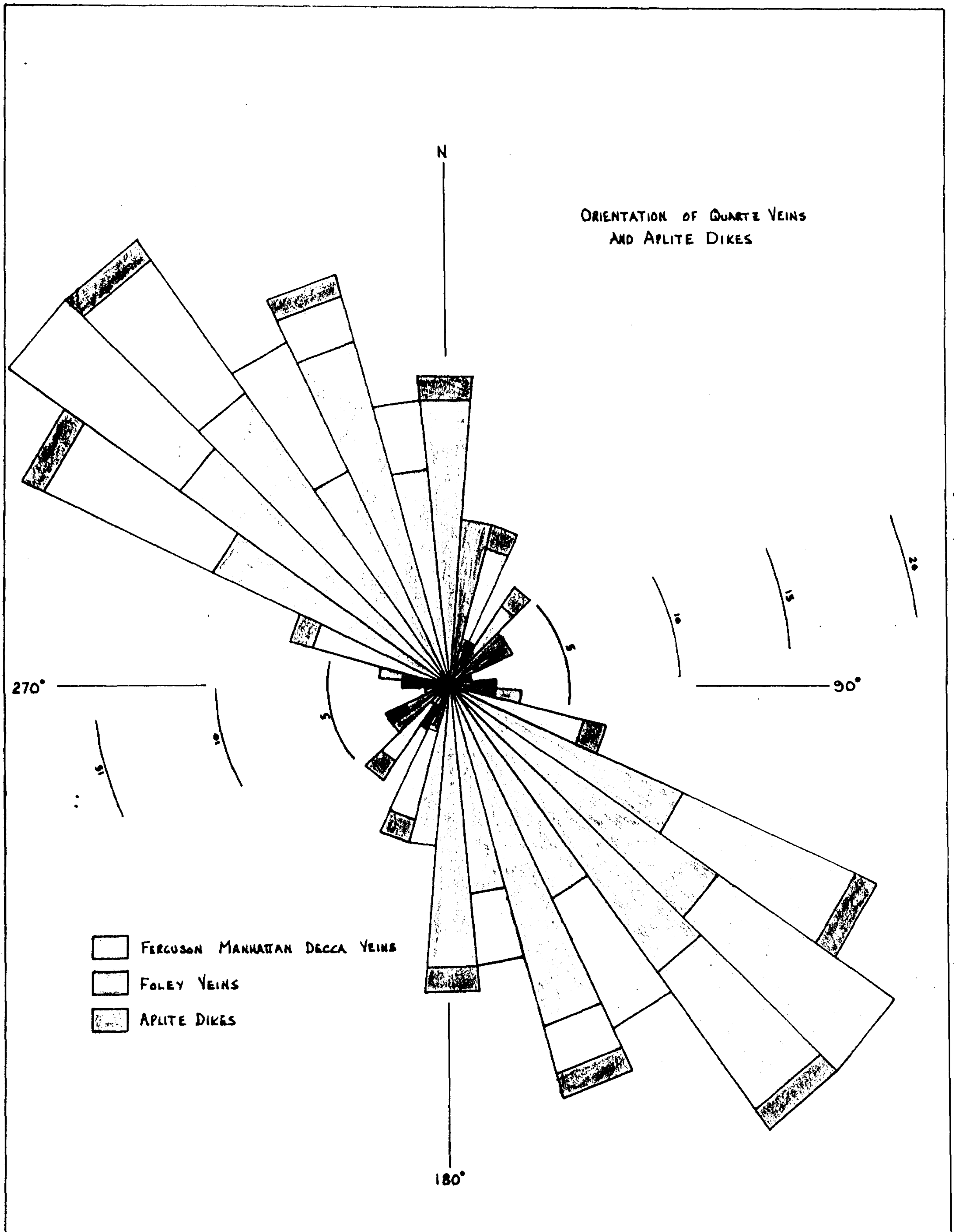

ORIENTATION OF QUARTZ VEINS
AND APLITE DIKES
N
270°
90°
180°
5
10
15
20
FERGUSON MANHATTAN DECCA VEINS
FOLEY VEINS
APLITE DIKES

FIGURE 6

FWM

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

W8301-007

2

52C10NE0073 2.5427 BAD VERMILION LAKE

900

The Mini...

Type of Survey(s): EXPENDITURES

Township or Area: BAD VERMILION LAKE M-2474

Claim Holder(s): RUSSEL C. CONE

Prospector's Licence No.: R-990

Address: MINE CENTER, ONTARIO P0W 1H0

Survey Company: SHERRITT GORDON MINES LTD

Date of Survey (from & to): Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): VINCENT SCIME BOX 723 DRYDEN, ONT. P8N 2Z4

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYING

Performed on Claim(s): 629206, 629207

Calculation of Expenditure Days Credits

Total Expenditures $ 8250.60 ÷ 15 = Total Days Credits 550

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.
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	594493	20
	594494	5
	594497	40
	594498	15
	594499	20
	594500	20
	623230	60
	623231	60
	623232	60
	623233	60
	623234	60
	623235	20
	629206	35
	629207	35
	657601	20

RECEIVED
FEB - 4 1983
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
JAN 24 1983
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

594490

Total number of mining claims covered by this report of work: 16

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
550	Jan. 24/83	[signature]
	Date Approved as Recorded: 83.09.26	Branch Director: [signature]

Date: Jan 18/83

Recorded Holder or Agent (Signature): [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: VINCENT SCIME BOX 723, DRYDEN, ONT. P8N 2Z4

Date Certified: Jan 18/83

Certified by (Signature): [signature]

FWM

Mar 25/April 11 · 83 # 9-83

Ministry of Natural Resources Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

2.5427

The Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.

Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): EXPENDITURES

Township or Area: BAD VERMILION LAKE M-2474

Claim Holder(s): RUSSEL C. CONE

Prospector's Licence No.: R-990

Address: MINE CENTER ONT. P0W 1H0

Survey Company: SHERRITT GORDON MINES

Date of Survey (from & to): Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): VINCENT SCIME, BOX 723, DRYDEN, ONT. P8N 2Z4.

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.
K	629119	57
	629150	60
	629199	60
	629200	20
	629201	20
	629202	20
	629203	20
	629204	60
	629205	60
	629206	60
	629207	60

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FEB - 4 1983
MINING LANDS SECTION

KENORA MINING DIV.
RECEIVED
JAN 24 1983
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Expenditures (excludes power stripping)

Type of Work Performed: ASSAYING

Performed on Claim(s): 475099, 475100

Calculation of Expenditure Days Credits

Total Expenditures: $ 7,462.35 ÷ 15 = Total Days Credits 497

629119

Total number of mining claims covered by this report of work. 11

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only		
Total Days Cr. Recorded: 497	Date Recorded: Jan. 24/83	Mining Recorder: [signature]
	Date Approved as Recorded: 83.09.26	Branch Director: [signature]

Date: Jan. 18/83

Recorded Holder or Agent (Signature): [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: VINCENT SCIME BOX 723 DRYDEN, ONT P8N 2Z4

Date Certified: Jan. 18/83

Certified by (Signature): [signature]

FWM

Mar 25/April 11 - 83 #10-83

Ministry of Natural Resources

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

2.5427

The Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.

Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOLOGY	Township or Area: BAD VERMILION LAKE M.2974
Claim Holder(s): RUSSEL C. CONE	Prospector's Licence No.: R-990
Address: MINE CENTER, ONTARIO, P0W 1H0	
Survey Company: SHERRITT GORDON MINES LTD	Date of Survey (from & to): 16 Day 7 Mo. 82 Yr. – 17 Day 12 Mo. 82 Yr.
Total Miles of line Cut: 3.1	
Name and Address of Author (of Geo-Technical report): VINCENT SCIME BOX 723 DRYDEN ONT. P8N 2Z4	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date	Recorded Holder or Agent (Signature)
Jan 18/83	[signature]

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	629206	~~40~~			
	629207	~~40~~			

KENORA MINING DIV.

RECEIVED

JAN 24 1983

AM PM 7,8,9,10,11,12,1,2,3,4,5,6

629204

Total number of mining claims covered by this report of work. 2

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
80	Jan. 24/83	[signature]
	Date Approved as Recorded: 83.09.26	Branch Director: [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: Vincent Scime Box 723 Dryden, Ontario P8N 2Z4

Date Certified: Jan 18/83

Certified by (Signature):

1362 (81/10)

File ____________

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGY
Township or Area BAD VERMILION LAKE M·2474
Claim Holder(s) RUSSEL C. CONE

Survey Company SHERRITT GORDON MINES LTD.
Author of Report VINCENT SCIME
Address of Author BOX 723, DRYDEN, ONT.
Covering Dates of Survey JULY 14/82 – DEC. 17/82
(linecutting to office)
Total Miles of Line Cut 3·1 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
—Electromagnetic	
—Magnetometer	
—Radiometric	
—Other	
Geological	40
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer ______ Electromagnetic ______ Radiometric ______
(enter days per claim)

DATE: Jan 18 '83 SIGNATURE: ____________
Author of Report or Agent

Res. Geol. ____________ Qualifications 2.2506.

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
K	629206
	629207

If space insufficient, attach list

TOTAL CLAIMS 2

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations ______ Number of Readings ______
Station interval ______ Line spacing ______
Profile scale ______
Contour interval ______

MAGNETIC

Instrument ______
Accuracy – Scale constant ______
Diurnal correction method ______
Base Station check-in interval (hours) ______
Base Station location and value ______

ELECTROMAGNETIC

Instrument ______
Coil configuration ______
Coil separation ______
Accuracy ______
Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line
Frequency ______ (specify V.L.F. station)
Parameters measured ______

GRAVITY

Instrument ______
Scale constant ______
Corrections made ______
Base station value and location ______
Elevation accuracy ______

INDUCED POLARIZATION RESISTIVITY

Instrument ______
Method ☐ Time Domain ☐ Frequency Domain
Parameters – On time ______ Frequency ______
– Off time ______ Range ______
– Delay time ______
– Integration time ______
Power ______
Electrode array ______
Electrode spacing ______
Type of electrode ______

sherritt

RECEIVED
MAR 14 1983
MINING LANDS SECTION

Mr. E. F. Anderson
Director Land Management Branch
Whitney Block
Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Please find enclosed duplicate copies of maps and reports for work performed on 38 mining claims (558684; 589682-589689 inclusive: 594490-594500 inclusive: 623230-623235 inclusive; 629119, 629150, 629199-629207 inclusive: and 657601) in the Bad Vermilion Lake Area, M-2474. Work reports and proofs of expenditures have been forwarded to the Mining Recorder in Kenora.

Yours truly,

Vincent Scime

Senior Exploration Geologist
Sherritt Gordon Mines Limited
Dryden, Ontario

VS:jl

Encl.

PLEASE NOTE: THE 'FOLEY CLAIMS' GEOLOGIC MAP (1"=200') IS BEING SUBMITTED AS A COURTESY AND HAS NOT BEEN COLOURED. ASSESSMENT CREDITS HAVE NOT ~~BEEN~~ BEEN APPLIED FOR THE GEOLOGIC MAPPING IN THIS PORTION OF THE GRID.

sherritt

September 6, 1983

Miss Hurst
Land Management Branch
Whitney Bloc, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Miss Hurst:

RE: File # 2.5427

Please find enclosed one original and a duplicate copy of invoices signed by Mr. Jack Beck of Cochenour Fire Assay verifying our claimed expenditures.

Hopefully, this information is satisfactory.

Yours truly,

Vince Scime

Senior Exploration Geologist
Sherritt Gordon Mines Limited
Dryden, Ontario

VS:jl

Encl.

RECEIVED
8 1983
MINING LANDS SECTION

RECEIVED
8 1983
MINING LANDS SECTION

Sherritt Gordon Mines Limited/Mining and Milling Division
Exploration Field Office
P.O. Box 723, Claybanks Road, Dryden, Ontario P8N 2Z4/Tel: (807) 223-5365

August 3, 1983 2.5427

Mr. Russell C. Cone
Mine Centre, Ontario
POW 1HO

Dear Sir:

RE: Data for Assaying & Geological Survey submitted on Mining Claims K 558684 et al in the Area of Bad Vermillion Lake.

With reference to the above mentioned survey, please provide (in duplicate) signed receipts or cancelled cheques, as verification of expenditures claimed.

When submitting this information, please quote File 2.5427.

For further information, if required please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

S. Hurst:sc

cc: Sherritt Gordon Mines
Dryden, Ontario

cc: Mining Recorder
Kenora, Ontario

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

May 24/83

File 25427

Mining Lands Comments

- No reciepts.

☐ To: Geophysics

Comments

☐ Approved ☐ Wish to see again with corrections

Date	Signature

☑ To: Geology - Expenditures MR. KUSTRA

Comments

☒ Approved ☐ Wish to see again with corrections

Date	Signature
June 21/83	C Kustra

☐ To: Geochemistry

Comments

LD

☐ Approved ☐ Wish to see again with corrections

Date	Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1983 03 25 2.5427

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5160
Kenora, Ontario
P9N 3X9

Dear Sir:

We have received data for Assaying and Geological Survey submitted under Section 77(19) of the Mining Act R.S.O. 1980 submitted on Mining Claims K 558684 et al in the Area of Bad Vermilion Lake.

This material will be examined and assessed and a statement of Assessment work credits will be issued.

Yours very truly,

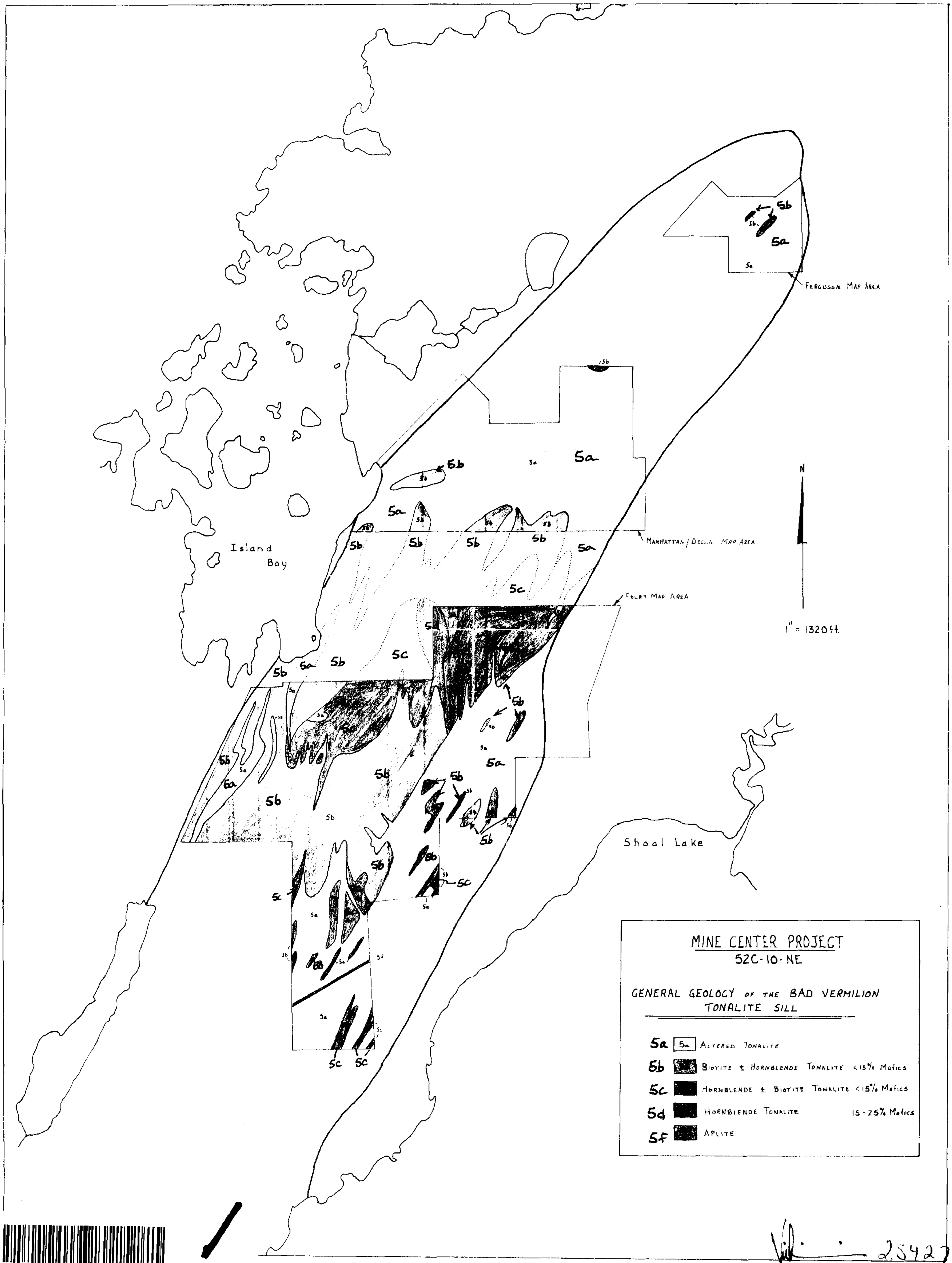
E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

cc: Sherritt Gordon Mines
Dryden, Ontario
Attn: Mr. Vincent Scime

cc: Mr. Russel C. Cone
Mine Center, Ontario
POW 1HO



52C10NE0073 2.5427 BAD VERMILION LAKE

200

FIGURE 4

SHERRITT GORDON MINES LIMITED

GEOLOGICAL SURVEY

OF

MANHATTEN/DECCA CLAIMS

N.T.S.- 52C/10   CLAIM MAP-2474

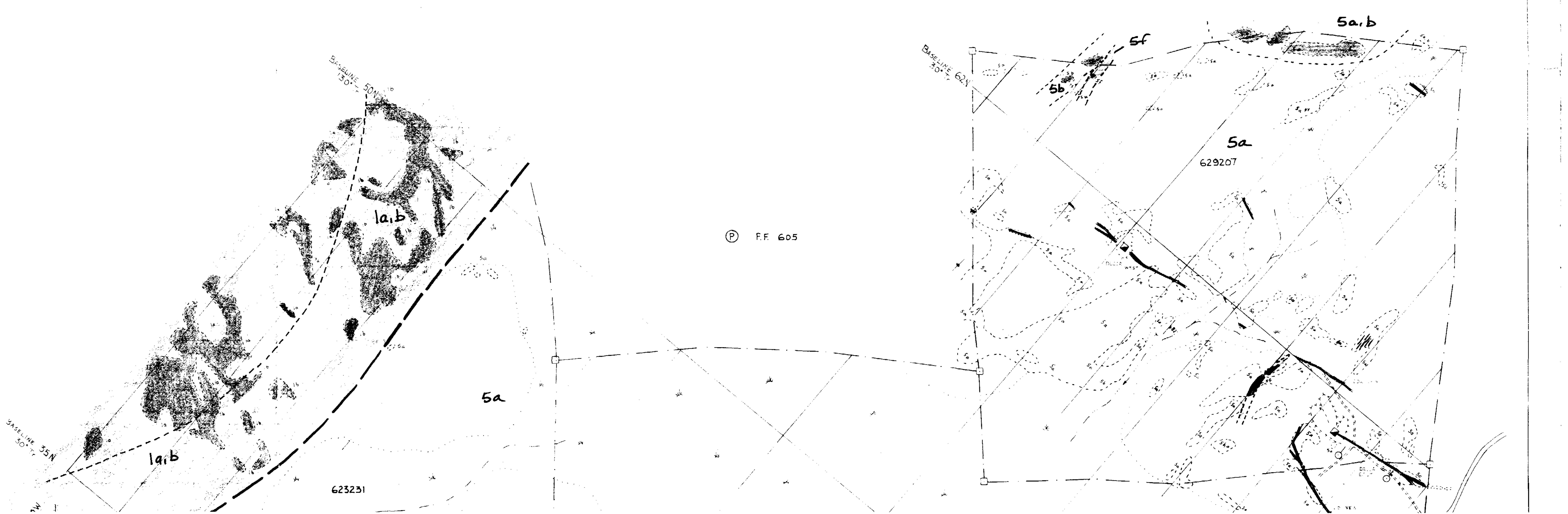
SCALE: 1"=200'   DATE: DEC. 14,1982

Mapped by: V. Scime, 1982

25427

FG 2

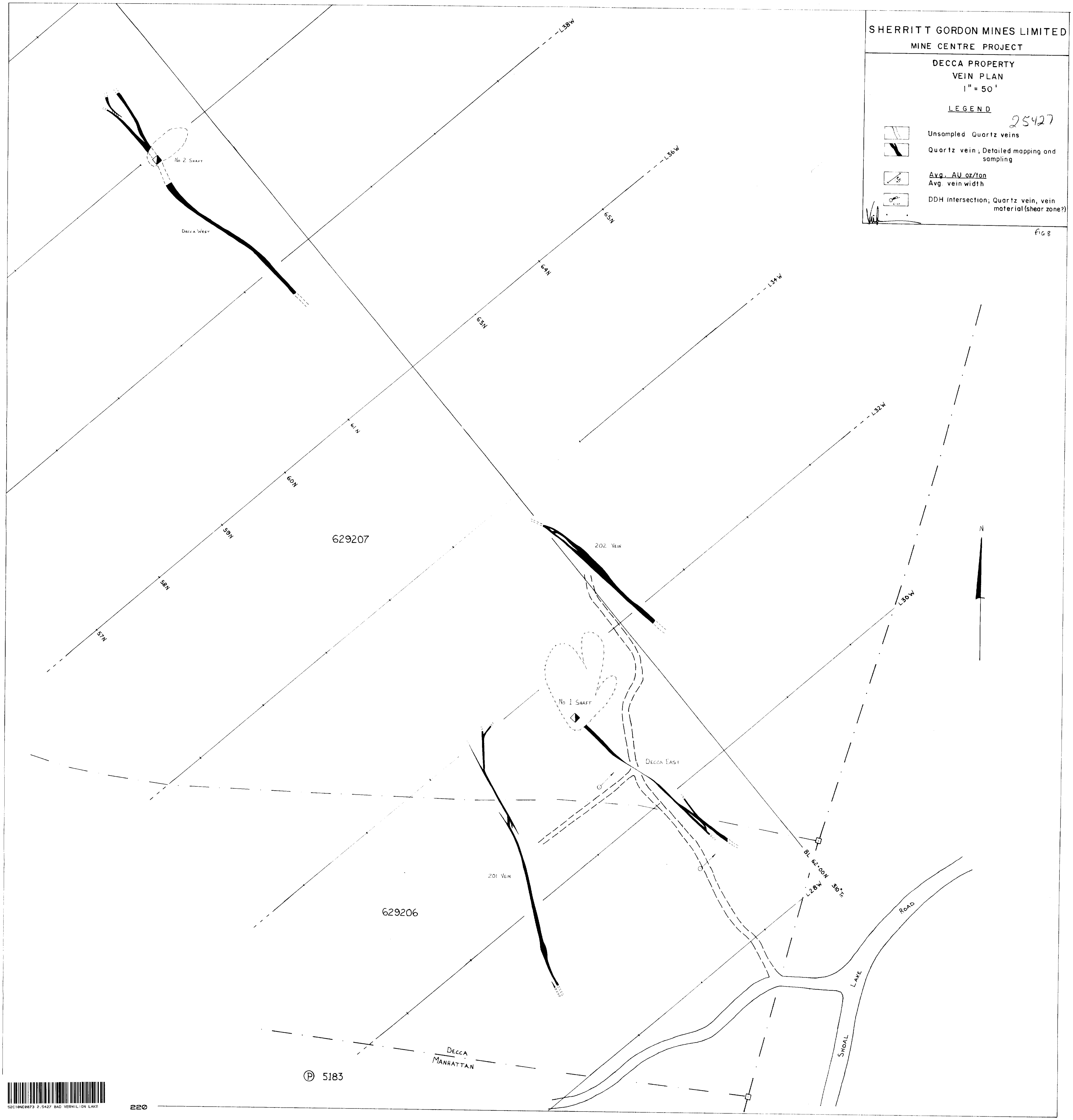
N



LEGEND

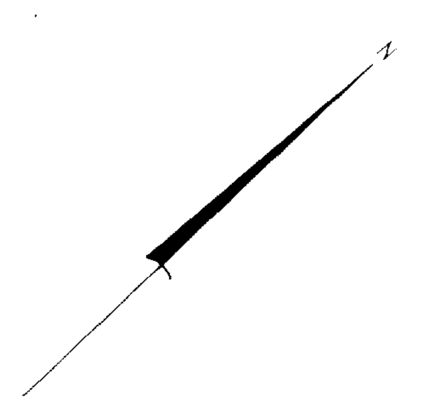
SEINE GROUP METASEDIMENTS

10a 10a Conglomerate


SHERRITT GORDON MINES LIMITED
MINE CENTRE PROJECT
DECCA PROPERTY
VEIN PLAN
1" = 50'
LEGEND
25427
Unsampled Quartz veins
Quartz vein; Detailed mapping and sampling
Avg. AU oz/ton
Avg. vein width
DDH intersection; Quartz vein, vein material (shear zone?)
FIG 8
L38W
L36W
L34W
L32W
L30W
L28W
65N
64N
63N
61N
60N
59N
58N
57N
No 2 Shaft
Decca West
202 Vein
No 1 Shaft
Decca East
201 Vein
629207
629206
BL 62+00N
310°T
Decca
Manhattan
Shoal
Lake
Road
P 5183
52C10NE0073 2.5427 BAD VERMILION LAKE
220
FIGURE 8


No. 2
SHAFT
L40W
61+50S
* ALL Au VALUES ARE TRACE
AND ALL Ag VALUES ARE <0.10
UNLESS OTHERWISE SHOWN
LEGEND
RQ ROSE QUARTZ
WQ WHITE QUARTZ
MASSIVE
WEAK-MODERATE BANDED
MODERATE-WELL BANDED
WALL ROCK
SECONDARY FOLIATION
DISSEMINATED SULPHIDES
STRINGER SULPHIDES
VUGGY QUARTZ (ERODED SULPHIDES)
ATTITUDE OF QUARTZ VEIN
PLUNGE OF SLICKENSLIDES
N
L38W
61+50S
SHERRITT GORDON MINES LIMITED
DETAILED VEIN PLAN
OF
DECCA WEST
N.T.S. - 52C/10 CLAIM MAP-2474
SCALE: 1" = 5' DATE: DEC. 16, 1982
Mapped by: V. Scime, 1982
FIG 16

FIGURE 16



LEGEND

RQ	ROSE QUARTZ
WQ	WHITE QUARTZ
	MASSIVE
	WEAK-MODERATE BANDED
	MODERATE-WELL BANDED
	WALL ROCK
	SECONDARY FOLIATION
	DISSEMINATED SULPHIDES
	STRINGER SULPHIDES
	VUGGY QUARTZ (ERODED SULPHIDES)
	ATTITUDE OF QUARTZ VEIN
	PLUNGE OF SLICKENSLIDES

* ALL Au VALUES ARE TRACE AND ALL Ag VALUES ARE <0.10 UNLESS OTHERWISE SHOWN

SHERRITT GORDON MINES LIMITED

DETAILED VEIN PLAN OF DECCA 202 VEIN

N.T.S. - 52C/10 CLAIM MAP - 2474

SCALE: 1" = 5' DATE: DEC. 16, 1982

Mapped by: V. Scime, 1982

FIG 15

2.5427

FIGURE 15

* ALL Au VALUES ARE TRACE
AND Ag VALUES ARE <0.10
UNLESS OTHERWISE SHOWN

LEGEND

1b, c, f	ROSE QUARTZ
1a	WHITE QUARTZ
	MASSIVE
	WEAK - MODERATE BANDED
	MODERATE - WELL BANDED
	WALL ROCK
	SECONDARY FOLIATION
	DISSEMINATED SULPHIDES
	STRINGER SULPHIDES
	VUGGY QUARTZ (ERODED SULPHIDES)
	ATTITUDE OF QUARTZ VEIN
	PLUNGE OF SLICKENSLIDES

SHERRITT GORDON MINES LIMITED

DETAILED VEIN PLAN
OF
"201 VEIN"

N.T.S. - 52C/10 CLAIM MAP-2474

SCALE: 1" = 5' DATE: DEC. 16, 1982

Mapped by V. Scime, 1982

FIG 1A

25427

250

FIGURE 1A


No. 1
SHAFT
SHERRITT GORDON MINES LIMITED
DETAILED VEIN PLAN
OF
DECCA VEIN
N.T.S. -52C/10
CLAIM MAP- 2474
SCALE: 1" = 5'
DATE: DEC. 16, 1982
Mapped by: V. Scime, 1982
NO FIG #
N
25427
RQ ROSE QUARTZ
WQ WHITE QUARTZ
MASSIVE
WEAK - MODERATE BANDED
MODERATE - WELL BANDED
2 WALL ROCK
SECONDARY FOLIATION
DISSEMINATED SULPHIDES
STRINGER SULPHIDES
VUGGY QUARTZ (ERODED SULPHIDES)
ATTITUDE OF QUARTZ VEIN
PLUNGE OF SLICKENSLIDES

260


N
SHERRITT GORDON MINES LIMITED
GEOLOGICAL SURVEY
OF
FOLEY CLAIMS
N.T.S.- 52C/10 CLAIM MAP-2474
SCALE: 1"=200' DATE: DEC.14,1982
Mapped by: V. Scime, 1982
LEGEND
SEINE GROUP METASEDIMENTS
10a Conglomerate
BAD VERMILION TONALITE SILL
5a Altered tonalite (quartz porphyritic)
5b Biotite ± hornblende tonalite (<15% mafics)
5c Hornblende ± biotite tonalite (<15% mafics)
5d Hornblende tonalite (15-25% mafics)
5e Chlorite + hornblende tonalite (<15% mafics)
5f Aplite
INTERMEDIATE - MAFIC METAVOLCANIC ROCKS
1a Massive, fine grained
1b Breccia
1c Chlorite schist
SYMBOLS
Bedrock exposure
Quartz veins, stringers
Gneissosity (vertical, inclined)
Jointing (vertical, inclined)
Major contact (inferred, assumed)
Subordinate contact (inferred, assumed)
Diamond drill hole (DDH)
Trench
Mine shaft and dump
Claim boundary and post
Beaver pond and dam
Roads
FF 5497
FF 545
FF 542
AL 109
E 261
475226
475225
475227
475228
558638
629199
629150
475221
475222
519025
558639
558640
629204
475124
475224
584493
584494
584492
584491
475223
475123
558641
475099
475100
475101
475102
Figure 1
270

52C10NE0073 2.5427 BAD VERMILION LAKE

280

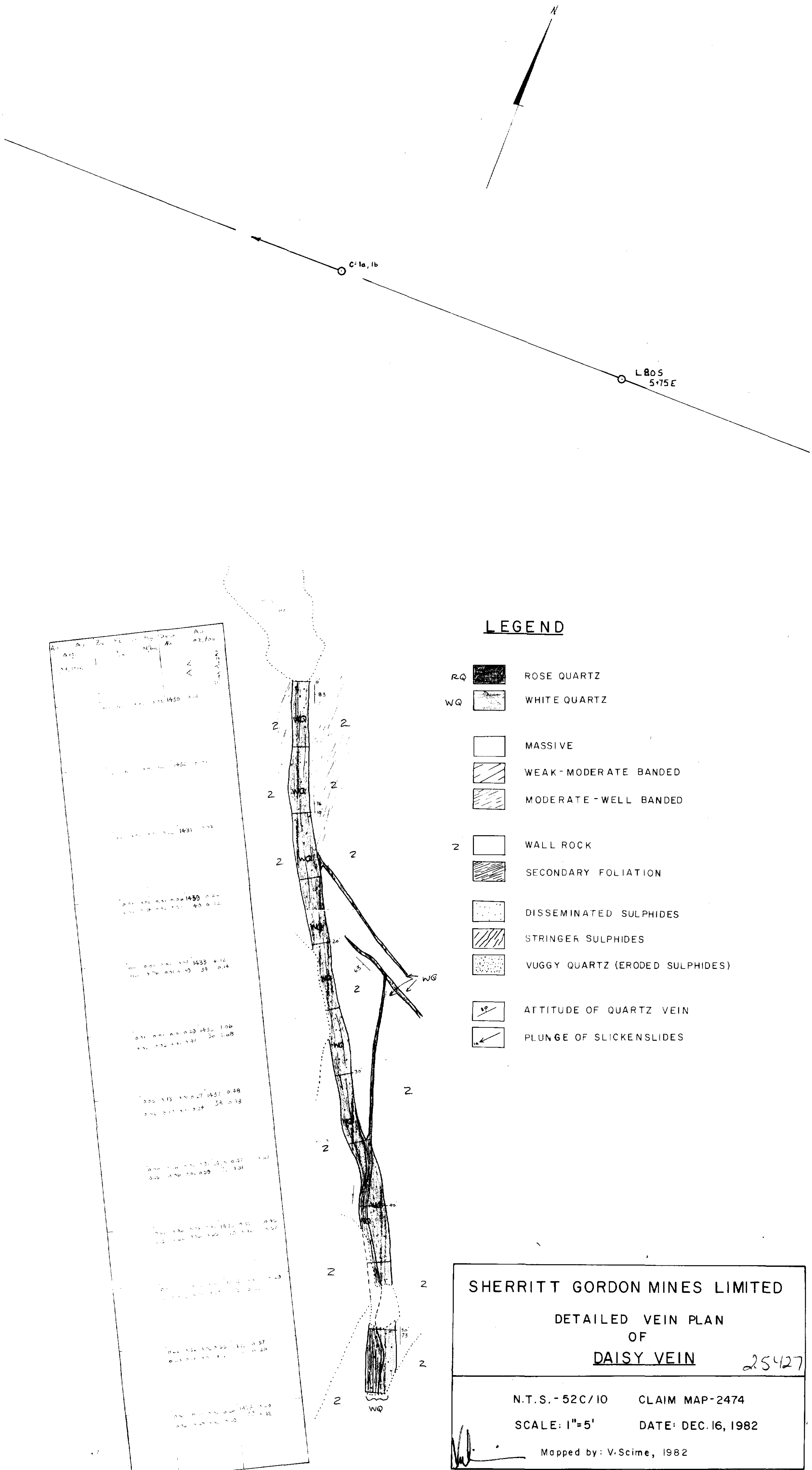
Figure 7

West Vein Shaft
L70S 2+00W
55'
N (tr)
LEGEND
RQ ROSE QUARTZ
WQ WHITE QUARTZ
MASSIVE
WEAK- MODERATE BANDED
MODERATE-WELL BANDED
WALL ROCK
SECONDARY FOLIATION
DISSEMINATED SULPHIDES
STRINGER SULPHIDES
VUGGY QUARTZ (ERODED SULPHIDES)
ATTITUDE OF QUARTZ VEIN
PLUNGE OF SLICKENSLIDES
SHERRITT GORDON MINES LIMITED
DETAILED VEIN PLAN
OF
WEST VEIN
N.T.S. - 52C/10 CLAIM MAP-2474
SCALE: 1"=5' DATE: DEC 16, 1982
Mapped by V. Scime, 1982
FIG 11
L72.5 2+00W
62'

North Shaft
LEGEND
RQ ROSE QUARTZ
WQ WHITE QUARTZ
MASSIVE
WEAK - MODERATE BANDED
MODERATE - WELL BANDED
Za WALL ROCK
SECONDARY FOLIATION
DISSEMINATED SULPHIDES
STRINGER SULPHIDES
VUGGY QUARTZ (ERODED SULPHIDES)
ATTITUDE OF QUARTZ VEIN
PLUNGE OF SLICKENSLIDES
SHERRITT GORDON MINES LIMITED
DETAILED VEIN PLAN
OF
JUMBO & BONANZA VEINS
N.T.S. - 52C/10
CLAIM MAP-2474
SCALE: 1"= 5'
DATE: DEC. 16, 1982
Mapped by: V. Scime, 1982
FIG 9
25427


SHERRITT GORDON MINES LIMITED
DETAILED VEIN PLAN
OF
VOWEL VEINS
N.T.S. - 52C/10 CLAIM MAP- 2474
SCALE: 1" = 5' DATE: DEC.16, 1982
Mapped by V. Scime, 1982
FIG 10
25427
LEGEND
RQ ROSE QUARTZ
WQ WHITE QUARTZ
MASSIVE
WEAK - MODERATE BANDED
MODERATE - WELL BANDED
2a WALL ROCK
SECONDARY FOLIATION
DISSEMINATED SULPHIDES
STRINGER SULPHIDES
VUGGY QUARTZ (ERODED SULPHIDES)
ATTITUDE OF QUARTZ VEIN
PLUNGE OF SLICKENSLIDES
N
L70S
5E
'A' VEIN
TEST PIT

FIGURE 10



SHERRITT GORDON MINES LIMITED

DETAILED VEIN PLAN
OF
DAISY VEIN

25427

N.T.S.-52C/10 CLAIM MAP-2474

SCALE: 1"=5' DATE: DEC. 16, 1982

Mapped by: V. Scime, 1982

No FIG #

320