Diamond Drilling



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Township of ZAVITZ

Report Nº: 11

Work performed by:

Gulf Minerals Canada Limited

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L 371765

L 353177-8

L 371763-4

L 353178

L 371763

L 353177 ·

L 381311

Iole Nº	Footagu	Date	
Z-1	546.0'	Nov/75	
Z-2	527.0'	0ct/75	
Z-3	706.0'	0ct/75	
Z-4	677.0'	0ct/75	
Z-5 (6)	554.01	0ct/75	
Z-7	618.0'	Nov/75	
Z-8	402.01	Nov/75	
Z-9	507.01	Nov/75	

Notes:

(1) #48-76

(2) #277-75

WIL 004(7-60) tev. 9-72

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ZAVITZ TOWNSHIP EXPLORATORY DRILLING PROGRAM (ALLERSTON OPTION)

> M. V. White February, 1976



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ZAVITZ DRILLING PROGRAM

INTRODUCTION

Two blocks of claims in the south eastern part of Zavitz Township, District of Timmiskaming, Ontario, were optioned from Ralph Allerston of Timmins because of their potential for containing a possibly economic volcanogenic massive sulphide deposit.

Geological mapping and detailed magnetometer and E.M. surveys completed by Falconbrdige in 1974 indicated a number of conductors that were potential drill targets. Plans by Falconbridge to drill the property were never realized. Allerston offered the property to Gulf in 1975, and 5,000 feet of exploratory drilling were undertaken to test its potential.

LOCATION AND ACCESS

The claims are located at the south east corner of Zavitz Township, approximately 30 miles south west of Timmins, Ontario. Latitude 48°02', Longitude 81°07'. N.T.S. reference 42 A/3. Access to the property is provided by logging roads connecting the well travelled Timmins-Matachewan road traversing the south part of Zavitz Township.

The claim groups are referred to here as the South Claim Group and the North Claim Group, comprising 15 claims totalling approximately 600 acres, and 16 claims totalling approximately 640 acres respectively. Figure 1 locates the individual claims which are as follows:

North Group:

L353173 to L353181;L371180; L371181; L371158; L371159; L371917; L371918.

South Group:

L371762 to L371765; L372594 to L37596; L379989; L381308 to L381315.

0: Rustcn 353179 -353176 353173 Nighthawk Loke 371917 135/3180 353177 337299 353174 387302 387305 :3873 04 371759 3:3191 353178 354533 13:77:8 353175 \$71755 1397035 1 367083 337080 1 354535 1354534 387307 1353105 353164 371120 1371-81 7313 1337 312 387325 387324 387024 337079 337120 387315 387314 354537 354535 1/353162 35 35 63 353158 353159 337316 387317 307319 1367503 127397 367121 No ne _Lit#l Eske 353167 353161 Moray 1337288 Loka 67321 387320 1367400 1387399 353 69 353170 38130,9 387402 391**3CB** \$37:764 (1)371765 1397289 1327403 353130 337319 327401 353171 . 1 33462 387405 LOKe 354322 354315 354316 38:310 361311 387293 | 337292 ZAVITZ TWP. 354075 354317 8 301312 30131 KKS 1 1397293 372961397297 2 M HUTT TWP -Claims in Hutt Twp. 6:1 381314; 1381315; 1372596; 1379989 ALLERSTON OPTION 15 Claims N Block Fig: 1 ZAVITZ- HINCKS- HUTT TWPS 16 Claims S. Block wp.(M.943)

DIAMOND DRILLING

Four thousand, nine hundred and eighty-nine feet of AQ diamond drilling were completed on the property intersecting the most significant conductors. Tables I and II indicate pertinent drilling information. Most conductors intersected were caused by graphitic horizons. Holes DDH Z-3 and DDH Z-6 on the North Group intersected 15 feet and 5 feet respectively of massive sulphide, however no economic mineralization was encountered.

Assaying of pertinent rock types intersected in the drill holes indicated no significant mineralization. Up to 0.32% zinc and 0.005 oz./ton gold were encountered in graphitic horizons on the North Group and up to 0.20% nickel was encountered in the ultramafic sills intersected on the South Group. These values are not significantly anomalous for the respective rock types. Assay values are reported in Table III.

TABLE I

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CAUSES OF SPECIFIC ANOMALIES

ANOMALY A B C D E T U V W

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CAUSE

Graphite - No sulphides.
Graphite - No sulphides
Contact of ultramafic and felsic volcanic - disseminated sulphides.
Contact of ultramafic and felsic volcanic-massive pyrrhotite.
Graphitic argillite - No sulphides.
Graphite and disseminated sulphides
Graphite - + disseminated sulphides
Graphite and massive sulphide.

Graphite + disseminated sulphide.

Graphite + massive sulphides.

Minor graphitic zone _____ disseminated pyrite + pyrrhotite.

NORTH GROUP										
CO-ORDINATES	DIP	BEARING	DATE COMPLETE	LENGTH	ROCK TYPES					
4+00N 40+00E	50°	180°	Oct. 28/75	706'	Mafic volcanic, graphitic argillite, massive sulfide.					
1+00S 36+00E	50°	180° ·	Nov. 11/75	554†	Mafic volcanic, graphitic argillite, massive sulfide.					
12+00N 42+00E	50°	165°	Nov. 13/75	402'	Graphitic argillite, mafic volcanic, conglomerate.					
8+00N 50+00E	50°	180°	Nov. 19/75	452'	Conglomerate, graphite, mafic volcanic.					
	4+00N 40+00E 1+00S 36+00E 12+00N 42+00E 8+00N	4+00N 50° 40+00E 50° 1+00S 50° 36+00E 50° 12+00N 50° 42+00E 50° 8+00N 50°	CO-ORDINATES DIP BEARING $4+00N$ 50° 180° $40+00E$ 50° 180° $1+00S$ 50° 180° $1+00S$ 50° 180° $12+00N$ 50° 165° $42+00E$ 50° 180°	CO-ORDINATES DIP BEARING DATE COMPLETE 4+00N 40+00E 50° 180° Oct. 28/75 1+00S 36+00E 50° 180° Nov. 11/75 12+00N 42+00E 50° 165° Nov. 13/75 8+00N 50° 180° Nov. 19/75	CO-ORDINATES DIP BEARING DATE COMPLETE LENGTH 4+00N 50° 180° Oct. 28/75 706' 1+00S 50° 180° Nov. 11/75 554' 1+00S 50° 165° Nov. 13/75 402' 12+00N 50° 165° Nov. 13/75 402' 8+00N 50° 180° Nov. 19/75 452'					

TABLE II EXPLORATORY DRILL PROGRAM - ZAVITZ

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HOLE	CO-ORDINATES	DIP	BEARING	DATE COMPLETE	LENGTH	ROCK TYPES
Z-1	8+00N 6+00W	50°	180°	Nov. 9/75	546'	Felsic volcanic, ultra- mafic, agglomerate granite, graphitic argillite.
Z-2	11+30N 18+00W	70 °	180°	Oct. 25/75	527'	Felsic volcanic, graphitic argillite graphite, ultra- mafic.
Z-4	6+40N 32+00W	75°	180°	Nov. 5/75	677 *	Graphitic argillite, ag- glomerate ultramafic.
Z-7	17+30N 34+00W	65°	180°	Nov. 11/75	618'	Banded argillite, graphite.
Z - 9	0+00 6+00E	50°	205°	Nov. 15/75	507'	Ultramafic, felsic volcanic.

	TABLI	<u> </u>		
EXPLORATORY	DRILL	PROGRAM	-	ZAVITZ

SOUTH GROUP

HOLE	DEPTH	LENGTH	GOLD oz/ton	SILVER oz/ton	COPPER %	LEAD %	ZINC %	NICKEL %	ROCK TYPE
Z-2	263.6-265.6	2	0.005	trace	0.02	0.01	0.05	0.02	G
Z-2	265.6-266.6	1			0.01	0.01	0.04	0.02	Breccia
Z-2	266.6-269.4	3				trace	0.05	0.02	Breccia
Z-2	289-299	1				trace	0.02	0.01	Breccia
Z-2	308-310.5	2.5		trace	0.01	trace	0.13	0.03	Breccia
Z-2	317 - 319	2			0.03	trace	0.04	0.01	G
Z-2	319-320.5	1.5		trace	0.01	0.01	0.04	0.01	G
Z-2	320.5-327	7.5		•	0.01	0.01	0.09	0.06	Qtz. Vein
Z-2	332-344	12	0.01	0.01	0.01	0.01	0.01	0.01	Breccia
Z-2	344-348	4			0.01	trace	0.01	0.01	Breccia
Z-2	352-357	5			0.01	trace	0.01	0.07	Breccia
Z-2	362-372	10			0.01	trace	0.01	0.19	Breccia
Z-2	372-382	10			0.01	0.02	0.04	0.18	Breccia
Z-2	382-392	10			0.01	0.02	0.03	0.21	Breccia
Z-2	392-402	10			0.01	0.03	0.03	0.17	Breccia
Z-2	402-412	10				0.02	0.03	0.18	Breccia
Z-2	412-422	10			0.01	0.02	0.02	0.18	Breccia
Z-2	422-432	10				0.02	0.02	0.18	Breccia
Z-2	432-442	10			-	0.01	0.02	0.23	Breccia
Z-2	298-308	10			•	trace	0.01	0.01	FV
Z-3	210-212	2	0.005	0.01	0.01	0.01	0.07	0.02	MS
Z-3	212-214	2	0.005	0.01	0.01	0.01	0.05	0.01	MS & G

TABLE III SAMPLES AND ASSAY RESULTS

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SAMPLES AND ASSAY RESULTS

HOLE	DEPTH	LENGTH Ft.	GOLD oz/ton	SILVER oz/ton	COPPER %	LEAD %	ZINC %	NICKEL %	ROCK TYPE
Z-1	46-47	- 1				trace	0.01	trace	FV
Z-1	67-68	1		-		trace	0.01	0.09	UM
Z-1	111-112	1				trace	trace	0.19	UM
Z-1	196-197	1				trace	trace	0.19	UM
Z-1	232-233	1		•	- -	trace	trace	0.01	FV
Z-1	253-254	1.			-		trace	0.01	FV
Z-1	282-283	1					trace	0.01	FV
Z-1	304-305	1				trace	0.02	0.01	G
Z-1	305-306	1		trace		trace	0.02	0.01	G
Z-1	310-311	1		trace	0.02	0.01	0.15	0.04	G
Z-1	311-312	1		0.05	0.02	0.02	0.14	0.03	G
Z-1	312-313	1		0.10	0.04	0.02	0.28	0.02	G
Z-1	313-314	1		0.07	0.01	0.01	0.03	0.02	G
Z-1	314-315	1		trace	0.01	trace	0.02	0.02	G
Z-1	315-316	1		trace	0.01	trace	0.03	0.01	G
Z-1	316-317	1		trace	0.01	trace	0.06	0.02	G
Z-1	320-321	1				trace	0.01	0.01	FV
Z-1	366-367	1		· .	•	trace	0.01	0.01	FV
Z-1	380-381	1				trace	0.01	0.01	FV
Z-1	398-399	1				trace	0.01	0.01	FV
Z-1	407-411	- 1		trace	0.01	trace	0.04	0.01	G
Z-1	421.6-423	1.4		trace	0.01	trace	0.02	0.02	G
Z-1	481-482	1			0.01	trace	0.01	0.02	FV
Z-1	542-543	1					trace	0.24	UM

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HOLE	DEPTH	LENGTH Ft.	GOLD cz/ton	SILVER oz/ton	COPPER %	LEAD %	ZINC %	NICKEL %	ROCK TYPE
Z-3	215.5-221	6.5		trace	0.01	0.01	0.05	0.01	MS
Z-3	326-329.5	3.5	0.005	0.02	0.01	0.01	0.05	0.01	MS & G
Z-3	448-453	5			0.02	0.01		0.02	G
Z-3	590-595	5	0.005	trace	0.05	0.01	0.24	0.02	G
Z-3	528-529	. 1		trace	0.04	0.01	0.19	0.02	G
Z-3	529-539	10		trace	0.03	0.01	0.13	0.02	G
Z-3	561-562	1			0.04	0.01	0.32	0.02	
Z-3	629-639	10		0.02	0.03	0.01	0.32	0.02	G G
Z-4	179-184	5			0.01	trace	0.01	0.01	G
Z-4	201-204	3	0.01	0.09	0.02	0.02	0.03	0.01	
Z-4	611-616	5					trace	0.23	GĘMS UM
Z-4	652-653	1			0.01	trace	0.01	0.01	FV
Z-5(6	170-175	5		0.01	0.03	trace	0.24	0.02	G
Z-5	318-319	1			0.02	trace	0.02		MV
Z-5	374-379	5			. 0.02	trace	0.10	0.01	G
Z-5	425-426	1			0.02	trace	0.01	0.02	MV
Z-5	553.5-554	0.5			0.03	trace	trace	0.02	Silica
Z-7	200-205	5			. 0.01	0.01	0.01	0.01	C 1
Z-7	390-395	5	• •		0.01	0.01		0.01	GA
Z-7	487-491	4			0.01	0.01	0.01	0.01	GA
Z-7	553-558	5			0.01		0.01	trace	GA
					0.01	trace	0.02	0.01	G

SAMPLES AND ASSAY RESULTS

SAMPLES AND ASSAY RESULTS

HOLE	DEPTH	LENGTH Ft.	GOLD oz/ton	SILVER oz/ton	COPPER %	LEAD %	ZINC %	NICKEL %	ROCK TYP
Z-8	275-280	5			0.01	0.01	0.04	0.01	G
Z-8	70-75	5			0.01	trace	0.01	0.04	Cng.
Z-8	176-181	5			0.02	0.01	0.02	0.02	Cng.
Z-8	342-347	5			0.01	trace	0.01	0.02	Cng.
Z-9	32.5-37.5	5.5		trace		trace	0.01	0.14	UM
Z-9	87-92	5				trace	trace	0.15	UM
Z-9	163-168	5		trace	0.01	trace	trace	0.29	UM
Z-9	245-250	5				trace	0.01	0.25	UM
Z-9	344-348	4			0.01	trace	0.01	0.01	FV
Z-9	470-475	5			0.01	trace	0.01	0.01	FV
Z-10	34.5-39.5	5		:	0.01	trace	0.01	0.01	Cng.
Z-19	159-171	12			0.02	0.01	0.14	0.01	G&MS
Z-10	171-176	5		0.01	0.02	0.01	0.14	0.01	MS & C
Z-10	176.5-181.5	5			0.02	trace	0.04	0.01	GA
Z-10	238-243	5			0.02	trace	0.03	0.02	MV & C
Z-10	475-480	5		trace	0.02		0.01	0.01	MV
	<u> </u>	UM = MV = FV = G =	Ultramafic Mafic Volca Felsic Volc Graphite		GA = MS = Cng. =	Graphitic Massive Su Conglomera	lphide		

TABLE IV

GENERAL DESCRIPTION OF ROCK TYPES

Diabase Dikes:

General medium grained grey rocks with ophitic features. Essentially unaltered.

Sygnite:

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Pink, medium to coarse grained felsic intrusive rock. Abundant pink feldspar and altered amphibole, 64% SiO₂. 8% total alkalis (Na₂0 & K_2 0).

Conglomerate:

Various rock fragments up to 12 inches in diameter in a fine grained chloritic matrix. Matrix occasionally quite silicic.

Fragments of mafic volcanics, felsic volcanics and intru-sives. Blebs of sulphide common. Rare chert fragments. Fragments rounded to elongate. General matrix composition Thin resembles that of a mafic volcanic (basalt). sections show clastic texture with angular felsic lithic fragments in a fine matrix of plagioclase and chlorite + actinolite (basaltic volcanic). Opaques (sulphides and magnetite) abundant. (Fine grained disseminations 20 - 40%).

(Interbedded with volcanic sequences)

Graphitic argillites: Finely laminated sediment consisting of alternate laminations of fine grained quartzo-feldspathic material and fine stringers of graphite. Proportion of graphite varies from 5 - 95%.

> Massive pyrite-pyrrhotite beds within graphite units. Consist of aggregates of pyrite grains, with interstitial graphite and fine grained pyrite and bands of fine grained pyrite. Sedimentary deposits of exhalative origin.

Felsic Volcanics

Agglomerates:

Fine to coarse greenish grey to white fragmental units of dacitic and rhyolitic composition. Most abundant felsic volcanic unit.

Porphyritic (Flow) units.

Massive greenish white volcanic rock with white feldspar phenocrysts up to 2 mm. in size.

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TABLE IV

Felsic Volcanics: (cont'd)

Feldspar phenocrysts - (plagioclase) euhedral to ragged show abundant saussuritic and sericitic alteration. Matrix of fine grained recrystallized quartzo-feldspathic material. Degree of alteration and recrystallization varies from place to place.

Mafic Volcanics:

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Fine grained, greenish grey to black - pillowed and brecciated basaltic lava flaws. Consist of intergrown actinolite - chlorite and plagioclase feldspar. Rocks often vesicular with vesicles filled with radiating chlorite. Opaque minerals (sulphides and magnetite) if present interstitial to breccia fragments and/or pillow rims (i.e. volcanic origin).

Ultramafic Intrusives: Dark green-black medium grained intrusive rocks. Relict olivine outlines readily visible in thin section now predominantly serpentine, talc and magnetite. (90% of rock). Some chloritic and carbonate alteration.

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GEOLOGY

Descriptions of individual rock units are presented in TABLE IV.

South Claim Group:

The claims are underlain by mafic to ultramafic sills and dacite to rhyolitic felsic volcanics. The felsic volcanics are mostly comprised of agglomerates, and rarely quartz-feldspar porphyry (flows?). No significant metamorphic alteration is evident at the ultramafic intrusive - volcanic interface suggesting the intrusive may have crystallized prior to the deposition of the volcanics. Graphitic argillites overlie the volcanic sequence. Drilling indicates that the north 1/3 of the claim group covered by pleistocene material is underlain by these argillic meta-sediments. Earlier mapping indicated this northern position was underlain by volcanic rocks and hence had some inherent potential for sulphide deposits.

Economic Potential

The apparent absence of a mafic-felsic volcanic interface lends little potential to the claims for a volcanogenic massive sulphide. Low nickel values were encountered in the ultramafic intrusive but nothing of economic interest is indicated.

North Claim Group:

The claims are underlain by pillowed and brecciated basalts which are overlain by graphitic sediments and a narrow unit of volcaniclastic conglomerate. Disseminations of pyrite and pyrrhotite are common.

Massive pyritic units are often encountered in the graphitic rocks but they are barren of economic minerals. Sedimentary textures in the sulphides such as bedding and colloidal, granular aggregates of pyrite grains attest to their sedimentary origin probably a result of volcanic exhalative activity. Interstitial sulphides and silica between breccia fragments in the



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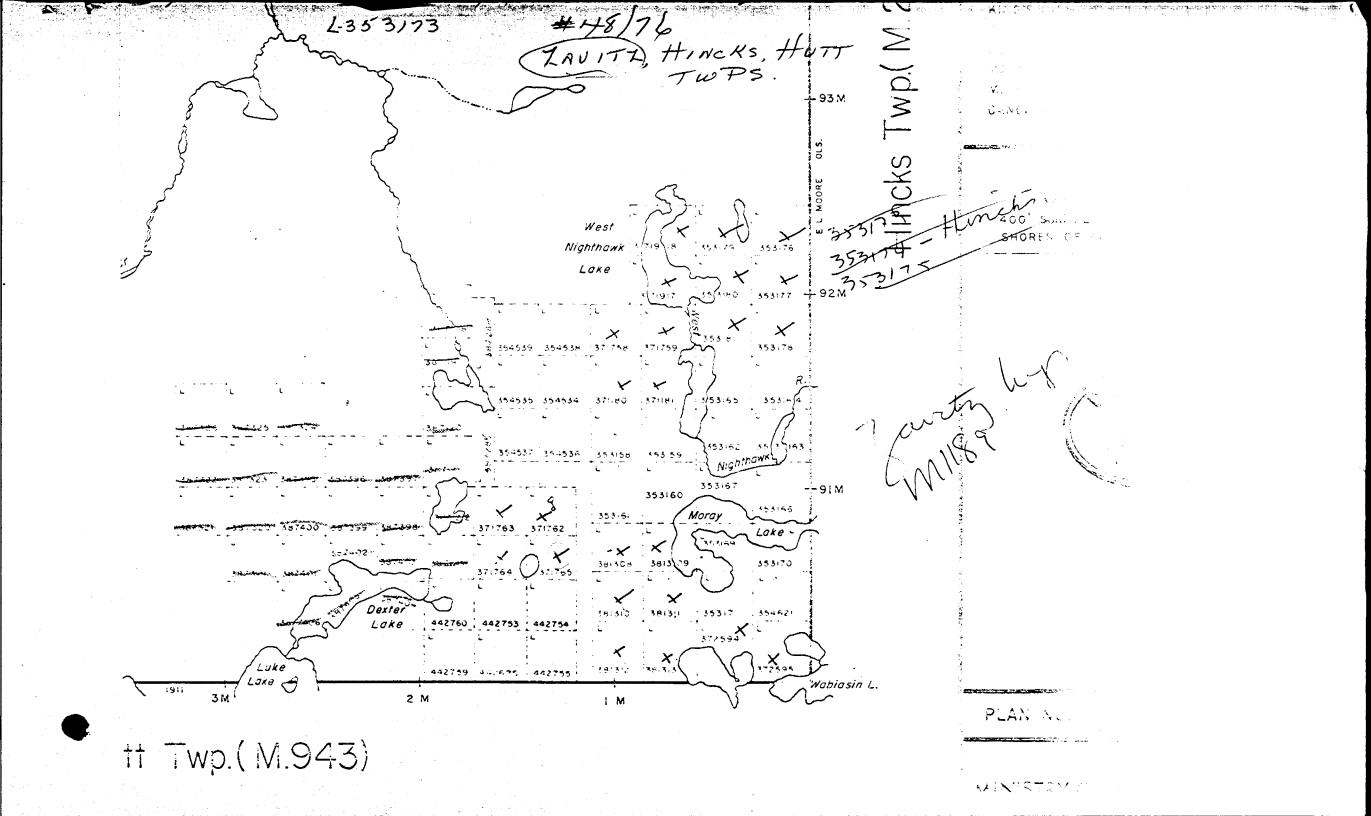
basaltic pillow breccias (observed in thin section) also suggest a primary volcanic origin for the sulphides. The matrix material of the conglomerate unit has strong chemical similarities with the surrounding basalts suggesting a close volcanic affinity for this rock type, rather then a purely clastic origin. The conglomerates and the blebs and disseminations of pyrite and pyrrhotite found in them are probably essentially derived from reworked volcanic material.

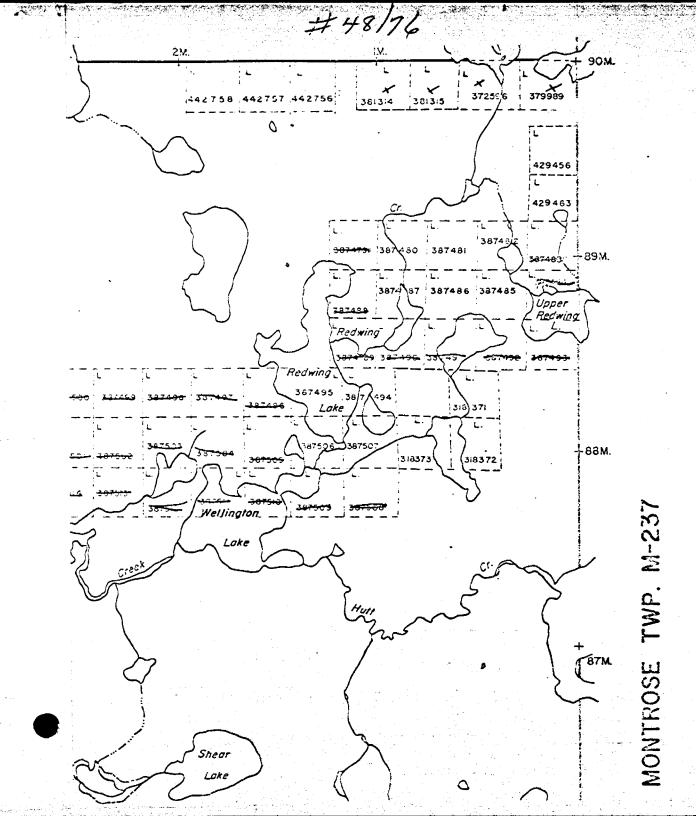
Economic Potential

The area has little economic potential. Barren sulphides and some low zinc values within the graphitic horizons may have a volcanic source, but economic minerals are not sufficiently abundant to warrant further exploration.

CONCLUSIONS AND RECOMMENDATIONS

Some low metal values were detected on the property but these were not significantly anomalous for the rock types examined, suggesting there is little possibility of defining an economic deposit within the property boundaries. No further work is recommended.







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PATENTED LAND	(Por 🕑 🗍
PATENTED FOR SURFACE RIGHTS ONLY	9 *
LEASE	
LICENSE OF OCCUPATION	LO.
CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	С.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	-77

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LA [.] LO	TITUDE NGITUDE	ZAVITZ - 0+8N 0+6W	1	DIP50° FINAL DEPTH546'	DATE CO DRILLED E	MPLETED	November 6, 1975 November 9, 1975 Morissette White, A.S. Chaykowski
				DATE:		SIGNED	
EPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
0	24		Overburden				
24	61		Felsic ✔olcanic	Light greenish grey in color and fine grained; some sections are darker in color due to a more prominant chloritic alteration. Certain section have a characteristic agglomeritic texture. Fragments range in size	s		46-47 Pb=tr. Zn=.01;Ni=tr.
				from 0.5 mm. to 3 cm. and are either lighter or darker in color than			
				the matrix. Calcitic alteration is common. Small calcite veinlets cut the core at 55° to 60°. Finely disseminated pyrite makes up 1%.		<u>55°</u> 60°	·
61	215		Ultramafic	Grey green to dark green black, fine to medium grained, massive in			67-68 Pb=tr.;2n=.01
				appearance with abundant chlorite actinolite and serpentinite alteration. Talc and calcite veinlets are common as is finely			Ni=.09 111-112 Pb=tr.;Zn=tr.
				disseminated euhedral pyrite making up 1% of the section. The whole			Ni=.19
				section is strongly magnetic.			196-197 Ph=tr.;Zn=tr.
				100 177			Ni=.19
				128 - 133 Syenite? Grey to pinkish grey, fine to medium			
				grained intrusive. Feldspar phenocrysts, up to 5 mm. in size are visible in a greyish groundmass that			
				contains minor pyrite.	- <u> </u>		
				e			
				61 - 133 Calcite veinlets at 60° to the core.		65°	
				173 - 183 Calcite veinlets at 85% to the core		85°	
				213 - 215 Core fractured and broken			
		1					

DIAMOND DRILL RECORD-CONTINUATION SHEET

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SHEET _____ OF __3

D.D.H. NO.______

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
215	309		Felsic	Massive to fragmental felsic rock, generally grey to light greenish		IULIA	232-233 Pb=tr.
-			Volcanic	grey in color. Fragments are common and vary in size from 0.5 cm		1	
			(Agglomerate)	to 5 cm. The proportion of fragments and matrix is variable; fragments	·		Zn=tr.;Ni=.01
				are usually subrounded to angular and slightly darker in color than			253-254 Zn=tr.Ni=.01
				the matrix. Minor calcite alteration is prevalent. Minor amounts			282-283 Zn=tr.;Ni=.01
,				(1%) of finely disseminated pyrite is present.			304-305 Pb=tr.;Zn=.02 Ni=.01
					· · · · · · · · · · · · · · · · · · ·		
					·		305-306 Ag=tr.;Pb=tr.
					<u></u>		Zn=.02;Ni=.01
309	317		Graphite	Finely laminated black banded sediment containing up to 10% massive			
				pyrite. Calcite is abundant and makes up to 10% of this section.			310-311 Ag=tr.;Cu=.02
				presented is abandante and makes up to 10% of this section.			Pb=.01;Zn=.15
							Ni=.04
			· · · · · · · · · · · · · · · · · · ·				311-312 Ag=0.05;Cu=.0
							Pb=.02;Zn=.14
		· · · · · · · · · · · · · · · · · · ·					Ni=.03
							312-313 Ag=.10;Cu=.04
							Pb=.02;Zn=.28
							Ni=.02
							313-314 Ag=.07;Cu=.01
							Pb=.01;Zn=.03;Ni=.0
							314-315 Ag=tr.;Cu=.01
·····							Pb=tr.;Zn=.02;Ni=.03
							315-316 Ag=tr.;Cu=.01
							Pb=tr.;Zn=.03;Ni=.0
							316-317 Ag=tr.;Cu=.01
		·····					Pb=tr.;Zn=.05;Ni=.02
317	407		Agglomerate	Similar to section 215 - 309 except section 317 - 363 contains abundant	·····		320-321 Pb=tr.;Zn=.01
		·····		fine grained fragments. Blebs of pyrrhotite (1%) and finely			Ni=.01
				disseminated pyrite (1%) is present.			366-367 Pb=tr.;Zn=.01
			······				Ni=.01
							380-381 Pb=tr.;Zn=.01
							Ni=.01
							398-399 Pb=tr.;Zn=.01
							Ni=.01
					<u> </u>		111 VI
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DIAMOND DRILL RECORD—CONTINUATION SHEET

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SHEET ______ 3___ OF ___3___

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D.D.H. NO. 2-1

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
407	412		Graphite	Same as section 309 - 317 with up to 5% pyrite. Band of pyrite at an			
•			•	angle of 60° with the core.	L	60°	407-411 Ag=tr.;Cu=.01
							Pb=tr.;Zn=.04;Ni=.01
412	422		Agglomerate	Same as previous sections. Calcite veinlets at 60° to the core.		60°	
422	427		Graphite	Same as previous sections. Pyrite band at 45° to core angle.		45°	421.6-423 Ag=tr.;Cu=.01
							Pb=tr.;Zn=.02;Ni=.02
427	435		Graphitic	Banded fine grained sediment with alternate black graphitic bands and			
427	+33		Argillite	white to grey quartzite hands. Banding (primary) at approx, 45° to the		45°	
				core angle. Minor pyrite (1%) and calcite alteration as veinlets is			
				present.			
435	526		Felsic	Grey to greenish in color, massive and fine grained to agglomerate			481-482 Cu=.01;Pb=tr.
400			Volcanic	in nature.			Zn=.01;Ni=.02
	1		(Agglomerate)				
				435 - 451 Massive and porphyritic			
			-	454 - 526 Agglomeritic with felsic fragments 1 cm. to 8 cm. in	-		
		1		size. The fragments are angular to subrounded			
_,				containing euhedral plagioclase phenocrysts. Larger			
				fragments occur in a darker fine grained matrix			
				consisting mostly of fine fragments. Minor pyrite and			
				pyrrhotite is common occuring as blebs and lenses.			
				439 - 439.4 Graphitic section with 1% euhedral pyrite.			
				451 - 454 Graphitic zone with 2% fine grained pyrite.			· · · · · · · · · · · · · · · · · · ·
526	546		Ultramafic	Same as previous section i.e. 610 - 215.			542-543 Zn=tr.
							Ni=.24
546			_	END OF HOLE			
							
<u>.</u>							
					-		
					-		
		_				+	-

		ZAVITZ - 11+3	- SOUTH GROUP				October 10, 1975
		$\frac{11+3}{18+0}$					O October 25, 1975
	-	<u>10+0</u>					Morissette
100	<u>۳۳۳۲۰۰</u>				JGGED	BY	White, A.S. Chaykowski
				DATE:	-	SIGNED)
DEPTH FEET	F'TAGE CORED		FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
0	190.0	<u> </u> '	Overburden				
90	238.6	t'	Felsic	Grey in color. Banded to massive, fine grained felsic sediment with	·+'	·'	+
		· · · · · · · · · · · · · · · · · · ·	Volcanic	some fracturing. Minor disseminated pyrite.	† '	<u> </u> '	+
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1	Bedding	217.0	65°	+
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Foliation	217.0	50°	+
	'	·'	·'	232.6 - 236.6 (4 ft.) Ground core.	<u> </u>		
38.6	272.0	<u> </u>	Graphitic	Black banded sediment with alternate black and white bands of finely	<u>+'</u>	 '	263.6-265.6 Au=.005
	Ĺ'	· ['	Argillite	laminated argillite (graphitic) and fine grained quartzite respectively	,		Ag=tr.;Cu=.92
	·'	′	′	Banding is contorted in places. Oxide staining is common. Core	· · · · · · · · · · · · · · · · · · ·		Pb=.01;Zn=.05
!	<u> '</u>	<u> </u> '	'	broken and crushed.	· · · · · · · · · · · · · · · · · · ·		Ni=.02
	 '	·+'	<u> </u>	263.6 - 265.4 Graphite with up to 5% pyrite	· · · · · · · · · · · · · · · · · · ·		265.6-266.6 Cu=.01
	 '	ļ'	- '	265.4 - 269.4 Brecciated rock with abundant oxide staining	· · · · · · · · · · · · · · · · · · ·		Pb=.01;Zn=.04
	 '	· '	'	and greenish talcose mineral.	· · · · · · · · · · · · · · · · · · ·		Ni=.02
	 ′	· ['	<u> </u>	239.2 - 246.2)	· '	/	266.6-269.4 Pb=tr.
	<u> </u>	'	′	259.6 - 263.6) Ground core.	· · · · · · · · · · · · · · · · · · ·		Zn=.05;Ni=.02
	 '	·'	′	269.4 - 272.0)			308-310.5 Ag=tr.;Cu=.01
	<u> </u>	· '	′		· · · · · · · · · · · · · · · · · · ·		Pb=tr.;Zn=.13;Ni=.03
272	317.0	· '	Felsic	Grey to white, fine grained, essentially massive felsic rock. It is	· · · · · · · · · · · · · · · · · · ·		289-299 Pb=tr.
	·'	·′	Volcanic	highly brecciated with abundant yugs and calcite alteration Oxide	· · · · · · · · · · · · · · · · · · ·		Zn=.02;Ni=.01
	<u> </u> '	′	<u> </u>	stains and up to 10% pyrite (disseminated) is prevalent.	· · · · · · · · · · · · · · · · · · ·	,	299-308 Pb=tr.
	<u>+'</u>	'	·'	292 - 297 Ground core.	<u> </u> '	·'	Zn=.01;Ni=.01
317	332		Graphite	Crushed graphite section with abundant oxide stains and quartz veining	<u>+</u>	t'	<u>317 - 319 -Cu=.03;Zn=.04</u>
i	 '	·'	<u> </u>	321 - 326 Ground core.	· · · · · · · · · · · · · · · · · · ·	[′	Ni=.01;Pb=tr.
	<u> </u>	·	′	1/	·′	/ /	319-320.5 Ag=tr.;Cu=.01
i	<u> </u>	·	′	1	· '	· · · · · · · · · · · · · · · · · · ·	Pb=.01;Zn=.04
i	·'	·	- '	1	[′		Ni=.01
	 '	·	′	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	320.5-327 Cu=.01;Pb=.01
	1 .		1 -		,	,	Zn=.09;Ni=.06

SHEET_____2_OF___2

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
332	460	60%	?	Highly crushed and brecciated zone consisting of white to green			332-344 Au=.01; Ag=.0
_				friable material with abundant oxide stain.			Cu=.01;Pb=.01
				343 - 460 Crushed white to pinkish friable rock.	_		Ni=.01;Zn=.01
				352 - 356 Ground core.			344-348 Cu=.01;Pb=tr.
				357 - 367 Seam.			Zn=.01;Ni=.01
				372 - 377 Ground core.		1	352-357 Cu=.01;Pb=tr.
				387 - 397)			Zn=.01;Ni=.07
				400 - 407			362-372 Cu=.01;Pb=tr.
				408.4 - 412)			Zn=.01;Ni=.19
				(420 - 423)			372-382 Cu=.01;Pb=.02
				425 - 427) Ground core			Zn=.04;Ni=.18
			-	431.4 - 434)			382-392 Cu=.01;Pb=.02
				437.6 - 438)			Zn=.03;Ni=.21
	1			445 - 447)			392-402 Cu=.01;Pb=.03
······		· · · · · · · · · · · · · · · · · · ·					Zn=.03;Ni=.17
							402-412 Pb=.02;Zn=.03
				•			Ni=.18
·····							412-422 Cu=.01;Pb=.02
		· ···				<u> </u>	Zn=.02;Ni=.18
60	524	98%	Felsic	Greyish white to greenish in color. Massive, fine grained granular			422-432 Pb=.02;Zn=.02
			Volcanic	to agglomeratic in character. Fragmented sections consist of up to			Ni=.18
				70° angular to subrounded forements set in a fine mained better			432-442 Pb=.01;Zn=.02
·····				30% angular to subrounded fragments set in a fine grained matrix.			Ni=.23
····	1			Minor disseminated pyrite and calcite alteration is present.484Calcite veinlet at 60° to core angle	404	608	N1=.23
				Calcité verniet at 60 to core angle	484	60°	
24	527		Ultramafic	Dark green to green black in color. It is fine grained and			
·····				serpentinized.			
27'				END OF HOLE			
	_						
		· · · · ·					
				· · · · · · · · · · · · · · · · · · ·	_		
			1				

DIAMOND DRILL RECORD

SHEET 1 OF 2

PROPERTY ZAVITZ - NORTH GROUP	BEARING-TRUE 180°
LATITUDE 4+00N	DIP50° and at 250' 48°
LONGITUDE 40+00E	FINAL DEPTH706'
ELEVATION	CORE SIZE AQ

October 21, 1975	
Morissette	
White, A.S. Chaykowski	
	October 21, 1975 October 28, 1975 Morissette White, A.S. Chaykowski

DATE:

SIGNED_

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
0	6		Overburden			TOLIA	
6	170						
6	132		Mafic	Greenish grey to greenish black in color with abundant chlorite,			· · · · · · · · · · · · · · · · · · ·
····			Volcanic	epidote and calcite alteration. Calcite veinlets abundant. It is			
				fine grained with up to 1% finely disseminated sulfides (pyrite,			
			· · · · · · · · · · · · · · · · · · ·	pyrrhotite, trace chalco-pyrite).			
•				102 - 117 Finely banded, very fine grained, green black tuff.			
				One to two percent finely disseminated sulfides.			
				102.2 - 102.4 Massive pyrite and pyrrhotite.			
132	182		Graphitic	Contact with above unit at 45° to core angle.			
			Argillite				
		· · · · · · · · · · · · · · · · · · ·		Fine grained, banded argillitic rock with alternate dark and light bands of black graphite and grey to white quartzite respectively.			
				Calcite common. Sulfides are abundant (5%) occurring as bands, lenses			
				and blebs of pyrite, pyrrhotite and trace chalco-pyrite.			······
				and orops or pyrice, pyrinocice and trace charco-pyrice.			
182	210		Mafic	Grey lava similar to section 6 - 132. It is fine grained, massive to			
			Volcanic	brecciated to brecciated greenish.			
				182 - 188) Brecciated volcanic with 10 to 20% pyrite			·
				194.5 - 196.5) and pyrrhotite occurring as blebs.			
				200 - 205			
210	221.4		Massive	Escontially composed of multiplication in the second secon			
			Sulfide	Essentially composed of pyrite with minor pyrrhotite rich bands. The			210-212 Au=.005
			Juillue	sulfides occur as sedimentary aggregates of grains up to 2 cm. in size,			Ag=.01;Cu=.01
				which show distinct banding in places. 212 - 212.7 Graphitic section			Pb=.01;Zn=.07
							Ni=.02 212-214 Au=.005;Ag=.01
			· · · · · · · · · · · · · · · · · · ·	213.8 - 215.1 Graphitic argillite with approx. 5% sulphides.			$\frac{212-214}{\text{Cu}=.01;\text{Pb}=.01}$
····							Zn=.05;Ni=.01
							2103,1101
	1						

DIAMOND DRILL RECORD --- CONTINUATION SHEET

SHEET ___

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DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA		
221.4	265.4		Graphitic	Banded argillite similar to previous section with one to five percent			21.5	
			Argillite	sulphides.				
	`.			Bedding	40-45°	l 		ана на селото на село Селото на селото на се
265.4	304		Mafic	Contact with above unit at 45° to core angle. Similar to section			······································	1.14 A
			Volcanic	182-210. It is fine grained with common fracturing and occasional				
				narrow tuffaceous or argillite interbeds. Contains one to two percent			326-20	
-				disseminated sulfides.			· · · · · · ·	
		l					[4]	be generative states
304	452		Graphitic	Banded argillite same as previous sections, with grey quartzite bands				L
			Argillite	and black very fine grained graphite bands.			448-42	
	<u> </u>			339 - 343 Fine grained granular massive quartzite sediment.	-		440-42	4
-		1		347 - 349 Fine grained grey diorite dyke in contact with the		25°	· · · · ·	·· · · ··
				graphitic argillite at 25° to the core angle.			528 52	
				316 - 317)			<u> </u>	- -
-				323 - 324) Massive sulphide, same as section 210 - 221.4'				
				<u>326 - 330)</u>			590-	1
-	1		1	<u> </u>				
	†							the set
452	706		Graphite	Black, fine grained, finely laminated graphitic rock. Banding as				11
	1			found in earlier section is not prominant. Pyrite is found as bands.				
-	1	1		blebs and as fine grained disseminations comprising 5 to 10%.			629-639	
				Calcite veinlets are common.				
706'	+			END OF HOLE		1	529-539	Cur. 61; Pur. 6
							12	
			_				561-562	Cu-, Co: 11 11
					_		Z	a= 321N - 02
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	+				-	1		
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GULF MINERALS COMPANY	
DIAMOND DRILL RECORD	

BEARING - TRUE	180°
DIP	70°
FINAL DEPTH	677'
CORE SIZE	AQ

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D.D.H.	NO.	Z-4		
SHEET				1

DATE STARTED	October 26, 1975
	D November 5, 1975
DRILLED BY	Morisette
	M. White, A.S.Chaykowski

OF 1

DATE:_____

SIGNED_

DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
			179-184 Cu=.01;Pb=tr.
blackish sediment with alternate lighter felsic bands and darker			Zn=.01;Ni=.01
respired bands. Calcite is abundant, with minor fine grained pyrite.			201-204 Au=.01;Ag=.09
Banding at approx. 60° to the core.		60°	Cu=.02;Pb=.02
			Zn=.03;Ni=.01
204 Section contains vugs with calcite crystals.			
242 Fine grained, grey diorite dyke with trace fine			
grained pyrite.			
Rock is broken up containing up to 5% pyrite	1		
above unit at 60° to the core section, greyish white to		60°	
the set of the fragmental rock containing grey to white fragments up to			
in size in a greyish fine grained matrix. Chloritic and calcitic			
Gracion is common. Minor fine disseminated pyrite is common.			
in the vehicles cut the core section at 60°.			· ·
that great to green black in color. The section is fine to medium		70°	611-616 Zn=tr.
derived Aughly serpentinized and usually magnetic. Calcite veinlets		<u>35°</u>	Ni=.23
<u>Soliation at 70° and 35° to core section.</u>			652-653 Cu=.01
			Pb=tr.;Zn=.01
Talcose section, soft, greenish grey in color.			Ni=.01
			· · · · · · · · · · · · · · · · · · ·
yenite dyke. Grey to pinkish grey, felsic to inter-			
mediate, fine grained rock with angular mafic xenoliths			
up to 6 mm. in size. Trace pyrite.	 		
			-
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DIAMOND DRILL RECORD

D.D.H. NO. Z-5 (6) SHEET 1

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LATITUDE1+00S LONGITUDE36+00E	PROPERTY	ZAVITZ - NORTH GROUP	
	LATITUDE	1+005	
	LONGITUDE	36+00E	
ELEVATION	ELEVATION_		

BEARING - TRUE	180°	-
DIP	50°	
FINAL DEPTH	554 ft.	
CORE SIZE	AQ	

DATE STARTED October 29, 1975	
DATE COMPLETED November 11, 1975	-
DRILLED BY Morissette	
LOGGED BY M. White, A.S. Chaykowski	

OF 1

DATE:______ SIGNED____

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
<u>· 0 · </u>	12		Overburden				······································
12	157		Mafic	Magning Circuit 1			
14			Volcanic	Massive, fine grained, grey to black lava with patches of pinkish			
			Voicanic	white calcite. Brecciation (pillow breccia) is evident in some			
		······································		sections. Calcite veinlets dip at 45° to the core section. Calcite	· · · · ·		
				epidote and chlorite alteration is evident. Trace fine grained pyrite and pyrrhotite.		_45°	
				and pyrmotite.			
157	185		Graphitic	The section is black in color, fine grained and finely laminated.			·····
			Argillite	Calcite veinlets at approx. 45° to the core section. Minor pyrite			
				and trace pyrrhotite are present.	1	45°	170-175 Ag=.01;Cu=.03
							Pb=tr.;Zn=.24
185	189		Massive	Sulphide consists of bands and aggregates of pyrite grains	1		Ni=.02
			Sulphide	(sedimentary), making up 95% of this section while 5% is interatial			
				graphite.			
1 <u>89</u>	256		Graphitic	Same as section 157 - 185			
			Argillite				
05.6							
256	370		Mafic	Fine grained, greenish grey, moderately altered lava. Calcification			374-379 Cu=_02;Pb=tr_
 			Volcanic	and silicification is common. Minor fine grained disseminated pyrite			Zn=.10; Ni=.01
				is present.			
370	398		Graphitic	Come de anoviene entre			
510	330		Argillite	Same as previous sections. 381 - 384 Grey, fine grained massive intermediate dyle with			425-426 Cu=.02;Pb=tr.
			Argillice	Beneficial and Beneficial and Aller and Aller and Aller			Zn=.01: Ni=.02
<u></u>				one percent finely disseminated pyrite.			
268	554		Mafic	Mafic volcanic is same as previous sections.			553-554 Cu=.03; Pb=tr.
			Volcanic	550 - 554 Whitish silicified section.			Zn=tr.;Ni=.01
				553.6 - 554 Trace pyrite, pyrrhotite and chalcopyrite.			
			[1		
554				END OF HOLE	1		
	ł						

GULF MINERALS COMPANY DIAMOND DRILL RECORD

D.D.H.	NO.	Z-	7	
SHEET				1

PROPERTY	ZAVITZ - SOUTH GROUP
LATITUDE	17+30N
LONGITUDE_	34+00W
ELEVATION_	

BEARING-TRUE_	180°	
DIP	65°	
FINAL DEPTH	618'	
CORE SIZE	AQ	

SHEET	1	OF	1
DATE STARTED	November 6,	1975	
DATE COMPLETE	D <u>Novembe</u> Morisse	<u>r 11,</u> tte	1975
LOGGED BY M	. White, A.S	• Cha	ykowski

DATE:_____

SIGNED____

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G	REMARKS
0	71.		Overburden		DEFIN	FOLIA	SAMPLES ETC.
			overburden				
71	552		Banded	Sedimentary unit consisting of alternate greenish grey to white felsic			
			Argillite	hands and black yory fine grained an illing of arternate greenish grey to white felsic			
				bands and black, very fine grained argillite (graphitic ?) bands. Felsic bands are medium to fine grained and occasionally graded bedding			200-205 Cu=.01;Pb=.01
				is observed indicating tops towards the upper portions of the drill			Zn=.01;Ni=.01
·				noic. Danuing units at approx /11° to the come eaching in			
				portions and at 45° in the lower sections. Up to one percent finely		70°	390-395 Cu=.01;Pb=.01
				disseminated pyrite is common, and it often occurs as fine grained		45°	Zn=.01;Ni=.01
				cubes. Trace pyrrhotite.			
							487-491 Pb=.01;Zn=.01
552	582		Graphite	Black, fine grained graphitic rock with trace pyrite. Calcite			Ni=tr.
				veinlets cut the core section at 70° and at 30°.		70°	
						_30°	553-558 Cu=.01;Pb=tr.
				Contact with proceeding unit at 45° to the core		4.00	Zn=.02;Ni=.01
						45°	
582	618		Banded	Grey, fine grained banded rock similar to section 71 - 552'. Banding			
			Argillite	at approx. 45° to the core section. Foliation at 45° and 90° to the			
				core section		45°	
						45°	
						<u>90°</u>	
618							
_010				END OF HOLE			
			·····				
	·						
I	1						

GULF MINERALS COMPANY

DIAMOND DRILL RECORD

BEARING - TRUE_

FINAL DEPTH_

CORE SIZE_

DIP_

165°

402'

AQ

50°

AUG. F. S.M. -

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D.D.H. NO.	Z-8		4 4 - ²²	
SHEET	•	1	OF	2
			•	

DATE STARTED	November 10, 1975
DATE COMPLETED_	November 13, 1975
DRILLED BY	Morissette
LOGGED BY M. W	hite, A.S. Chaykowski

DATE:

SIGNED____

	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
av softarden				
Sediment	Dark grey rock containing light grey felsic clasts which are			· · · · · · · · · · · · · · · · · · ·
actamorphose	rounded to oval (deformed) in character. The clasts range in size			
aphitic	from 1 mm. to 2 cm. A prominant foliation (deformation fabric)			
llite?)	occurs at approx. 30° to the core section. Biotite is common.	1	30°	
	Trace pyrite.			
· · · · · · · · · · · · · · · · · · ·	27 - 37 Fine to medium grained grey diorite dyke with biotite,			
	plagioclase and some quartz.			
	Fine grained, greenish black lava with moderate chlorite, epidote			
e	and calcite alteration. Trace fine grained pyrite and pyrrhotite.			
	Contact with proceeding unit at 45°.		45°	
i i intrato	Grey sediment containing 20 to 40% rounded to subrounded clasts			70.75 Cure 01
	ranging in size from 1 mm. to 25 cm. Grains and pebbles of chert,			70-75 Cu=0.01 Pb=tr.:Zn=0.01
	quartz, granite, argillite, mafic volcanics and porphry are common.			Ni=0.04
	Matrix varies from a greyish felsic material to a green grey mafic			N1-0.04
	material. Fine grained pyrite and blebs of pyrrhotite constitute			176-181 Cu=0.02
	one to two percent.			Pb=0.01;Zn=0.02
				Ni=0.02
4	Calcite veinlets cut the core at approx. 70°		70°	
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DIAMOND DRILL RECORD-CONTINUATION SHEET

D.D.H. NO. ______

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G	REMARKS
271	289		Graphitic	Black banded sediment with alternate black graphitic and grey felsic		FOLIA	SAMPLES ETC.
			Argillite	bands. Pyrite is fine grained and disseminated making up 3% of the			275-280 Cu=0.01;Pb=0.01
				section. Banding at approx. 70° to the core.		70°	Zn=0.04;Ni=0.01
				Silicified section with abundant calcite contains fine grained pyrite making up 2%.			
289	303		Diorite	Similar to section 27 - 37.			
707	402		Dyke				
303	402		Conglomerate	Similar to section 51 - 271. Matrix quite mafic resembling volcanic			342-347 Cu=0.01;Pb=tr.
	· · · ·			tuff? Mafic and felsic clasts are common ranging in size from 1 to			Zn=0.01;Ni=0.02
				3 cm. in size. Foliation at 45° and 65°. Blebs of pyrite = 1% while pyrrhotite = 3%.		45°	
				pyrinotite = 5%.		65°	
				356.6 - 358.6 Graphitic section			
402				END OF HOLE	ļ		
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GULF MINERALS COMPANY DIAMOND DRILL RECORD

D.D.H. NO.	「 」 「 」 」 」 」 」 」 」			
SHEET	1	OF	1	

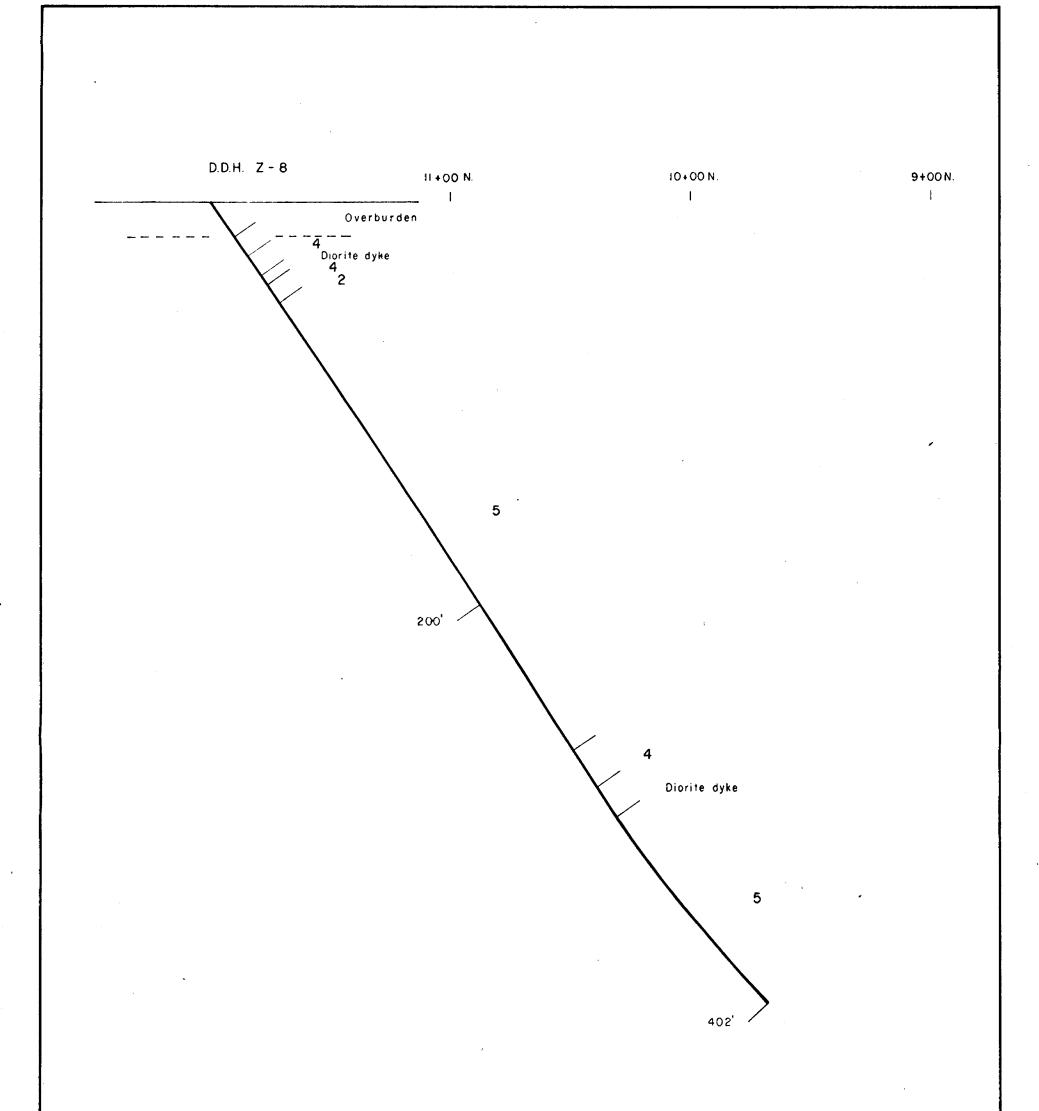
PROPERTY	ZAVITZ - SOUTH GROUP
LATITUDE	0+00
LONGITUDE_	6+00WE
ELEVATION_	

BEARING - TRUE	205°	
DIP	50	
FINAL DEPTH	507'	
CORE SIZE	AQ	_

DATE STARTED	November 12, 1975
	November 15, 1975
DRILLED BY	Morissette
LOGGED BY M.	White, A.S. Chaykowski

DATE:		SIGNED_	
N	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
· hummigh Aires TA is fine	-		70 5 77 5 4

DEPTH FEET	F'TAGE CORED	F'TAGE REC'D	FORMATION	DESCRIPTION	DEPTH	BED'G & FOLIA	REMARKS SAMPLES ETC.
0	13		Overburden	· · · · · · · · · · · · · · · · · · ·			
13	275		Ultramafic	Green black intrusive often displaying a brownish tinge. It is fine to medium grained and commonly serpentinized. Talc and asbestos			32.5-37.5 Ag=tr. Pb=tr;Zn=0.01;Ni=0.14
				mineralization is minor. Calcite alteration is common. The section			87-92 Pb=tr.;Zn=tr.
				is magnetic. Calcite veinlets intersect core section at 70° and		70 °	Ni=0.15
	}			45° (two prominant foliations?)		45°	163-168 Ag=tr.;Cu=0.01
				270 - 275 Grey green, soapy, talcose rock containing			245-250 Pb=tr.
4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				trace pyrite.			Zn=0.01;Ni=0.25
275	507		Felsic	Grey to greenish grey, fine grained felsic rock, massive to agglomeritic			344-348 Cu=0.01
			Volcanic	in nature. Chlorite and calcite alteration is common. Minor amounts		ļ	Pb=tr.;2n=0.01
		·····	(massive to	of finely disseminated to lensoid pods of pyrite and pyrrhotite are			Ni=0.01
			agglomeritic)	present along with trace amounts of chalcopyrite.			470-475 Cu=0.01
·····							Pb=tr.;Zn=0.01
				470 - 470.2 Massive chalcopyrite (5-10%) in quartz vein.			Ni=0.01
507				END OF HOLE			
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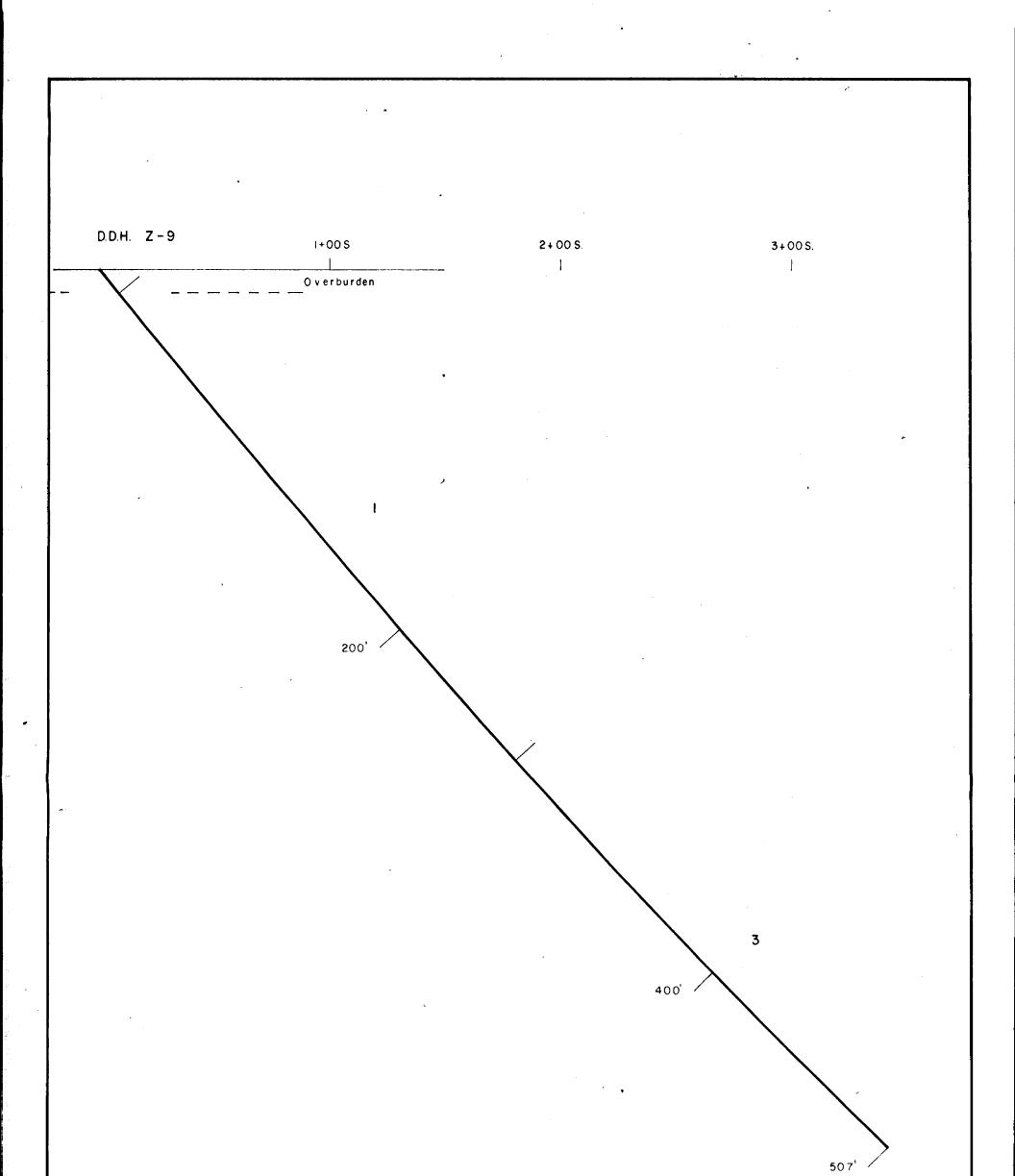
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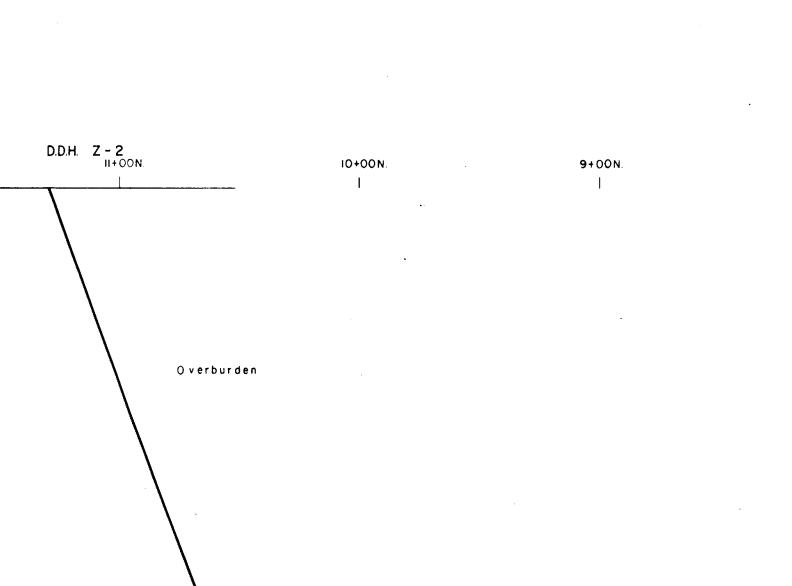
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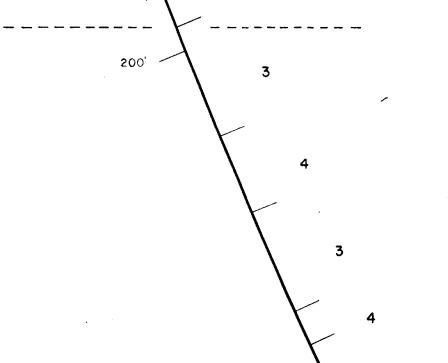
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ZA	VITZ TWP	NORTH GROU	JP
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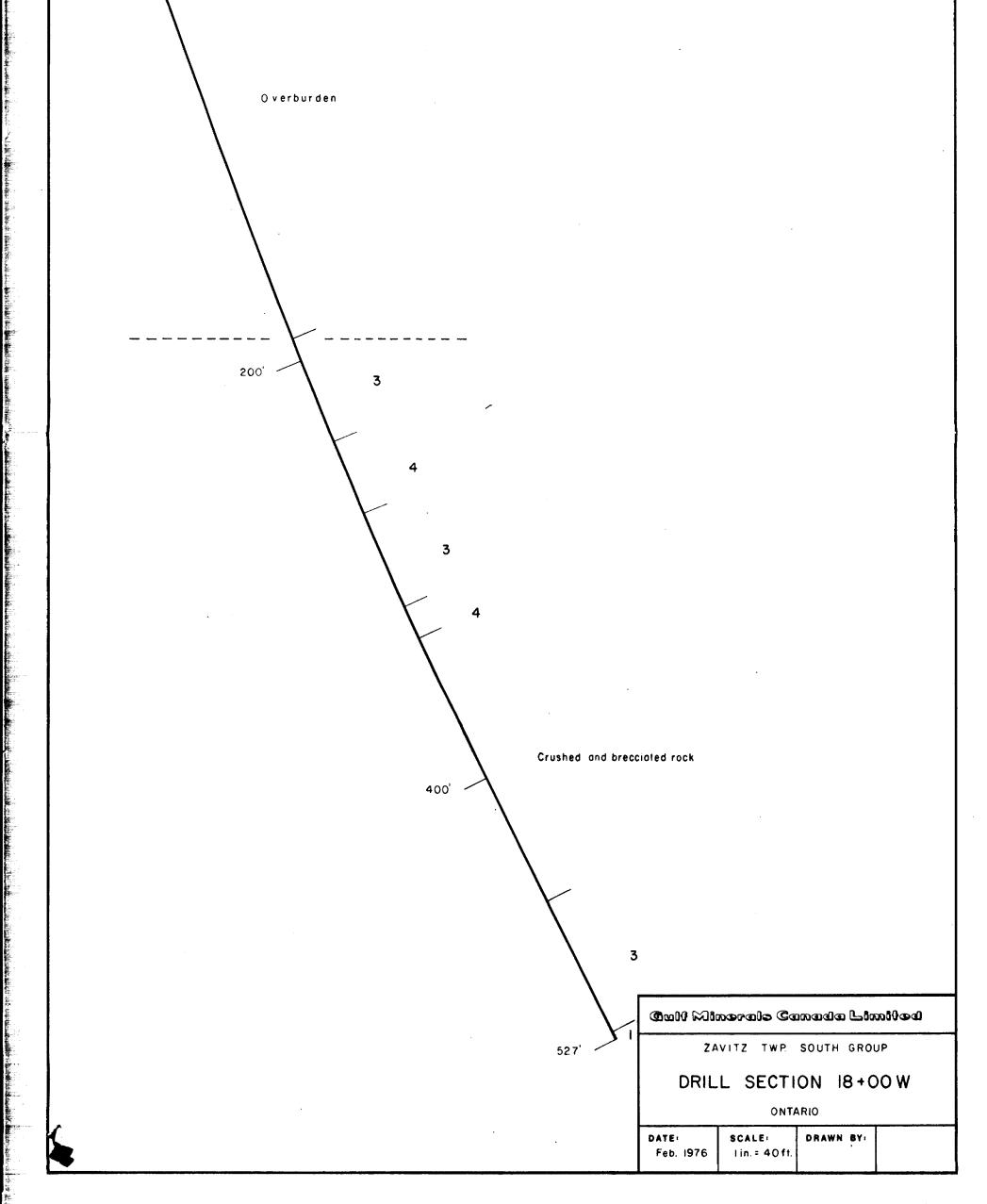


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Crushed and brecciated rock



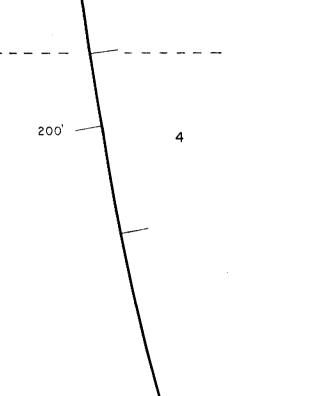
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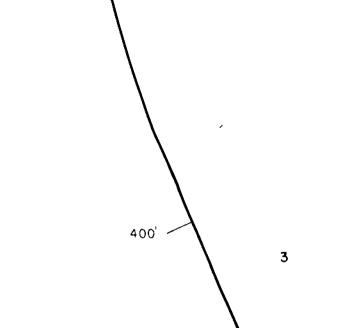
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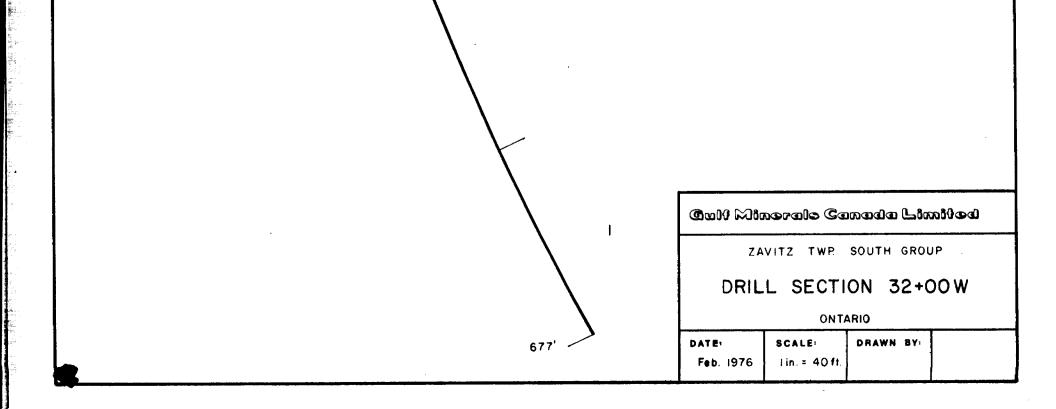
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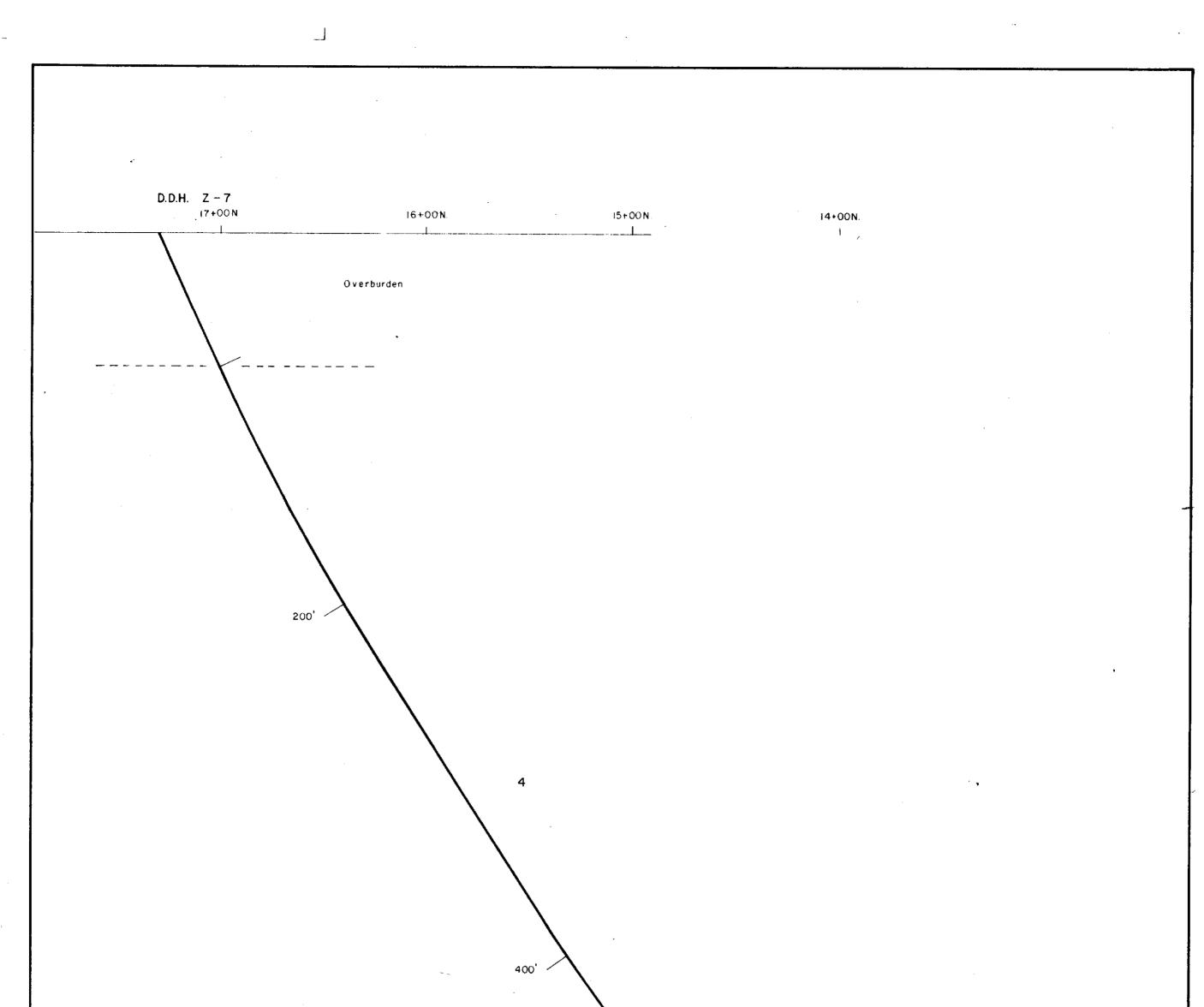


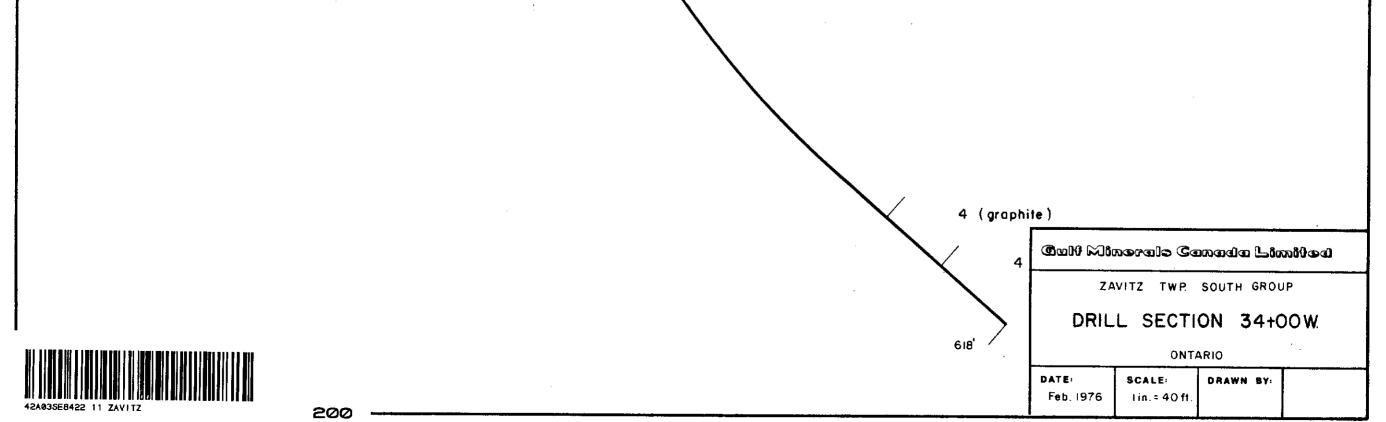
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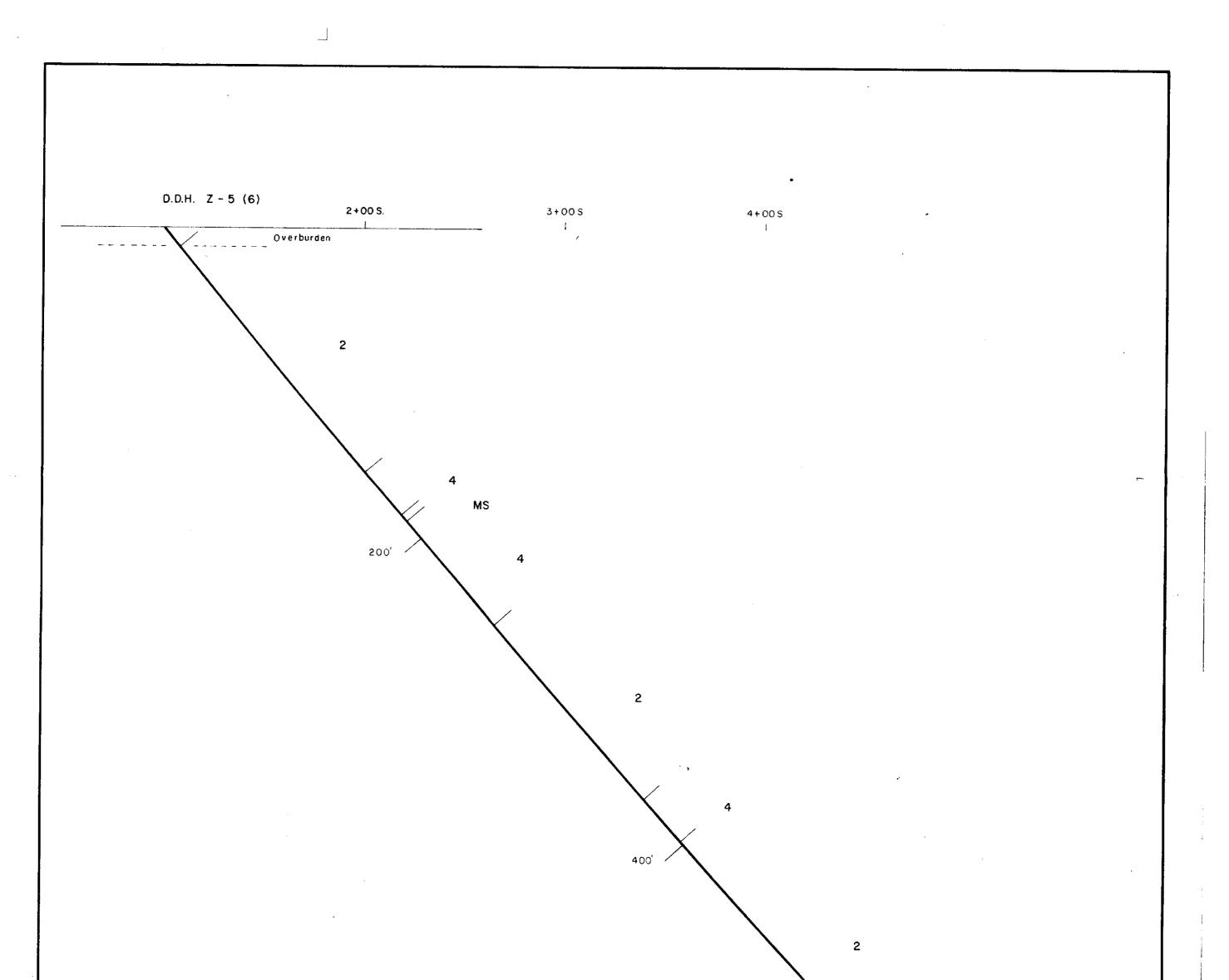
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		·	ZAVITZ TWP. NORTH GROUP			IP		
1			DRILL SECTION 36+00 E					
			ONTARIO					
42A@3SE8422 11 ZAVITZ	210		DATE: Feb. 1976	SCALE⊨ Tin.≖ 40 ft.	DRAWN BY	-		

D.D.H. Z-3 3+00N 2 +00 N. I +00 N. BL:0+00 1 1 1 Overburden ____ _ __ _ - -----2 2 MS 200' 2 4 MS 4 MS MS /// 400' 4 (graphite) . 600' • 42A03SE8422 11 ZAVITZ

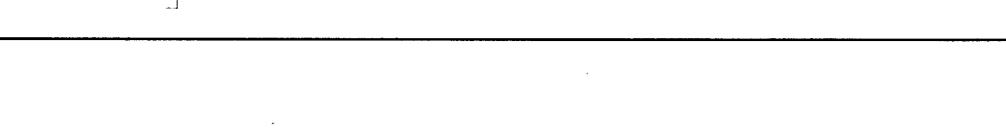
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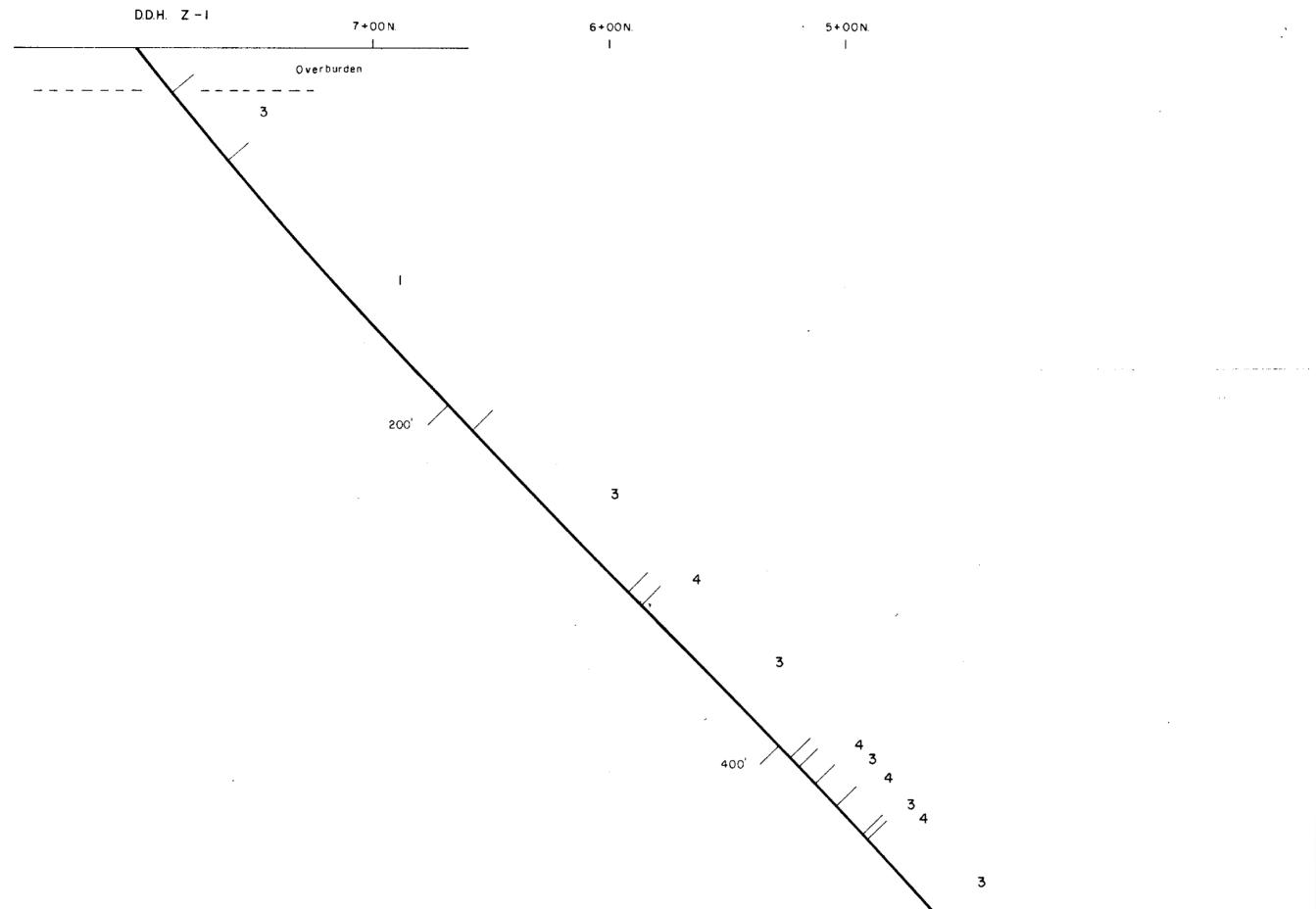
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42A035EB422 11 ZAVITZ	230	······································			DATE: Feb. 1976	SCALE: (in.=40ft.	DRAWN BY:	vi



