

VERNON TOWNSHIP REPORT #10

This file contains work done on claims:

S.138518	351'
S.138519	363'
S.135296	398'
S.138396	339'
	369'
	<hr/>
	1820 FT

SDH

42105N/0096 901181 VERNON



010

Claim No. 138518
800' W 500' N of Post #2

D. D. HOLE No. V-1

Loc. VERNON TOWNSHIP Dip collar: -50° Bearing collar: 300° Length: 351 ft.
Collar el. :
Bottom el. :

Drilled by: Heath & Sherwood Core size: BX AX Begun: NOV. 15/66 Ended: NOV. 18/66 Logged by: D.P. Rogers

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	9	9		OVERBURDEN
	9	21	12	98%	OXIDIZED QUARTZITE - Varied disseminated pyrite and occasional stringers at 45° to core axis. Bedding (?) at 10° to core axis
	21	50.8	29.8	100	WHITE QUARTZITE
					40 - 50 Scattered irregular sulphides PY with traces of galena, arsenopyrite and trace chalcoppyrite.
	50.8	130	79.2		LIMEY ARGILLITE (fine-bedded)
					0-20° to core axis - disseminated pyrite. Gradational across bedding contact into limey sub-greywacke - minor pyrite disseminated in more argillaceous fractions.
					52 - 53 Calcite-sphalerite, chalcoppyrite galena veinlets. Bedding 0-20° to core axis. More argillaceous beds.
					53 - Mixed quartzites and sub-greywacke with spotty sulphides and irregular bedding sub parallel to core axis. (0-20°)
1206					Sulphide Section: - Cu, Pb, Zn, Ag 52.1 to 53.
	130	131.5	1.5		LIMEY ARGILLITE PYRITIC
					Bedding in argillite parallel to core axis but contact with lower limestone at 80° to core axis - local disconformity

D. D. HOLE No. V-1

Loc. Vernon Twp. Dip collar : _____ Bearing collar : _____ Length: _____
 _____ Collar el. : _____
 _____ Bottom el. : _____

Drilled by: _____ Core size: _____ Begun: _____ Ended: _____ Logged by: _____

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	131.5	144.8	13.3		<u>SILICEOUS LIMESTONE</u> 140' bedding at 35° to core axis 142' bedding at 45° to core axis Traces of galena, pyrite and sphalerite.
	144.8	148.8	4.0		<u>POLYMICTIC CONGLOMERATE</u> Bedded argillaceous matrix with quartz grits and small granite pebbles. Contact and bedding at 45° to core axis. Minor disseminated pyrite. Gradational contact to limestone again.
	148.8	152.8	4		<u>SILICEOUS LIMESTONE</u>
	152.8	167	14.2		<u>POLYMICTIC CONGLOMERATE</u> as above - with irregular limey sections which may represent slump blocks in the conglomerate. Gradational into finely bedded (not limey) argillite.
	167	180	13		<u>SUBGREYWACKE</u> Only trace of pebbles - varied trace pyrite.
	180	194	14		<u>ARGILLITE</u> Finely bedded at 35-45° to core axis - finely disseminated pyrite. Gradational to siliceous limestone.
	194	203	9		<u>SILICEOUS LIMESTONE</u> - slump structure
	203	248	45		<u>GREYWACKE - ARGILLITE</u> Conglomerate facies and autoclastic textures - only a few scattered pebbles. 220' bedding at 35° to core axis. 227' bedding at 30-40° to core axis.

D. D. HOLE No. V-1 $\frac{1}{2}$

Loc. Vernon Twp. Dip collar : Bearing collar : Length:
 : Collar el. :
 : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
					This section would appear to be a facies of the polymictic conglomerate.
	248	289	41	100	SILICEOUS LIMESTONE (or Limey Quartzite)
					251 - 252 Narrow autoclastic conglomerate zone in limestone cut by $\frac{1}{2}$ " gabbro dyke. The carbonate appears to be mainly fine-grained interstitial with very fine-grained quartz
					259 - Bedding at 15-30' to core axis. (In limestone)
					265 - 20° to core axis.
					275 - 35° to core axis.
					285 - 40° to core axis.
	289	291.5	2.5	100	ARGILLITE CONGLOMERATE (LIMEY)
					289 - Sulphides vein zone parallel to bedding. Quartz, Calcite, Sphalerite, Pyrite.
1207	289	290	1		For Pb, Zn, Ag, Cu. Pyrrhotite-galena in a finely-bedded argillaceous band containing occasional pebbles. Foliation at 30-35° to core axis.
	291.5	292	0.5		QUARTZ-CALCITE VEIN
	292	320.5	28.5		SILICEOUS LIMESTONE (or Limey Quartzite) as above. Bedding at 40° to core axis. 35° to core axis at 306'.

D. D. HOLE No. V-1

Loc. Vernon Twp. Dip collar : Bearing collar : Length:
 Collar el. :
 Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	320.5	332	11.5	100	BEDDED-ARGILLITE-GREYWACKE (Limey Beds) Occasional pebble and autoclastic texture - disseminated pyrite. Contact sharp but erosional with above quartzite at 35° to core.
1208	330	332	2		PYRITIC ARGILLITE - check for U ₃ O ₈ - Th. 330 - Bedding 70° to core axis.
1209	332	333	1		REGOLITH - granitic-quartz-arkosic.
	333	351	18		GRANITE Pink - coarse-grained.
					END OF HOLE.
					SUMMARY
	0	9			Overburden.
	9	50.8	41.8		WHITE QUARTZITE (MINOR ACID REACTION) with minor sulphides (Pyrite).
	50.8	131.5	80.7		LIMEY ARGILLITE 52.1 - 53.6 (Cu, Pb, Zn, Ag sulphides)
	131.5	144.8	13.3		SILICEOUS LIMESTONE
	144.8	148.8	4		POLYMICTIC CONGLOMERATE
	148.8	152.8	4		SILICEOUS LIMESTONE
	152.8	167	14.2		POLYMICTIC CONGLOMERATE
	167	180	13		SUBGREYWACKE facies of above conglomerate
	180	194	14		ARGILLITE
	194	203	9		SILICEOUS LIMESTONE
	203	248	45		GREYWACKE/ ARGILLITE (conglomerate facies)

D. D. Hole No. V-1

Loc. Vernon Township Dip collar : -40° Bearing collar : 325° Length: 363 ft.

Collar el. :

Bottom el. :

Heath

Drilled by: Sherwood Core size: BX AX Begun: NOV. 21/66 Ended: NOV. 27/66 Logged by: D. Rogers

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	8			OVERBURDEN.
	8	48.5	40.5	90	<u>POLYMICITIC CONGLOMERATE</u> blocky Grey, partially oxidized argillaceous quartz grit matrix with scattered granite pebbles, minor disseminated pyrite (+ 1%) plus occasional blebs oxidation (weathering along fracture planes.
					25 - 44 More argillaceous member pyritic matrix only trace of pebbles-grit.
					44 - 48 Subgreywacke pebble conglomerate less pyritic.
					43.5 - 48.5 Subgreywacke-quartzite-grit conglomerate with scattered quartz pebbles-grit and minor disseminated pyrite and occasional pyrite seams (secondary).
	48.5	55.5	7	100	<u>QUARTZITE</u> Fine-grained-blotchy (autoclastic?) structures. Some minor quartz veining and trace pyrite in seams. Minor carbonate reaction.
	55.5	58.5	3	100	<u>ARGILLACEOUS GRIT</u> More fine-grained argillaceous member with minor quartz pebble-grit. Minor dissemination and stringers of pyrite.

D. D. HOLE No. V-2

Loc. Vernon Township Dip collar : Bearing collar : Length:
 : Collar el. :
 : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	58.5	82	24.5	100	QUARTZITE (Limey fractions) Fine-grained white quartzite.
					60 - 63 Limey quartzite with irregular thin fractures. with dark mineral (chlorite or carbonaceous material?)
					62.5 Bedding at 70° to core axis
					63 - 82 Quartzite, very fine-grained with some autoclastic textures (limey fraction).
					64.2 - Narrow band (bed?) at 45° to core axis.
	82	82.8	0.8		QUARTZ-FELDSPAR (Arkose Grit) Sericitic matrix.
	82.8	86	3.2		QUARTZITE Very fine-grained (limey fraction).
	86	97	11		CLASTIC QUARTZITE PEBBLE CONGLOMERATE Varied quartzite and quartz-feldspar pebbles-grit sericitic matrix - varied disseminated pyrites. Gradational (limey fraction).
	97	99	2		FELDSPATHIC-ARKOSE GRIT (Limey)
1210	99	100.8	1.8		QUARTZ-FELDSPAR (ARKOSE-GRIT) Sericitic matrix with minor disseminated pyrite and pyrite blebs. (Same as 82 - 82.8)
	100.8	131	30.2		QUARTZITE (Limey fraction) (trace disseminated pyrite)
					109 - 109.8 (Arkose grit conglomerate) Bedding at 40° to core axis Occasional 1" to 2" (grit D. D. Hole No. V-2

D. D. HOLE No. V-2

Loc. Vernon Township

Dip collar : Bearing collar : Length:

Collar el. :

Bottom el. :

Drilled by:

Core size:

Began:

Ended:

Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
					bands) as above.
					121.5 Narrow seams-fractures pyritic (bedding?) at 45° to core axis.
					128 - 171 Gradational change to sub- greywacke with autoclastic breccia structures, pyrite.
	131	150	29		<u>SUBGREYWACKE/LIMEY ARGILLITE</u> Autoclastic structure bedding at 60-70° to core axis increase in disseminated pyrite (+ 1%) and argillaceous greywacke bedded and clastic.
					142 - 143 bedding at 45° to core axis - Gradational to -
					148 - 150 Pyritic-argillaceous rocks - Gradational from above -
	150	195	45		<u>(POLYMICTIC) GREYWACKE-CONGLOMERATE</u> Quartz and granite pebbles 1/8" X 3/4" subangular, disseminated pyrite in argillaceous-subgreywacke matrix.
					165 - 2-3" granite pebbles, more abundant. Gradational contact over 3-4" into arkosic quartzite.
	195	212.3	17.3		<u>PINK ARKOSIC QUARTZITE (Feldspathic)</u> Angular to sub-rounded pink feldspar and quartz matrix quartzite.
					200 - 201 Bedding? at 30° to core axis. No reaction to HCL.

D. D. HOLE No. V-2

Loc. Vernon Township Dip collar : Bearing collar : Length:
 : Collar el. :
 : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	212.3	214	1.7		Changes to a more green bedded? pyritic seamed green arkosic quartzite at 70-80° to core axis.
	214	215.5	1.5		PINK ARKOSIC QUARTZITE
	215.5	216.5	1		GREY-GRANITE-ARKOSE OR possibly a large GRANITE BOULDER in contact with argillaceous bedded (fine) sediment below (gritty).
	216.5	222.5	6		FINE BEDDED ARGILLITE (Pyritic) Partially contorted - autoclastic breccia feature (?). Faintly limey reaction. Bedding at 40-50° to core axis.
	222.5	260.5	38		META GABBRO/DIORITE Contacts (?) at 45° to core axis.
	260.5	261.5	1		META ARGILLITE ? Faintly foliated (bedded?) argillaceous rock.
	261.5	265	3.5		PINK GRANITE OR ARKOSE May be a large granite boulder or arkosic section?
	265	266	1		META ARGILLITE ? "Biotite Schist."
	266	269.8	3.8		MIXED GRANITIC AND FOLIATED SCHIST at 45° to core axis. The above complex zone from 261.5 to 269.8 may be a large inclusion in the gabbro.
	269.8	363	94.2		META GABBRO/DIORITE
				347 - 348	Minor zone of calcite and pyrite mineralization.
				356.5 - 360	Varied foliation and pink

D. D. HOLE No. V-2

Loc. Vernon Township Dip collar : Bearing collar : Length:
 : Collar el. :
 : Bottom el. :

Drilled by Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
					"feldspar" ? zones with minor pyrite. Foliation - 60-70° to core axis.
		363			END OF HOLE
					SUMMARY
	0	8	8		OVERBURDEN
	8	48.5	40.5	90	POLYMICTIC CONGLOMERATE
	48.5	55.5	7	100	MOTTLED QUARTZITE (Limey reaction)
	55.5	58.5	3	100	ARGILLACEOUS GRIT
	58.5	82	24.5	100	QUARTZITE (Limey reaction)
	82	100.8	18.8	100	VARIED ARKOSE/GRIT/CONGLOMERATE (Limey fractio
	100.8	131	30.2	100	QUARTZITE (Limey fraction)
	131	150	29	100	SUBGREYWACKE/LIMEY ARGILLITE
	150	195	45	100	POLYMICTIC GREYWACKE CONGLOMERATE
	195	212	17	100	PINK ARKOSIC (feldspathic) QUARTZITE (no Limey fraction)
	212	216.5	4.5	100	VARIED ARKOSE
	216.5	222.5	6	100	ARGILLITE (Faint Limey reaction)
	222.5	260.5	38	100	META GABBRO/DIORITE (DYKE)
	260.5	269.8	9.3	100	MIXED ARGILLITE & PINK GRANITE OR ARKOSE (may be inclusion in the gabbro dyke)
	269.8	363	94.2	100	META GABBRO/DIORITE
					This hole never found the granite sediment contact due to the meta gabbro dyke. No zones of higher radioactivity were found in the core.

D. P. Rogers
D. D. Hole No. V-2

1000' W 600' S of Post #1

D. D. HOLE No. V-3

Loc. Vernon Township Dip collar : -50° Bearing collar : 300° Length: 398.0 ft.

Collar el. : _____

Bottom el. : _____

Drilled by Heath Sherwood Core size: BX AX Begun: Dec. 2/66 Ended: Dec. 6/66 Logged by: D. P. Rogers

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	26	26		OVERBURDEN
	26	40	14		LIMESTONE White, with fine black argillaceous beds. Reacts strongly to HCL. Bedding parallel (0° - 10°) to core axis. Contact (?) at 30° to core axis.
	40	108	68		GREY CONGLOMERATE (Polymictic) QUARTZITE Quartz pebbles, granite and greenstone. (subangular). Varied quartz grit zones with "blue quartz eyes" or grains. Varied disseminated pyrite + 1%. Matrix-quartz grains in greywacke, shows many facies. Barite(?) or feldspar quartz veinlets (1/4" to 1 1/2" wide) cut the conglomerate at 65, 71.8, 75.4, 76, 78.8, 89, 91. Gradational
	108	130	22		LIGHT GREY-BROWN SILICEOUS CONGLOMERATE-BRECCIA Member much irregular quartz veining with pink feldspar fragments, (type of arkose?) Gradational
	130	219	89		GREY (POLYMICTIC?) CONGLOMERATE Quartzite, granite quartz pebbles, pink feldspar fragments, siltstone. Similar to 40' - 108' section. Apparent bedding at 30-35° to core axis at 145', 171' bedding at 40° to core axis. Occasional "blue quartz eye grains" in matrix.

D. D. HOLE No. V-3

Loc. Vernon Township Dip collar : Bearing collar : Length:
 Collar el. :
 Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
					213' bedding at 40° to core axis.
					Gradational contact.
	219	240	21		<u>GREYWACKE/QUARTZITE MEMBERS</u>
					Light and dark coloured subgreywacke grit
					233' bedding at 40-45° to core axis
					222 - 228 Brown-pink quartzite
					228 - 234 Grey greywacke-quartzite
					+ grit zones.
					234 - Brown-pink quartzite
					239.6-240 Quartz-feldspar veins zone.
	240	265.8	25.8	100	<u>LIMESTONE FORMATIONS</u>
					Light coloured, white, grey, brown rhythmic bedded 1/8" - 1/4" beds. 50-70° to core axis.
					GREYWACKE GRIT facies from 257.8 to 265.8 at granite contact.
	265.8	274.8	9.0		<u>PINK GRANITE</u>
					The limestone has flowed near the contact and contains pink feldspar/quartz blebs
					???. The contact is sedimentary. The granite is medium-coarse-grained and shows no chilling effect to the limestone.
					Contact looks sedimentary.
	274.8	277.5	2.7		<u>LIMESTONE</u>
					Pinkish blebs same as previous contact with granite at 265.8
	277.5	281.5	4.0		<u>BIOTITE GREYWACKE GRIT</u>
	281.5	283	1.5		<u>GRANITE ARKOSE BOULDER</u>
	283.	283.4	0.4		<u>LIMEY SEDIMENT</u>

D. D. HOLE No. V-3

Loc. Vernon Township Dip collar : Bearing collar : Length:

..... Collar el. :

..... Bottom el. :

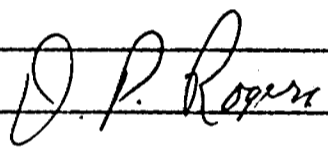
Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	283.4	336.5	53.1		GRANITE (boulder block?)
	336.5	368	32.5		GREYWACKE-GRIT CONGLOMERATE with 1-3' boulders of granite-arkose facies Scattered carbonate reaction, i.e., limey greywacke. Bedding at 50-55° to core axis.
	368	390.4	22.4	100	GRANITE (melanocratic and large 1/2" orthoclase phenocrysts)
	390.4	398	7.6	100	GREYWACKE ARKOSE GRIT with granite pebbles
		398			END OF HOLE
					SUMMARY
					Complete core checked with scintillometer. No radioactivity above background noted.
	0	26	26		OVERBURDEN
	26	40	14		LIMESTONE
	40	108	68		POLYMICTIC CONGLOMERATE
	108	130	22		CONGLOMERATE-BRECCIA-ARKOSE (?)
	130	219	89		POLYMICTIC CONGLOMERATE
	219	240	21		SUBGREYWACKE-QUARTZITE/GRIT
	240	265.8	25.8		LIMESTONE
	265.8	274.8	9.0		GRANITE (Boulder or Slump Block)
	274.8	283.4	8.6		LIMESTONE/GREYWACKE GRIT/ARKOSE beds
	283.4	336.5	53.1		GRANITE (slump or talus block?)
					NOTE: The granite sediment contacts are sedi- mentary and not faulted.

D. D. HOLE No. V-3

Loc. Vernon Township Dip collar : Bearing collar : Length :
 Collar el. :
 Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	336.5	368	32.5		GREYWACKE GRIT CONGLOMERATE with arkose facies
	368	390.4	22.4		GRANITE
	390.4	398	7.6		GREYWACKE ARKOSE GRIT
The geological section appears to correlate with the Espanola-Bruce Conglomerate formation, and the Mississagi formation was never deposited or was eroded away before the Espanola-Bruce formation was laid down.					
					
D. D. Hole No. V-3					

D. D. HOLE No. V-4

Loc. Vernon Township Dip collar : -45° Bearing collar : 90° Lengths 338.6 ft.
 Collar el. :
 Bottom el. :

Drilled by Heath Sherwood Core size: AX Bogun: Dec. 10/66 Ended: Dec. 12/66 Logged by D.P. Rogers

Samples	Footage drilled				Geology
	From	To	Lon.	Rec. %	
	0	8	8		OVERBURDEN
	8	42	34	100	<u>POLYMICTIC CONGLOMERATE</u> Subgreywacke grit matrix, 1% disseminated pyrite some of which is concentrated at pebble peripheries. Gray granite pebbles and quartz grit. Bottom four feet in gradational quartz-greywacke grit (grains up to 1/4"). Bedding at 80° to core axis.
	42	148	106	100	<u>ARKOSIC QUARTZITE</u> Well-bedded (75-90° to core axis). Green, grey and pink quartzite and grit arkose facies. Every 5-10" a thin 1 mm. pyrite bedding seam or blebs. Background pyrite + 1%. Abundant cross bedding some of which is pyritic.
	148	171	23		<u>GREY-SUBGREYWACKE GRIT/ARKOSE</u> Less than 1% disseminated random pyrite.
	171	179	8		<u>FINE-GRAINED QUARTZITE</u> with tiny black specks (magnetite?). Drilling hit a narrow red mud seam.
	179	198	18		<u>MIXED GRIT AND QUARTZITE</u> 180 - 190 Pyritic zones
1204			2.0		284.8- 286.8 Quartz grit with 1-5% pyrite Check sample portion.
					195 - 198 Tiny irregular fractures in quartzite with white soft mineral - does not react to HCL, weathers brown.

D. D. HOLE No. V-4

Loc. Vernon Township Dip collar : Bearing collar : Length:
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Bogun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Lon.	Rec. %	
	198	228	30	100	<u>GREY-SUBGREYWACKE ARKOSE GRIT</u> 1-5% disseminated pyrite in matrix. Irregular partings sub-parallel to core - chlorite/pyrite.
1203	222	224	2		<u>QUARTZ GRIT with + 1% pyrite (sample portion)</u> Gradational (color) into a greenish
	228	256	28	100	<u>QUARTZITIC ARKOSE GRIT</u> traces of pyrite in matrix.
	256	280.8	23.8	100	Gradational (facies beds) into a <u>GREENISH</u> <u>QUARTZITE</u> with 1 ft. + beds of grit and quartzite and fine-grained greenish silt beds. Bedding 80-90° to core axis.
1202	280.8	282.1	1.3	95	<u>QUARTZ PEBBLE CONGLOMERATE (ARKOSIC)</u> Greenish coloured - sericitic matrix
1201	282.1	283	0.9	100	<u>PINK ARKOSE GRIT (Regolith?)</u>
	283	338.6	55.6	100	<u>PINK GRANITE</u> medium to coarse-grained
		338.6			END OF HOLE in granite.

D. D. HOLE No. V-4

Loc. Vernon Township Dip collar : _____ Boaring collar : _____ Length : _____
 _____ : _____ : _____ Collar el. : _____
 _____ : _____ : _____ Bottom el. : _____

Drilled by: _____ Core size: _____ Begun: _____ Ended: _____ Logged by: _____

Sample	Footage drilled				Geology
	From	To	Len.	Rec. %	
SUMMARY					
	0	8	8		OVERBURDEN
	8	42	34		POLYMIC TIC CONGLOMERATE
	42	148	106		ARKOSIC QUARTZITE
	148	171	23		GREY-SUBGREYWACKE GRIT/ARKOSE
	171	198	27		MIXED GRIT & QUARTZITE
	198	228	30		GREY-SUBGREYWACKE ARKOSE/GRIT
	228	256	28		QUARTZITIC ARKOSE/GRIT
	256	280.8	23.8		GREEN QUARTZITE AND GRIT
	280.8	282.1	1.3		QUARTZ PEBBLE CONGLOMERATE
	282.1	283	0.9		PINK ARKOSE GRIT (Regolith)
	283	338.6	55.6		PINK GRANITE
<p>The intersection appears to correlate well with the Whiskey (Ramsay) conglomerate and the underlying Lower Mississagi formation unconformably overlying the older granite.</p> <p>No zones of higher radioactivity were found with the scintillometer but five samples were cut of pyritic grit and narrow quartz pebble conglomerate for check purposes (U_3O_8 and Th)</p> <p>The intersection indicates that the East Limb of the East Syncline is normal and dipping at about 40° west.</p> <p style="text-align: center;"><i>D. P. Rogers</i></p>					
D. D. Hole No. V-4					

500' W 250' N of Post #2

D. D. HOLE No. V-5

Loc. Vernon Township Dip collar: Vert. (90°) Bearing collar: _____ Length: 369 ft.
 _____ Collar el.: _____
 _____ Bottom el.: _____

Drilled by: Heath & Sherwood Core size: AX 16-369 BX 9-16 Begun: Dec. 15/66 Ended: Dec. 18/66 Logged by: D.P. Rogers

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	9	9		OVERBURDEN
	9	19	10	100	POLYMIC TIC CONGLOMERATE - Quartzitic Matrix Scarce pebbles - but in lower portion only. Gradational to lower quartzite.
	19	183	164	100	QUARTZITE, QUARTZ GRIT, ARKOSE Member 23' bedding at 65° to core axis. Varied beds of fine-grained quartzite, quartz, grit, to arkosic with narrow greenish more shaly bands. 46 Bedding at 75° to core axis. 50 - 70 Bedding at 75-85° to core axis. Some grit zones have dominant greenish sericitic matrix. 91 Bedding at 70-80° to core axis. 107.5-117.5 Quartz grit member - both pyritic and sericitic matrix (varied). 140 - 150 Quartz grit, fractured and veined by chloritic material Bedding at 70° to core axis 158 - 160 Fine-grained quartzite with tiny black specks (magnetite?) (See V-4 171-179 similar.) 163 - 173 Grit-arkose dominant. 173 - 183 Quartzite/grit dominant. Bedding at 75-80° to core axis. Gradational contact.

D. D. HOLE No. V-5

Loc. Vernon Township Dip collar : _____ Bearing collar : _____ Length: _____

_____ : _____ Collar el. : _____

_____ : _____ Bottom el. : _____

Drilled by: _____ Core size: _____ Begun: _____ Ended: _____ Logged by: _____

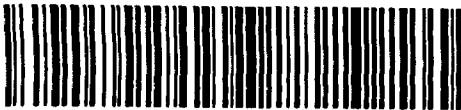
Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	183	224.	41	100	<u>GREY SUBGREYWACKE GRIT, ARKOSE</u> Dominant quartz grit. Minor pyrite blebs < trace disseminations. 205 Bedding at 70° to core axis. This gradational down into more pink varied fine-grained felsic quartzite with pink arkosic facies.
	224	293	69	100	<u>PINK FELDSPATHIC ARKOSE/QUARTZITE</u> Irregular arkosic facies in fine-grained felsic matrix. Irregular fracturing and chloritic seams. Trace pyrite blebs and bedding plane seams. Bedding at 70-80° to core axis.
	293	303	10	100	<u>FINE-GRAINED ARGILLACEOUS FACIES</u> with narrow pink arkosic beds. 296 - 3½" quartz veins. 298 - 300 two 6" quartz veins Bedding at 70° to core axis.
	303	324.5	21.5	100	<u>PINK FELDSPATHIC ARKOSE/QUARTZITE</u> Same as 224 - 293 Bedding at 65-70° to core axis No conglomerate at contact
	324.5	369	44.5		<u>PINK GRANITE</u> Coarse-grained.
					END OF HOLE

D. D. HOLE No. V-5

Loc. Vernon Township Dip collar : Bearing collar : Length:
Collar el. :
Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by:

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
					SUMMARY
	0	9	9		OVERBURDEN
	9	19	10		POLYMIC TIC CONGLOMERATE
	19	183	164		QUARTZITE, QUARTZ GRIT, ARKOSE
	183	224	41		SUBGREYWACKE GRIT, ARKOSE
	224	293	69		PINK FELSPATHIC ARKOSE, QUARTZITE
	293	303	10		FINE-GRAINED GREY ARGILLACEOUS FACIES
	303	324.5	21.5		PINK FELDSPATHIC ARKOSE, QUARTZITE
	324.5	369	44.5		PINK COARSE-GRAINED GRANITE
					No zones of above background radioactivity were found with the scintillometer.
					The rocks cut appear to correlate lithologically with the lower portion of the Whiskey (Ramsay) conglomerate and the underlying Lower Mississagi.
					D. R. Rogers



42105NW0006 0011B1 VERNON

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ONTARIO

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of Sudbury Mining Division

I, Texas Gulf Sulphur Company A-34861

name of Recorded Holder

Miner's Licence

34 King Street East Toronto 1, Ontario

Post Office Address

do hereby report the performance of 1819 days of Diamond Drilling type work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
138520	100	138336	100	138333	100
138519	100	137383	100	138396	100
138518	100	138235	100	138397	100
135296	100	137382	119	138398	100
138337	100	138334	100	138399	100
138338	100	137381	100	138400	100

All the work was performed on Mining Claim (s) 138518, 138519, 135296, 138396 (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.

For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.

For Compressed Air or Other Power Driven or Mechanical Equipment

Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.

For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.

With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.

For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.

For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

HOLE	BEARING	DIP	FOOTAGE
V1	300°	-50°	351'
V2	325°	-40°	363'
V3	300°	-50°	398'
V4	090°	-45°	338'
V5	-	-90°	369'

Date AUGUST 11 1967

Texas Gulf Sulphur Co. R. M. Ginn Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, R.M. Ginn, Texas Gulf Sulphur Company

34 King Street East TORONTO 1, Ontario

(Post Office Address)

hereby certify:

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

Dated AUGUST 11 1967

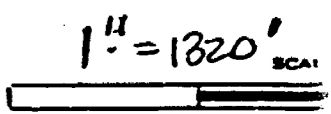
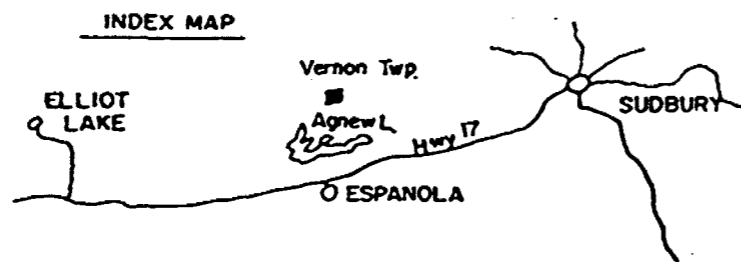
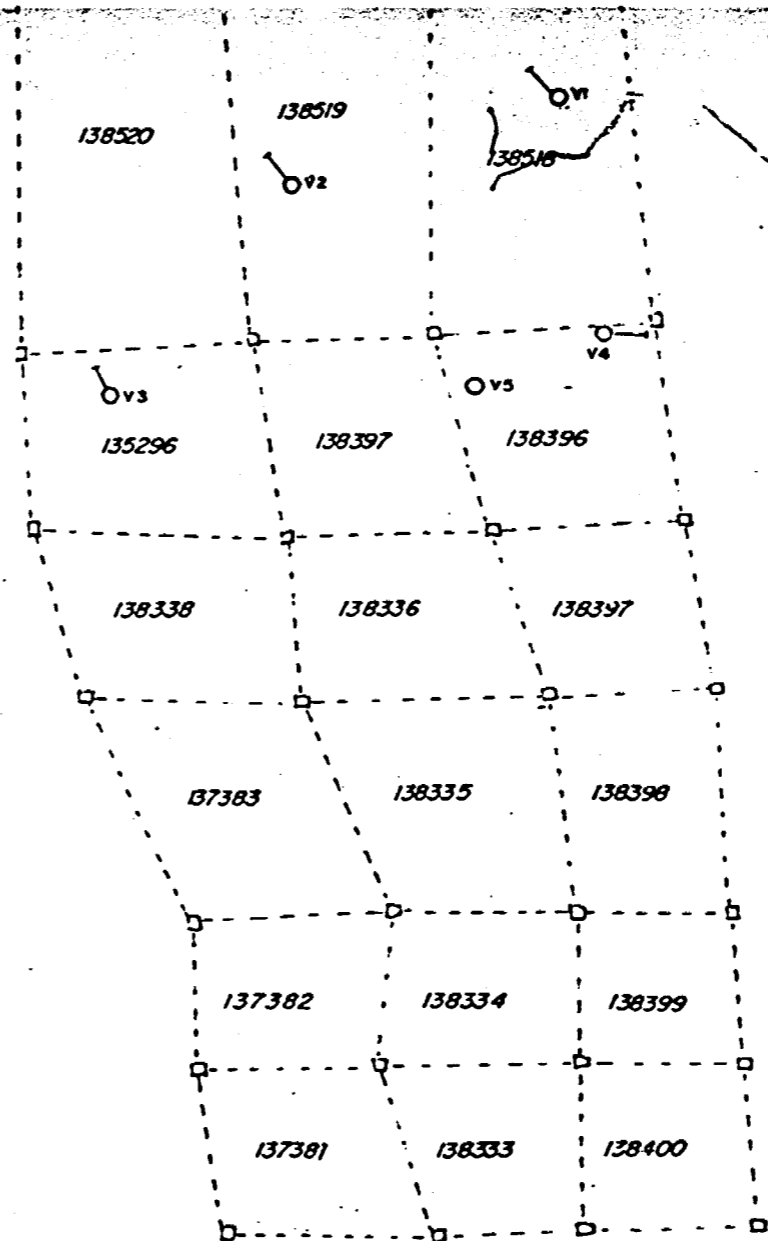
R. M. Ginn Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

138518

ATTACHED LIST

CLAIM 138518	351 days work performed 100 days applied to 138518 (D.D.H. V-1, 351 feet)
CLAIM 138519	363 days work performed 100 days applied to 138519 (D.D.H. V-2, 363 feet)
CLAIM 135296	398 days work performed 100 days applied to 135296 (D.D.H. V-3, 398 feet)
CLAIM 138396	707 days work performed 100 days applied to 138396 (D.D.H. V-4, V-5, 707 feet)



LEGEND

TEXAS

VERN