

ST. JOE CANADA INC.

FINAL REPORT FOR OMEP APPLICATION ON 82-1-JV-191

DIAMOND DRILLING, GEOLOGICAL SURVEY

BIRCH LAKE AREA - NORTHWESTERN ONTARIO

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Introduction

This report describes diamond drilling, a geological survey and related studies carried out by St. Joe Canada under OMEP project.

OM 82-1-JV-191, between March 1, 1983 and the time of writing,

October 10, 1983, Between March 1, 1983 and June 10, 1983, including the period in which diamond drilling was carried out, a joint venture between St. Joe Canada and Geddes Resources Ltd. was in effect. This joint venture was terminated on June 10, 1983 and subsequent work during the period of designation was carried out by St. Joe Canada.

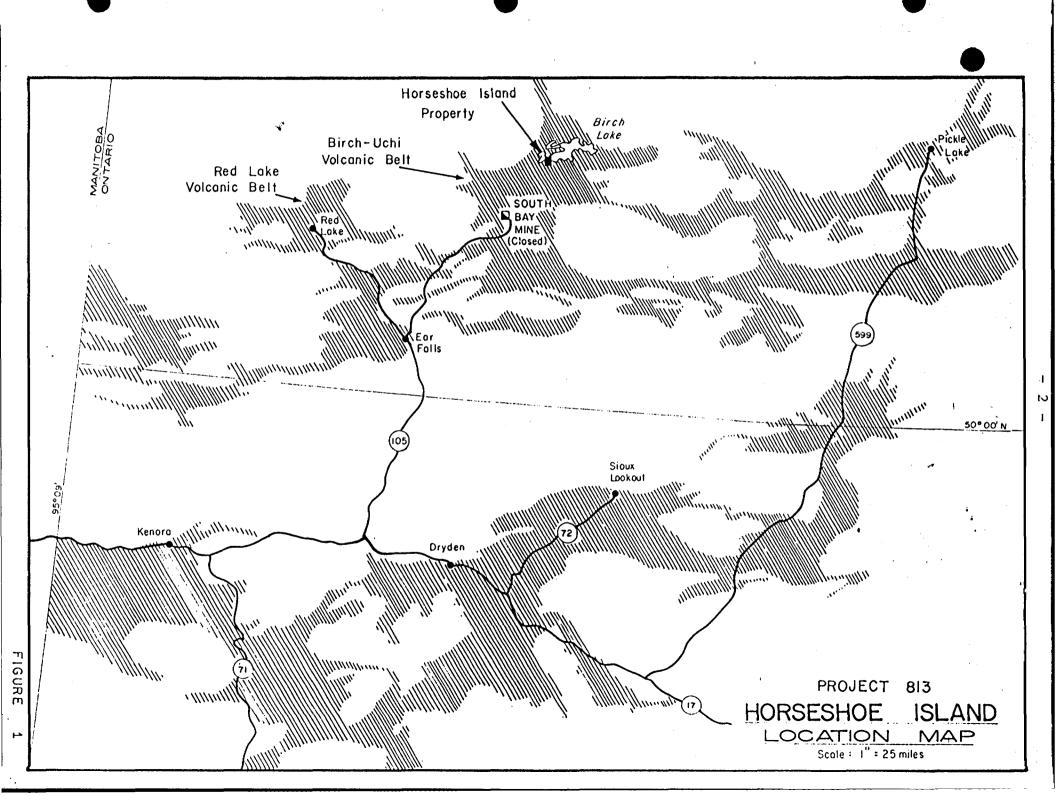
Property - Description, Location, Access

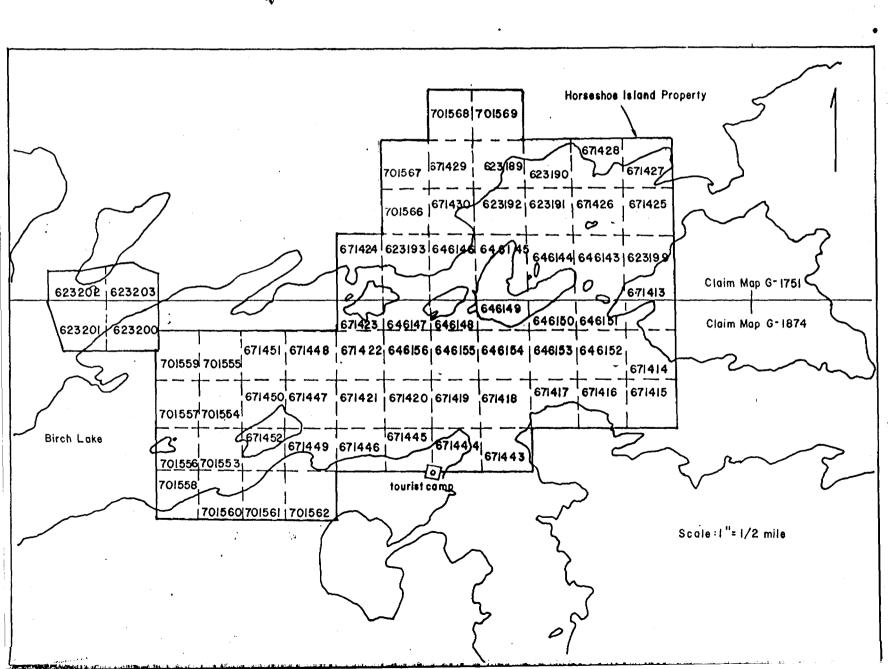
St. Joe holds a 100% interest in 69 contiguous mining claims in the Birch Lake area of Northwestern Ontario, 100 kilometers east of Red Lake (Figures 1, 2). Approximately 75% of the claims are water covered.

Access is by float plane from Red Lake or Ear Falls, Ontario, an air distance of 102 and 99 km. respectively. The South Bay Mine Road, a gravel secondary highway, terminates some 34 km. south of the property.

History of Property

- 1935: A vein is indicated on Ontario Department of Mines Map No.
 45C, based on field work carried out in 1935 by W.D. Harding.
 Initial prospecting and trenching was likely carried out on
 Horseshoe Island prior to this time.
- 1944: A winter diamond drill program consisting of 16 holes is reported to have been carried out on the southeast shore of Horseshoe Island in the vicinity of two mineralized trenches, and from the ice along strike in both directions. A zone of





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374m by 2.1m with a grade of 6.69 g/tonne Au was reported to have been outlined. The only reference to this work is found in Ontario Geological Survey's Assessment Files (file no. 2.1443) in the assessment report for Goldsearch Ltd., 1974, listed below. This information was confirmed during the 1982 field season by Oscar Peterson, a Birch Lake resident who was present at the time and who remembers drills set up in the proper locations. He indicated that the work was carried out by Mr. Karl Springer. Three drill collars that probably were from this program were found on the shore of Horseshoe Island. No work reports, drill logs, etc. are available.

1974: Goldsearch Limited carried out a magnetic and VLF-EM survey centred on the known gold mineralization. The fluxgate magnetic survey outlined a strong positive anomaly that has a strike length of approximately 370 meters. It is centred under the lake and is associated with the mineralized trenches. Other magnetic anomalies are centred 400 meters northeast along strike and 670 meters southwest along strike from the mineralized trenches.

The VLF survey picked up three short conductors south and east of Horseshoe Island in Birch Lake.

Other Work

Various other individuals or companies have held the property over the years; however, no records exist of any work having been carried out. The claims were held by a Red Lake resident and lapsed approximately one month before being staked by St. Joe Canada in August 1982.

St. Joe Work Summary

August, September 1982: Rec

Reconnaissance mapping

Trench sampling

Humus survey

October, 1982:

Waterborne I.P. survey-

February, 1983:

Ground I.P. and magnetic survey

March, 1983:

DDH 5 holes, total 990m

July, 1983:

Detailed mapping of Horseshoe Island

Geology

The property lies in the Birch-Uchi Greenstone Belt. Cycle III Archean mafic and felsic volcanic rocks and related sediments have been intruded by a late stage multi-phase gabbro to granodioritic intrusion, herein called the Horseshoe Island Intrusion Complex.

This intrusion is roughly ellipsoidal in plan, approximately 1.5 km. by 0.5 km, with the long axis perpendicular to regional stike.

These lithologies and their inferred age relations are indicated on Figure 1.

Figure 1:

Table of Formations

Horseshoe Island Intrusive Complex

Highly Altered and Deformed Granodiorite
Altered Granodiorite (Chloritized)
Granodiorite
Gabbro
intrusive contact

Dellar Dember

Feldspar Porphyry intrusive contact

Sediments, chiefly greywacke Intermediate tuff and lapilli tuff Andesite Pyroclastic Mafic volcanics The Highly Altered and Deformed Granodiorite is the host rock for gold mineralization upon which present exploration efforts are being focussed. The unit is exposed in a series of old trenches on the south shore of Horseshoe Island, and in drill holes HI 83-04 and HI 83-05. The bulk of the unit appears to be under Birch Lake, and consequently its dimensions are very poorly known.

The Highly Altered and Deformed Granodiorite is a tectonically deformed and hydrothermally altered equivalent of the Altered Granodiorite (Chloritized). It consists of intensely sericitized feldspar, quartz and carbonate. Potassic feldspar is 70% to 100% sericitized, and some grains have been deformed into irregular masses of sericite.

Quartz grains have been fractured and rounded with highly irregular outlines where some recrystallization has taken place. The grains are highly strained. There is an average of 1% disseminated pyrite with local concentrations up to 10% and 1% disseminated magnetite. Visible gold was encountered in one place in this unit and high gold values correspond in a general way with an increase in pyrite.

Altered Granodiorite (Chloritized), in contact with the Highly Altered and Deformed Granodiorite, is an intrusive rock with sericitized potassic feldspar, quartz and chlorite replacement of ferromagnesian silicates. Euhedral to subhedral feldspar grains are surrounded by undeformed poikilitic quartz grains. Carbonate is developed locally. This unit contains trace to .5% pyrite with local concentrations to 3% over widths of less than 1 metre. The granodiorite in these pyritic zones is commonly silicified with grey quartz replacing feldspar. Visible gold was observed at three places in this unit, corresponding to mineralized zones of less than one metre. These pyritic, silicified sections of Altered Granodiorite are commonly bounded by thin (2mm) chloritic shears.

Feldspar Porphyry is a sill-like sub-volcanic intrusive (or possible porphyritic flow). A zone of silicification within the unit has been traced for 250 metres in a series of old trenches. Gold values from grab samples up to 4.07g/tonne were obtained from these trenches and HI 83-03, which intersected this zone assayed up to .67g/tonne over 3.2m. The relationship between gold mineralization in this unit and the Highly Altered and Deformed Granodiorite is unclear.

Sediments, chiefly greywacke were found in DDH HI 83-01 and 02, and at 26+00 E, 6+50 N. These sediments are best exposed at a fishing lodge 1.4 km SW of Horseshoe Island where graded bedding, load casts and flame structures are well displayed. Graded bedding was observed in this unit in HI 83-01 at approximately 10m. Magnetite rich bands and streaks occur in this unit, parallel to bedding, and appears to be the cause of the magnetic anomaly in this area.

Intermediate tuff and lapilli tuff occurs in HI 83-01 and 02. It varies from bedded to massive tuff to lapilli tuff with rounded lapilli up to 3 cm wide. The composition appears to be in the andesite to dacite range.

The Andesite pyroclastic appears to be a debris flow unit with several clast types and sizes ranging from 1 cm to 10 cm in section. Some clasts contain abundant magnetite and may, in fact, be iron formation, and the unit is the principal cause of the magnetic anomaly. The unit contains 1% to 2% py in hole HI 83-03 and less than .25% in hole 5. In hole 3 the unit contains 0.5g/tonne gold over 7.5m in slightly silicified andesite pyroclastic. In hole HI 83-04, the unit is barren.

Mafic Volcanics are exposed at 14+00 E, 8+50 N and on an island at 26+00 E, 13+00 N. It is thought to be a tuffaceous unit.

Diamond Drilling

(Refer to Table 1 in text. Plan 1, sections 13+00, 18+00, 20+00, 21+00 in back pocket.)

A total of 990.4m (3,249 ft.) of BQ core was drilled at Horseshoe Island located on Birch Lake in northwestern Ontario between March 10 and March 25, 1983. The holes are indicated on Plan 1. Drilling was carried out by St. Lambert Drilling of Valleyfield, Quebec using a JKS 300 unitized, skid-mounted drill. Core diameter was 3.6 cm. Core recovery averaged more than 98%. Drilling proceeded at a rate of 62 metres/day, including moves.

The objectives of the holes were as follows:

- HI 83-01 drilled to test a coincident magnetic and chargeability anomaly associated with a small reef in Birch Lake where gold mineralization was reported but not substantiated by St. Joe.
- HI 83-02 drilled to test a coincident magnetic and chargeability anomaly.
- HI 83-03 drilled to test a magnetic and resistivity anomaly coincident with mineralized trenches in silicified feldspar porphyry.
- HI 83-04 drilled to test a coincident magnetic and resistivity anomaly coincident with mineralized trenches in highly altered and deformed granodiorite.
- HI 83-05 drilled to test for an on-strike extension of the highly altered and deformed granodiorite of HI 83-04 in the area of a conspicuous magnetic low.

The objective of all holes was to test for the existence of the reported 375 m zone of gold mineralization.

TABLE 1

PHASE I, HORSESHOE ISLAND DIAMOND DRILLING

Hole	Location	Azimuth	Dip	Length	Rock Types Intersected		Relevant Assays
H1 83-01	L13+00E 6 + 12N	168°	-45 ⁰	243m	metasediments & pyroclastic rocks	all	.03 g/tonne gold
н1 83-02	L13+00E 8 + 72N	168 ⁰	-45 ⁰	248.4m	pyroclastic rocks, metasediments	all	.5 q/tonne gold
н1 83-03	L18+00E 8 + 40N	168 ⁰	-45 ⁰	230.5m	quartz-feldspar porphyry, Andesite pyroclastic		g/t over 1.4m (13.2 - 14.6m) g/t/1.5m (161.8 to 163.3)
H1 83-04	L21+00E 8 + 50N	168 ⁰	-45°	143.5m		2.47 2.78 3.26 2.57	g/t/0.6m (29.7 - 30.3m) g/t/0.3m (47.0 - 47.3m)
H1 83-05	L20+00E 8 + 00N	168 ⁰	-45 ⁰	125m	Altered Granodiorite - (Chloritized)		g/t/3m (74.3 - 77.3m) 9 g/t/lm (94.6 - 95.6m)
					Highly Altered and or Deformed Granodiorite	6.00	g/t/2.4m (93.2 - 95.6m)
						4.60	g/t/3.4m (93.2 - 96.6m)
					-	2.64	g/t/6m (110.3 - 116.3m)
	•				or	1.34	g/t/51.7m (73.3 - 125.0m)

Results of Drilling

Significant gold mineralization was encountered in holes HI 83-04 and HI 83-05. Hole HI 83-05 encountered a section of Highly Altered and Deformed Granodiorite, grading 0.039 oz/ton over a length of 51.7m (169.6 ft.). Within this section are intersections of 0.30 oz/ton over 1 metre and 0.077 oz/ton over 6m.

The Highly Altered and Deformed Granodiorite in holes HI 83-04 and 05 is considered to be equivalent to material found in mineralized trenches on the shore of Horseshoe Island. Hole HI 83-04 was drilled directly under one of these trenches and intersected 0.043 oz/ton over 10.0m in this material. There is an average of 1% disseminated pyrite with local concentrations of up to 10%, and 1% disseminated magnetite. Visible gold was encountered in one place in this unit and high gold values correspond in a general way with an increase of pyrite.

The Altered Granodiorite (Chloritized) contains trace to .5% pyrite with local concentrations to 3% over widths of less than 1 metre. The granodiorite in these pyritic zones is commonly silicified with grey quartz replacing feldspar. Visible gold was observed at three places in this unit, corresponding to mineralized zones of less than one metre. These mineralized zones assayed up to 4983 ppb Au (.145 oz/ton) over .3m. This unit occurs in holes HI 83-04 and HI 83-05.

Holes HI 83-03 and HI 83-04 terminated in a magnetic Andesite Pyroclastic which correlates with the strongest positive magnetic anomalies of the magnetic survey. Hole HI 83-05, which failed to encounter this Andesite Pyroclastic, was drilled on a conspicuous break in the magnetic anomaly. In Hole HI 83-04, the Highly Altered and Deformed Granodiorite and Andesite Pyroclastic contact correlates with a steep negative resistivity gradient. This gradient may be used to predict the same contact in adjacent sections. This unit assayed up to 1560 ppb Au (.046 oz/ton) over 1.5m in hole HI 83-03 at the feldspar porphyry contact. The unit was barren in HI 83-04.

Hole HI 83-03 penetrated 98m of feldspar porphyry. This unit was intensely silicified in places (explaining the resistivity anomaly) and assayed up to 1060 ppb Au (.031 oz/ton) over 1.4m.

Holes HI 83-01 and HI 93-02 encountered greywacke and intermediate tuff and lapilli tuff without significant gold values.

Sampling and Assaying of Drill Core

Sampling of drill core consisted of a preliminary phase and a followup phase. The preliminary sampling was carried out on site during the drill operations and consisted of splitting and sampling prospective sections of core, particularly sections with substantial pyrite mineralization.

In view of the initial encouraging assay results, the core was retreived prior to break-up and flown to Red Lake, where the entire 990 metres was sampled and sent out. Previously split core was sampled separately from unsplit core, and some of the narrow sample intervals were combined to make the intervals as close to 1.5 metres as possible. Sample intervals in split core, where both halves were assayed separately, were averaged (using weighted averages where necessary) to arrive at a representative assay value for each section. For this reason, the logs of holes 4 and 5 do not refer to a specific sample number.

The assays were carried out by the fire assay - atomic absorption method. Regular check assays were made and, in the case of very high values, a second sample cut was made from the pulp. Correlation of assays between halves of split core was good. A total of 984 samples were analysed. Assay certificates are included as Appendix 2.

The remaining core consists of the split halves of the preliminary sample series. Approximately half of this core was flown back to Horseshoe Island in July, 1983 and is currently stored at 18+00 E, 7+25 N, adjacent to the drill road to HI 83-03. The remaining core is stored in the yard of Green Airways at Red Lake and will be moved to Horseshoe Island during the next phase of drilling as aircraft space permits.

SUMMER 1983 GEOLOGICAL SURVEY

Objectives

A geological survey was carried out on the property between July 10 and July 23, 1983. The purpose of the mapping was to tie in 1982 geological survey to the present grid, determine the extent of the key Highly Altered and Deformed Granodiorite Unit, outline the contact of the Horseshoe Island intrusives as closely as possible, and to test for gold and trace element anomalies.

Results

The geological survey results are presented on Plan 1. The survey allowed rock units described in the drill core to be correlated with surface outcrop, particularly exposures of andesite pyroclastic and feldspar porphyry.

The contact of the Horseshoe Island Intrusive Complex with the enclosing supracrustals is considered a potential site of gold mineralization, and considerable effort was made to map this contact. The eastern contact is north trending and roughly parallel to 19+00 E. Another contact is exposed at the east end of Horseshoe Island at 23+30 E. Shearing is observed in both the granodiorite and tuffaceous volcanics, however, the sheared granodiorite does not resemble the Highly Altered and Deformed Granodiorite and five samples all returned less than 5 ppb Au. No outcrop was discovered between 21+50 E and 22+75 E.

Highly Altered and Deformed Granodiorite is not observed outside the trench area at 21+00 E, 8+00 N. A number of thin sections, whole rock and trace element analyses were made from sample material in this area and the results are described below. In summary, the Highly Altered and Deformed Granodiorite is observed on surface only in the trenches at 21+00 E, 8+00 N, and possibly in a poorly exposed and water-filled pit at 21+25 N, 8+25 N. This surface distribution,

as shown on Plan 1, is somewhat inconsistent with the geology observed in HI 83-04, where the Highly Altered and Deformed Granodiorite is in contact with andesite pyroclastic. Instead, east of HI 83-04, the Highly Altered and Deformed Granodiorite appears to lie within Altered Granodiorite (chloritized), thus raising new questions about the nature of this unit.

Results of Thin Section Analysis

A suite of 33 thin sections were prepared and examined. Of this total, 9 were from core specimens and 24 were from rocks collected during July, 1983. All but two of the thin sections are from gran-odioritic rocks of the Horseshoe Island Intrusive Complex. The location, rock type and other pertinent data for these thin sections is summarized on Table 1.

The Altered Granodiorite (chloritized) and the granodiorite are probably lithologically in the granodiorite range, although feld-spar composition could not be measured. There appears to be 2 feld-spars, a larger phenocryst type, with carlsbad twinning, heavy sericitization and a smaller, probably more sodic feldspar (albite) with prominent albite twinning. Quartz is interstitial to the feldspar. Carbonate is developed locally, probably from Ca released during sericitation combining with hydrothermal CO₂. Primary ferromagnesian minerals are biotite and hornblende. Progressive alteration of these minerals to chlorite with proximity to the Highly Altered and Deformed Granodiorite is observed. Hornblende alters more readily than biotite. Altered Granodiorite (chloritized) is defined as having 50% or more of the biotite and hornblende altered to chlorite and, as defined, represents a halo of approximately 100 m around the Highly Altered and Deformed Granodiorite.

Magnetite is associated with chlorite and is probably both primary and secondary, containing iron released from biotite alteration. Pyrite, based on hand specimen examination, is rare. Pyritic

sections of the Altered Granodiorite (chloritized) are probably associated with fractures that have tapped the same sulphur source (and gold source) as the Highly Altered Granodiorite. A few accessory grains with high refractive index and curving fractures (probably zircon) were observed in most specimens. Examination of the nine thin sections from the drill core indicated a clear distinction between primary poikilitic quartz grains in Altered Granodiorite (chloritized) and rounded deformed quartz in Highly Altered and Deformed Granodiorite, suggesting a common relationship between deformation and gold mineralization. However, examination of thin sections of samples collected in the vicinity of the mineralized trenches indicated a moderate degree of deformation in all samples; this suggests that while intense deformation occurred in the Highly Altered and Deformed Granodiorite, more moderate deformation occurred in the adjacent weakly to non-mineralized Altered Granodiorite (chloritized) than was previously believed.

Highly Altered and Deformed Granodiorite

This rock is a mechanically deformed and, to a lesser extent, a hydrothermally altered equivalent of Altered Granodiorite (chloritized). Quartz grains have been fractured and rounded with highly irregular outlines where some recrystallization has occurred. The grains are highly strained. There is not an appreciable increase in quartz compared with Altered Granodiorite (chloritized).

Feldspar grains are slightly more corroded and sericitized. Shearing is evident in bent and fractured albite twin lamellae. The relative freshness of the smaller feldspar population (albite) is more contrasted with alteration in larger feldspar (oligoclase - andesine) which is 60% to 80% sericite, suggesting some secondary albite has been formed. Chlorite has been almost completely altered to sericite and carbonate. There is an increase in pyrite from 0 to 25% to .5% to 5% with the highest pyrite content in the sample (#1) with the highest gold (4450 ppb). The same accessory

zircon grains are present. Carbonate is more abundant and, in slide #1 with the highest gold, it has replaced almost all of the sericite, even within feldspar grains. Iron, which does not vary significantly chemically, is inferred to move from biotite to chlorite + magnetite to magnetite + pyrite. This suggests that a magnetic anomaly should be present at the margin of the granodiorite, but in Holes 4 and 5 it is masked by the much more highly magnetic andesite pyroclastic.

Examination of the thin sections suggests the following paragenetic sequence from hornblende biotite granodiorite to gold-bearing Highly Altered and Deformed Granodiorite:

- 1. Sericitization of primary feldspar
- 2. Alteration of biotite and hornblende to chlorite
- 3. Fracturing and crushing of poikilitic quartz
- 4. Crystallization of secondary albite
- 5. Alteration of chlorite to magnetite + sericite + carbonate + quartz
- 6. Addition of sulphur and gold
- 7. Development of fine masses of quartz + albite + sericite replacement of primary altered feldspar.

The crystallization of secondary albite (step 4) has been placed somewhat arbitrarily and may occur at other stages. The most critical steps regarding gold mineralization, in addition to step 6, are steps 3 and 5.

The existence of chlorite in samples JB 8301B, 01C and 01D adds a measure of uncertainty in locating the extension of the Highly Altered and Deformed Granodiorite east of 21+00 E. These slides have deformation textures characteristic of the Highly Altered and Deformed Granodiorite, but with 5 to 10% green chlorite. Additional surface work and drilling will be required to resolve this uncertainty.

TABLE 2

IADG = Highly Altered and Deformed Granodiorite AG(c) = Altered Granodiorite (chloritized)

				4.*		
	Slide No.	Rock Type	Location	Au Assay (ppb)	Whole Rock Sample #	Comments
	1	HADG	DDH 5	1445	2375	Carbonate replaces all sericite.
	2 3	AG(c) AG(c)	DDH 5 DDH 5	70 200	3019	Unusually weakly
	4	HADG	DDH 5	1670	2364	deformed.
, -	5 6	HADG HADG	DDH 5 DDH 4	1220 650	2310	
	7	HADG	DDH 5	1675	2349	
	8	AG(c)	DDH 5	Nil	3006	
	9	HADG	DDH 5	180	5000	
	JB83-01A	HADG +	21+15 E,	65	_	Texture as for HADG
	0D03-01A	chlorite	8+00 N	65	_	but contains chlorite.
	01B	HADG-AG(c) transition-	21+15 E, 8+15 N	4 5	-	11 11 11
	Olc	al "	21+15 E, 8+25 N	30	-	11
	01D	II	21+15 E, 8+25 N	125	2420	U
	OlE	AG(c)	21+35 E, 8+15 N	15	. -	Moderate deformation.
	01F	AG(c)	21+50 E, 8+15 N	< 5	2423	
	01G	HADG	21+05 E,			
			8+00 N	45	2424	Unusually low Au assay
	02	AG(c)	20+80 E, 9+60 N	100	-	Moderate deformation.
	04C	AG(c)	23+35 E, 8+80 N	< 5	2428	Mylonitic
	04D	AG(c)	23+35 E, 8+85 N	4 5	_	Highly deformed.
•	14	Greywacke	27+00 E, 6+75 N	4 5	-	Possibly tuffaceous volcanic.
	15 C	AG(c)	19+25 E, 8+25 N	5	2441	Transitional between AG(c) & granodiorite.
	16	AG(c)	19+45 E, 7+87 N	4 5	2444	
	17A	AG(c)	19+75 E, 7+75 N.	< 5	2445	Moderate deformation biotite < hornblende.
	18A	AG(c)	19+25 E, 7+65 N	60	-	Moderate deformation, hornblende < biotite.
	18B	AG(c)	19+25 E, 7+62 N	290	-	Au analysis related to 2-3% pyrite.
	18C	AG(c)	19+25 E, 7+55 N	10	2450	Moderate deformation.

				Au Assay	Whole Rock	
<u>s1</u>	ide No.	Rock Type	Location	(ppb)	Sample#	Comments
JB	83-24A	AG(c)	19+15 E, 7+30 N	4 5	2456	Moderate deformation, biotite present.
	24D	AG(c)	19+15 E, 7+35 N	< 5	-	Moderate deformation, biotite present.
	24E	AG(c)	19+20 E, 7+35 N	< 5	-	Moderate deformation. no biotite.
ů.	25	Granodio- rite	20+75 E, 11+05 N	< 5	-	Biotite replacement of hornblende.
	2405	Granodio- rite	Sudbury Con- tact #5-38m	- 30	2405	Undeformed
j	2410	Granodio- rite	Sudbury Con- tact #5-160m		2410	Undeformed
SH	83-03	Feldspar porphyry	17+00 E, 8+00 N.	5	-	Contains 15% opaque mineral in matrix, non-magnetic.

Major Oxides and Trace Element Analyses

A total of 9 core samples and 13 surface samples were analysed in two batches for major oxides and 26 trace elements by Bondar-Clegg & Company Ltd. The analytical results are included in Appendix 3.

The major oxide analyses are determined by direct coupled plasma atomic emission spectroscopy with samples prepared by the borate fusion method. The trace element analyses are also determined by DCP atomic emission spectroscopy with preparation using a "total extraction" HNO3 - HCl leach. The pulps of drill core were returned from Swastika Labs and forwarded to Bondar & Clegg. pulverizing equipment used at Swastika was found to have contaminated the pulps with chromium and tungsten, and apparent anomalous results for these elements compared to the surface samples have been The major oxide analyses have been divided into six analyses of Highly Altered and Deformed Granodiorite, and 16 analyses of Altered Granodiorite (chloritized) and Granodiorite. averages for each of the major oxides in both groups are shown on Table 3 and indicate a depletion of silica in the Highly Altered and Deformed Granodiorite, compensated by slight increases in the other oxides. The data indicate that there are no alkalai depletion trends characteristic of many gold deposits.

The trace element data do not indicate any other anomalous elements in the Highly Altered and Deformed Granodiorite that approach the magnitude of the gold content in this unit. The gold content of the Highly Altered and Deformed Granodiorite is approximately 300 times background. Silver is approximately 6 times background and arsenic 2 times background.

A number of trace elements, however, are anomalous in sample 2360, with the highest gold assay (11.2 g/tonne Au). Cu and Sn are highy anomalous in this sample, and As is weakly anomalous.

	SiO ₂	Al ₂ O ₃	Feo <u>Total</u>	MgO	<u>CaO</u>	Na ₂ O	K ₂ O	LOI
Average of 6 analyses of Highly Altered and Deformed Granodiorite	60.1	14.30	5.34	1.57	4.17	5.09	1.87	5.08
Average of 16 analyses of Granodiorite and Altered Granodiorite (chloritized)	64.3	15.14	4.90	1.69	3.35	4.87	2.15	4.04

Analyses in Wt %

Sample Numbers for Highly Altered and Deformed Granodiorite:

2310, 2349, 2360, 2364, 2375, 3077

Sample Numbers for Granodiorite and Altered Granodiorite (Chloritized):

2340, 3006, 3019, 3347, 2405, 2410, 2424, 2428, 2432, 2441, 2444, 2445, 2450, 2456*, 2420, 2423, 2433.

* Sample 2456 was omitted from the above average calculation due to anomalous pyrite content.

Recommendations

A second phase of a minimum of 1000 metres of diamond drilling is recommended to follow-up the results of phase 1. Initially hole H1 83-05 would be deepened until a southern contact is established. Subsequently two to three short holes (50 to 100m) will be drilled to further outline the contact of the Highly Altered and Deformed Granodiorite particularly to the west of H1 83-05. The dimensions of this unit will then be outlined sufficiently to place a vertical hole at the estimated center of the unit to a depth of 350 to 400m, to probe for higher grade material at depth.

Immediately prior to drilling a detailed magnetic survey will be carried out on 10 metre centers to assist in outlining the contact of the Highly Altered and Deformed Granodiorite.

Certificate of Qualifications

I James G. Brisco do hereby certify:

- 1. That I reside at 1458 Avenue Road, Apt. 2, Toronto, Ont.
- 2. That I am a graduate of the University of Toronto with the degree of Bachelor of Science Geology, 1976,
- 3. That I have been engaged in mineral exploration for over six years.
- 4. That I personally supervised the drill program, logged the core and prepared the drill logs with respect to this submission. That I supervised the summer geological program, and prepared this report.

-ames Brico

/ Toronto, Oct 14, 1983

APPENDIX 1

Diamond Drill Logs



0M8	2-1-JV	-191						
	TH IS	SUBM	ITTAL	CON'S I	STED	٥F	VARIO	υS
REPO	ORTS, SOI	ME OF	WHICH	HAVE	BEEN	Carr	ED F	ROM
THIS	FILE.	THE	CULLE	MAT	ERIAL	AAD	BEE	. N
PRE	VIOUSLY	SUBM	ITTED	UNDER	THE	Foll	-owiNe	G
REC	ord SER	IES (7	HE Docu	MENTS	CAN	BE V	IEWED	
(14)	THESE	SERIES) :					
HI-83	L HOLES 3-5, Marcharcharcharcharcharcharcharcharcharch			=> MINING		R REP		

APPENDIX 2



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

	Certificate No. Received Mar		49	J	Date: March 23 l	.983	
				Samples of _			
	Submitted by	St. Joe Canada	Inc., Toronto	, Ontario	Att'n: Mr. D. Mc	olloy	
•							_
•	SAMPLE	NO. GOLD PPB	SAMPLE NO	. GOLD PPB	SAMPLE NO.	GOLD PPB	
	2001	Nil	2018	30	2035	30	
	2002	Nil	2019	10	2036	10	
	2003	10	2020	30	2037	30	
	2004	20	2021	10		20	
	2005	30	2022	Nil	2038	10	
		30	2023	Nil	2039	Nil	
	2006	20	2024	30	2040	10	
	2007	10		20	2041	10	
	2008	Nil	2025	30	2042	10	
	2009	Nil	2026	20	2043	10	
	2010	Nil	2027	10	2044	Nil	
	2011	Nil	2028	10	2045	10	
	2012	Nil	2029	Nil	2046	Nil	
	2013	Nil	2030	STIDOS	CANADA INOT	Nil	
	2014	Nil	2031	ATTENTION OF	DEAD: 2048	Nil	
	2015	Nil	2032	10	2049	Nil .	
	2016	Nil	2033	Nil		-2.5 E	Į
•	2017	Nil	2034	0////	3 20 553 u [32/554] on	- 3.5 mg/s	
			:	JB.	3/29/53		
				000	Per J	Libel	
				J.15.K.	G. Lebel - Ma	nager	



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

	Certificate No5	4711				Date:	Marc	h 24 1983		
	Received Mar.21/83			85	Samples of _	spli	t core			
	Submitted by St. Jo	e Canada	Inc.,	Toronto,	Ontario	Att'	n: Mr.	D. Molloy		
	-					Pro	ject -	Horseshoe	Page 1 o	of 2
•	SAMPLE NO.	GOLD PPB				SAMPLI	E NO.	GOLD PPB		
	2050	10	*			2072		270 340		
	2051	30				2073		30		
	2052	Ni1				2074		70		
	2053	10				2074		70 30		
	2054	Nil				2075		80		
	2055	Nil								
	2056	Nil				2077		30 30		
	2057	30				2078		30 50		
	2058	30	1 5	T. JOE C	ANADA INC.	2079		50		
	2059	30		(7:0:8:	AEAD:	2080		130		
	2060	60	PROJE	.51:	FILES	2081		30		
		110		(;	an in the a second consideration and building	2082		70		
	2061	Nil		MAR	28 1983	2083	•	60		
	2062	10	1.071.71	·	and the second s	2084		40		
	2063	10	TO		ROTE ON	2085		60		
	2064	.100	•	,	17/29/0	? 2086		120		
	2065	Nil	J. B			2087		50		•
	2066	110		1		2088		100		
	2067	20				2089		30 -		
	2068	30	NUTE	s: Copy	pr G.R.L.	2090		60		
	2069	30 ·			/	2091		420		
	2070	100	Impacativeza a	en independent gebagge (16 - haftsdeuts	in page vign est annac in a specification of specific			430		
	2071	50				2092		270	Cont'd	• • •

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate No	54711			Date:	March 24	1983	
Received Mar.	21/83	85	Samples of	split core			
Submitted by _	St. Joe Canada	Inc., Toronto	o, Ontario	Att'n:	Mr. D. Mo	olloy	
			Project	- Horseshoe	9	Page 2 of 2	
SAMPLE	NO. GOLD PPB			SAMPLE NO.	GOLD PPB		
2093	30			2115	10		
2094	70			2116	Nil		
2095	100			2117	Nil		
2096	120			2118	Nil		
2097	100			2119	Nil		
	100			2120	Nil		
2098	30			2121	Nil		
2099	30			2122	Nil		
2100	70			2123	Nil		
2101	50			2124	Nil		
2102	Nil			2125	10		
2103	Nil			2126	Nil		
2104	Nil			2127	Nil		
2105	10			2128	Nil		
2106	30			2129	NIL		
2107	10			2130	Nil		
2108	10			2131	Nil		
2109	Nil			2132	Nil		
2110	20			2133	Nil	•	
2111	Nil			2134	20		
2112	30 30				20		
2113	Nil						
2114	10				1		



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate No.	54738			Date:	March 30	1983
Received Mar. 2	5/83	92	Samples of	split co	re	
Submitted by	St. Joe Cana	ada Inc., Toro	nto, Ontario	Pro	ject - Hor	seshoe
					Page 1 of	f 2
SAMPLE NO.	GOLD PPB	SAMPLE I	NO. GOLD PPB	S	AMPLE NO.	GOLD PPB
2135	Nil	2154	20		2173	10
2136	10	2155	80		2174	420
2137	Nil	2156	10		2175	1060
2138	Nil	2157	Nil			1180
2139	30	2158	40		2176	Nil
2140	80	2159	30		2177	Nil
	80	2160	110		2178	Nil
2141	30		100		2179	Nil
2142	Nil	2161	60		2180	10
2143	10	2162	10		2181	30
2144	Nil	2163	Nil		2182	250
2145	Nil	2164	10			270
2146	10ST.	OE CANATA	Nij1		2183	Nil
2147	20	2166	NC.		2184	Nil
2148	10 PROJECT:	1 12167	Nil		2185	10.
2149	N i 1	2168	Nil		2186	Nil
2150		APR 5 19839	Nil		2187	100
2151	10 FERRED		270		2188	100
2152	40	2171 2171	ON 40		2189	30 `
2153	Nil	1.21701	, , I		2190	30
2177	D.M.	// 21//	703 10		2191	60
	J. B.				Cont'd	D

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate No	•	54738	D	ate: March 3	0 1983
Received Ma	ar. 25/83	92	Samples ofsp	olit core	
Submitted by	St. Joe (Canada Inc., Toro	onto, Ontario	Project - H	orseshoe
			-	Page 2	of 2
	SAMPLE NO.	GOLD PPB	SAMPLE	NO. GOLD PPB	
	2192	150	2211	30	
	2193	40	2212	470	
	2194	40		310	
	2195	10	2213	10	
	2196	30	2214	10	
	2197	10	2215	Nil	
	2198	10	2216	Nil	
	2199	30	2217	Nil	
	2200	20	2218	10	
	2201	Nil	2219	Nil	
	2202	Nil	2220	Nil	
	2202	90	2221	Nil	
	2207	50	2222	10	
	2204	70	2223	Nil	
	2205	60	2224	10	
	2206	100	2225	10	
	2207	30	2226	10	
	2208	80			
	2209	70			•

Per.

G. Lebel - Manager

2210

10



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate No. 547	50		Date:	March 31 1983
Received Mar. 28/	83 68	Samples of	split cor	`e
Submitted by St.	Joe Canada Inc., Tor	ronto, Ontario	o Att'n:	Mr. D. Molloy
-				ject - Horseshoe
Page 1 of				
SAMPLE N	O. GOLD PPB		SAMPLE NO	O. GOLD PPB
2227	360		2244	830
2228	10		2245	1340
2229	10		2246	70
2230	Nil		2247	30
2231	10		2248	20
2232	10		2249	Nil
2233	10		2250	260
2234	780		2251	520
0075	680		2252	750
2235	20 ST. JO	E CANADA IN	IC. 2253	750
2236	PROJECT	CM READ:	2254	1280
2237	100	1	2255	170
2238	160	PR 5 1983	2256	10
2239	170		2257	2790
2240	620 REFERRED!	1		3220
2241	90 35	5 WE	2258	960
2242	60	// /7	2259	560
2243	1540 1510	1	2260	270
	NOTES:		Cont'c	J

Per G. Lebel - Manager



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate	No.	54	750					Date:	Ma	arch	31 1983	
Received_	Ma	r. 28/	83		68	Sa	amples of	spl	it co	ore		
Submitted	by	St.	Joe	Canada	Inc.,	Toronto,	Ontario	Att'	n: Mı	c. D.	Molloy	····
			Page	2 of 2	2				Proje	ect -	Horseshoe	
		SAMPLE	NO.	GOLD PPB				SAMPLE I	NO.	GOLI PPB		
		2261		210				2278		180		
		2262		480				2279		2240		
		2263		60				Second Pul	n	2740 2510		
		2264		230				2280	ρ.,	790		
		2265		10				2281		1190		
		2266		220				2282		80		
		2267		40				2283		3160		
		2268		420						2550		
		2269		10				2284		70		•
		2270		300				2285		1680		
		2271		2130				2286		480		
				1690				2287		830		
		2272		580				2288		170		
		2273		51.0				2289		250		
		2274		40				2290		1080		
		2275		80						1030		
		2276		900				2291		510		
		2277		160				2292		930		
								2293		340		

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2294

G. Lebel - Manager

930



P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate No	o	54780		-	Da	nte:	April	7 1983	<u>.</u>	
ReceivedA	\pr.4/8	33	92	Samples of	f spl	it core				
Submitted by	St.	Joe Canada	Incorporated,	Toronto,	Ontari	o A	tt'n:	Mr. D.	Moll	oy
				Pi	roject	- Horses	hoe	Pag	e l o	f 2
SAMPLE	NO.	GOLD PPB	SAMPLE	NO. GOI		S	AMPLE	NO.	GOLD PPB	
2295		850	2314	410)		2334		1640	
2296		1260	2315	430	כ				1650	
2297		1590	2316	180)		2335		410	
2298		880	2317	110	כ		2336		320	
2299		1830	2318	10)		2337		340	
2300		2330	2319	10			2338		540	
		3090	2320	10			2339		30	
2301		1430	2321	730			2340		5930	
2302		1250	2322	020	1 .	-		1	5560	
2303		1740 1920		ST820	DE CAL	NADA IN	@341 2342		30 620	
2304		230	2323	PROJECT:	1	FILE:	2343	i	30	
2305		1570	2324	40	•		2344		30	
2306		470	2325	70	APR I	3 1983	2345		10	
2307		100	2326	3()			j	260	
2308		300	2327	REFEREZO) cii	READ BY	2346	4		
			2328	630		ASU (XI	2347	1	660	
2309		100	2329	350		12	12/48		6520 5830	
2310		610	2330 '	<u> </u>	•		2349	į	1800	
2311		270	2331	140	,	1	-2350	1	1080	
2312		180	2332	NoT180)		2351	1	1020	
2313		700 620	2333	550)		2352	i i	1130	Cont. d

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE; (705) 642-3244 __ ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

	Certificate No.	54780			Date: Ap	ril 7 1983	
	Received_Apr.	4/83	92	Samples of	split core		· · · · · · · · · · · · · · · · · · ·
	Submitted by _	St. Joe	Canada Incorpo	rated, Toronto,	Ontario	Att'n: Mr.	D. Molloy
-				Projec	t – Horseshoe	Page	2 of 2
		SAMPLE NO.	GOLÐ PPB		SAMPLE NO.	GOLD PPB	
		2353	270		2371	1250	
		2354	260		2372	2240	
		2355	480		2373	4310	
		2356	2040 1990		2374	4870 2530	
		2357	2070		2375	3000	
	•	2358	340			3090	
		2359	2520		2376	830	
		2360	10080		2377	310	
	Soos	ond Pulp	10560 11590		2378	600	
	3600	•			2379	180	
		2361	820		2380	20	
		2362	1460		2381	1780	
		2363	610		2382	1940	
		2364	1740		2383	140	
		2365	920		2384	2390	
		2366	470			2810	
		2367	380		2385	1130	
		2368	580		2386	30	
		2369	270				
		2370	1860				

Per J. July





P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate	No	548	52				Date	:	April 22 1	1983	
Received_	Apr.20	/83		34		Samples	of whol	e and	d split cor	re	
Submitted	by St	. Joe	Canada	Inc.,	Toronto	o, Ontar	io Att'n	: Mr	. D. Molloy	/	
								Proj	ect – Horse	eshoe	
	SAMPLE	NO.	GO PPI				SAMPL	E NO	. GOLD)	
	3001		Ni	1			302	1	Nil		
	3002		38				302	2	30		
			42				302	3	10		
	3003		Ni.]	The Part of the San Part of th	L browner and an	302	4	70		
	3004		3) ! !		JOE C	ACANA	INC. 302	5	400		
	3005		3	OATTENTIO	MII	READ:			450		
	3006		Ni	1 PROJECT	; 	5 (E.)	302		340		
	3007		N		100		302		210		
	3008		N1	1	APR	56 Jäsa	3 02	8	320		
	3009		\$1	PEFFF RED	ON		 - 3 02	9	10		
	3010		31	0			303	0	220		
	3011		Ni.	1 /		1	7/1/5/303	1	170		
	3012		B (ا ﴿ ﴿ وَ		H.	1/21/63303	2	440		
	3013		Ni.	í	/		, ,		410		
	3014		10	0 ;			303	3	20		
	3015		Ni.	1			303	5	Nil		
	3016		Ni.	1							
	3017		130	0	P - 111		•				
	3018		91							•	
	3019		71								

Per __

G. Lebel - Manager

3020

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate No.	54837			Date:	April 21 1983	
Certificate No	24027			Date	API11 21 1707	
Received Apr.	18/83	78	Samples of _	split and	whole core	
Submitted by _	St. Joe Cana	da Inc., Tor	onto, Ontario	Att'n:	Mr. D. Molloy	
		Project -	Horseshoe	j	Page 1 of 2	
SAMPLE	NO. GOLD PPB			SAMPLE NO.	GOLD PPB	
3034	1400			3055	300	
	1650	go a sent do senza el perío de del sel sel sel sel sel		3 056	370	
3036	130	ST. JOE (CANADA INQ. Mureada	[‡] 3057	Nil	
3037	810	FROJECT:	FILE:	3058	Nil	
3038	Nil	,		3059	Nil	
3039	Nil	APR	25 1983	3060	Nil	
3040	30	,,, .,		3061	Nil	
3041	180	REFERRED : CH	READ OF ON	3 <u>0</u> 62	80	
3042	Nil		320 1425	3063	1060	
3043	Nil	10	A which	7 3064	3650	
3044	Nil	1-5	P. Jey	, , , , , , , , ,	3980	
3045	60		1 26/4	83065	1500	
3046	170	NUTES:		3066	1090	
3047	680			3067	270	
3048	160	The Resemble of the second second second second	المقطعة والمراجعة والمعارية والمعارضة والمعارض	3068	1080	
3049	30			3069	1880	
3050	140				1780	
3051	180			3070	390	
3052	4050			3071	160	•
, 0,2	4390			3072	870	
3053	70			3073	1460	

Per_

3074

G. Lebel - Manager

Nil

Cont'd....

3054

Nil



Nember Canadian Testing

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ● ASSAYERS ● CONSULTANTS

Certificate of Analysis

Certificate No	54837			Date:	April 21 1983
Received Apr.18/	83	78	Samples ofs	plit and w	hole core
Submitted by <u>St.</u>	Joe Canada	Inc., Toronto,	Ontario	Att'n:	Mr. D. Molloy
•	·	Project - Hors	eshoe		Page 2 of 2
SAMPLE NO.	GOLD PPB		SAMP	LE NO.	GOLD PPB
3075	270		30	94	1550
3076	530		30	95	2020
3077	1470				1650
3078	560			96	300
3079	100			97	430
3080	Nil		30	98	700
3081	690		30	99	380
3082	2460		. 31	00	1020
3083	1590		31	01	2740
3084	9060		31	02	2510
	8580		31		4600
Second Pulp	10390		71		4670
3085	1610			04	2640
3086	810			05	2620
3087	2220			06	890
3088	420			07	400
3089	270			08	130
3090	80		31	09	Nil
3091	460		31	10	750
3092	1260		31	11	1860
3093	340		31	12	2870 3160
				-	Hys (ISL)
				Per G. L	ebel - Manager

ESTABLISHED 1928



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certifica	te No	54853						Date:	April 22	1983		
Received	Apr.	20/83		114		Sam	ples of _	wh	ole core			
Submitte	ed by	St. Joe	Canada	Inc., I	oron	to,	Ontario		Att'n: Mr. D.	Mol	loy	
							Pı	roject	– Horseshoe	Pa	age l of	2
SAI	MPLE NO.	GOLD PPB		SAM	PLE	NO.	GOLD PPB		SAMPLE N	10.	GOLD PPB	
	3301	40		3	320		1330		3340		50	
	3302	130		3	321		50		3341		320	
	3303	40		3	322		80		3342		3700	
	3304	70		3	323		130				3570	
	3305	420		3	324		1940		3343		440	
)		470					1700		3344		110	
	3306	100		3	325		240		3345		430	
	3307	30		3	326		1820		3346		240	
	3308	50		3	327		80		3347		1230	
	3309	60		3	328		900		3348		1030	
	3310	Nil		3	329		910				1130	
	3311	80		3	330		480		3349		340	
	3312	50		3	331		80		3350		3070 3430	
	3313	4050		3	332		230		Second Pulp) 	4080	
		3640		3	333		90		3351		350	
	3314	200		3	334		340		3352		610	
	3315	30			335		Nil		3353		470	
	3316	180			336		140		3354		220	
	3317	520			337		Nil		3355		780	
	3318	30			338		150		3356		920	

Per_

G. Lebel - Manager

Cont'd....

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

	Certificate No.	54853			Date: April 22 1983		
	Received Ap	r.20/83	114 Sam	ples of	whole core		
	Submitted by	St. Joe Canada	Inc., Toronto, Or	ntario	Att'n: Mr. D. Moll	oy	
-			Project - H	Horseshoe	Page 2	of 2	
•	SAMPLE	NO. GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	
	3357	160	3376	130	3396	Nil	
	3358	760	3377	30_	3397	Nil	
	3359	1360	3378	10	3398	Nil	
	3360	1060	3379	30	3399	Nil	
	3361	1910	3380	20	3400	10	
	3362	2350	3381	10		20	
		2470	3382	30	3401	Nil	
	3363	1820	3383	Nil	3402	Nil	
	3364	1200	3384	Nil	3403	Nil	
	3365	1100	3385	Nil	3404	Nil	
	3366	100	3386	Nil	3405	Nil	
	3367	2370	3387	Nil	3406	Nil	
	77.40	3290	3388	Nil	3407	Nil	
	3368	160	3389	Nil	3408	Nil	
	3369	730	3390	Nil	3409	Nil	
-	3370	800	3391	Nil	3410	10	
	3371	350	3392	Nil	3411	Nil	
•	3372	310	3393	Nil	3412	Nil	
	3373	800	3394	Nil	3413	Nil	
	3374	330		Nil	3414	Nil	
	3375	350	3395	MII			

G. Lebel - Manager

3375



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

	Certificate No5	4858			Date: April	26 1983	-
	Received Apr. 20/8	3	85 8	Samples of	split and whole	core	
	Submitted by St.	Joe Canada	Inc., Toronto	o, Ontario	Att'n: Mr. D.	Molloy	
•			Project -	Horseshoe	Page	elof2	· · · · · · · · · · · · · · · · · · ·
•	SAMPLE NO.	GOLD PPB	SAMPLE N	IO. GOLD PPB	SAMPLE	NO. GOLD	
	3415	10	3437	Nil	3459	Nil	
	3416	30	3438	60	3460	30	
	3417	1030 1000	3439	60 30	3461	30 10	
	Second Pulp	1000	3440	30	3462	20	
	3418	340	3441	Nil	3463	10	
	3419	Nil	3442	Nil	3464	Nil	
	3420	10	3443	Nil	3465	Nil	
	3421	20	3444	Nil	3466	10	
	3422	60	3445	Nil	3467	Nil	
	3423	30	3446	Nil	3468	Nil	
	3424	10	3447	Nil	3469	Nil	
	3425	30	3448	20	3470	Nil	
	3426	10		10	3471	Nil	
	3427	Nil	3449	10	3472	Nil	
	3428	Nil	3450	Nil	3473	Nil	
	3429	Nil	3451	Nil	3474	30	
	3430	Nil	3452	Nil	3475	10	
	3431	Nil	3453	Nil	3476	Nil	
	3432	10	3454	10	3477	Nil	
	3433	10	3455	Nil	3478	Nil	
	3434	Nil	3456	Nil	3479	Nil	
	3435	Nil	3457	10	3480	Nil	
	3436	Nil	3458	Nil	1	_	1

Cont'd....

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No	54858				Date:	April 26 198	B3	
Received Apr.	20/83	85	S	amples of	split a	and whole core	е	
Submitted by _	St. Joe	Canada Inc.,	Toronto	, Ontario	Att'r	n: Mr. D. Mol.	loy	
		Р	roject -	Horseshoe		Page 2 of	2	
		SA	MPLE NO.	GOLD PPB				
		,	3481	Nil				
			3482	Nil				
			3483	Nil				
			3484	Nil				
			3485	Nil				
			3486	Nil				
			3487	Nil				
			3488	50				
			3489	80				
			3490	30				
			3491	1450				

Nil

Second Pulp 1380



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

	Certificate No.	54860			Date: April 26	1983	
	Received Apr.2	0/83	103 S	amples of	whole core		
	Submitted by	St. Joe Ca	nada Inc., Toronto	o, Ontario	Att'n: Mr. D.	Molloy	
-			Project – Horse	eshoe	Page 1 of	f 2	
ı	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	
	3500	720	3520	30	3542	Nil	
		780	3521	Nil	3543	Nil	
	3501	10	3522	10	3544	Nil	
	3502	10	3523	20	3545	Nil	
	3503	40	3524	10	3546	Nil	
_	3504	10	3525	10	3547	Nil	
	3505	10	3526	Nil	3548	Nil	
	3506	Nil	3527	140	3549	Nil	
	3507	Nil	3528	10	3550	Nil	
	3508	Nil	3529	130	3551	Nil	
	3509	470	3530	300	3552	Nil	
	3510	320	3531	Nil	3553	Nil	
	3511	900	3532	400	3554	Nil	
	Second Pulp	930 1180))) <u>L</u>	310	3555	Nil	
	3512	310	3533	10	3556	Nil	
	3513	370	3534	Nil	3557		
			3535	Nil		Nil	
	3514	30	3536	Nil	3558	Nil	
	3515	10	3537	Nil	3559	Nil	
	3516	10	3538	Nil	3560	Nil	
	3517	70	3539	Nil	3561	Nil	٠
	3518	680 630	3540	Nil	3562	10	
	3519	10	3541	Nil	Cont	'd	
	ノノエノ	10	ノノヤエ	1144			

Per ______



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate No	54860	·	Dat	e: <u>April 26 19</u>	83
Received Apr.	20/83	103	Samples ofwl	nole core	
Submitted by	St. Joe Cana	ada Inc., To	ronto, Ontario	Att'n: Mr. D. M	olloy
		Project – Ho	orseshoe	Pag	e 2 of 2
	SAMPLE NO.	GOLD PPB	SAMPLE	NO. GOLD PPB	
	3563	10	3587	Nil	
	3564	10 10	3588	Nil 10	
	3565	10	3589	Nil	
	3566	Nil	3590	Nil	
	3567	Nil	3591	Nil	
	3568	Nil	3592	Nil	
	3569	Nil	3593	Nil	
	3570	Nil	3594	Nil	
	3571	Nil	3595	Nil	
	3572	Nil	3596	Nil	
	3573	Nil	3597	Nil	
	3574	Nil	3598	Nil	
	3575	Nil	3599	Nil	
	3576	Nil	3600	Nil	
	3577	Nil	3601	Nil	
	3578	Nil	3602	Nil	
	3579	10			
	3580	Nil			•
	3581	Nil			
	3582	Nil			
	3583	Nil			
	3584	Nil		1	~ 1
	3585	Nil		le co	
	3586	Nil	Per		rbef

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

	Certificate No.	54863	······································		Date:	April 26 1983	
	Received Apr. 22/83		96	Samples of	Whole c	ore	
	Submitted by St. Joe	Canada	Incorporated	, Toronto,	Ontario	Att'n: Mr. D.	Molloy
			Project -	Horseshoe		Page 1 of 2	
	SAMPLE NO.	GOLD PPB	SAN	MPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
	3603	Nil	•	3626	Nil	3650	Nil
	3604	Nil	- ***	3627	10	3651	10
	3605	Nil		3628	10	3652	Nil
	3606	Nil		3629	Nil	3653	Nil
	3607	rNil-		3630	Nil	3654	10
_	3608	NIANTIO	JOE CANADA		Nil	3655	30
	3609	Nitres	- F6444 -	3632	Nil	3656	Nil
	3610	Nil		3633	Nil	3657	10
	3611	Nil	APR 28 198	3634	Nil	3658	10
	3612	Ni-l	The state of the s	3635	Nil	3659	10
	3613	Nil2	رغاء المحافظة الأوادية (م. 1975). معاملة معطومة الرائيسة المحاسسة معرودة (م.		Nil	3660	30
		10		363787	Nil	3661	60
	3614	Nil	1 4/25/	3638	Nil		70
	3615	10	8	3639	Nil	3662	30
	3616	Nil	(NB)	3640	Nil	3663	20
	3617	Nil	Rolina	3641	Nil	3664	30
	3618	10	70	3642	Nil	3665	Nil
	3619	-N11		3643	Nil	3666	60
	3620	Nil	i R	3644	Nil		. 90
	3621	10		3645	Nil	*** 3667 3668	Nil
	3622	Nil	-	3646	Nil	3669	Nil
	3623	Nil	;	3647	Nil		· 1 a. a.
_	3624	Nil	<u> </u>	3648	Nil	ont'd	
J	3625	Nil	3	3649	Nil	1 1	1

NOTE: *** Indicates where two sample tickets were found in one sample bag.

G. Lebel - Manager

Mamber Canadian Testing Association



P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No	548	63			Date: _	April 26 1983		
Received Apr.2	2/83		96	Samples of	whole	core		_
Submitted by	St. Joe	Canada Ind	corporated,	Toronto,	Ontario	Att'n: Mr. D.	. Molloy	
			Project -	Horseshoe		Page 2 of 2		
SAM	PLE NO.	GOLD PPB			SAMPLE NO	GOLD PPB		
3	670	Nil			3691	40		
3	671	Nil				40		
3	672	Nil			3692	Nil		
3	673	Nil			3693	Nil		
3	674	Nil			3694	Nil		
3	675	10			3695	Nil		
3	676	Nil			3696	Nil		
	677	Nil			3697	Nil		
3	678	Nil			3698	Nil		
	679	Nil			3699	Nil		
3	680	Nil			3700	Nil		
3	681	Nil						
3	682	Nil						
3	683	Nil						
3	684	Nil						
3	685	Nil						
3	686	10						
3	687	10						
3	688	Nil						
	689	Nil						
	690	Nil						



P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

	Certificate No.	54872				-	Date:	April 2	7 1983	_
	ReceivedA	or.20/83		88		Samples of	whole c	ore		_
	Submitted by	St. Joe	Canada	Inc.,	Toron	to, Ontari	о А	tt'n: Mr. D	. Molloy	_
			-	Proj	ect -	Horseshoe		Page	1 of 2	
•	SA	AMPLE NO.	GOLD PPB			Si	AMPLE NO.	GOLD PPB		
		3701	Nil				3723	Nil		
		3702	Nil				3724	Nil		
		3703	Nil				3725	10		
		3704	Nil				3726	Nil		
		3705	Nil				3727	Nil		
		3706	10				3728	Nil		
		3707	Nil	p	-		3729	30		
		3708	Nil	ST.	JOE		N3230	60		
		3709	Nil	PROJECT	M	READ:		50		
	**	3710	Nil			FILE:	3731	Nil		
		3711	į		MAY	<i>≵</i> 1092	3732	Nil		
		3712	Nil		171/11	2 1983	3733	Nil		
		3713	ــــرٔ	REFERRED TO	ON	READ BY	3734 0435	Nil		
		3714	Nil			75A 51	373 3	Nil		
		3715	Nil	251			3736	Nil		
		3716	130 140	1/5		1/2 3/3	SA	Nil		
		3717	Ni I		V	1 1'	3738	Nil		
		3718	Nil	OTES:	-		3739	Nil		
			Nii.				3749	Nil		
		3719 3720	Nil Nil	T. A CONTRACTOR	****	معالمة مولية والمقالمة المقالمة والمقالة والمراجع المراجع	3741	Nil		
							3742	10		
		3721	Nil				3743	Nil	Cont'd	
		3722	40				3744	Nil		

NOTE: ** Indicates where two sample tickets were found in one sample bag.





P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS ◆ ASSAYERS ◆ CONSULTANTS

Certificate of Analysis

Certificate No. 54872		Date: Apr	il 27 1983
Received Apr. 20/83	88 Samples of	whole core	
Submitted by St. Joe Canada	Inc. Ioronto Ontario	Attin. Mr	D. Molloy
Submitted by		<u>-</u>	
	Project – Horseshoe	Page 2	of 2
SAMPLE NO. GOLE PPB) S		OLD PB
3745 Nil	•		il
3746 10			10
3747 Nil		3769 N	il
3748 Nil		3770	10
3749 Nil		3771	10
3750 Nil		3772	30
3751 Nil		3773	20
3752 Nil		3774	30
3753 Nil		3775 N	il
3754 Nil		3776	30
		3777	10
3755 Nil		3778	30
3756 100 100			30
3757 Nil			30
3758 Nil		3780	20
3759 30		3781	10
3760 Nil		3782 N	il
3761 20		3783 N	lil .
3762 10		3784 N	lil
3763 30		3875 N	il
3764 10		3786 N	il
3765 10		3787	10
3766 Nil		3788 N	il .
			il ,
3767 Nil			, PII

APPENDIX 3

REPORT: 113-1817								PROJ	ECT!			PAGE	1
SAMPLE ELEMENT NUMBER UNITS	SiO2 PCT	TiO2 PCT	A1203 PCT	Fe203# PCT	Mn0 PCT	Ms0 PCT	CaO PCT	Na20 PCT	K20 PCT	P205 PCT	LOI PCT	S PCT	NOTES
2405 2410	63.60 65.60	0.50 0.50	14.90 15,30	4.79 4.91	0.06 0.06	1.72 1.65	3.79 3.40	4.58 5.32	2.23 1.88	0.05 0.05	3.95 2.95	0.07 0.05	
2424 2428 2432	62,70 65,70 64,20	0.50 0.57 0.44	14.60 16.20 14.60	4.74 5.17 4.48	0.07 0.05 0.07	1.74 1.94 1.59	3.94 1.69 4.11	6.68 4.82 4.55	1.85 3.51 2.10	0.16 0.01 0.09	5.70 3.00 5.00	0.04 0.07 0.04	
2441 2444 2445 2450	64.10 66.20 63.70 65.60	0.55 0.55 0.54 0.56	15.70 16.10 15.00 15.00	5.06 4.77 4.78 4.91	0.07 0.06 0.06 0.08	1.78 1.69 1.65 1.21	3.60 2.56 3.66 1.87	4.76 5,00 4,98, 4.59	2.60 2.14 2.05 2.76	0.09 0.09 0.07 0.08	4.50 3.60 4.75 3.30	0.01 0.03 0.04 0.09	as cyclos
2456	57.30	0.80	16,90	7,88	0.09	2.06	3,30	4.06	3.82	0.30	4.70	0.02	
						·. 1		1.5	Ne ve	grider _i		88) ₍₁	n property

										\$ \$\$\$	44.4		e de la companie
		· ·											
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										Tagasa	1		





Geochemical Lab Report

FORT: 11	3-2029								PRO.	ECT:			PAGE	1	
SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	A1203 PCT	Fe203* PCT	Mn0 PCT	Ms0 PCT	CaO PCT	Na20 PCT	K20 PCT	P205 PCT	LOI PCT	S PCT	NOTES	
2420 2423 2433		63.60 65.00 65.30	0.49 0.53 0.50	15.20 15.80 15.40	4.57 4.82 4.73	0.06 0.06 0.06	1.66 1.73 1.74	3.69 3.12 3.44	4.86 5.09 5.07	2.31 2.37 1.64	0,13 0,20 0,18	4.95 3.95 2.75	<0.01 0.04 <0.01		
						10		***						3 ()	
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											1				
										2468					
•		7.4													eri.

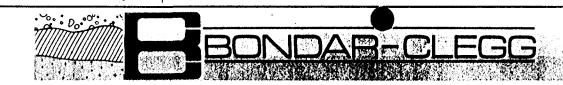


Geochemical Lab Report

REPORT:	213-1817/31	3-1817	FROJEC	T :									FAGE	1					15.50		
SAMPLE NUMBER	ELEMENT	Çu FPM	Pb PPM	Zn FFN	Mu FFH	Co FFN	Ni FFM	Cr PPM	Mn PPM	Cd PPM	eĥ M94	Eí PPM	Fe PCT	As FPN	Te PFM	Sb PPK	Se PPM	Sn PPM		NOTES	
2405 2410 2424 2428 2432		22 21 24 11 4	16 16 9 9	66 69 49 57 45	12 1 1 3	14 13 14 11	37 28 23 22 16	32 29 24 25 18	448 490 621 428 523	<0.5 <0.5 <0.5	<0.2 <0.2 <0.2 <0.2 <0.2	<2 <2 <2 <2 <2 <2	3.08 3.18 2.84 2.83 2.71	(4) (5) (5) (5)	⟨3 ⟨3 ⟨3 ⟨3 ⟨3	√2 √2 √2 √2 √2 √2	\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<1 / <1 / <1 / <1 /			
2441 2444 2445 2450 2456		21 15 16 8 12	24 14 21 14 20	90 63 99 71 83	5 1 (1 (1 (1	14 10 14 10 23	26 21 25 23 28	34 32 30 54 49	479 421 474 525 605	<0.5	<0.2 <0.2 <0.2	<2 <2 <2 <2 <2 <2	2.90 2.60 2.92 2.88 5.35	<5 <5 <5 <5 <5	<3 <3 <3 <3 <3 <3	<2 <2 <2 <2 <2 <2 7	<5 <3 <5 <5 <5	3 2 3 (1)			
																				i N	1
																			119		

Clegg & Com

Afast Road awa, Ontario anada K1G 0Z5 Ahone: (613) 237-3110 Telex: 053-4455

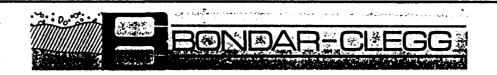




\$ 13 a

REPORT:	213-2029/	313-	2029														P	ROJECT:		PAGE 1
SAMPLE NUMBER	ELEMENT		Cu PPM	F'b FFN	Zn PPN	Mo M 111	Co FPM	Ni PPK	Cr PPM	Mri PPM	Cd PPM	PPM As	Bi PPM	Fe FCT	V.	As PPM	Te PPM	U PFM	₩ PPM	Sb Se Sn NOTES FPM FFN PPM
2420 2423 2433			18 8 9	15 11 22	68 50 61	3 2 4	12 10 14	23 16 24	31 22 30	465 381 552	<0.5 <0.5 <0.5	<0.2 <0.2 <0.2	2 2 <2	30.8 23.9 34.2	86 65 87	8 <5 <5	<3 <3 <3	<2 <2 <2	(1 (1 (1	3 9 2 <2 <5 <1 4 <5 1
			-					1								10 to 10				
												•								
																			-	





Geochemical Lab Report

	San Care Care	10.0	PROJECT:	PAGE 1
SAMPLE ELEMENT NUMBER OF UNITS		SAMPLE NUMBER	ELEMENT AU wt/Au Units PPB GH	TOR STATE OF THE S
2401 2402 2403 2404 2405		2454 2455 2456 2457 2458	<5 20 <5 <5 <5	
2406 2407 2408 2409 2410	49 5 14 (14) (15) (15)	2459 2460 2461	<5 <5 <5	
2411 2412 2413 2414 2415	20 <5 <5	2417 2418 2419 2420 2421	65 (5 30 125 15	
2416 2124 2428 2429 2430	45 (5	1423 2425 426 2427 2433	(5) 40 (5) (5) 10	
2431 2432 2434 2435 2436	<5 100 <5 10 25	2439	(5 /2)	
2437 2438 2440 2441 2442	<5 <5 <5 <5 5 170			
2443 2444 2445 2446 2448				
2449 2451 2452 2453	290 10 35 1840 290			

Geochem Lab Rej

Analyses of Horseshoe Island Drill Core

ſ	REFORT	: 013-0959 FF		. <u>J</u>								PAGE 1	<u></u>		
Ĺ	INE UNI) ATA A101 11	/00cc1+		,						4-44	INUL .	1	***************************************	-
		Au ELENEN ppb UNITS		TiO2 PCT	A1203 PCT	Fe203‡ PCT	Mn0 PCT	Ms0 PCT	0s0 TOP	Na20 PCT	K20 PCT	F205 FCT	LOI PCT		NOTES
ţ	ST univer			} U)		101		101						-14-4-12-12-12-1	
5 3	2310	-610 5930	60.80	0.49	13.90	4.57	0.07	1.11	4.86	5.72	1.30	0.23	5.00		***
7	2340	1800	63.20	0.53	14.80	5.01	0.06	1.77	3.03	4.10	1.88	0.13	3.00		1
10	2349	11180	62.60	0.48	13.60	4.74	0.03	1.63	3,60	4.83	1.63	0.20	4.75		ļ
8	2000	1740	58.00	0.60	13.20	6.32	0.08	1.78	4,10	2.44	1,45	0.21	5.45		,
	2364	T140	58.90	0.60	14.10	6.34	0.03	1.30	4.22	5.86	1.47	0.26	5.00	· Angelogge og	****
9 :	2375	3045	56.20	5.72	16.40	5.30	0.05	1,25	4.05	1.59	2,59	0.22	5,00	************	
1	3006	NIL	63.80	0.51	15.20	5.18	0.07	1.80	4,35	4.27	1.64	0.16	4,20		ļ
2	3019	70	63.00	0.53	13.90	5,81	6.06	1.58	3,26	4.21	1.59	9.25	1.70		,
5	3077	1750	62.10	0.52	14.60	4.75	0.07	1.32	3.75	4.03	2,40	0.24	5.25		
4	3347	1230	63.20	0.50	14.60	4.74	0.06	1.64	4,15	5.03	1.65	0.23	1.45		,
11		377	55.86	0.55	5 16.8	38 4.76	6 0.05	0.94	4.81	4.07	3.95	0.11	4.99) 	
: :	SAMPLE			fb	Zn		Co	Ni	13	Mn	63	ห้ร	31		HOTES
1	MEMBER	UHITS	FFH	K4.3	PPA	FFM	Kaa	PFM	ffh	FFH	PFN	PPM	PPM	FCT	
5	2310	610	29	13	37	2	16	30	591	675	<0.5	1.6	√2	2.3	
3 !	2340	5930	35	18	71	2	19	31	516	496	<0.5	1.8	<2	3.0	ŗ
7.	2349	1800	23	14	6 7	6	15	31	509	571	<0.5	0.9	<2	2.7	Ī
10		11980	119	25	55	2	27	42	528	630	<0.5	2.0	₹2	4.3	ŀ
3	2364	1740	10	17	49	2	18	23	420	465	<0.5	0.9	<2	3.0	
9	2775	3045	45	26	53	9	19	29	415	753	<0.5	2.0	⟨2	3.1	John Co. on Bridge Wat
1	2375 3006	nir	45 24	26 18	53 63		13	27 30	413 678	573	<0.5	0.6	₹2	2.9	Ī
2	3006 3019	70	30	20	79	√1 √1	18	25	41	554	<0.5	0.9	⟨2	3.2	ŀ
6		1750	30 30	20 15	77 44	1	14	23 27	312	493	<0.5	0.7	⟨2	2.6	1
4	307 <i>7</i> 3347	1230	30 22	15 11	44 51	2	14	24	312	473 511	<0.5	1.0	3	2.1	İ
11	3347	377		11		£	17		311	911	,	114		411	
1			V			ann an ann an agus agus agus agus agus agus agus agus	<i>V</i>			. 5 dagaar producer govern cap	e g fir t even e disse de t de quillière e c	-	Market and Company of the Company		and the second s
	SAMPLE	ELEMENT	T V	ÁS	Te	V	¥	Sb	Se	Sn				ł	NOTES
***	NUMBER	UNITS	KAA	Hqq	Kee	FFH	PPH	fph	PPH	Kaa				Car D C Trans Cod (Mr. 1864)	
	2310	610	106	<5	⟨3	<2	36	⟨2	<5	⟨1	*********	- 419 10111 0110	*** ***** * * **	p. 4 - 4 - 4 - 4 - 4	
	2340	5930	96	< 5	3	⟨2	10	⟨2	₹5	2					I
	2349	1800	96	< 5	<3	√2	24	⟨2	₹\$	41	_				
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	2001		6 o r							**************************************	erando en esperante				
:	2375	3045	110	8	6	<2	28	<2	< \$	2					
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t	3077	1750	82	12	<3	<2	20	<2	< 5	<1					I
	3347	1230	81	<u> </u>	<u>, ⟨3</u>	<2	16	√2	√5	<u> </u>					
	16 8 GLOUISE WASSEL SERWINKER	gain go agus ann to the time agus an anna d'inn dh' ann ann	k i religi, person aller i di sergi gilane più i ti til 1888 den i ri	a g a Shringish pa		A MARIE AND THE STATE OF THE ST	in a distribution of the second secon	- 21762 de 40 Marie						., 40 steroub 10, m	

