



52G15NW0089 52G15NW0016A1 SIXMILE LAKE

010

Diamond Drilling

Area of SIXMILE LAKE

Report NO 11

Work performed by: W.G. Wahl Limited

Claim NO	Hole NO	Footage	Date	Note
Pa 41564	69-1	671.0'	Aug/69	
	69-2	1702.0'	Aug/69	
Pa 45968	69-3	376.0'	Sept/69	
	69-4	992.0'	Oct/69	
Pa 45967	242-22	754.0'	Sept/70	
	<u>242-23</u>	<u>701.0'</u>	Sept/70	
TOTAL	6 DH	5196 FT		

Notes:

STURGEON LAKE

Diamond Drill Hole No. 69-1

Location See Sketch Dip 40° Bearing 90°

Length 671 Elevation: Top _____ Bottom _____

Core Size AXT Date: Started Aug. 9. 1969 Finished Aug. 22 1969

Logged by W. J. Wall

From	To	Remarks
0	10	Casing
10	30	Rounded to angular fragments in fine-grained green matrix (<u>Trachyandesitic Agglomeratic Tuff</u>). Grains and blobs of pyrite, magnetite and quartz veinlets.
30	55	Acidic fragments in fine grained pink and green ground mass <u>Trachyte Agglomeratic Tuff</u> . Blobs of pyrite to 1/2" Non magnetic.
55	100	Acidic and intermediate, rounded to angular fragments (up to 2") in fine grained, green matrix. <u>Trachyandesitic Agglomeratic Tuff</u> . Magnetic. Dolomitic veinlets to 1/4"
100	135	<u>Trachyte Agglomeratic Tuff</u> Specular hematite as fine grains and as thin seams.
135	150	<u>Trachyandesitic, Agglomeratic Tuff</u>
150	205	<u>Trachyte Agglomeratic Tuff</u> - grains of fluorite at 156-158 & 195 -
205	538	<u>Trachyandesitic Agglomeratic Tuff</u> - blobs of pyrite to 1 1/4" - Magnetite - Calcite as stringers and as cement - Sulphides and calcite increasing with depth - Grains of Chalcopyrite 219 360, 370 - Fluorite grains at 390, 410, 415, 445 Rock appears brecciate in zones.

Wall

From	To	Remarks
538	671	<p>Alternate bands of pink <u>Trachyte</u> and <u>Trachyandesetic Agglomerate Tuff</u> with Trachyte zones at 538-551, 567-578, 581.5-584 610-615 and 625-648. The trachyte zones may be cone sheets and are pink, fine grained uniform, and contain a low tenor of Ferromagnesium minerals and a relatively high tenor of calcite and the odd speck of Fluorite and Pyrite</p> <p>1/4" seams of specular hematite occur along fractures.</p> <p>The Trachyandesite Agglomerate contains both acid and intermediate fragments in a fine grained dark green matrix. Many 1/8" calcite veinlets with random orientation cut this rock. Fragments of pyrite or pyrite replacement of fragments to 1 1/2 inch.</p>
671		<p>Hole abandoned because of caving. The casing has been left in the hole.</p>

W. W. W.

Diamond Drill Hole No. 69-2

Location See Sketch Dip 0°-40° Bearing 90° (approx.)
500'-38° 1250'-32°
750'-38° 1500'-30°
1000'-35° 1750'-30°

Length 1702 Elevation: Top _____ Bottom _____

Core Size AXT Date: Started Aug. 25/69 Finished Sept. 25/69

Logged by W. G. Wahl Reamed and cased to 485'

From	To	Remarks
0	10	Casing
10	116.5	<u>Trachy Andesitic, Agglomeratic Tuff</u> Specs and patches of pyrite throughout, Chalcopyrite at 23-25, 30, 31, 81.5-87.6 in calcite veinlets. Specular hematite grains and veinlets especially between 102 and 116.5'. Much calcite as fracture filling and blobs.
116.5	123.0	(6.5') <u>Trachyte flow</u> pink, uniform, fine grained, with fluorite, pyrite, and specs of chalcopyrite. Sampled at 602 carry .24% fluorine and .07 total rare earths.
123	124	Calcite veinlet
124	144	<u>Trachy Andesitic Agglomerate Tuff</u> Fluoroite at 140.5' caving at 133'.
144	196	<u>Trachyte Agglomerate Tuff</u> Pink andesitic fragments. 1/4 specularite seams. 150-175 up to 3% pyrite and 10% hematite.
196	205	<u>Trachyte Flow-dyke?</u> Buff fine uniformed grained much specularite in filigree of veinlets. Some pyrite.
205	213	<u>Trachyte Agglomerate</u> Mauve in colour
213	223	<u>Trachyte</u> very fine grained waxy, red.
223	237	<u>Trachyte Agglomerate.</u>

W. G. Wahl

From	To	Remarks REMARKS
237	267	<u>Trachyte</u> red very fine uniform grained. 30-50% calcite between 253-265. Specs of fluorite and chalcopyrite between 237-250. Much sericite alteration.
267	298	<u>Trachyte Agglomeratic Tuff.</u>
298	305	<u>Trachyte.</u> Buff 300-305 Specs of Chalcopyrite.
305	737	<u>Trachyte Andesitic Agglomeratic Tuff.</u> Pyrite blobs to 3/4 x 1 1/2" and secondary around fragments. Specularite and much calcite. Chalcopyrite at 367, 470-475, 600-625, 693, 694 and 699 in calcite veinlets. Fluorite grains between 643-665 in calcite veinlets. Mostly Tuff between 372-392 Acid Sections 378-379, 385-386 401-407, 433-434, 438-439, 463-474, and 599-601. Tuff between 645-650. Pre-dominantly tuff after 650. Pyrite decreases at 370 to less than 1/2%.
737	842	<u>Brecciated Andesitic Agglomerate Tuff.</u> Much epidote alteration.
842	849	<u>Trachyte</u> dyke red brown, medium grained, broken.
849	873	<u>Andesitic Breccia</u> , mixed, flows fractured or squeezed.
873	882.5	<u>Trachyte</u> dyke-contact alteration 4" at 873 and 12" beyond 882.5'. Contact undulating.
882.5	893	Mixed <u>andesitic</u> breccia.
893	915	<u>Contact alteration zone</u> Was brecciated Andesitic Agglomerate.

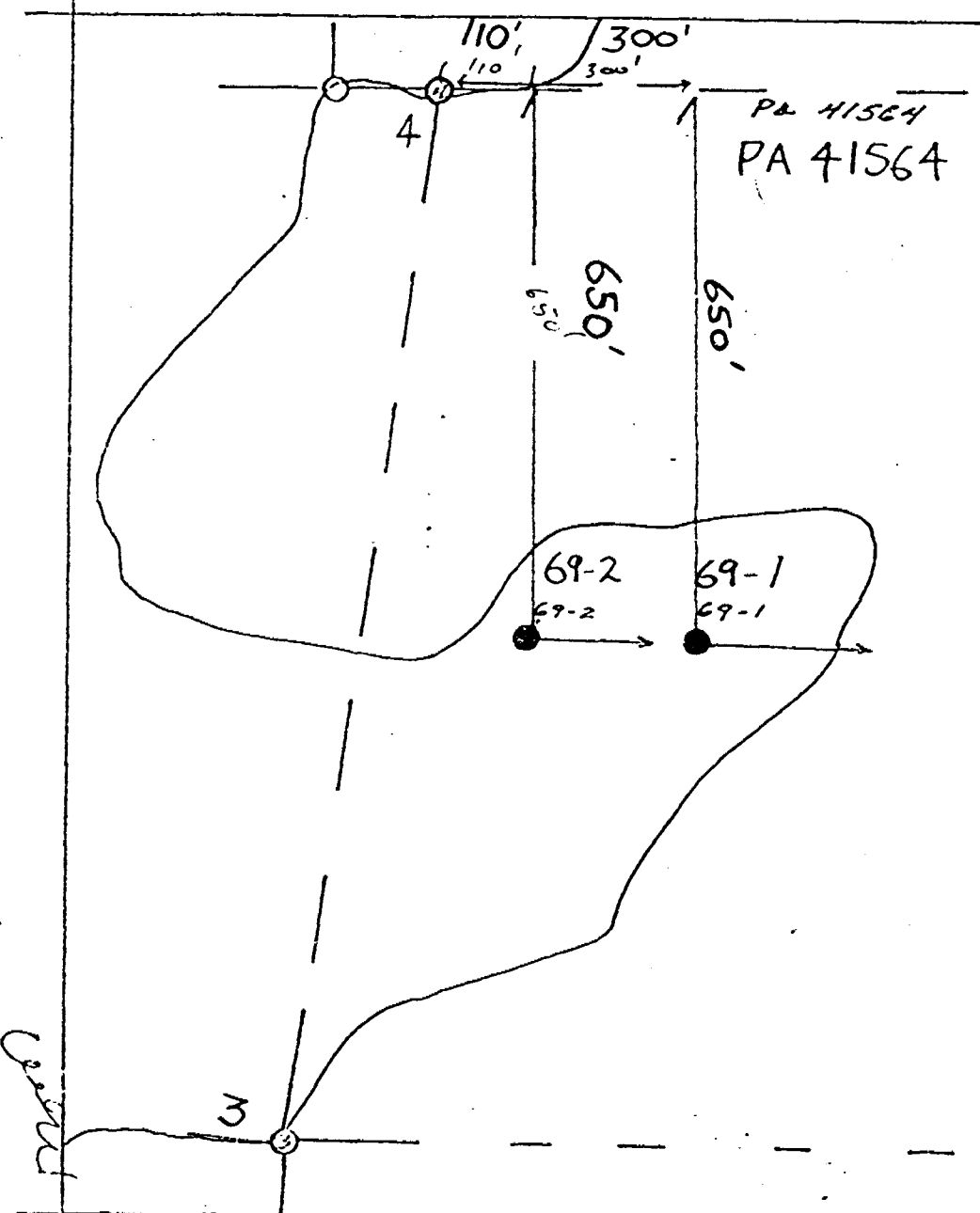
(W)

From	To	Remarks
915	965	Granular, medium, uniformed, grained No quartz - Red brown in colour, with white No feldspars and minor dark green amphibole. <u>Monzonite</u> Greyish 924-935 and 947-965.
965	992	<u>Trachyte</u> fine grained
992	1003	<u>Schist</u> Trychyte to 997.5' Andesitic to 1003. Schistosity 50 degrees to core.
1003	1216.5	<u>Brecciated Andesitic Tuff</u> very fine grained, pale green chlorite schistose in part at 50 degrees to core. Acid dyke 1089-1092 feldspar porphyry contact at 40° to core, 1123-1135 medium grained mafic rich, 1190-1196 mafic rich.
1216	1219	Very fine grained, tan colour, hard, brittle <u>Mylonite</u> zone.
1219	1275	<u>Brecciated-Schistose Trachyte</u> and <u>Trachyte Tuff</u> , fine to medium grained, light gray to pale mauve - carbonate veinlets minor pyrite schistosity 70° to core
1275	1320	<u>Brecciated Tuff</u> dark green fine grained, 1 1/2 inch blobs of replacement magnetite
1320	1351	<u>Trachyte dyke</u> - mauve porphyry, fluorite 1345 - 1351
1351	1366	<u>Brecciated Tuff</u> mineralized with pyrite, possibly an inclusion within dyke
1369	1378.5	<u>Trachyte dyke</u> red, fine grained mineralized with fluorite and pyrite as disseminated grains, veinlets and blobs
1378.5	1477	Red, medium to fine grained, low ferro-mg minerals no quartz. Larger crystals of sodic feldspars and <u>Monzonite Porphyry</u> Brecciated at contacts. Fluorite 1463 - 1469

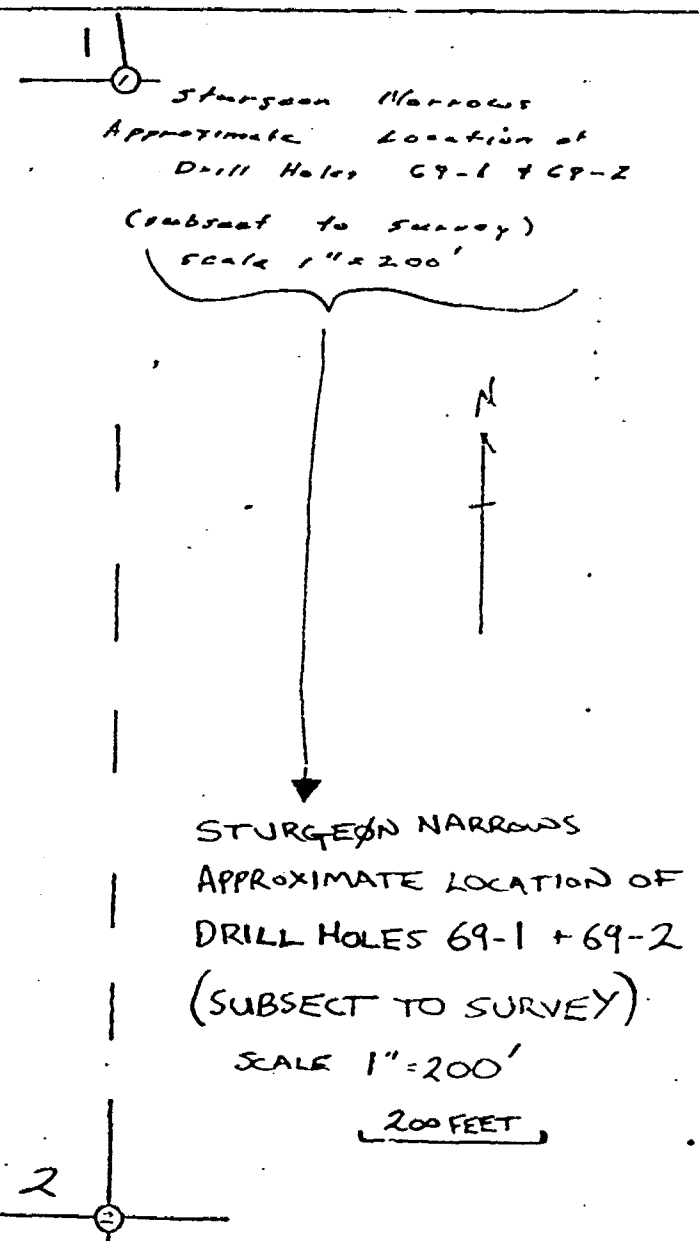
Ward

From	To	Remarks
1477	1506.5	<u>Monzonite</u> - darker matrix, feldspar crystals small and more uniform, better development of crystal shape - Fluorite at 1488.5 to 1491.3
1506.5	1531	<u>Brecciated Tuff</u> altered, magnetite as replacement, fluorite in red dyke 1514 to 1518.
1531	1605	<u>Monzonite dyke</u> fine grained, salt and pepper green and white, contact altered phase 1531 - 1579. Coarse grained 1579 - 1590. Fine grained 1590 - 1605.
1605	1702	<u>Tuff</u> , andesite mineralized, brecciated, dark green, fine grained slight pink colouration 1680 to end of hole.

WCCW



PA 41564
 PA 41564



Sturgeon Narrows
 Approximate Location of
 Drill Holes 69-1 + 69-2
 (subject to survey)
 scale 1"=200'

STURGEON NARROWS
 APPROXIMATE LOCATION OF
 DRILL HOLES 69-1 + 69-2
 (SUBJECT TO SURVEY)
 SCALE 1"=200'
 200 FEET

Diamond Drill Hole No. 69-3

Location See Sketch Dip 45° - 0 Bearing 335°
45° - 250'

Length 376' Elevation: Top _____ Bottom _____

Core Size AXT Date: Started Sept. 29/69 Finished Oct. 4/69

Logged by W. G. Wahl
W. G. Wahl

From	To	Remarks
0	54	Casing.
54'	58'	Buff coloured carbonate rock <u>Alvikite</u> up to 25% pyrite, 2% fluorite with calcite seams and fine pegmatitic orthoclase and quartz. Magnetite introduced along fractures and as disseminated grains.
58	250	Light grey fine grained dacitic brecciated <u>Tuff</u> , thin bedded and schistose, calcite as blobs and seams, disseminated and blobs of pyrite up to 2%, some 1/2 zones of disseminated magnetite, dip average 30° to core, colour zoning in 25 foot zones of light and dark grey.
250	260	Sheer and breccia zone <u>dacite Tuff</u>
260	376	Dark grey-green, medium fine grained, <u>Andesitic Tuff</u> , blobs and seams of calcite, pyrite cubes to 1/8 inch. Non magnetic-pyrite less the 0.5%

W. G. Wahl

GENERAL COMMENTS:

This drill hole collared in an Alvikite dyke carrying up to 25% pyrite and some fluorite, but encountered an ever decreasing tenor of pyrite in the remainder of the hole. The size and density of calcite veinlets decrease down the hole. No hematite alteration or chalcopyrite was observed.

The cause of the weak anomaly mapped on the ground is caused by the contrasting conductivity of the sheared section between the more acidic (dacite) and more basic (andesitic) tuffs.

No samples were collected and no radioactivity or florescence was noted. The rock intersected is in general non magnetic except for small half inch zones near the collar of the hole.

69-3, 4, 5



Diamond Drill Hole No. 69-3

Location See Sketch Dip 45° - 0 Bearing 335°
45° - 250'

Length 376' Elevation: Top _____ Bottom _____

Core Size AXT Date: Started Sept. 29/69 Finished Oct. 4/69

Logged by W. G. Wahl
W. G. Wahl

From	To	Remarks
0	54	Casing.
54'	58'	Buff coloured carbonate rock <u>Alvikite</u> up to 25% pyrite, 2% fluorite with calcite seams and fine pegmatitic orthoclase and quartz. Magnetite introduced along fractures and as disseminated grains.
58	250	Light grey fine grained dacitic brecciated <u>Tuff</u> , thin bedded and schistose, calcite as blobs and seams, disseminated and blobs of pyrite up to 2%, some 1/2 zones of disseminated magnetite, dip average 30° to core, colour zoning in 25 foot zones of light and dark grey.
250	260	Sheer and breccia zone <u>dacite Tuff</u>
260	376	Dark grey-green, medium fine grained, <u>Andesitic Tuff</u> , blobs and seams of calcite, pyrite cubes to 1/8 inch. Non magnetic-pyrite less the 0.5%

W. G. Wahl

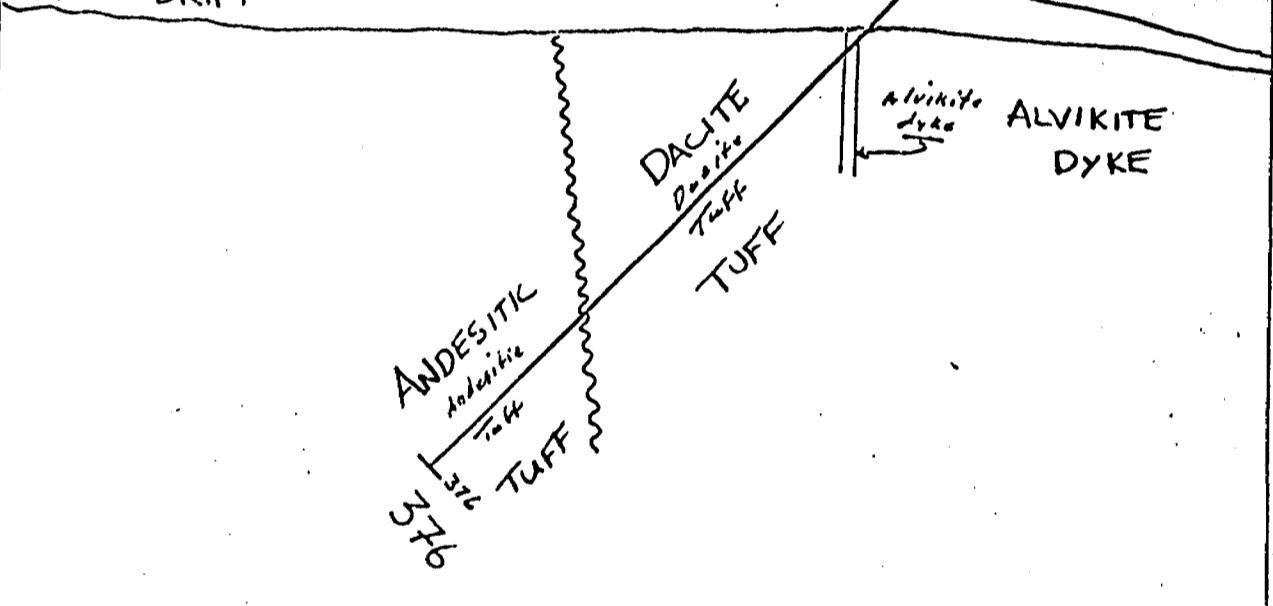
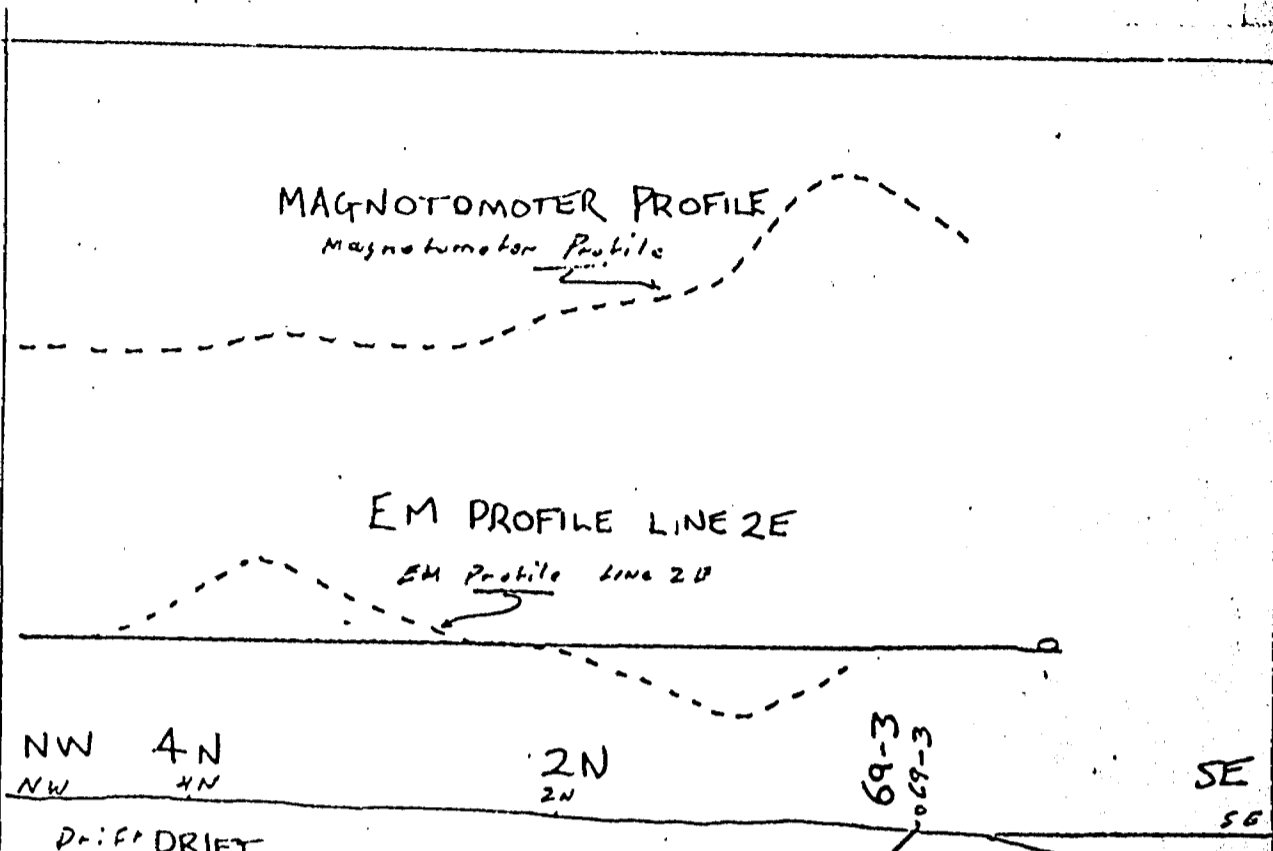
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The cause of the weak anomaly mapped on the ground is caused by the contrasting conductivity of the sheared section between the more acidic (dacite) and more basic (andesitic) tuffs.

No samples were collected and no radioactivity or florescence was noted. The rock intersected is in general non magnetic except for small half inch zones near the collar of the hole.

W. G. Ward



PROFILE HOLE 69-3
ON
SECTION 3 EAST
STURGEON NARROWS
SCALE 1" = 100'

← Profile Hole 69-3
on
section 3 East
Sturgeon Narrows
Scale 1" = 100'

100 FEET

W. J. ...

From	To	Remarks
250	263.5	Extension of horizon 185 - 227.5 scattered quartz grains. This rock may be of <u>graywacke</u> grit.
263.5	300.5	Light pink to buff, fine-uniform grained, <u>trachyte</u> dyke. Minor pyrite, few quartz stringers.
300.5	327.5	Extension of horizon 250 - 263.5 <u>Possibly a graywacke</u> grit.
327.5	335	Light gray <u>trachyte</u> dyke.
335	586.5	Gray green <u>agglomeratic</u> tuff May be in part conglomeratic as scattered grains of quartz, occur, pebbles to one inch of quartz, tuff, and acid igneous rocks, the matrix is predominantly andesitic in composition - Blobs of pyrite occur irregularly, few stringers of quartz and calcite, rock is non-magnetic.
586.5	630	Fine-uniform grained, dark gray, biotite porphyry <u>possibly diorite</u> , may be edge phase of following rock 640 - 722 - intrusive - some pyrite at 593.
630	640	<u>Agglomeratic</u> tuff pyrite as blobs
640	722	Same as 586.5 - 630 May be multiple dykes or flows as grain size alternates between fine to medium, some inclusions of tuff. Rock is non-magnetic.
722	744	Dark gray, fine grained <u>agglomeratic</u> tuff, slightly magnetic, pyrite as disseminated crystals and blobs up to 5% of rock.
744	775	<u>Diorite</u> dyke may be border phase of following rock type, brecciated with minor pyrite and calcite seams.
775	943.5	Medium, uniform grained <u>monzonite</u> gray to buff in colour, some pink sections minor pyrite - Non-magnetic.

W. G. Wahl

From	To	Remarks
943.5	992	Dark gray <u>agglomeratic tuff</u> - Pyrite up to 2%, calcite and quartz stringers, hematite 943.5 to 946.5, rock is magnetic.

W. G. Hall

From	To	Remarks			
		HOLE 69-4			
		<u>ASSAYS</u>			
<u>SAMPLE NO.</u>	<u>FOOTAGE</u>	<u>LENGTH</u>	<u>% F.</u>	<u>AU OZ/TON</u>	
612	96.5 to 100	3.5'	0.51	0.10	
613	100 to 103	3'	0.41	0.07	
614	103 to 105	2'	0.42	Trace	
4-130	130	2"		Nil	

W. G. Wood

GENERAL COMMENTS ON HOLE 69-4

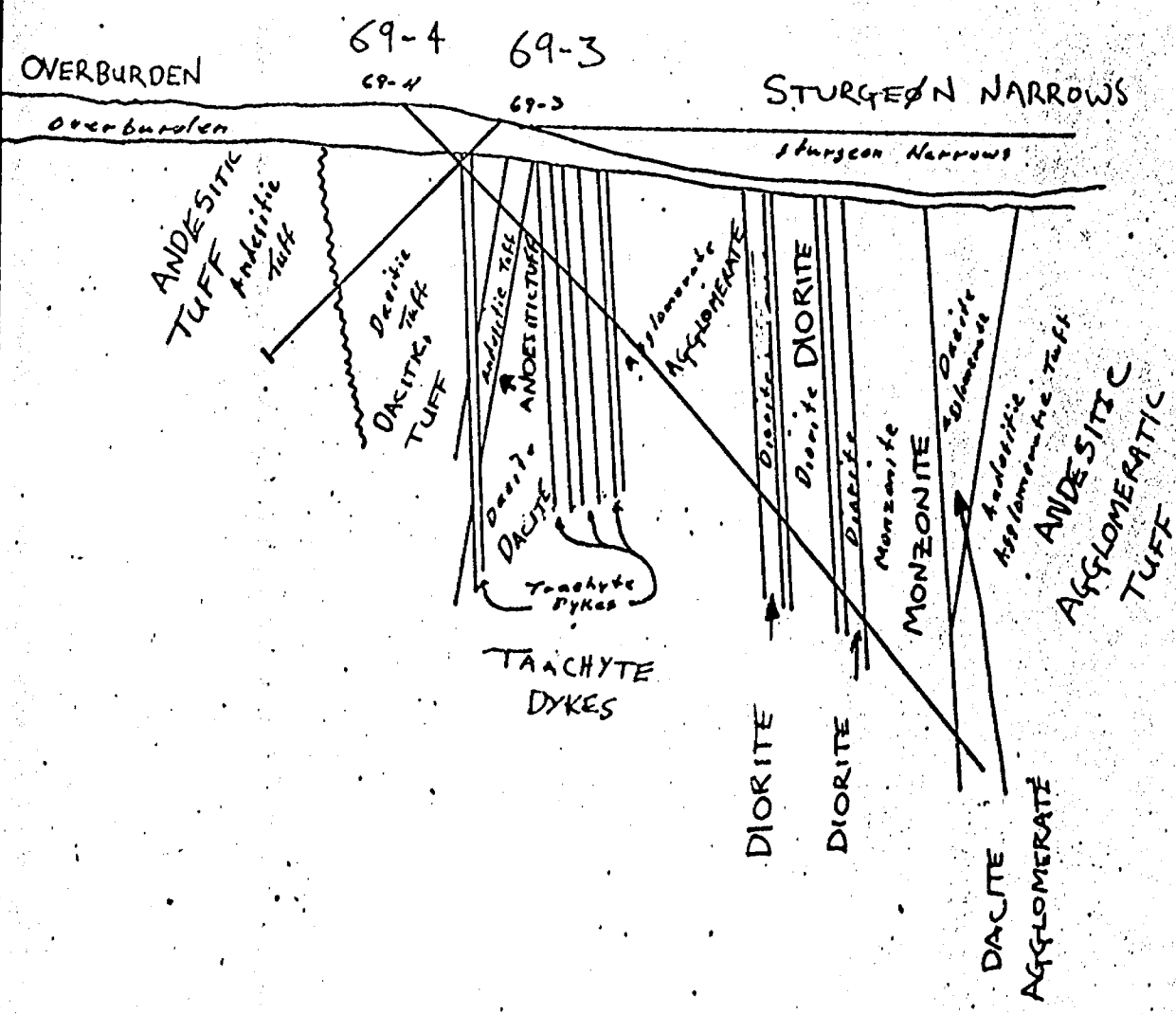
The mineralized trachyte dyke intersected between 96.5 and 105 appears to have been brecciated by faulting. This is the section intersected at the top of hole 69-3. The gold values are anomalous and would require more investigation if the price of gold was increased.

The remainder of hole had the lowest tenor of mineralization of all the holes drilled on this project. Only at depth was there significant mineralization which carries no apparent material of value.

The dykes are possibly part of the ring dyke system associated with the carbonatite diatreme.

Some of the agglomerate may be conglomerate or a graywacke grit.

W. G. Hall

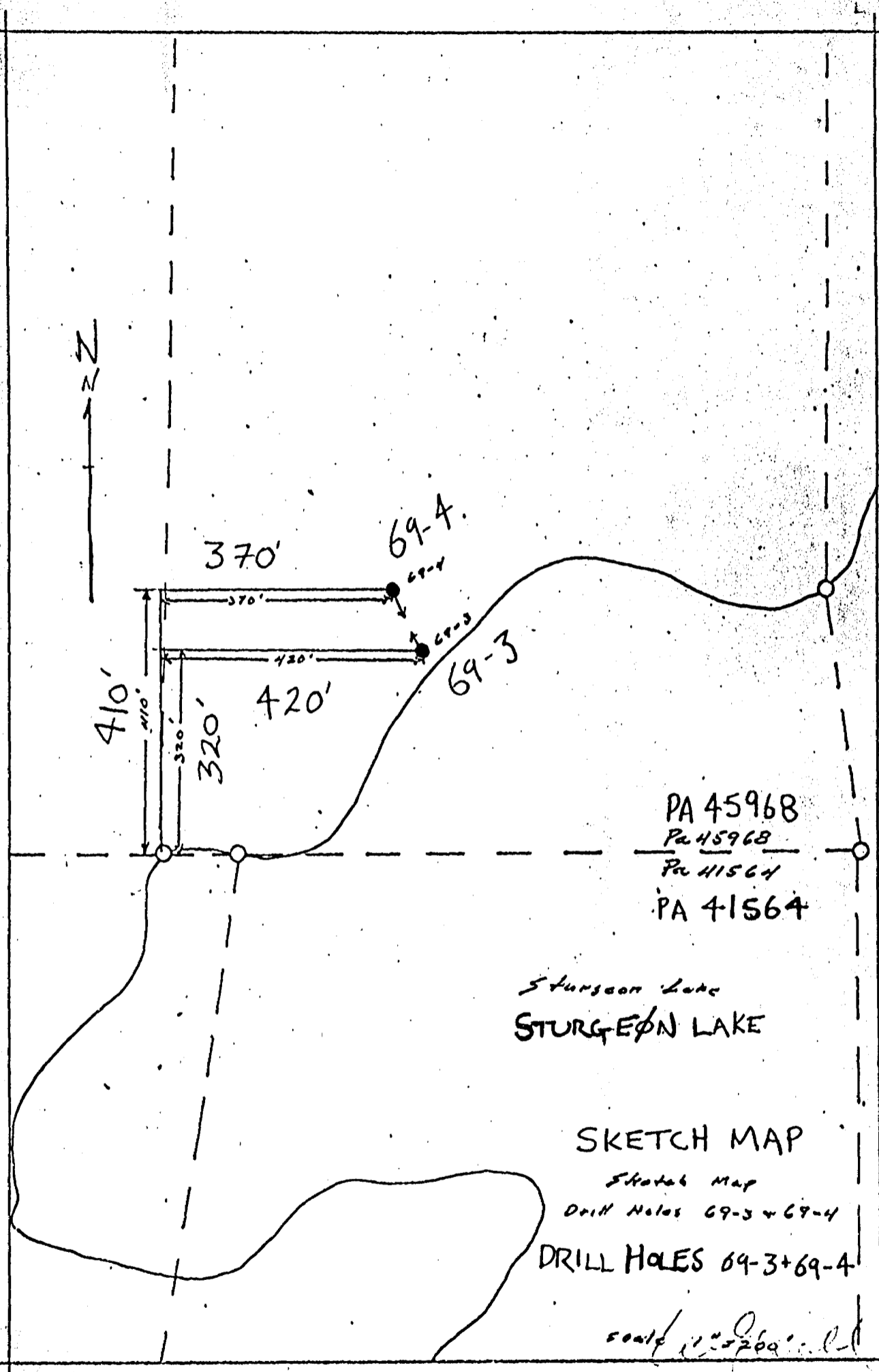


SKETCH
OF
DRILL SECTION
69-3 + 69-4
STURGEON NARROWS
SCALE 1" = 200'

200 FEET

Sketch
of
Drill Section
69-3 + 69-4
Sturgeon Narrows
scale 1" = 200'

W. G. Wood



PA 45968
~~Pa 45968~~
~~Pa 41564~~
 PA 41564

Sturgeon Lake
 STURGEON LAKE

SKETCH MAP

Sketch Map
 Drill Holes 69-3 + 69-4
 DRILL HOLES 69-3 + 69-4

Scale 1" = 200'

SCALE 1" = 200'

200 FEET

DIAMOND DRILL RECORD

HOLE NO. 242-22 ✓

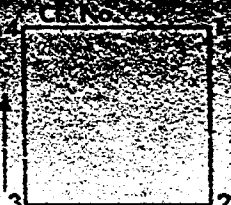
PROPERTY STURGEON NARROWS PROPERTY

SHEET NO 1

BEARING COLLAR 200' 400' 600' 720'
337°

LOCATION 2W
3+80N

DIP COLLAR 45 - 41 - 35 - 24 - 22



ELEVATION

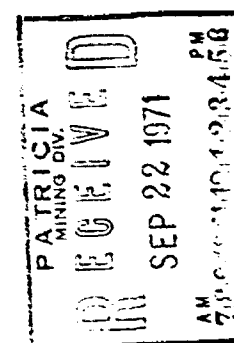
TOTAL DEPTH 754

CORE SIZE AX

STARTED Sept. 16/70

COMPLETED Sept. 17/70

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
0	35.0	CASING, boulders and sand										
35	70	ANDESITE: brecciated as in 242-23, 39.0-76.2, with core angle at 35°, some zones may have been an agglomerate or tuff but are obscured by brecciation and alteration occasional quartz, carbonate veinlets.										
70.5	78.0	PYRITE IN ANDESITE: 70.5-71.5 70% pyrite as fragments and broken frambois in fracture zones 71.5-72.0 sheared brecciated andesite 72.0-72.5 30% pyrite as above 72.5-74.0 sheared brecciated andesite 74.0-78.0 20% pyrite as above	5056	70.5	73.0	2.5	2.5					
			5057	73.0	78.0	5.0	5.0					
78.0	301.6	ANDESITE: brecciated as at 35.0-70.5, sheared tuff at 210-227 some siliceous clasts 1 x 3 cm at 27°, quartz veins at 119.7-120.7, 156.0-156.5 narrower elsewhere lost core 239.5-241.0, 253.5-254.5 265.5-266.5 268.0-269.0	5058	119.7	120.7	1.0	1.0					
301.6	641.0	INTERBEDDED GRAPHITIC TUFF, SILICEOUS TUFF AND PYRITE: Black graphitic schist with pyrite as frambois lenses or broken beds, occasional quartz eyes <1 mm visible in split core schistosity very good to poor, probably a waterlain tuff, siliceous tuff is fine grained - occasional medium grained light coloured, slightly soft,										



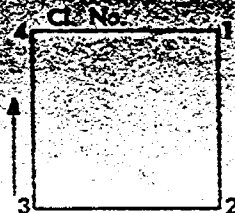
DRILLED BY

Continental

SUPERVISOR SIGNED

Paul Brown

DIAMOND DRILL RECORD



ELEVATION
TOTAL DEPTH
CORE SIZE

HOLE NO. 242-22

PROPERTY _____

SHEET NO 2

BEARING _____

LOCATION _____

DIP COLLAR _____

STARTED _____

COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		fizzes weakly, vague clasts visible, contact with graphitic tuff is often gradational but evidence of tops often contradictory, difference in core angles between bedding in siliceous tuff and cleavage of graphitic tuff may be result of soft-rock deformation or bedding in the graphitic tuff may have been at angle to cleavage, two medium grained-course grained tuffs are distinguished from the other tuffs by clast size and lack of contortions. Pyrite present in graphitic tuff, finely disseminated in siliceous tuff 1% and as massive tightly packed beds of framboidal pyrite, sphalerite present in traces only.										
		301.6-329.3 graphitic tuff with 1% pyrite interbedded with 10% siliceous tuff lost core										
		307.0-308' 311'-312' 314'-315', 318'-319', 322'-323', 327'-328'										
		329.3-332.6 90% pyrite mostly framboidal 10% carbonate	5059	329.3	332.6	3.3	3.3					
		332.6-342.5 graphitic tuff 1-5% pyrite framboidal										
		342-5-344 40% graphitic tuff 40% pyrite 20% carbonate quartz	5060	342.5	347	4.5	4.5					
		344-345 siliceous tuff										
		345-347 90% pyrite, frambois set in massive pyrite, two generations?										
		347-348.8 siliceous tuff 30% pyrite, beds and frambois to 347.8										
		348.8-349.7 interbedded 30% graphitic tuff 60% siliceous tuff 10% pyrite										
		349.7-358 fine grained siliceous tuff with graphitic laminae, core angle 6° - 20°.										

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

HOLE NO. 242-22

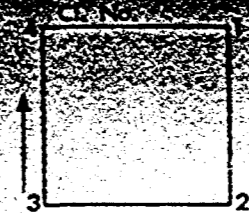
PROPERTY _____

SHEET NO 3

BEARING _____

LOCATION _____

DIP COLLAR _____



ELEVATION _____

TOTAL DEPTH _____

CORE SIZE _____

STARTED _____

COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		358-366.5 graphitic tuff, 15% pyrite framboidal lost core 362-363, 364.3-365, 365.5-366.5, 366.5-368.2, as at 349.7-358. 368.2-374.2 graphitic tuff 10% pyrite, beds and framboids 374.2-376.6 siliceous tuff with graphitic beds lost core 372.3-373 376.6-377.5 graphitic tuff 15% framboidal pyrite 377.5-378.6 as at 374.2-376.6 378.6-381.4 graphitic tuff 10% pyrite framboidal and broken beds, lost core 380.4-381 381.4-383.4 as at 374.2-376.6 383.4-385.6 graphitic tuff 20% framboidal pyrite core angle of cleavage 45° 385.6-388 siliceous tuff 10% framboidal and bedded pyrite. 388-389.5 graphitic tuff 5% framboidal pyrite 389.5-391.3 siliceous tuff 391.3-394 graphitic tuff 5% framboidal and bedded pyrite 394-395.2 fine grained siliceous tuff, contorted 395.2-400 graphitic tuff 5% framboidal pyrite 400-405 medium grained-course grained siliceous tuff, clasts to 5mm 405-409.2 graphitic tuff 5% pyrite framboidal and bedded 409.2-411.2 siliceous tuff grading to graphitic tuff 411.2-429.5 graphitic tuff, 10% pyrite fram- boidal and bedded, contorted 45° - 80° lost core 419-420, 423.9-425, 427.2-428.	5061	411.2	416	4.8	4.8					

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD

HOLE NO. 242-22

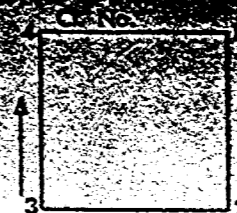
PROPERTY _____

SHEET NO 4.

BEARING _____

LOCATION _____

DIP COLLAR _____



ELEVATION _____

TOTAL DEPTH _____

CORE SIZE _____

STARTED _____

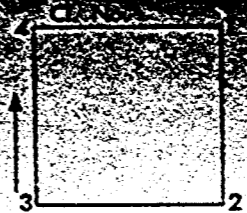
COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		429.5-433 siliceous with some graphite										
		433-437.2 graphitic tuff, 5% pyrite framboidal										
		437.2-445 siliceous tuff, contorted										
		445-447.3 graphitic tuff, 5% pyrite framboidal and bedded										
		447.3-450 siliceous tuff, 1 mm clasts										
		450-454.7 graphitic tuff 1-5% pyrite framboidal, 1 mm-3cm, core angle 55°	5062	450	454.7	4.7	4.7					
		454.7-456.8 siliceous tuff										
		456.8-459.2 graphitic tuff, 1-5% pyrite framboidal and bedded										
		459.2-463.2 siliceous tuff at 45°										
		463.2-472.4 graphitic tuff grading into siliceous tuff 1% pyrite framboidal and bedded										
		472.4-492.4 siliceous tuff interbedded with graphitic beds and 1% framboidal pyrite lower 5 feet										
		492.4-496.2 graphitic tuff, 5% framboidal and bedded pyrite										
		496.2-506.8 siliceous tuff, clasts to 1 cm, 1% pyrite clasts										
		506.8-528.3 graphitic tuff, up to 20% pyrite mainly framboidal to 3 cm.	5063	515	520	5	5					
		528.3-531.9 siliceous tuff										
		531.9-534.1 interbedded graphitic tuff and beds of framboidal pyrite.										
		534.1-550 graphitic tuff with 10% framboidal pyrite	5064	544	549	5	5					
		550-583.3 graphitic tuff, beds to <1cm contorted, occasional pyrite framboidal to 3cm										
		583.3-587 siliceous tuff, grey arborescent forms										

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD



HOLE NO. 242-22

PROPERTY _____

SHEET NO 5

BEARING _____

LOCATION _____

DIP COLLAR _____

ELEVATION _____

TOTAL DEPTH _____

CORE SIZE _____

STARTED _____

COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		587-595.4 graphitic tuff, 10% pyrite framboidal and bedded	5065	590	595	5	5					
		595.4-602.7 siliceous tuff with occasional 1-2cm graphitic beds at 45°										
		602.7-612.3 graphitic tuff 10% pyrite, framboidal and contorted beds										
		612.3-613.9 graphitic siliceous tuff 5% pyrite as broken frambois										
		613.9-615 graphitic tuff with 30% pyrite broken frambois and beds										
		615-617 siliceous tuff										
		617-617.5 graphitic tuff 1% pyrite framboidal										
		617.5-623.9 siliceous tuff	5066	623.9	627	3.1	3.1					
		623.9-632 70% pyrite in framboidal beds with graphitic tuff at 65°	5067	627	632	5	5					
		632 -642 bonded siliceous tuff										
642	754	DACITE: fine-grained-medium grained, light-medium green hard some amygdules present, may be more acid than dacite, possible rhyodacite, some sections more siliceous than others.										

DRILLED BY _____

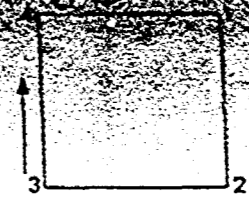
SIGNED _____

DIAMOND DRILL RECORD

HOLE NO. 242-23
 SHEET NO 1 of 5
 LOCATIC N 2+00 W 4+00 N

PROPERTY STURGEON LAKE - STURGEON NARROWS PROP.

BEARING 157°
 DIP COLLAR -45°
 200 39½°



ELEVATION --
 TOTAL DEPTH 701.0
 CORE SIZE AX

STARTED Sept. 18/70 COMPLETED Sept. 25/70

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
0.0	39.0	Casing, boulders and sand.										
39.0	76.2	Andesite, brecciated fine grained, green-grey, soft angular fragments up to 1 ft., brecciation secondary as fragments often fit together, matrix is dark carbonaceous material with pyrite disseminated as small cubes or framboids, some carbonate veins and blebs, possibly amygdules up to 7 mm some sections may have been agglomerates or tuffs but have been obscured by brecciation, alteration and shearing at 75°-90° possible sphalerite with pyrite.										
76.2	79.4	As above with more pyrite. <u>76.2-77.5</u> - 30% pyrite in frambois to 2 cm generally fractured. <u>77.5-78.2</u> - 30% pyrite frambois packed together 5% carbonate, traces sphalerite. <u>78.2-78.5</u> - 10% pyrite in soft talcy green rocks. <u>78.5-79.4</u> - 60% pyrite as before.	5032	76.2	81.0	4.8	4.8					
79.4	81.8	Massive Pyrite. 95% pyrite, traces sphalerite, traces red soft mineral, probably iron oxide, spots and veinlets, some carbonate and quartz pyrite slightly vuggy.										
81.8	86.1	Pyrite in Gouge. 40% pyrite in very soft chloritic material like gouge, 1% red mineral, sheaved at 50°-60°.	5033	81.0	86.0	5.0	5.0					

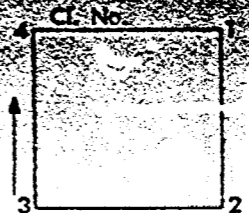
PATRICIA
 MINING DIV.
 RECEIVED
 SEP 22 1971
 AM 10:43:45B

DRILLED BY CONTINENTAL

SUPERVISOR
 SIGNED

Sam L. Davis

SELCO EXPLORATION COMPANY LIMITED
DIAMOND DRILL RECORD



HOLE NO.
 SHEET NO 2 of 5
 LOCATION

PROPERTY _____

BEARING _____
 DIP COLLAR _____

ELEVATION _____
 TOTAL DEPTH _____
 CORE SIZE _____

STARTED _____

COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
83.1	142.5	Andesite Breccia with Pyrite 10-20% pyrite as irregular fragments and frambois in large fractures in andesite.	5034	86.0	91.0	5.0	5.0					
			5035	111.0	116.0	5.0	5.0					
			5036	127.0	131.0	5.0	5.0					
142.5	219.3	As above with only rare pyrite, more dark matrix slightly more carbonate veinlets, core angle of breccia roughly at 70°. 217.9-219.3 - 5% graphitic bands 10-20% pyrite at 70° lost core 175.5-180.0.	5037	217.9	222.5	4.6	4.6					
219.3	232.6	Interbedded fine Graphitic Tuff, siliceous Tuff and Pyrite. 219.3-221.7 - fine grained graphitic tuff with 5-10% pyrite, carbonate and quartz veinlets, pyrite occasional as lenses with carbonate at ends. 221.7-222.5 - fine grained-medium grained tuff, grey, scratchable, fizzes slightly, occasional irregular graphitic beds. 222.5-225.0 - massive pyrite 70% pyrite as frambois in graphitic matrix at 222.5 and 225.0 grading to massive in center, cut by 10% carbonate veinlets. 225.0-228.2 - fine grained graphitic tuff as above with 20% pyrite, some broken beds of pyrite and frambois stretched to lense shape, core angle 55°-90°. 228.2-229.0 - massive pyrite 80% as frambois in graphitic matrix. 229.0-229.8 - 20% pyrite in graphitic matrix. 229.8-231.4 - Andesite, slightly breccia. 231.4-232.6 - 50% pyrite 40% graphitic material 10% carbonate at 500.	5038	222.5	225.0	2.5	2.5					
			5039	225.0	229.8	4.8	4.8					
			5040	229.8	234.8	5.0	5.0					

DRILLED BY _____

SIGNED _____

SELCO EXPLORATION COMPANY LIMITED
DIAMOND DRILL RECORD

HOLE NO. _____

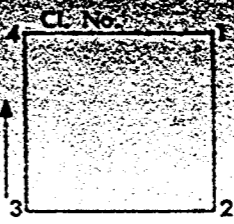
PROPERTY _____

SHEET NO 3 of 5

BEARING _____

LOCATION _____

DIP COLLAR _____



ELEVATION _____

TOTAL DEPTH _____

CORE SIZE _____

STARTED _____

COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
232.6	286.6	Andesite, brecciated. 10% pyrite with black fracture filling. 269.0-275.5 - graphitic tuff and pyrite zone 20% pyrite. 280.0-286.6 - as above 20% pyrite. Last core 259.0-266.0	5041	270.0	275.0	5.0	5.0					
			5042	275.0	280.0	5.0	5.0					
			5043	280.0	285.0	5.0	5.0					
			5044	285.0	289.0	4.0	4.0					
286.6	315.0	Andesite - Dacite. As above grading into more siliceous rock possibly dacite or rhyodacite grading from bright green to grey with buff alteration around breccia fragments, possibly a more siliceous flow breccia, some quartz and carbonate veinlets and patches 1-5% fluorite disseminated 289°-294°.	5045	289.0	294.0	5.0	5.0					
			5046	294.0	299.0	5.0	5.0					
			5047	299.0	302.5	3.5	3.5					
315.0	316.7	As above with 30% Fluorite. Patchy purple fluorite trace pyrite in buff altered possible intermediate acid volcanic.	5048	315.0	316.7	1.7	1.7					
316.7	322.2	As at 286.6-315.0. 316.7-320.9 - quartz and carbonate veinlets 1% fluorite, 320.9-322.2 last core.	5049	316.7	320.9	4.2	4.2					
322.2	433.6	Tuff Breccia with Sulphides. Poorly sorted, 1 mm-2 cm, subrounded to angular, more commonly angular intermediate to siliceous fragments, average 20% pyrite pyrrhotite, pyrite as frambois and cubes often broken, cubes to <1mm pyrrhotite as angular clasts occasional quartz fragments, core angle 60°.	5050	322.2	327.2	5.0	5.0					
			5051	328.0	373.0	5.0	5.0					
			5052	423.6	433.6	5.0	5.0					

DRILLED BY _____

SIGNED _____

SELCO EXPLORATION COMPANY LIMITED
DIAMOND DRILL RECORD

HOLE NO. _____

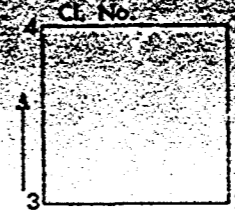
PROPERTY _____

SHEET NO 4 of 5

BEARING _____

LOCATION _____

DIP COLLAR _____



ELEVATION _____

TOTAL DEPTH _____

CORE SIZE _____

STARTED _____

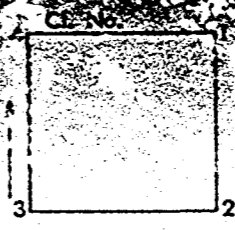
COMPLETED _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		383.0-383.5 - core angle 25°, possible pile slumping. 327.6-330.0 - as at 316.7-322.2. Last core 308.5-309.0, 349.0-349.5, 379.0-381.0.										
3.6	483.0	Rhyolite. Greenish grey-buff waxy yellow with occasional grey 1 mm quartz eyes and light clasts, hard, massive irregular lower contact.										
3.0	535.4	Agglomerate. Subrounded - well rounded grey green and white fragments poorly sorted 1 mm-5 cm, fragments acid-intermediate 1-10% pyrite, rare pyrrhotite possible hybrid origin? Dark intermediate or basic porphyry as below 499.0-501.0. Last core 534.5-535.4.	5053	520.0	525.0							
3.4	580.0	Intermediate - Basic Porphyry. Dark grey with light grey 1 mm - 5 mm phenocrysts often aligned may be porphyritic flow. Last core 575.5-576.0.										
3.0	655.5	Intermediate Tuff Breccia. Both dark and light subrounded-angular mostly angular fragments 1 mm - 3 cm medium green overall colour, 1-10% pyrite, often framboidal, looks like Onaping tuff, last core 647.0-648.0.	5054	580.0	585.0	5.0	5.0					
3.5	696.0	Syenite. Pink-grey, generally medium grained, various textures, numerous quartz veinlets.										

DRILLED BY _____

SIGNED _____

DIAMOND DRILL RECORD



HOLE NO.

PROPERTY _____

ELEVATION _____

SHEET NO 5 of 5

BEARING _____

TOTAL DEPTH _____

LOCATION _____

DIP COLLAR _____

CORE SIZE _____

STARTED _____

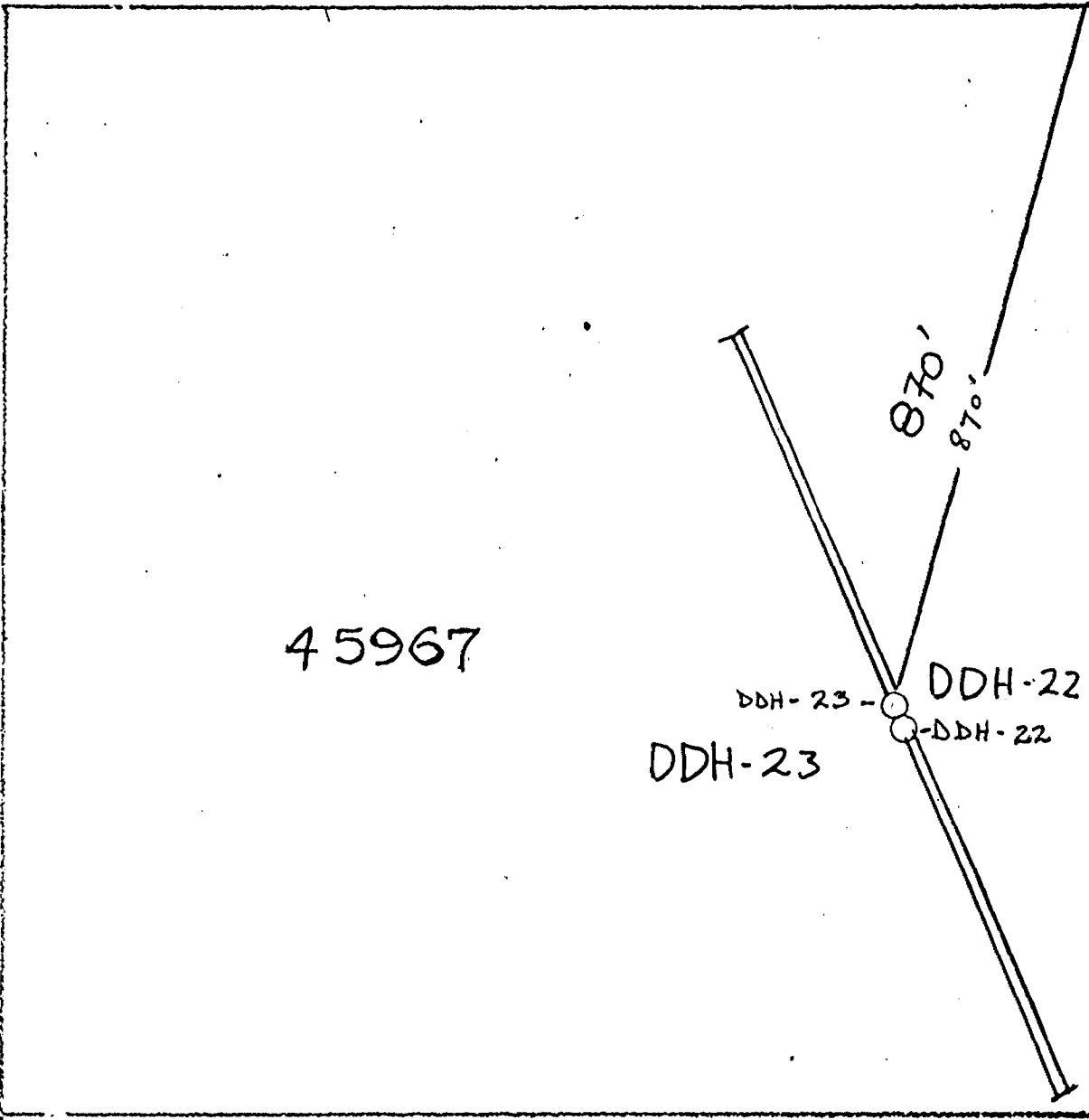
COMPLETED _____

DM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	CORE LENGTH	CORE RECOVERED	ASSAYS				REMARKS
		<u>666.0-667.5</u> - intermediate tuff as above.										
701.0	701.0	Intermediate Tuff Breccia. As above.										
701.0	701.0	END of HOLE	5055									

DRILLED BY _____

SIGNED _____

4
4



45967

DDH-23 - DDH-22
DDH-23 - DDH-22

TRICIA
MINING DIV.
RECEIVED
SEP 22 1971
AM
7:09 AM '71 12:34.58



1" = 200 FEET
200 FEET

STURGEON NARROWS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO

445-5755

Certificate of Analysis

NO. 3919

TO. W. G. Wahl Limited,
302 Bay Street, Suite 1101,
TORONTO, 1, Ontario.

RECEIVED November 11, 1969

INVOICE NO. 5017

SAMPLE(S) OF S. Core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration			Element	Sens*	Concentration		
		5-95	180	5-215			5-95	5-180	5-215
Antimony	(4) ND	ND	ND	Manganese	(1) TL	TL	T		
Arsenic	(4) ND	ND	ND	Mercury	(4) ND	ND	ND		
Beryllium	(2) ND	ND	ND	Molybdenum	(3) ND	ND	ND		
Bismuth	(2) ND	ND	ND	Nickel	(1) FT	ND	ND		
Cadmium	(4) ND	ND	ND	Silver	(1) ND	ND	ND		
Cerium	(5) ND	ND	ND	Tantalum	(5) ND	ND	ND		
Columbium	(4) ND	ND	ND	Thorium	(3) ND	ND	ND		
Chromium	(4) T	ND	ND	Tin	(2) ND	ND	ND		
Cobalt	(3) ND	ND	ND	Titanium	(2) TL	TL	TL		
Copper	(1) FT	FT	FT	Tungsten	(4) ND	ND	ND		
Gallium	(2) ND	ND	ND	Uranium	(3) ND	ND	ND		
Germanium	(1) ND	ND	ND	Vanadium	(2) FT	FT	FT		
Iron	(2) M	M	M	Yttrium	(3) ND	ND	ND		
Lead	(2) ND	ND	ND	Zinc	(4) T	T	T		
Lithium	(4) ND	ND	ND	Zirconium	(4) TL	TL	TL		

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity (limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE November 12, 1969

CERTIFIED BY

ANALYSTS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

E. B. Wahl
W. G. Wahl

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO

445-5755

Certificate of Analysis

NO. 4023

TO: W. G. Wahl Limited,
302 Bay Street, Suite 1101,
TORONTO, Ontario.

RECEIVED December 1, 1969

INVOICE NO. 5114

SAMPLE(S) OF 3 S. Core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens*	Concentration			Element	Sens*	Concentration		
		5-115	5-275	5-480			5-115	5-275	5-480
Antimony	(4) ND	ND	ND	ND	Manganese	(1) L	TL	TL	
Arsenic	(4) ND	ND	ND	ND	Mercury	(4) ND	ND	ND	
Beryllium	(2) FT	ND	ND	ND	Molybdenum	(3) ND	ND	ND	
Bismuth	(2) ND	ND	ND	ND	Nickel	(1) FT	FT	FT	
Cadmium	(4) ND	ND	ND	ND	Silver	(1) FT	ND	ND	
Cerium	(5) L	ND	ND	ND	Tantalum	(5) ND	ND	ND	
Columbium	(4) ND	ND	ND	ND	Thorium	(3) ND	ND	ND	
Chromium	(4) ND	ND	ND	ND	Tin	(2) ND	ND	ND	
Cobalt	(3) ND	ND	ND	ND	Titanium	(2) T	TL	TL	
Copper	(1) FT	FT	FT	FT	Tungsten	(4) ND	ND	ND	
Gallium	(2) ND	ND	ND	ND	Uranium	(3) ND	ND	ND	
Germanium	(1) ND	ND	ND	ND	Vanadium	(2) FT	FT	FT	
Iron	(2) M	LM	LM	LM	Yttrium	(3) ND	ND	ND	
Lead	(2) T	ND	T	T	Zinc	(4) TT	T	T	
Lithium	(4) ND	ND	ND	ND	Zirconium	(4) T	FT	FT	

LEGEND

Key To Symbols

H - 10% plus
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% or less
ND - Not detected

*Sensitivity

(limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

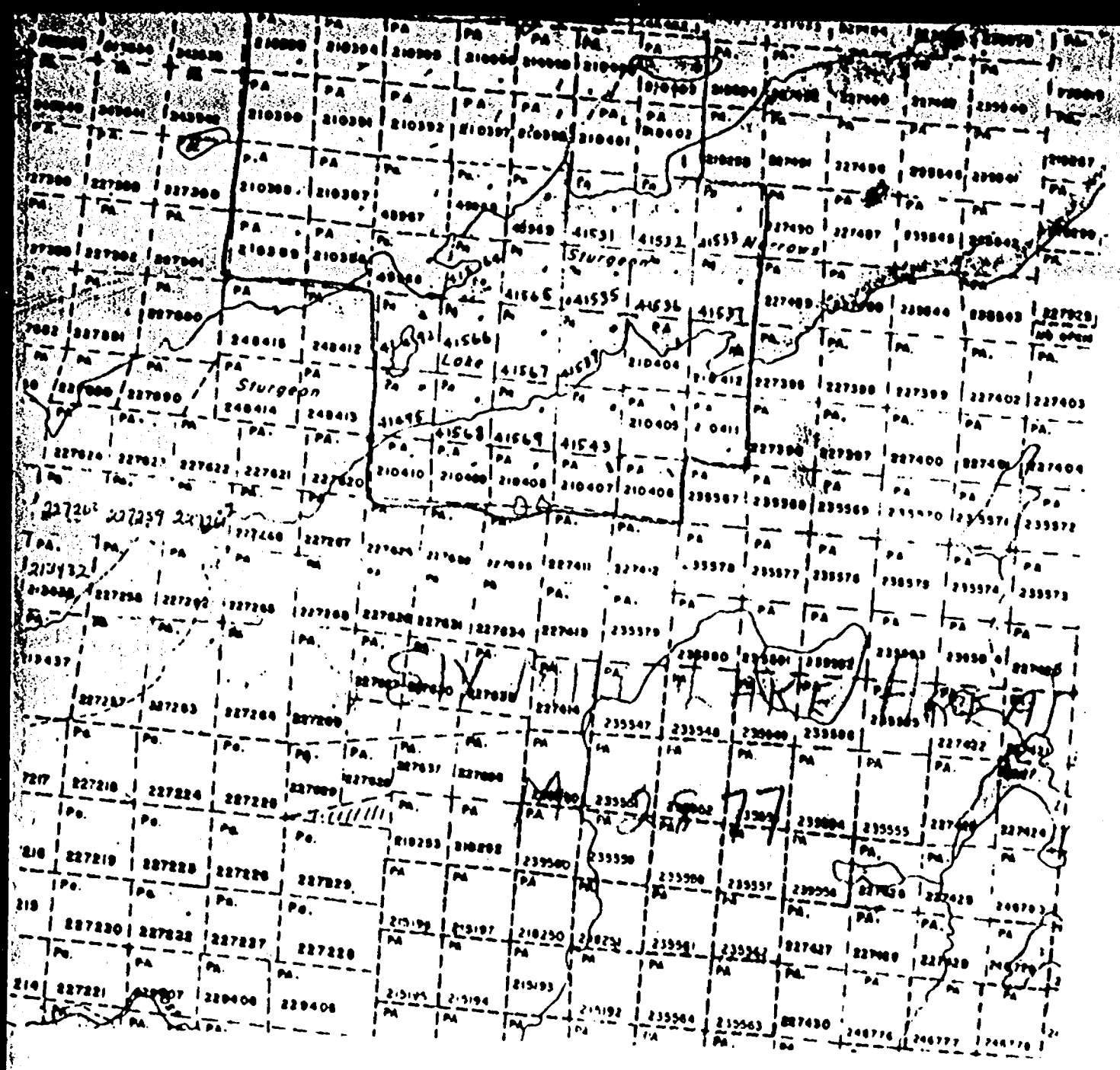
Note: Better sensitivities can be obtained with special techniques, if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE December 4, 1969

CERTIFIED BY

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS



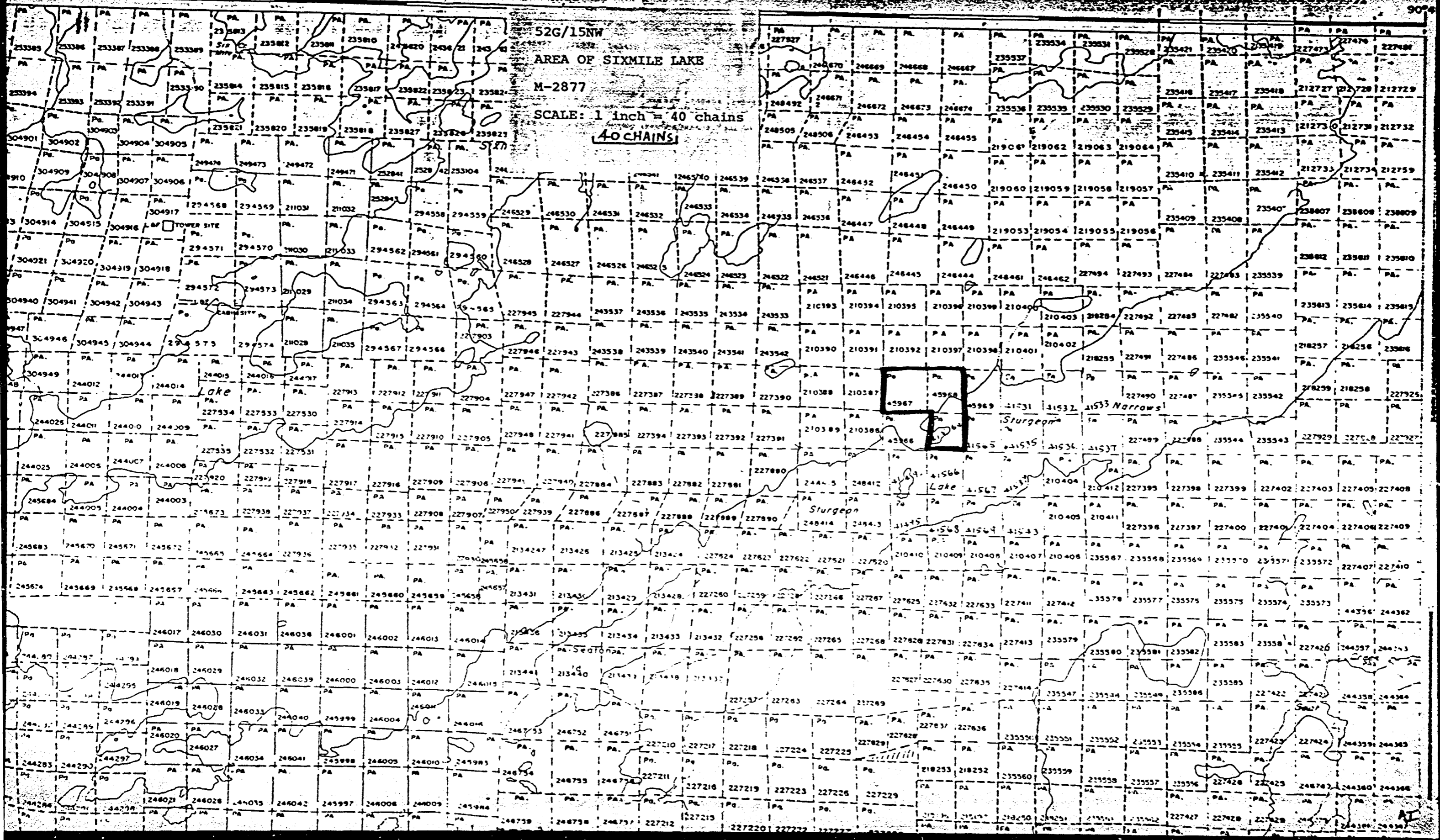
52G/15NW

AREA OF SIXMILE LAKE

M-2877

SCALE: 1 inch = 40 chains

40 CHAINS



TOWER SITE

CABIN SITE

Lake

Sturgeon

Lake

Sturgeon

Narrows

AI

81



ONTARIO

THE MINING ACT REPORT OF WORK

File # - 41564

31

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

To the Recorder of Patricia Mining Division

I, N. G. Wahl Ltd. name of Recorded Holder T 20 Miner's Licence

302 Bay Street, Toronto 105, Ontario Post Office Address

do hereby report the performance of 2377 days of Diamond Drilling type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....
.....

SEE ATTACHED LIST



52G15NW0089 52G15NW0016A1 SIXMILE LAKE

900

Six mile Lake area rd - 2877

All the work was performed on Mining Claim (s) 41564 - 4111 feet and 41565 - 606 feet (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)

- (Drilling completed by Morissette Diamond Drilling August 9 - September 25, 1969 Drill Hole 69-1 - 671' at 40° - AXT Duplicate Logs and Sketches attached. 69-2 - 1702' at 40° - AXT

PATRICIA MINING DIV. RECEIVED NOV 19 1969 AM 7:8 9:10 11:12 1:2 3:4 5:6 PM

Date November 17, 1969

Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, N. G. Wahl 302 Bay Street, Toronto 105, Ontario (Post Office Address)

hereby certify:

1. 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.
2. That the annexed report is true.

Date November 17, 1969

Signature

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

Claim No.

Days

Claim No.

Days

PA 41492 51
41495 51
41531 51
41532 51
41533 51
41535 51
41536 51
41537 51
41539 51
41543 51
41564 51
41565 51
41566 51
41567 51
41568 51
41569 51
45966 51
45967 51
45968 51
45969 51

210386 50
210387 50
210388 50
210389 50
210390 50
210391 50
210392 50
210393 50
210394 50
210395 50
210396 50
210397 50
210398 50
210399 50
210400 50
210401 50
210402 50
210403 50
210404 51
210405 51
210406 51
210407 51
210408 51
210409 51
210410 51
210411 50
210412 50

Work completed on

Claim 41564 - 1771 feet
41565 - 606

2377 total

SIX MILE LAKE

2877

#341

THE MINING ACT

The Recorder at PATRICIA

PATRICIA

W.G. WAHL LIMITED

W.G. WAHL LIMITED

T-20 T-20

name of Recorder holder
Ste. 1101, 302 Bay Street, Toronto, Ontario

Miner's License

do hereby report the performance of 1455 days of Diamond Drilling
not before reported to be applied on the following contiguous claims and attached schedule

Claim No.	Days	Claim No.	Days	Claim No.	Days
41492	12	41536	12	41566	12
41495	12	41537	12	41567	12
41531	12	41539	12	41568	12
41532	12	41543	12	41569	12
41533	12	41564	12	45966	40
41535	12	41565	12	45967	40

All the work was performed on Mining Claim (s) PA 45967 45967
(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)

DDH 242-22 Bearing - 337° - Dip - 45° - Depth - 754'
 Started: Sept. 10th, 1970 Completed: Sept. 17th, 1970
 DDH 242-23 Bearing - 157° Dip - 45° - Depth - 701.0'
 Started: Sept. 18th, 1970 Completed: Sept. 25th, 1970 1154

Drilled by: Continental Drilling CORE SIZE: AX
 Date: September 20th, 1971
 Signature of J. A. Gribben
 Signature of Recorder or Agent

The Mining Act
Certificate Verifying Report of Work

J. A. Gribben
55 Yonge St., 6th Floor - Toronto, Ontario.
(Post Office Address)

hereby certify:
1. 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 some during and/or after its completion.
2. That the annexed report is true.

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

341

CLAIM NO.	Days
PA 45968 45968	40 40
45969	40 40
210386	42 42
210387	41 41
210388	41 41
210389	41 41
210390	41 41
210391	41 41
210392	42 42
210393	41
210394	41
210395	42
210396	41
210397	41
210398	41
210399	41
210400	41
210401	41
210402	41
210403	41
210404	40
210405	40
210406	40
210407	40
210408	40
210409	40
210410	40
210411	41
210412	41

FEDERAL BUREAU OF INVESTIGATION
SEP 22 1971
PM 1 50

PA 41490