



DIAMOND DRILLING

TOWNSHIP: SOTHMAN

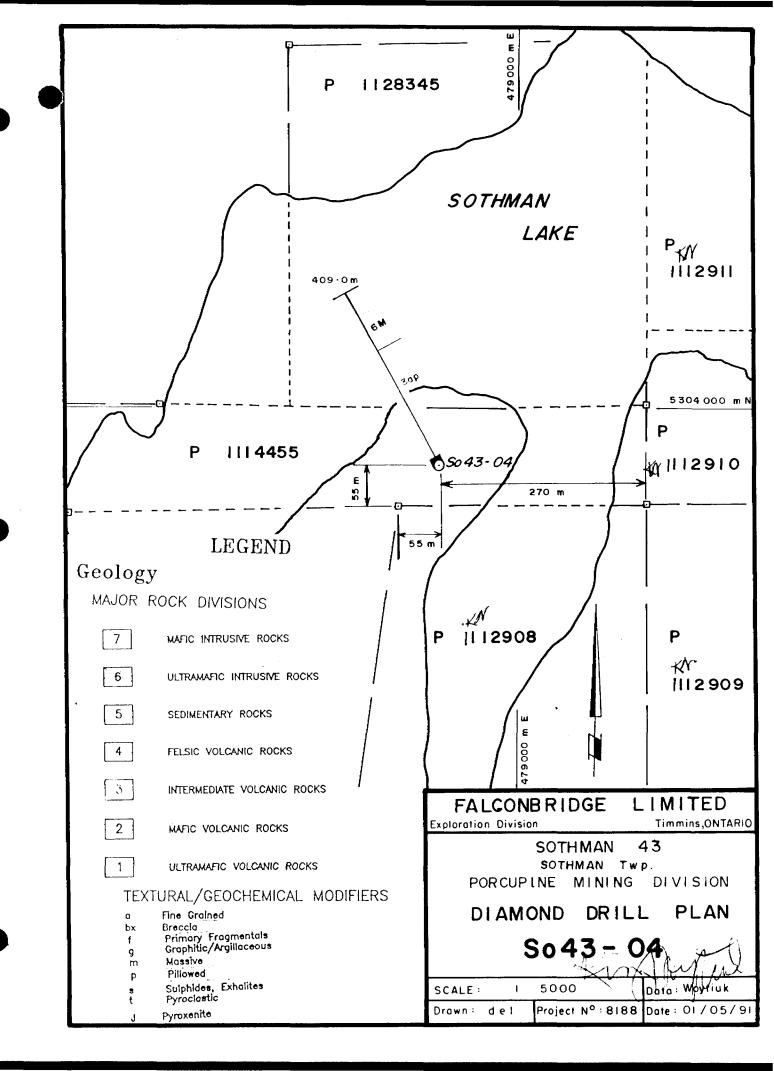
REPORT NO: 36

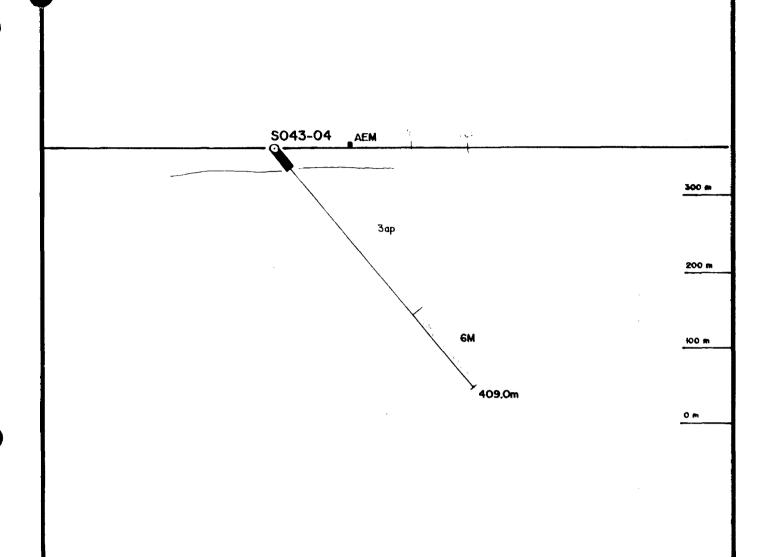
WORK PERFORMED FOR: Falconbridge Limited

RECORDED HOLDER: SAME AS ABOVE [X]

: OTHER []

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
1114455/112_8345	SO-43-04	407.0m	Jan/91	(1)
1113192/1171944	SO-64-01	516.60m	Feb/91	(1)
112919/1043628 1113007/1113008	SO-44-02 SO-32-01	317.0m 419.0m	Feb/91 Jan-Feb/91	(1) (1)





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Exploration Division

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DOME PROJECT

SOTHMAN 43 SOTHMAN TWP

SECTION FOR

S043-04

LOOKING WEST

SCALE: 1:5000

Dota

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Drown: del

Project No :8188

Date: 11/04/90

HOLE NUMBER: SO43-04 PROJECT NAME: 8188

PROJECT NUMBER: 008188

LOCATION: SOTHMAN THP

DATE STARTED: January 11, 1991

DATE LOGGED: January 19, 1991

DATE COMPLETED: January 20, 1991

CLAIM NUMBER: ///day Div 14.25 14/11

PLOTTING COORDS GRID: UTM

NORTH: 5303925,00N

EAST: 478900.00E

ELEV: 360.00

ALTERNATE COORDS GRID:

NORTH: 0+ 0

GRID ASTRONOMIC AZIMUTH: 330° 0' 0"

EAST: 0+ 0 ELEV:

0.00

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 407.00m START DEPTH: 0.00m

FINAL DEPTH: 407.00m

DATE: 13-May-1991

METRIC UNITS: X

COLLAR ASTRONOMIC AZIMUTH: 330° 0' 0"

PULSE EM SURVEY: YES

PLUGGED: NO HOLE SIZE: NO

CONTRACTOR: NOREX

CASING: 33.5m left in ground

CORE STORAGE: METSITE

IMPERIAL UNITS:

PURPOSE: Test AEM + MAG anomaly. Hole blocked 250m, plastic pipe in hole.

COLLAR SURVEY: NO

ROD LOG: NO

MULTISHOT SURVEY: NO

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees		FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
60.00	328. 0.	-52° 0'	SING.SHOT	OK		-	-	-	-	-	
120.00	332° 0'	-53° 0'	SING.SHOT	OK			•	-	-	-	
180.00	332° 0'	-51°30'	SING. SHOT	OK		-	-	-	-	-	
240.00	332° 0'	-50° 0'	SING.SHOT	OK			-	-	-	-	
300.00	337° 0'	-46. 01	SING.SHOT	OK		-	-	-	-		
360.00	329° Di	-46° 0'	SING.SHOT	OK		-	-	•	-		
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DRILL HOLE RECORD

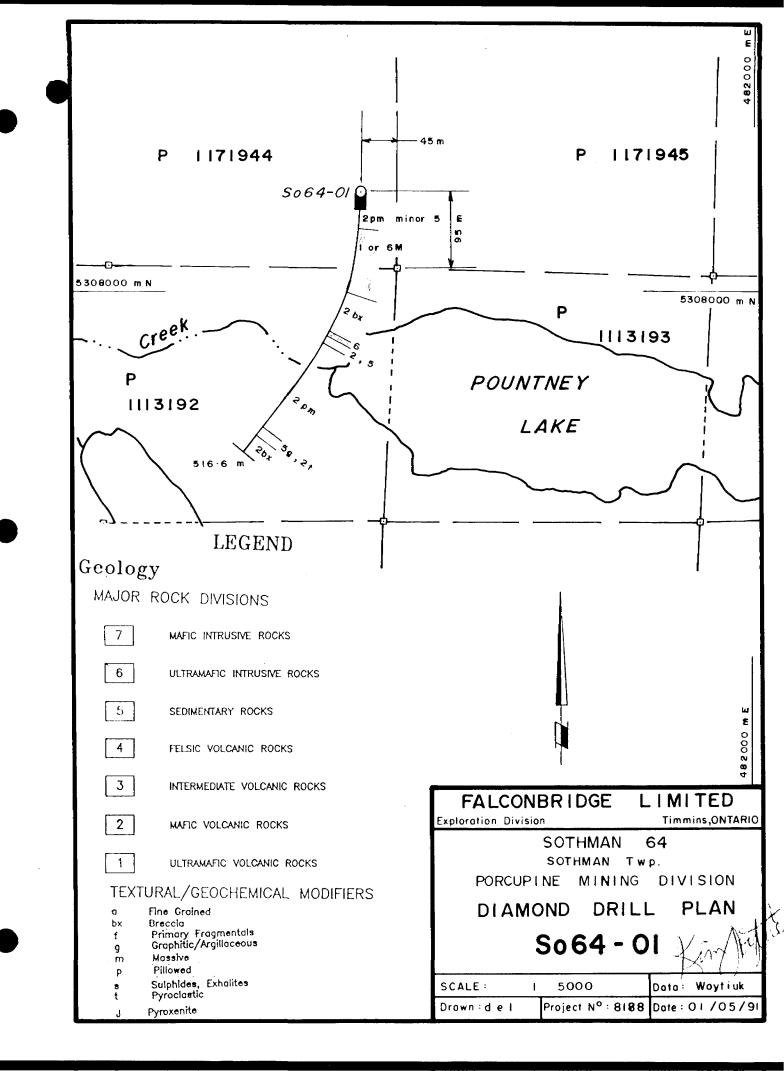
HOLE NUMBER: \$043-04

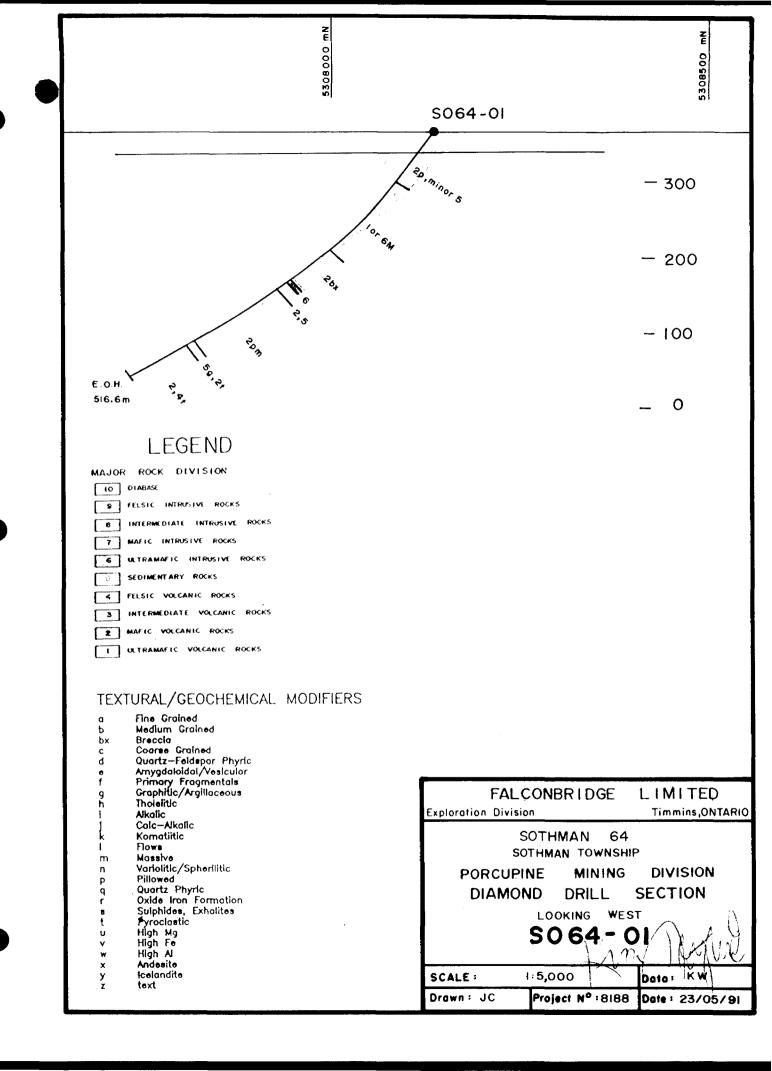
FROM ROCK ANGLE TEXTURE AND STRUCTURE TO CA ALTERATION TYPE MINERALIZATION REMARKS TO 0.00 OVERBURDEN -PEM collar Loop only. TO « do » -no PEM anomaly. 33.50 -plastic piping in hole. 33.50 INTER--light to medium grey-green colour. -weak to moderate chlorite alteration -<0.1% disseminated Py in pillow -AEM anomaly not explained. MEDIATE -aphanitic to very fine grained. with strong chlorite alteration of -MAG anomaly explained by dunite. TΩ selvages. 284.12 VOLCANICS -pillowed to massive flows. pillow selvages. -possibly approaching in hole PEM -pillow selvages marked by zones of fragmented -very weak to moderate silicification. anomaly at end of hole (250.0m). «Зар» flow material and more extensive chloritization. -minor epidote alteration along -2-15% amygdules filled by quartz and chlorite ranging in size from <1.0mm to >20mm. -occasionally very thin veins with -several cooling fractures filled by quartz and hematite staining. calcite. -speckled nature of some sections due to alteration. -more extensive zones of fragmental may represent flow tops. -1-2% grey-pink mineral with local concentrations. -62.45-71.76m: -development of grey-pink -moderate alteration producing greycoloured mineral or minerals, primarily in pink mineral. selvages but becomes pervasive. -represents 1-15% of the unit with shapes similar to plagioclase crystals. -77.08-78.71m: -light pink colour hematite -moderate hematite alteration. stained flow. -78.68-81.15m: -flow contains banding at 20° to the core axis. -86.61-98.16m: -large quartz filled amygdules up to 4cm in length with many smaller quartz filled amygdules representing up to 1% of the unit. -98.30-99.20m: -quartz filled fractures at 30° to the core axis. -118.30-118.45m: -flow banding at 40° to the core axis. -179.75-180.30m: -light grey colour, aphanitic possible flow top. -calcite fracture filling associated with chlorite. -233.50-284.12m: -unit becomes aphanitic in nature. -281.0-284.12m: -serpentine, talc and calcite found as fracture filling veins and veinlets.

HOLE NUMBER: SO43-04

HOLE NUMBER: SO43-04

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
284.12 10 407.00	DUNITE «1M»	-sharp upper contact at 30° to the core axislight green and black colouredfine grained to medium grainedmassiveseveral crosscutting, calcite and serpentine veinsmoderately magnetic284.12-286.85m: -instense calcite, serpentine and talc veining near contactveins are at all orientations to the core axisabundant magnetite veinlets roughly at 35° to		-strong serpentine alteration with development of magnetite blebs and veins.		
		core axis310.6-310.86m: -smaller shear 90° to core axisslightly polysutured but mostly massive adcumulate dunite333.70-334.43m: -strong shearing 15° to core axis335.30-335.94m: highly fractured zone, abundant serpentine and magnetite stringers340.50-341.40m: -strong shearing with calcite		-strong serpentine alteration with magnetite stringers and blebs.		
		stringers. Shearing 20° to core axisstringers of magnetite and calcite stringers. More pervasive in downhole direction366.75-368.08m: -shear, core is close to being an unconsolidated much, abundant magnetite and		-highly serpentinized.		
		calcite stringers and blebs398.75-401.52m: -talc - fe/Ca carbonate alteration, very strong, all relict textures are overprinted by alteration. Contacts of alteration are sharp, suggesting structural		-Fe/Ca Talc carbonate alteration.		
		contacts402.0-407.0m: abundant calcium-carbonate filled fractures.		-highly sesrpentinized.		
407.00 TO 407.00	E.O.H.					•





HOLE NUMBER: \$064-01 PROJECT NAME: 8188

PLOTTING COORDS GRID: UTM NORTH: 5308125.00N

ALTERNATE COORDS GRID: LINE NORTH: 0+ 0

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 516.60m

PROJECT NUMBER: 008188

EAST: 481480.00E ELEV: 365.00

EAST: 0+ 0 ELEV: 0.00 START DEPTH: 0.00m FINAL DEPTH: 516.60m

DATE: 16-May-1991 METRIC UNITS: X

CLAIM NUMBER: 2// 2/52 LOCATION: SOTHMAN TWP

COLLAR ASTRONOMIC AZIMUTH: 180° 0° 0"

GRID ASTRONOMIC AZIMUTH: 180° 0' 0"

DATE STARTED: February 18, 1991 DATE COMPLETED: February 25, 1991

COLLAR SURVEY: NO

MULTISHOT SURVEY: NO

PULSE EM SURVEY: YES PLUGGED: NO

CONTRACTOR:

IMPERIAL UNITS:

DATE LOGGED: February 26, 1991

RQD LOG: NO

HOLE SIZE: NO

CASING: CORE STORAGE:

PURPOSE: Test Mag + EM anomaly (PEM blocked 70m).

DIRECTIONAL DATA:

epth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	
60.00	182* 0'	-52° 0'	SING.SHOT	OK		-		-	-	-		
120.00	189° 0'	-52° 0'	SING.SHOT			-	-	-	-			
180,00	188* 01	-52° 0'	SING. SHOT	OK		-	-	-	-	-		
240.00	205 * 0 *	-49° 0'	SING.SHOT	OK		-	-					
300.00	206* 01	-47° 0°	SING. SHOT			l -		-	-	-		
360.00	211' 0'	-44. 01	SING. SHOT			-		-		-		
420.00	212. 0.	-40° 0'	SING. SHOT			-		-	-	-		
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HOLE NUMBER: \$064-01

DRILL HOLE RECORD

HOLE NUMBER: SO64-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 23.16	CASING «{ob}»					
23.16 10 37.60	MASSIVE MAFIC VOLCANIC «2am»	-fine grainpale grey-green colourmassiveweak foliation at 70° to core axis5-7% white to grey quartz ± carbonate veins and veinlets, contorted vary from 3mm to 1cm wide<1%, mm x mm size white carbonate amygdules (up to 3mm x 2mm size)carbonate strongly fizzes with HCl acid.		-weak spotty bleaching and silicificationweak epidote alteration in fractures, locally spotty ie 35.6-36.0m (pale yellow-green colour)commonly pale pink-yellow feldspar ? in quartz veinsweak fracture controlled chlorite occurs adjacent to quartz carbonate veins.	overall 1-2% pyrite disseminated and in blebs but locally 5% pyrite in carbonate veinlets ie 22.9-30.0m -80% contorted quartz carbonate veins with 3-5% pyrite 28.0-28.1m -quartz carbonate vein at 20° to core axis 1-3% pyrite 32.9-33.0 -15% contorted quartz carbonate veins with 5-7% disseminated pyrite in veinlets/10cm. -minor chlorite adjacent to vein35.6-35.7m -5% contorted quartz carbonate vein · 5-7% pyrite with trace chalcopyrite.	
37.60 10 40.20	CONGLO- MERATE «5»	-sharp contact at 37.6m is at 70° to core axissedimentary conglomeratepaie greyno visible beddingweak foliation at 55° to core axis1-2% quartz carbonate veinlets often at 50° to core axissome clasts are weakly elongated parallel to foliationmatrix is pale grey and is medium to coarse grain (greywacke size) ie 1mm x 1mm; quartz feldspathic up to 40% of matrix (may be intermediate in composition)5% clasts vary in size from 6cm x 7cm to 3cm x 5mmcomposition of which are i) mafic volcanic ? (dark grey), ii) tonalite or felsic intrusive (pink to white)mafic clasts are elongatefelsic intrusive clasts are subrounded.		-weak pervasive carbonate alteration (fizzes with HCl).	-2-5% disseminated pyrite and in blebs and cubes.	
40.20 TO 67.10	PILLOWED AND MASSIVE MAFIC VOLCANIC	-sharp contact at 40.2m is at 40° to core axis. -see description as per 23.16-37.6m. -locally 5mm wide selvages are visible ie at 40.5m (not definite). -higher concentration of amygdules 1-5% content			-overall: 1-5% pyriteprominent quartz carbonate veins occur: 57.4m: 2 blebs of chalcopyrite 1mm x 1mm,	

HOLE NUMBER: SO64-01

HOLE NUMBER: \$064-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
	«2атр»	and larger in size up to 1cm x 5mm size and locally chlorite infilling amygdules ie at 54.0mlocally insitu brecciation occurs adjacent to veins.			62.4-62.5m -10% pyrite finely disseminated in quartz carbonate vein.	
	DUNITE «1 or 6M»	-sharp contact at 75° to core axis at 67.10m67.10-67.30m -20-30% contorted white quartz carbonate veining in black fine grain matrix chlorite (not sure if this rock is ultramafic or mafic) - could be shear zone in mafic volcanicsvery soft. 67.8-68.6		-67.10-72.7m pervasive bleaching giving core grey colour. -67.8-68.6m -strong fracture controlled	-67.10-67.8m -5-20% pyrite, pyrrhotite disseminated and blebs in 5-15% white quartz carbonate vein including 67.4-67.5m10% pale red staining sphalerite ? or hematite/10cm67.8-68.6: overall 6-10% sulphides	-not conductive with ohm metre.
		-strong foliation at 60° to core axis.		chlorite and serpentine ? pale green.	in 15-30% white quartz carbonate blebs and veins, 1-3% chalcopyrite in blebs and disseminated and 3-5% pyrite.	
		-68.6-70.0m -is this real ultramafic contact? -fine grain dark grey colourmore massive - weak foliation at 70° to core axis68.7-68.8m -polysuturing?		*Sr» serpentine	-68.6-70.0m: overall 5-7% pyrite disseminated and blebs. -no visible pyrrhotite. -68.6-69.0m -trace chalcopyrite. -69.4-69.5m -white quartz-carbonate	-68.6-70.0m -broken core.
		170.0-71.2 ~ FAI » FAULT -lost 90cm of core. -7-11cm wide zone of fault gouge - pale green serpentine.			vein at 70° to core axissharp contact at 70° to core axis is at 69.4m1% pyrite in veingreen.	-70.0-71.0m -lost 90cm core badly broken core-gouge.
		-72.1-72.7m -pale grey colourfine to medium grain dunite - olivine grains touching each other - weakly magnetic.		-fracture controlled serpentine.	-70.0-76.5m -<1% pyrite very finely disseminated (can only see with hand lense).	
		-72.7-116.0m -fine to medium grainpale green colourmoderately magnetic5-7% white quartz ± carbonate veinlets contortedcan see black 5-10% magnetite crystalsat 116.0m onward pale grey-green more grey than green.		-strong pervasive serpentine and fracture controlled alteration.	-76.5-114.5m -average 3-5% locally 5-7% very finely disseminated sulphide, pyrite ? (can only see with hand lenses)144.5-165.7m -<1% very fine pyrite ? sulphides (only visible with hand lense) locally 1-3%.	,
i		122.0-123.5			4	-122.0-123.5m -broken core. -123.5-130.0m -weakly broken core. -155.0-157.0m -broken core.
		-165.7-184.5m -pale green colour165.7-184.5m -pale grey-green colourminor bleaching pale grey around fractures ? almost looks like pillow selvage only local feature.			1167.3-167.4 k-10% py» -10cm zone of 10% disseminated sulphide165.5-184.5m -1-3% fine disseminated	

HOLE NUMBER: SO64-01

HOLE NUMBER: \$064-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		182.0-182.3 -« FAI » -broken core and gouge. -FAULT.			sulphides pyrite ? in dunite only visible with hand lensesome larger quartz ± carbonate veins occur with 1-3%, 3mm x 5mm size blebs of pyrite ± pyrrhotite (sulphides are concentrated in veins) 174.7-175.0m 175.4-175.7m178.1-178.2m -7% pyrite in carbonate veins178.2-179.0m -up to 20% contorted white quartz carbonate veins183.5-184.5m -20% carbonate veins, veinlets at 35° to core axis and folded.	-182.0-182.5m -broken core.
184.50 10 240.90	MAFIC VOLCANIC BRECCIA AND VOLCANIC- LASTIC «21,2bx»	-contorted contact at 184.5m but sharp184.3-185.3m -pale grey185.3- m -pale grey185.3- m -pale grey-green, locally pale yellow-greenweak foliation at 60° to core axis1-2% quartz amygdules vary in size 1cm x 2cm to 2cm x 0.5cm5-15% mafic clasts, subrounded to subangular vary in size from 3cm x 6m to 1mm x 2mmlocally up to 50% fragments/5cmfragments vary in composition i) pale grey quartz ? (5%), ii) mafic volcanic -fine grain aphyric (90%), iii) pale yellow-green-grey - epidote altered ? mafic volcanic ? not sure what composition this is ? (1-2%)fine matrixlocally see concentric cooling cracks.		-184.5-185.3m -strong pervasive silicification/baking pale grey adjacent to contact and veinsspotty strong silicification and epidote alterationweakly spotty to pervasive carbonate alteration. «Si»«Ερ»	-184.7-184.8m -white quartz carbonate vein at 75° to core axisup to 15% green chlorite and epidote in vein1-2% pyrite disseminated in vein184.8-185.3m -30% contorted quartz carbonate veins causing insitu brecciation of host rockoverall less than 1% pyrite.	
		-193.0-207.0m -generally decrease in fragment size downhole - looks more volcaniclastic - average fragment size 1mm x 2mm. -202.0-202.05m -fracture controlled graphitemoderate conductivity/5cm207.0- m -larger fragment size - no visible contact - no visible bedding just increase in fragment size.		195.0-197.0 ≪g≫ -strong silicification highlighting fragments. -weak fracture controlled black graphite and sericite. -weak spotty epidote sericite.	-193.0-240.9m -average 1-3% sulphide (pyrite and pyrrhotite) clasts average size (locally 5%/10cm) 5mm x 2mm up to 1cm x 2cm 1-3% disseminated pyritenote 195.0-197.0m sericite in fractures almost looks like brown sericite.	
		-up to 6cm x 2cm size and average size 3mm x 3mmup to 1-3% graphite clasts (black). 227.8-228.7 <2m> Massive Mafic Volcanic		-240.5-240.9m -strong pervasive silicification adjacent to contact.	-239.0-240.9m -2-5% pyrite disseminated. -240.8-240.9m -5% quartz carbonate blebs and veins.	

HOLE NUMBER: SO64-01

ROCK ANGLE FROM TO CA **ALTERATION** MINERALIZATION TO TYPE TEXTURE AND STRUCTURE REMARKS -sharp contacts at 227.8m at 50° to core axis and 228.7m at 40° to core axis. -228.7-231.0m -mafic volcaniclastic average clast size 3mm x 1mm. |231.0-231.8|«2m» Massive Mafic Volcanic. -231.8-238.5m -mafic volcaniclastic. -238.5-240.9m -more massive mafics. 240.90 DUNITE ? -sharp contact at 240.9m is at 90° to core axis. «Sr» -7-10% disseminated pyrite and in SHEARED -dark grey colour. blebs and cubes - in host rock and in -strong serpentine and carbonate in 243.90 ULTRAMAFIC -25% quartz ± carbonate veins. veins and pervasive serpentine. carbonate veins. -strong foliation at 60° to core axis «|S2 60°|» «1 or 6M» -carbonate strongly fizzes with HCl acid. -243.6-243.8m -50% white quartz 1243.8-243.9 4 FAI carbonate vein at 80° to core axis -minor gouge fault. and serpentine and chlorite in vein. 243.90 SHEARED |243.9-244.5|≪2bx+ Mafic Breccia. 1243.9-245.0|«Si»«Ch» -243.9-244.7m -5% white quartz -strong spotty silicification and MAFIC -fault breccia? carbonate veins and blebs and 268.00 fracture controlled sericite (bright VOLCANICS -chlorite and quartz carbonate causing insitu chlorite causing insitu brecciation. AND breccia of host rock. yellow-green). -5-7% pyrite disseminated and in SEDIMENTS -244.5-244.7m -strongly sheared silicified mafic blebs. «2,5» volcanics or siliceous sediments. -banding 1mm to 2mm wide or bedding at 60° to core axis alternating yellow sericite and pale grey siliceous bands. -bands are folded. «|52 60°|» -244.7-245.0m -more massive zone. -244.7m-onward -2-3% pyrite in blebs -245.0-268.0m -fine grain strongly foliated 245.0-268.0 kg» and disseminated and in carbonate 245.0-268.0 wwk. conduct./23mm mafic volcanics. -weak fracture controlled graphite. ONLY along fracture planes. blebs -foliation varies from 10° to 15° and is -weakly conductive along fracture -5-25%, mm wide to 1cm wide carbonate folded and locally shows domal features. planes (1mm wide to 3mm). veins parallel to foliation. -weak pervasive carbonate alteration -locally contains 1-3% graphite clasts and up to 5% mafic volcanic clasts. (strongly fizzes with HCl acid). -tocally looks like a sediment. -pale grey-green bands alternating with yellowgreen sericite and carbonate (white) bands. 261.0-265.0 «Se» 1246.5-246.6 «5» -strong fracture controlled to -246.6-247.0m -40% white quartz -argillite. pervasive sericite. carbonate blebs and veins contorted --black - dark grey. graphite in matrix and causing insitu -2mm to 5mm beds are contorted and folded. brecciation of mafic host rock 2-3% -3% mafic volcanic clasts. pyrite. -sharp contact at 246.5m is at 30° to core -2-3% quartz carbonate blebs and veins. 1261.2-261.22 | «| FAI | ,60° » -266.9-267.3m -pale grey-white quartz

HOLE NUMBER: SO64-01

MINERALIZATION

ALTERATION

ANGLE

TO CA

TEXTURE AND STRUCTURE

no visible bedding.
 maximum clast size 3mm x 2mm.
 possible fining uphole.

-3% of clasts are graphite.

-can't tell composition of other clasts mafic

HOLE NUMBER: SO64-01

ROCK

TYPE

FROM

TO

FAULT, 2cm fault gouge, 60° foliation adjacent carbonate vein. -5% disseminated pyrite. to gouge. -contact at 267.3m is at 45° to core -minor graphite in fractures. 268.00 PILLOWED -sharp contorted contact at 268.0-273.0m. -overall 1-3% disseminated pyrite and AND -no tonger sheared. -pale spotty bleaching. in blebs. 393.90 MASSIVE -pale grey-green fine grain. -288.0m onward -weak fracture -locally up to 5% pyrite in quartz MAFIC 273.0-288.0 «Ch,50°» controlled chlorite and infilling carbonate veins. VOLCANIC -weak to moderate foliation at 50° to core amygdules. -268.9-269.0m -white quartz carbonate «2p, n» -303.0- m -weak epidote alteration vein contorted. -1cm wide not definite pillow selvages ? dark in quartz veins or centred on -288.0m -overall 1-2% pyrite. grey (chloritic) every 1-3m. selvages. -1-5% white leucoxenes in selvages. -362.3-362.4m -fracture controlled -1-5% quartz ± carbonate veins and veinlets pale red-brown carbonate ? or often parallel to foliation - carbonate veins hematite - not sure if this is strongly fizz with HCl acid. sphalerite (no red streak). -locally concentric cooling cracks ie at 295.5m. m -2-5% carbonate, quartz and 288.0chlorite amygdules average size 2mm x 2mm. -begin to see definite pillow selvages. -locally see massive flows - 1m long ie 291.0-292.8m - or could be more massive part of pillowed zone and pillow breccia (30-40cm wide) 292.8-293.10m cannot tell tops. at 364.0m -amygdutes up to 3cm x 2cm size with epidote altered rims. -at 375.0m -becoming more massive visible pillow selvage at 385.5m. 393.90 ARGILLITE -393.9-393.95m -dark grey argillite. -weak fracture controlled carbonate. -less than 1% pyrite. AND -fine grain, beds are 3mm wide. 397.30 MAFIC -beds are folded and contorted. VOLCANIC--393.95-394.0m -massive mafic volcanic. LASTIC -394.0-394.3m -mafic volcaniclastic. «5,2t» ·fine grain matrix. -20% clasts - average size 1mm x 1mm.

HOLE NUMBER: SO64-01

north.

-possible fining uphole? tops to

DATE: 16-May-1991

REMARKS

HOLE NUMBER: SO64-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		-394.3-394.5m -mafic volcaniclasticfine matrix394.5-397.5m -several different units of mafic volcaniclasticlocally graphite clasts are 2cm x 1cm1-2% quartz ± carbonate amygduleslocally fine bands or beds black (graphite?) at 60° to core axis.		394.5-397.5 *g» (not conductive with Ohm metre).		
397.30 10 406.60	PILLOWED MAFIC VOLCANIC «2p»	-fine grain. -see description as per 268.0-393.9m.				
406.60 TO 406.90	ALTERED MAFIC VOLCANICS OR ULTRAMAFICS «2m or 1m?»	-sharp contact at 406.6m is contortedpale green colourmassive, fine grainvery weakly magnetic5% contorted carbonate veinsdunite ? or altered mafic volcanics.		:	-1-2% fine pyrite.	
406.90 TO 410.80	GRAPHITIC ARGILLITE AND MAFIC VOLCANIC- LASTICS «5g,2t»	-406.9-407.0m -argillite407.0-407.2m -massive mafic volcanic407.2-407.25m -argillite407.2-407.35m -argillite407.3-410.8m -argillite and graphitic argillite407.3-408.4 kg 50 90° kg -argillite and graphitic argillite1mm to 5mm beds at 90° to core axis is contortedat 407.3-407.33m -weakly conductive/3cm408.33-408.40m - weakly conductive/7cm408.4-408.5m -mafic volcanic408.5-408.6 -argillitemm wide beds at 90° to core axis408.6-410.3m -mafic ash tuff? -fine grain, dark greyweak foliation at 50° to core axis or sheared massive mafic volcanic408.6-410.3 kg 52 50° kg -410.3-410.8m -black-grey argillitebedding is at 85° to core axis and is also folded.			-410.0-410.1m -quartz carbonate vein at 90° to core axis.	407.3-407.33 *wk conduct./3cm> 408.33-408.4 *wd conduct./7cm>

HOLE NUMBER: SO64-01

DRILL HOLE RECORD

LOGGED BY: K. WOYTIUK

DATE: 16-May-1991

PAGE: 7

HOLE NUMBER: \$064-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
410.80 TO 413.00	MAFIC ASH TUFF «2t»	-pale grey to greenno visible bedding410.8-412.0m -can see fining of fragments uphole50% fine average fragment size (1mm x 1mm)412.0-413.0m -fragments average size is 2mm x 2mm and up to 4cm x 3cmfragments are majority mafic volcanic 5% white quartz ± carbonate amygdulesgraphite and argillite clastsfragments are subrounded to subangularfine mafic matrixweak foliation at 50° to core axis.		·	-413.0- m -1-3% pyrrhotite pyrite clasts.	-fining of fragments uphole possible tops to north.
413.00 10 497.20	MAFIC BRECCIA «2bx»	-413.0-415.0m -average fragment size is 5mm x 5mm size415.0- m -average fragment size is 1cm x 1cm and up to 6cm x 5cmat 426.0m -begin to see concentric cooling cracksat 415.0m -no contact, just see no more argillite and graphite in clasts only mafic volcanic clastssee pillow selvages and up to 1cm x 1cm size amygdules - often infilled with sulphides and (quartz ± carbonate amygdules).		-415.0- m -weak spotty bleaching centred on mafic clasts. «Ep»«Si» -minor epidote in fractures and silicification (spider web texture).	-413.0-463.0m -1-3% pyrrhotite and pyrite clasts are up to 2cm x 2cm sizeoften pyrrhotite cores and pyrite rims to sulphide clastspyrrhotite and pyrite are also disseminated and infills selvagesat 436.5m -trace chalcopyrite in pyrrhotite clasts425.0-425.1m -7cm x 6cm pyrrhotite clastlocally ie. 442.0-445.0m -up to 5% very fine pyrite in matrix of rock456.2-456.5m -3cm x 3cm (pyrrhotite clasts) contorted clasts/10cm457.4-457.5m -2cm x 1cm pyrrhotite	
		-463.0-463.5m -looks variolitic with white felsic cores ? and mafic matrix in subrounded clasts of pillows? -may be just silicification1-5% white feldspar phenocrysts463.0-478.0m -average fragment size is 3mm x 2mmpossible contact at 463.0m? -478.0-497.2m -increase in fragment sizeup to 3cm x 3cm in sizeaverage size 3mm x 2mmincrease in amygdules up to 10% amygdules locally.		463.0-497.2 «Se» - weak sericite in fractures and same alteration as 415.0-463.0m.	-463.0-485.0m -<1% pyrrhotite ± pyrite clasts over 1-3% disseminated pyrite and pyrrhotite and in blebslocally 5% pyrite/5cm intervals and pyrite in cubes485.0-497.2m -1-3% sulphide clasts up to 3cm x 3cm size.	•

HOLE NUMBER: \$064-01

HOLE NUMBER: SO64-01

ROCK ANGLE TEXTURE AND STRUCTURE TO CA ALTERATION MINERALIZATION TO TYPE REMARKS 497.20 MAFIC TUFF -497.2-498.8m -argillite - minor mafic ash. -1-3% contorted white 3mm wide -sharp contact at 497.2m is at 65° to core AND carbonate veins and veinlets. 508.40 SEDIMENT -overall 1-2% pyrite. «2t,5» -bedding is at 55° to 40° to core axis. «| \$0 55° | » -beds vary from 1mm to 1cm wide. -colour - dark grey to black. -locally intercalated fine mafic ash ? (pale grey colour) 1cm wide beds. -minor graphite along mm wide beds. -498.8-499.7m -mafic ash tuff. -498.8-499.0m -fine matrix. 498.8-499.7 «Cb» -pale grey-green. -weak pervasive carbonate alteration (fizzes with HCl acid). -massive. -fine grain. -clasts are 1mm x 1mm to 1mm x 2mm size. -fines uphole. -possible fining uphale tops to north. -fragment size at 498.5-498.8m are 1mm x 1mm. -499.7-500.4m -pale grey argillite and mafic ash. -bedding at 50° to core axis. -see description as per 497.2-498.8m. -500.4-500.7m -fine grain mafic ash or mafic ash -500.6-500.7m -20% white carbonate veins. -500.7-502.0m -argillite. -see description as per 497.2-498.8m. -502.0-502.2m -massive mafic volcanic or mafic -502,2-506.0m -argillite and minor fine mafic ash. -bedding is folded and varies from 0° to 30° to core axis. -506.0-507.8m -mafic ash. -massive, pale grey-green. -fine grain ash matrix with 20%, 1mm x 1mm size fragments up to 5mm x 3mm size. |507.8-507.9| cherty, 5 or 4tw -pale grey - very siliceous cherty sediment or felsic ash tuff. -mm wide beds at 40° to core axis. -507.9-508.4m -argillite and mafic ash - beds at 30° to core axis. \$507.9-508.4 | \$0 30° | >

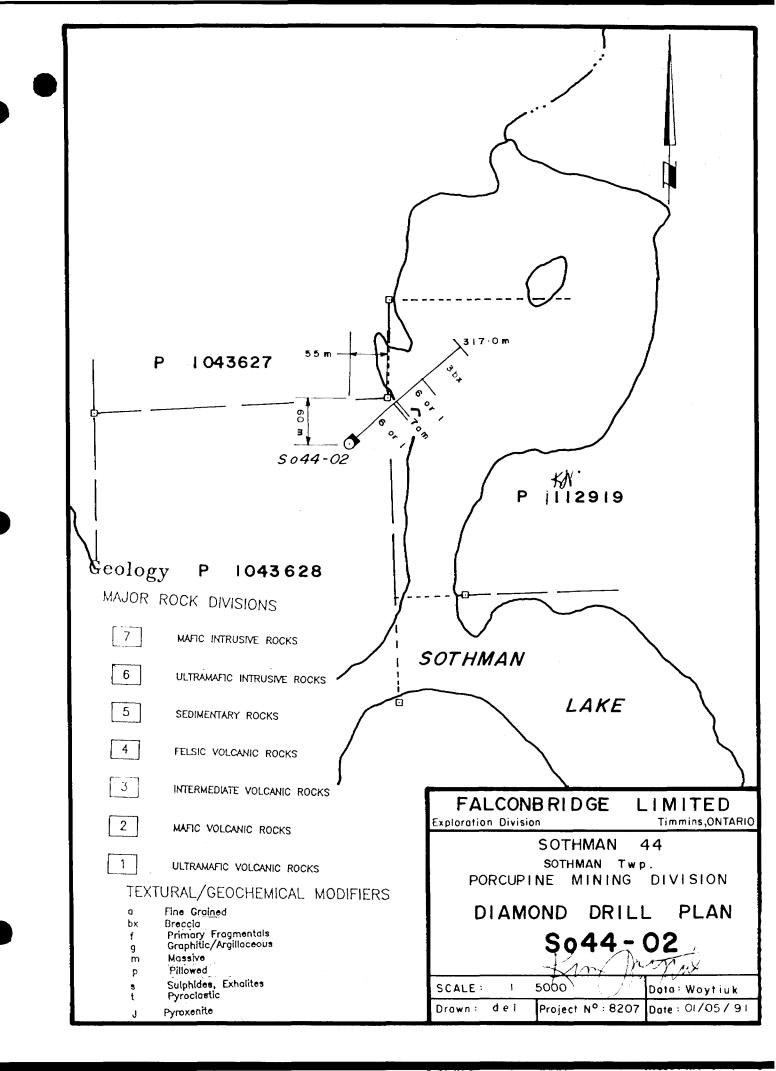
HOLE NUMBER: \$064-01

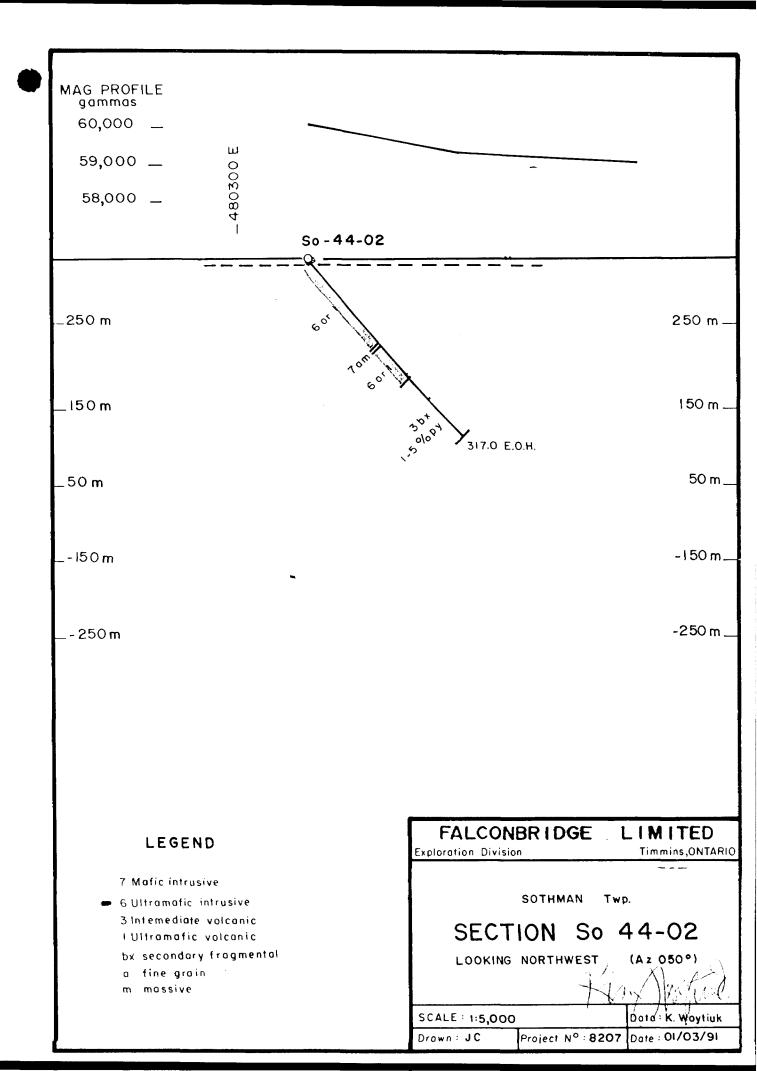
HOLE NUMBER: SO64-01

DATE: 16-May-1991

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
508.40 TO 510.50	FELSIC ASH TUFF? «4t»	-508.4-510.5m -sharp contact at 508.4m is at 40° to core axispale grey colourvery siliceousfine matrixpossible contact at 510.5m - not definite - gradual.		-not sure if this could be silicified mafic?	-508.4-510.5m -1-2% pyrite and pyrrhotite fragments 3mm x 1mm in size.	
510.50 TO 513.40	PILLOWED MAFIC VOLCANIC? «2p»	-pale greenfine grainpossible 1cm wide pillow selvages at 510.5m511.4-516.6m -massive510.5-513.4m -pale green colour.			-2-3% pyrite and pyrrhotite in veinlets and disseminated510.7m -one 3mm x 3mm bleb of chalcopyrite in a pyrrhotite fragment.	
513.40 TO 516.60	FELSIC? ASH TUFF «4t»	-513.4-516.6m -pale grey, fine grainsiticeousfelsic ash tuff?? 513.8-513.9 * SO 40* > -fine ash tuff? - dark grey - bedded at 40* to core axis.				
516.60 TO 516.60	E.O.H.					

HOLE NUMBER: SO64-01





HOLE NUMBER: SO44-02 PROJECT NAME: 8207

PLOTTING COORDS GRID: UTM

NORTH: 5304000.00N

ALTERNATE COORDS GRID: NORTH: 0+ 0

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 317,00m

IMPERIAL UNITS:

PROJECT NUMBER: 008207 CLAIM NUMBER: 1/1 1/1

EAST: 480400.00E ELEV: 350.50

EAST: 0+ 0 ELEV: 0.00 START DEPTH: 0.00m FINAL DEPTH: 317.00m

DATE: 27-May-1991 METRIC UNITS: X

COLLAR ASTRONOMIC AZIMUTH: 50° 0' 0"

GRID ASTRONOMIC AZIMUTH: 100° 0' 0"

DATE STARTED: February 3, 1991 DATE COMPLETED: February 15, 1991 DATE LOGGED: February 16, 1991

COLLAR SURVEY: NO MULTISHOT SURVEY: NO PULSE EM SURVEY: NO PLUGGED: NO CONTRACTOR: NOREX CASING:

RQD LOG: NO

HOLE SIZE: NO

CORE STORAGE:

PURPOSE: To test an HLEM anomaly + Mag anomaly.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degr e es	Type of FL Test	AG Comments	Depth (m)	Astronomic Azimuth	Dip degrees		FLAG	Comments	
60.00	-	-50° 0'	ACID	Bad test 300° Azimuth	-	•		•	•		
180.00	-	-49° 01	ACID	Bad test? 54° AZ	-	-		-	•		
120.00	42° 01	-49° 0'	SING.SHOT		-	-	-	-	-		
240.00	ا0 45*	-48° 0'	SING.SHOT		-	-	-	-	-		
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xil film

LOGGED BY: K. WOYTIUK

HOLE NUMBER: SO44-02

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA		MINERALIZATION	REMARKS
0.00 10 6.00	CASING « ob »					
6.00 TO 141.90	DUNITE «1 or 60»	-massivefine to medium grain (only locally coarse grain)pale green serpentine in fractures and dark grey colour of rockadcumulate? -moderately magnetic.		"Sr" -locally spotty rodingite alteration gives rock speckled lookstrong fracture controlled and controlled and pervasive serpentine10.0-11.0m -strong rodingite alteration spotty to pervasive (hard to scratch with knife) pale cream yellow-green14.0-14.8m strong rodingite	-nil.	-14.8-23.0m blocky ground.
3		17.0-17.4		alteration32.1-32.8m pale cream, fine grain pervasive rodingite alteration - sharp contacts at 60° to core axis at 32.1m and 32.8mrodingite alteration occurs:		-14.0-23.0m Blocky ground.
		-47.0-59.0m medium to coarse grainlocally blue-green and pale red serpentine in fractures.		42.0-42.3m, 43.8-44.1m63.0-64.0m contact at 64.0m is sharp and at 60° to core axis - pale grey colour, fine grain (not as creamy as above zones)at 83.0m starting to increase in amount of serpentine veins (ie 15%) and pervasive nature of serpentine and rock is becoming more bright green in colour.		
		-at 111.5m -fault gouge 111.5-111.5 FAI » -at 112.0m -fault gouge 112.0-112.0 « FAI » -at 114.7m -fault gouge 114.7-114.7 « FAI »		-rodingite alteration occurs: 126.0-127.0m, 133.1-133.2m, 141.0-141.9m.		•
141.90 TO 145.00	MAFIC DIKE «2am»	-contact at 141.9m is at 75° to core axisnot sure if this is altered ultramafic or mafic rockpale grey, fine grain, massiveweak pervasive bleaching? -at 142.0m -2cm wide black serpentine? vein contorted at 45° to core axis1-2% quartz carbonate veinlets (1mm-5mm wide) contorted orientations.		-sharp contacts with mafic dike: 142.2-142.4m -rodingite alteration? 143.1-143.6m -rodingite alteration?	-nit.	

HOLE NUMBER: SO44-02

DATE: 27-May-1991

HOLE NUMBER: SO44-02

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA		MINERALIZATION	REMARKS
145.00 TO 206.90	DUNITE «1 or 6D»	-contorted contact is sharp at 145.0m and roughly at 65° to core axis1-5% serpentine veinletssee description as per 6.0-141.9m161.1-179.1m -colour is more greyish and less green1-5% carbonate veins vary from 45° to core axis to parallel to core axis to contorted. 187.9-193.6 «3bx or 2bx??» Intermediate breccia (andesite composition?)almost rookes like an intensely silicified and bleached pillow breccia - pale green-beige5% (6cm x 6xm size) to (1cm x 1cm size) subrounded pseudofragments? with 2% quartz amygdules? grey in finer grain matrix193.6-206.9m -dunite. 206.8-206.8 « FAI » Fault.		"Sr" -fracture controlled rodingite alteration occurs: 145.0-145.5m, 158.9-159.6m, 159.9-161.1m. -sharp contact at 159.9m at 65° to core axis and at 161.1m contorted179.1-181.9m -rodingite alteration? or change in lithology? -creamy white to pale green colourvery siliceousfine graincolour changes 179.1-182.9m -cream pervasive rodingite181.9-187.9m -pale green colour187.9-193.6m -beige-green colour187.9-193.6m -beige-green colour187.9-193.6m -beige-green colour	-200.0-205.5m -<0.1% very fine disseminated pyrite (can only see with hand lense)205.5-205.9m -1-3% very fine disseminated pyrite? (can only see with hand lense)205.9-206.9m -<0.1% fine pyrite?	-145.0-153.0m -locally weakly to moderately broken rock177.0m -broken core. -195.5-195.8m broken core. take split AL02989 -205.5-205.6m -took sample for polished section to identify sulphidesat 206.8m -5mm of gouge weakly broken core.
206.90 TO 317.00	INTER- MEDIATE BRECCIA «3bx»	-sharp contact at 206.9m is contortedfine grainpale grey-green colour1-5% (average) locally up to 15%, mm wide contorted white carbonate ± quartz veinlets strongly fizzes with HCl acidcommonly veinlets cause insitu brecciation of host rock1-5% (mm x mm size) grey quartz subrounded amygdules (locally carbonate filled) (up to 1cm x 1cm size)varies from 5-10% subrounded to subangular clasts in a hyaloclastitic matrixclast size vary from 2cm x 4cm to 5mm x 5mm		«Si» -206.9-207.2m -strong pervasive silicification (white-cream colour) adjacent to contact with dumiteweak pervasive bleaching/silicification (rock is very hard to scratch with knife and looks very siliceous)locally weak fracture controlled sericite/epidote? yellow-green colour up to 1cm wide (not sure if these could be pillow selvages?).	1220.5-265.0 1-7% py» -overall less than 1% disseminated and blebs of pyrite, locally in carbonate veinletslocally 1-5% disseminated pyrite (very fine grain)220.5-265.0m -up to 7% pyrite, average 5% pyrite. 1232.7-243.6 1-1% pale red sphalerite in carbonate veins.	•

HOLE NUMBER: SO44-02

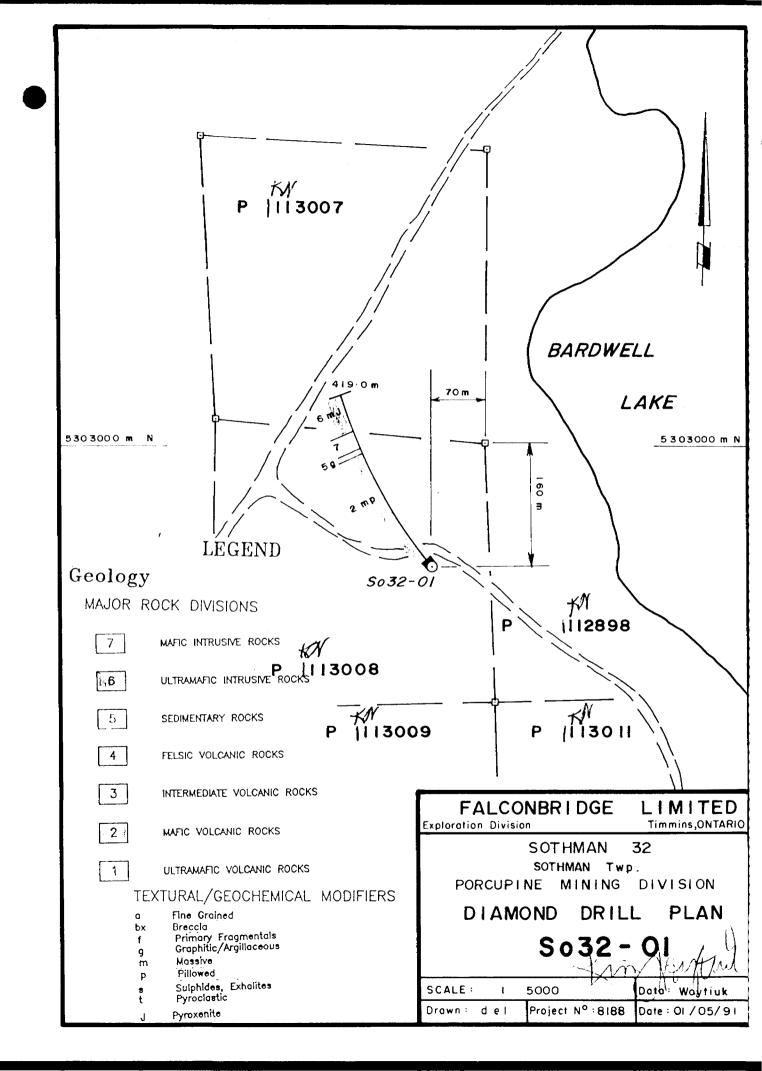
DATE: 27-May-1991

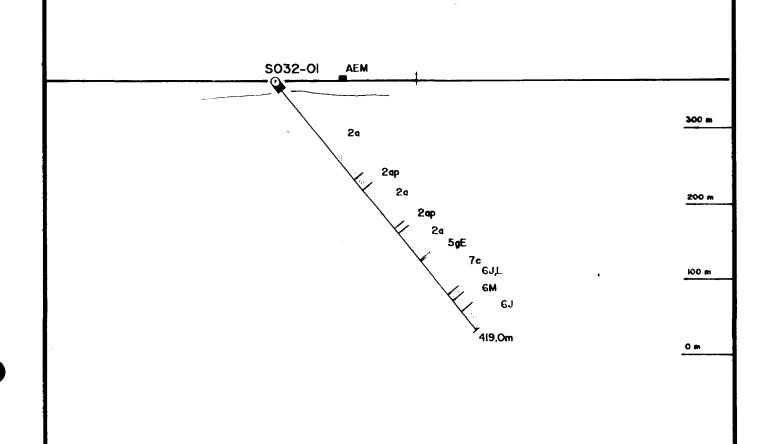
HOLE NUMBER: SO44-02

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		(average size is 1cm x 1cm)237.5-242.5m -more massive zone247.8-248.3m -1cm-3cm wide quartz carbonate vein at 10° to core axis with 1-5% pyrite in vein.		<pre> {251.0-260.0} -spotty to fracture controlled sericite alteration, increasing in intensity.</pre>	-232.8m -1 bleb of silver galena 5mm x 5mm in a carbonate.	
		{242.5-265.0 4 s2 45° x -242.5-265.0 m -up to 25% clasts and weak foliation varies from 10° to 45° to core axis265.0-on -not foliated, this is a really hard unit to describe.		·	-242.5-243.6m -overall less than 1% pale red sphalerite in mm wide carbonate veinlets and disseminatedless than 1% chalcopyrite (locally in blebs).	
		-265.0-300.0m -colour is pale grey and tooks more like a rhyolite breccia. -vitreous tooking. {300.0-317.0 dapbx» -300.0-317.0m -pillowed intermediate volcanic. -possible pillow selvages occur at 308.7-309.0m ((cm wide).		-265.0-317.0m -spotty and fracture controlled epidote?	-up to 10% pyrite/30cm intervals - very fine grain. -265.0-300.0m -1-5% pyrite - very fine grain. -300.0-317.0m -1-2% fine disseminated pyrite.	
	_	-carbonate and quartz filled amygdules up to 10% up to 1cm x 1cm in size.				
17.00 TO 17.00	E.O.H.					

HOLE NUMBER: SO44-02

DATE: 27-May-1991





MAIN ROCK BYTHSOME

IN PILLRIC SHTRUSTY ROCKS

B SHTRUMEDIATE SHTRUSTY ROCKS

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MI SHAPPE SHTRUSTY ROCKS

MI PILLRIC SHCRUSTY ROCKS

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FALCONBRIDGE LIMITED

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SECTION FOR

S032-01

LOOKING WEST

SCALE: 1 : 5 000

Data: Davis

Drawn: del

Project No :8188

Date: 11/04/90

HOLE NUMBER: SO32-01 PROJECT NAME: 8188

PLOTTING COORDS GRID: UTM

NORTH: 5302850.00N

EAST: 477550.00E

NORTH: 0+ 0

ALTERNATE COORDS GRID:

COLLAR DIP: -50° 0' 0" LENGTH OF THE HOLE: 419.00m START DEPTH: 0.00m

EAST: 0+ 0

LOCATION: 5W BARDWELL LAKE

ELEV: 351.00

ELEV:

FINAL DEPTH: 419.00m

DATE: 13-May-1991

METRIC UNITS: X

COLLAR ASTRONOMIC AZIMUTH: 320° 0' 0"

GRID ASTRONOMIC AZIMUTH: 320° 0' 0"

DATE STARTED: January 21, 1991 DATE COMPLETED:

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COLLAR SURVEY: NO MULTISHOT SURVEY: NO

ROD LOG: NO

PULSE EM SURVEY: YES PLUGGED: NO HOLE SIZE: NO

CONTRACTOR: NOREX

CASING: 12m left in hole.

IMPERIAL UNITS:

CORE STORAGE: METSITE

PURPOSE: Plastic pipe in hole.

DIRECTIONAL DATA:

DATE LOGGED:

epth (m)	Astronomic Azîmuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
60.00	326° 0'	-51° 0'	SING.SHOT	OK		-	-	-	-	-	
20.00	329° 0'	-51°30°	SING.SHOT			-	•	-	-	-	
40.00	332° 0'	-51* 01	SING.SHOT			-	•	-	-	-	
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HOLE NUMBER: SG32-01

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 12.70	OVERBURDEN « ob »					
12.70 10 165.34	MAFIC VOLCANIC «2a»	-medium to dark grey-green colourfine grained to medium grainedmassive texture2-10% chlorite grains ranging in size up to 2mm in diameter, possibly amygdulesspeckled texture with chlorite grainscrosscutting quartz-carbonate, epidote veins up to several centimetres wide associated with Py mineralization55.91-56.04m: -quartz-carbonate vein with a purple coloured band possibly fluorite71.20-72.13m: -insitu brecciation with clasts of host rock in quartz-carbonate matrix84.31-86.89m: -insitu brecciation of host rock by carbonate-quartz veining.		-moderate chlorite alteration with minor epidote veining and quartz- carbonate veining.	-1.0% to 0.1% disseminated and vein associated Py.	-first 1m core rubbly"speckled texture" was recorded in old drill logs.
165.34 10 182.87	PILLOWED MAFIC VOLCANIC «28p»	-light greyaphanitic to fine grainedmassive with pillow selvages, -some pillow selvages have development of hyaloclastic textures and flow top brecciano tops indicatorsminor amounts of amygdules near to selvagespossibly some blocks of medium grained material within pillowed zone.		-weak chlorite and epidote alteration. -spotty alteration associated with pillow selvages (light brown-grey colour).	-<0.1% disseminated Py.	
182.87 TO 247.64	MAFIC VOLCANIC «Za»	-medium to light grey-green colourfine grained to medium grainedmassive texture2-10% chlorite grains giving speckled appearancecrosscutting quartz-carbonate veins.		 -very weak silicification of upper contact with moderate chlorite alteration, weak epidote alteration and quartz-carbonate veining. 	-0.1% to 1.0% disseminated and vein associated Py.	,
247.64 TO 256.66	PILLOWED MAFIC VOLCANICS «2ap»	-light grey to medium grey colouraphanitic to very fine grainedmassive textures with pillow selvagesselvages have hyaloclastic textures and flow top texturesupper and lower contacts are hazyno tops indicators.		-weak chlorite and epidote alteration.		

HOLE NUMBER: SQ32-01

DATE: 3-May-1991

HOLE NUMBER: \$032-01

ANGLE FROM SUCK TO CA ALTERATION MINERALIZATION TO TYPE TEXTURE AND STRUCTURE REMARKS 256.66 MAFIC -light grey to medium grey-green colour. -moderate chlorite alteration. -<0.1% disseminated Py. -fine grained to medium grained. VOLCANICS 302.42 «2a» -massive texture. -<1.0% to 5% chlorite grains giving core a speckled texture. -crosscutting quartz-carbonate veins. -294.0-296.50m: -1-2% fracture -275.04-275.24m: -aphanitic flow top breccia controlled Po. with rounded clasts. -296.50-302.42m: -3-5% blebby Po. -becomes finer grained downhole to aphanitic near contact. -302.24-302.42m: -flow top or base breccia with matrix of graphite. 302.42 GRAPHITIC -<1.0% Py replacing clasts. -black colour. -strong carbonate veining. SEDIMENTS -aphanitic. 303.91 -large veins of carbonate brecciated unit. «5g» -clasts of graphite and mafic material within veins. -clasts are all angular to subrounded. -upper and lower contacts hazy due to carbonate veining. 303.91 ULTRAMAFIC -light grey to medium grey colour. -weak to moderate chlorite alteration. -<0.01% fracture associated Po. TO PLAGIO--coarse grained, massive. 361.28 CLASE -several crosscutting quartz-carbonate veins some PORPHYRY with pinkish colour. «1,6cq» -20-40% plagioclase grains up to 15mm in diameter. -leucoxene present throughout. -several intervals of fine grained massive unit, probably alteration recrystalization. -351.90-352.67m: -dark grey, fine grained alteration zone composed of chlorite and browngreen material. PYROXENITIC 361.28 -medium to dark grey colour. -moderate to weak serpentine KOMATTITE -fine grained to medium grained. alteration. 368.15 -massive texture. «1,6,J» -80-90% pyroxenes with intervals of olivine -olivine content increases downhole. -sharp upper contact with gabbroic textured unit. -gradational contact with peridotite.

HOLE NUMBER: SO32-01

DATE: 3-May-1991

HOLE NUMBER: SO32-01

DATE: 3-May-1991 ANGLE

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA		MINERALIZATION	REMARKS
		-weakly to moderately magnetic. -crosscutting green and white serpentine veins.				
368.15 TO 371.00	PERIDOTITIC KOMATIITE «1,6L»	-dark grey-green colourfine grained, massive texture80-90% olivineolivine content increases downholemoderately magneticgradational contact with dunitecrosscutting serpentine veins.		-strong to moderate serpentine alteration.		
371.00 TO 389.35	DUNITE «1,6H»	-dark green colourfine grained, massive texture>95% serpentinized olivinecrosscutting serpentine veins up to 4cm widestrongly magneticlower contact marked by rodingite dyke.		-strong serpentine alteration.		
389.35 10 419.00	PERIDO- TITIC/ PYROXENITIC KOMATILITE «1,6L,J»	-medium grey-green to medium light grey colourfine grained to very fine grainedmassive with polysutured texturesolivine and pyroxene content fluctuatesweakly magneticserpentine and calcite veins crosscut core axis at all angles389.35-380.76m: -light white-green coloured rodingite dyke, aphanitic393.50-393.74m: -light grey, aphanitic rodingite dyke397.66-398.78m: -insitu brecciation caused by rodingite veinlets and quartz-calcite veinlets605.91-408.55m: -very fine grained with original texture washed out by alteration.		-moderate serpentine and chlorite alteration. -389.35-389.76m: -rodingite alteration393.50-393.74m: -rodingite alteration397.66-398.78m: -partial rodingite alteration405.91-408.55m: -moderate silica alteration.	-397.66-398.78m: <0.01% disseminated Py.	
419.00 TO 419.00	E.O.H.		-			,







900

М	ini	ing	A	ct

Mining Act		Report of	of Work						
Name and Address of Recorded Holde	1								
		oneta Avenue	P.U.	ROX 11	140,	Tel	A21647 Telephone (NO5) 267-1188 Acrk Prefix Number April 10 August 10 Aug		
Timmins, ON, P4N 7H	9					10"		8	
Summary of Distribution of Cre	dits and Wo	rk Performance						A21647 hone (1005) 267-1188 Mining Claim Prefix Number	
Mining Division Porcupine		· · · · · · · · · · · · · · · · · · ·	Work Cr			Work			Work
Township or Area. (LL)		 			Number	Days OI.	Prenx	Number	Days C
(Porcupine) (Burrows, hwandtalliday Nursey)	Kemp)	See Attacr	ied List						
F 1 Claiment Chains Chairment						<u> </u>	ļ		_
Type of Work Performed		Total No of Days Performed Total No. of Days Co. Profix Number Days Cr. Profix Days							
(Check one only)					Ĺ	A21647 Telephone (NO5) 267-1188 Work Days Cr. Work Prefix Number Days Cr. Prefix Number Days Cr. A51 dys applied to clain Larder Lake Ing Claim No of Days Mining Claim No of Days Mining Claim No of Days Side) Res S064-01, S043-04, vision between o 5444.8 days of work 113192 (377.7m, 1239.2 dy); (S032-01): Pl13008 14455 (131.7m, 432.1 dy), Drilling Limited, n this job was a Boyles Model claims in Burrows and Kemp Recorded Holder or Agent (Signature) PAN 7H9 Certified By (Signature)			
Manual Work									
Shaft Sinking Drifting or other Lateral Work		i							
[Mechanical equipment					t		İ		1
Power Stripping other than Manual (maximum credit allowed - 100 day	s		1				•		
per claim) X Diamiend or other Core drilling							İ		
Core Specimens	\						!	<u> </u>	
[Core specifiens							İ		
Dates when work was performed		Tot	at No. of Day	s Performe	d Total No. of	Days Claimed	Total No.	of Days to be Cla	aimed at a
From: January 11, 1991To	:Februar	y 25, 1991 !	5444.8	lays	4593.E. A	197:8	45'Y'e d	ys applied	to cl
All the work was performed on M	ining Claim/s	Mining Claim	No. of Days N	lining Claim	No. of Cays M.	ning Claim			No. of Da
Indicate no. of days performed or (See note No. 1 on reverse side	each claim.	1					1	1 /5'	1
Migraficiaim No of Days Mining Clair	n No of D			-	k	ning Claim	No. of Days	Mining Claim	No of Di
PN 13008 1083.9 PN 130	07 290	.7P1114455	432.1	P11283	45 903.2				1
(\$044-02): P104362 (330.4m, 1083.9 dy	8 (126.8) Puli300	m, 416 dy) 7 (88.6m, 2	F 112919 90.7 dy	(190.); (SO	2m, 624 dy 43-04): P1); (S032 114455 (-01): 131.7m	P113008 , 432.1 dy	
P.O. Box 88, Porcu	pine, On	tario, PON	100. T	he mac	hine used (on this	job wa	s a Boyles	s Model
_	•	-							
					2229404		= •		ľ
townsuibs in rue r	uruei La	ve mining h	1110101	•					
Continuation of Basefield Later	201 * (0.2.2.1	lata Na O sa	10 roo = 1 d = 1						
I hereby certify that, at the time the wool work were recorded in the current re-	ork was perform	ned, the claims cover	red in this rep	ort Date	1. I e .	Reco	rded Holde	er or Agent (Sign	ature)
by the current recorded holder. Certification Verifying Report of	f Work					<u> </u>	5 1 19		
I hereby certify that I have a pers	sonal and intir				the Report of W	ork annexed	hereto, h	aving performer	d the work
or witnessed same during and/or Name and Address of Person Certifying		pletion and the an	nexed repoi	t is true.		<u> </u>			
,	9	eta Avenue,	P.O. B	ox_114	O, Timmins	, ON, P4	N 7H9		
		Telephon	e No.		Date	7		ly (Signature)	
For Office Use Only	es cos mero FATAD		water tree of the second	STREET TO THE					
Work Assignments	GIS	- ASSESSME	NT FIL	ES	Receiv	ed Stamp			
	- - -	JIII (15	1991		e de la companya de l				
					f 1				

CLAIM #	TOWNSHIP	DAYS WORKED
D1042424	COTUMAN	26
P1043624	SOTHMAN	26
P1043625	SOTHMAN	26
P1043626	SOTHMAN	26
P1043627	SOTHMAN	26
P1 11362 8	SOTHMAN	26
P1112988	SOTHMAN	21
P1112989	SOTHMAN	21
P1112990	SOTHMAN	21
P1112991	SOTHMAN	21
P1112992	SOTHMAN	21
P1112993	SOTHMAN	21
P1112994	SOTHMAN	21
P1112996	SOTHMAN	21
P1112997	SOTHMAN	21
P1113006	SOTHMAN	21
P1113007	SOTHMAN	21
P1113008	SOTHMAN	21
P1113009	SOTHMAN	21
P1113010	SOTHMAN	21
P1113011	SOTHMAN	21
P1112898	SOTHMAN	21
P1112901	SOTHMAN	21
P1112902	SOTHMAN	21
P1112903	SOTHMAN	21
P1112904	SOTHMAN	21
P1112906	SOTHMAN	21
P1112911	SOTHMAN	21
P1112912	SOTHMAN	21
P1112916	SOTHMAN	21

1.164

P1112919	SOTHMAN	21
P1112921	SOTHMAN	21
P1112922	SOTHMAN	21
P1112925	SOTHMAN	21
P1113192	SOTHMAN	22
P1113193	SOTHMAN	22
P1113194	SOTHMAN	22
P1113195	SOTHMAN	22
P1113197	SOTHMAN	22
P1114453	SOTHMAN	21
P1114454	SOTHMAN	21
P1114455	SOTHMAN	21
P1115082	SOTHMAN	21
P1115083	SOTHMAN	21
P1115084	SOTHMAN	21
P1115085	SOTHMAN	21
P1115086	SOTHMAN	21
P1127015	SOTHMAN	25
P1127016	SOTHMAN	25
P1127017	SOTHMAN	26
P1127018	SOTHMAN	26
P1127019	SOTHMAN	26
P1127020	SOTHMAN	26
P1127021	SOTHMAN	26
P1127022	SOTHMAN	26
P1127023	SOTHMAN	26
P1127024	SOTHMAN	26
P1127025	SOTHMAN	26
P1127026	SOTHMAN	26
P1127027	HALLIDAY	26

P1127063	SOTHMAN	26
P1127064	SOTHMAN	26
P1127065	SOTHMAN	26
P1127066	SOTHMAN	26
P1127067	SOTHMAN	26
P1127068	SOTHMAN	26
P1127069	SOTHMAN	26
P1127070	SOTHMAN	26
P1127071	SOTHMAN	26
P1127072	SOTHMAN	26
P1127073	SOTHMAN	26
P1127074	SOTHMAN	26
P1127094	NURSEY	26
P1127095	NURSEY	26
P1127096	SOTHMAN	26
P1127097	NURSEY	26
P1127098	NURSEY	26
P1127105	NURSEY	26
P1127106	NURSEY	26
P1127107	NURSEY	26
P1127108	NURSEY	26
P1127113	SOTHMAN	26
P1127114	SOTHMAN	26
P1127115	SOTHMAN	26
P1127116	NURSEY	26
P1127117	NURSEY	51.8 47.8 KM.
P1127118	NURSEY	66
P1127119	NURSEY	66
P1127120	NURSEY	26
P1127121	NURSEY	66

+

P1127122	NURSEY	66
P1127123	NURSEY	66
P1127124	NURSEY	66
P1127125	NURSEY	66
P1127126	NURSEY	66
P1127127	NURSEY	66
P1127128	NURSEY	66
P1127129	NURSEY	66
P1127130	SOTHMAN	26
P1127131	SOTHMAN	26
P1127132	SOTHMAN	66
P1127133	SOTHMAN	66
P1127134	SOTHMAN	66
P1127135	SOTHMAN	66
P1127136	SOTHMAN	66
P1127137	SOTHMAN	66
P1127138	SOTHMAN	26
P1127139	SOTHMAN	26
P1127140	SOTHMAN	66
P1114247	HALLIDAY	26
P1128320	SOTHMAN	26
P1128321	SOTHMAN	26
P1128322	SOTHMAN	26
P1128323	SOTHMAN	26
P1128324	SOTHMAN	26
P1128325	SOTHMAN	26
P1128326	SOTHMAN	26
P1128327	SOTHMAN	26
P1128328	SOTHMAN	26
P1128329	SOTHMAN	26

and a

P1128330	SOTHMAN	26
P1128331	SOTHMAN	26
P1128332	SOTHMAN	26
P1128333	SOTHMAN	26
P1128334	SOTHMAN	26
P1128335	SOTHMAN	26
P1128336	SOTHMAN	26
P1128337	SOTHMAN	26
P1128338	SOTHMAN	26
P1128339	SOTHMAN	26
P1128340	SOTHMAN	26
P1128341	SOTHMAN	26
P1128342	SOTHMAN	26
P1128343	SOTHMAN	66
P1128344	SOTHMAN	66
P1128345	SOTHMAN	66
P1128346	SOTHMAN	26
P1128347	SOTHMAN	66
P1128348	SOTHMAN	26
P1128349	SOTHMAN	26
P1171032	SOTHMAN	20
P1171033	SOTHMAN	20
P1171034	SOTHMAN	20
P1171035	SOTHMAN	20
P1171036	SOTHMAN	20
P1171037	SOTHMAN	20
P1171038	SOTHMAN	20
P1171039	SOTHMAN	20
P1171052	SOTHMAN	20
P1171053	SOTHMAN	20

1-1-

P1171054	SOTHMAN	20
P1171055	SOTHMAN	20
P1171056	SOTHMAN	20
P1171057	SOTHMAN	20
P1171058	SOTHMAN	20
P1171059	SOTHMAN	20
P1171107	SOTHMAN	20
P1171108	SOTHMAN	20
P1171109	SOTHMAN	20
P1171110	SOTHMAN	20
P1171115	SOTHMAN	20
P1171116	SOTHMAN	20
P1171117	SOTHMAN	20
P1156276	HALLIDAY	20
P1171943	SOTHMAN	20
P1171944	SOTHMAN	20
P1171945	SOTHMAN	20
P1171946	SOTHMAN	60
P1171947	SOTHMAN	60
P1171948	SOTHMAN	<u>20</u>

TOTAL DAYS 4997.8 4993. 8 KW

Instructions
Please type or print.
For each type of work performed, a separate Report of Work should be completed.
For Geo-technical work, use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical") and form no. 878 for Expenditures.
Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Mining Act	Report o	f Work			•					
Name and Address of Recorded Holder Falconbridge Limited,	571 Moneta Avenu	e. P.O. E	lox 1	140,			Prosp	pector's Lie		
							Telep	A210	5)267-118	^
Timmins, ON, PAN 7H9	nd Mark Darfarmana							(70	0)207-118	8
Summary of Distribution of Credits a Mining Division	Mining Claim	T Martin		Mining Clain	n	14/2		Mi	ning Claim	1
Larder Lake (LL)	Prefix Number	Work Days Cr.	Prefix	Nun		Days		Prefix	Number	Work
(Porcupiane) (Burrows, Kemp) See At	tached L	st							
hman Halliday Nursey)							-			
451		T		i			-			
Type of Work Performed (Check one only)								·		.
Manual Work						+				.
Shaft Sinking Drifting or other		+				<u> </u>				
Mechanical equipment				: 		ļ				
Power Stripping other than Manual (maximum credit allowed - 100 days		- -					-			-
per claim)		<u> </u>				 				
X Diamond or other Core drilling				ļ			_ }			
Core Specimens				<u></u>						_i
Dates when work was performed	Tota	I No. of Days F	erforme	d Total	No. of Day	vs Claim	ned !	Total N	Days to be Cl	aimed at a
From:January 11, 1991to: Feb	raury 25, 1991 5	444.8 da	ys		451		2	Future Dat 199 2. 8	e dys appl	ied t
All the work was performed on Mining (Claim(s): Mining Claim	No of Days Minir	a Claim	No. of	Days Mining	Claim		claims	in Porçu	
Indicate no. of days performed on each * (See note No. 1 on reverse side)		455.7 P1).2 P1		28	416	P1112919	62
Mining Claim No of Days Mining Claim		No of Days Minir			Days Mining	g Claim	l -	No of Days	Mining Clarm	No of E
	290.7P1114455	432.1 P1	12034	45 903.						
S044-02, and S032-01 in January 11 and February lies within claims: (S0 1239.2 dy); (S044-02): (S032-01): P113008 (330 P1114455 (131.7m, 432.3 by Norex Drilling Limit on this job was a Boyle contiguous claims in S0	7 25, 1991. This 264-01): P1171944 P1043628 (126.8m D.4m, 1083.9 dy) D.4m, 1083.9 dy) D.4m, P1128345 (D.4m, P.O. Box 88. Des Model BB537 w	meterag (138.9m n, 416 dy R113007 (275.3m c Porcupi ith a 12	e equ , 459) P1 (88.0 r 90 ne, 6	uivaler 5,7 dy 12919 (6m, 290 3.2 dy ON, POI ead. 1	nt to) P111 (190.2).7 dy). Th N 1CO. Work i	5444 3192 m, 6); (le ho Th s be	.8 (3 24 (504 1e (e m	days c 77.7m, dy); 3-04); was dr achine app1i	: rilled e used ied to	
Division.								_		
Certification of Beneficial Interest * I hereby certify that, at the time the work wa	s performed, the claims covere	ed in this report	Date			F	lecord	ied Holde	r or Agent (Sigr	ature)
of work were recorded in the current recorded by the current recorded holder.	holder's name or held under a b	eneficial interest	11	. 75			.	_		
Certification Verifying Report of Wor										
I hereby certify that I have a personal a or witnessed same during and/or after Name and Address of Person Certifying	and intimate knowledge of			the Done	rt of Work	k annai	ked h	iereto, ha		
	its completion and the ann	the facts set exed report is	forth in true.	me nepo						d the wor
3.2 × 3.7 %× 57	1, Moneta Avenue	P.O. Bo	x 11		mmins		 . <u>P</u> 4	IN 7H9	(Signature)	d the wor
	1, Moneta Avenue	P.O. Bo	x 11	.40,_Ti	mmins		 . <u>P</u> 4	IN 7H9		d the wor
For Office Use Only Work Assignments	1, Moneta Avenue	P.O. Bo	x 11	40,_Ti Date	mmins	,_ON ,	P4	IN 7H9		d the wor

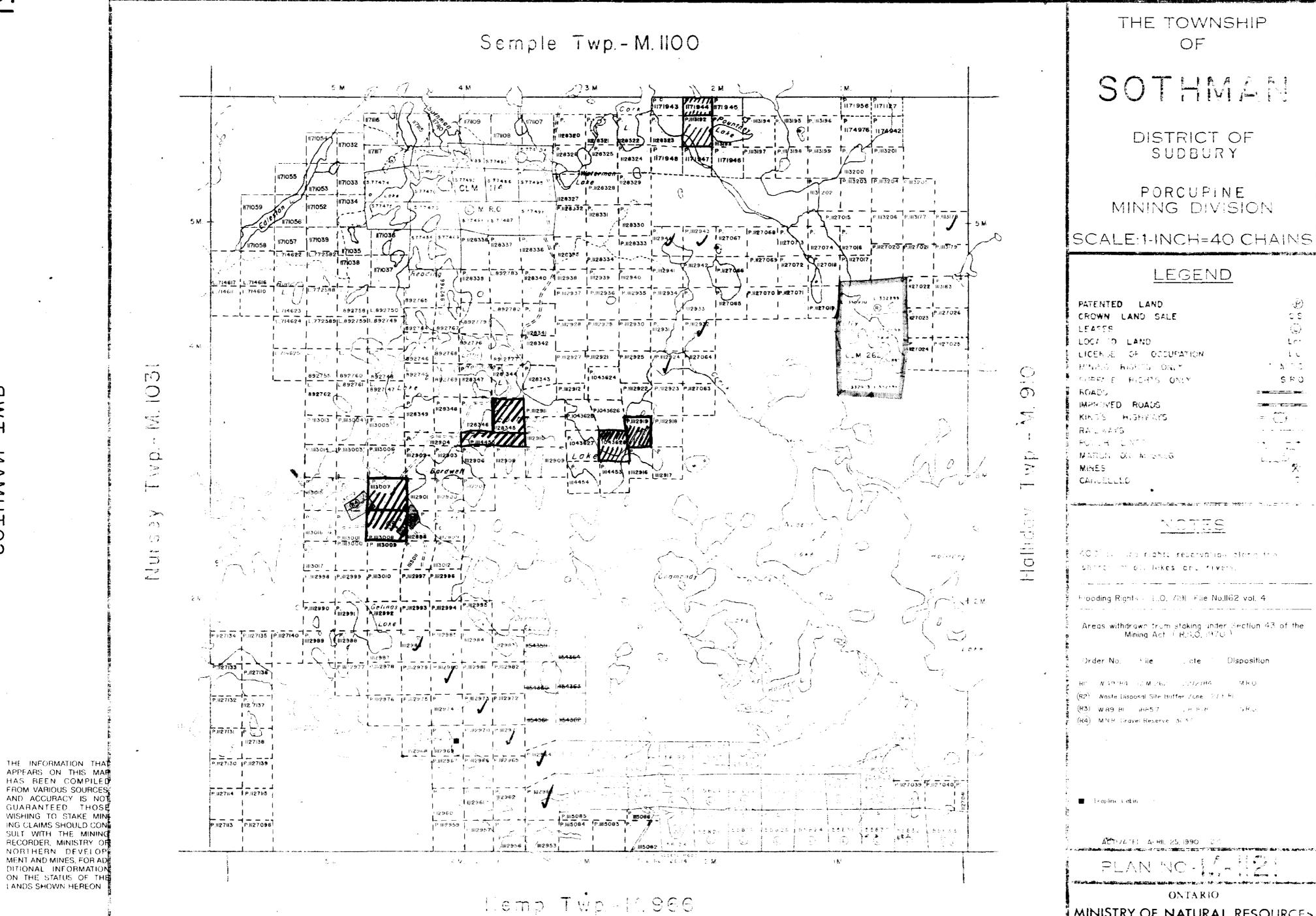
CLAIM #	TOWNSHIP	DAYS WORKED
L1127100	BURROWS	23
L1127101	BURROWS	23
L1127102	BURROWS	23
L1127103	BURROWS	23
L1127104	BURROWS	23
L1127109	BURROWS	23
L1127110	BURROWS	24
L1127111	BURROWS	24
L1127112	BURROWS	23
L1127091	BURROWS	24
L1127092	BURROWS	24
L1127093	BURROWS	24
L1127099	BURROWS	23
L1036131	KEMP	21
L1036132	KEMP	21
L1036133	KEMP	21
L1112948	KEMP	21
L1112949	KEMP	21
L1112950	KEMP	21
L1112951	KEMP	<u>21</u>

TOTAL DAYS 451

PATENTED LAND	;
CROWN LAND SALE	2
FEATES	Ç
LOCA TO LAND	Ł
LICENUE OF OCCUPATION	į.
Missio ROPI'S ONEY	• •
SUMPLE POSTS ONLY	5 F
ROADU	
IMPROVED ROADS	
KINGS HIGHWAYS	
RAIL MAYS	
FOLK LATT	• • •
MARCH ON BOSECS	L. June
MINES	
CANUELLLD	

Areas withdrawn trum staking under Section 43 of Mining Act (R.S.O. 1970)

MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH



1

ALLIDAY TWP.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

HUTT Twp. M-943 ~ 1 M** 984202 943533 943532 98468 943534 SOTHMAN Dumbell Lake 1171492/1171493 127042 171509 1171508 1171507 1171501 1171500 127043 | 127044 479 50 35" MOND Twp. M-870

NOTES

are compa

400 surfact, rights lakes and rivers.

AREAS WITHDRAWN FROM DISPOSITION.

M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+S. - MINING AND SURFACE RIGHTS

TION ORDER NO. DATE DISPOSITION

NRW48/84 FEEL 22/94 MJR.O.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOP

DITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

DISPOSITION OF CROWN LANDS

PATENT, SURFACE AND MINING RIGHTS

, SURFACE RIGHTS ONLY

, MINING RIGHTS ONLY

LEASE, SURFACE AND MINING RIGHTS

, SURFACE RIGHTS ONLY

, MINING RIGHTS ONLY

LICENCE OF OCCUPATION

HIGHWAY & ROUTE NO.

ROADS

ROADS
TRAILS
RAILWAYS
FOWER LINES
MARSH OR MUSKEG
MINES

*used only with summer resort locations or when space is limited

TOWNSHIP OF

HALLIDAY

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1 INCH = 40 CHAINS (1/2 MILE)

DATE FEB 2, 7; PLAN NO. NI-SIO

4 > 10 M

MINISTRY OF NATURAL RESOURCES

SURVEYS AND APPING BRANCH

ONTARIO

AIRIANNAAA SE SOTHAAN

210

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. — MINING RIGHTS ONLY

8.R.O. — SURFACE RIGHTS ONLY

M.+ S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition F

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE

WISHING TO STAKE MIN-

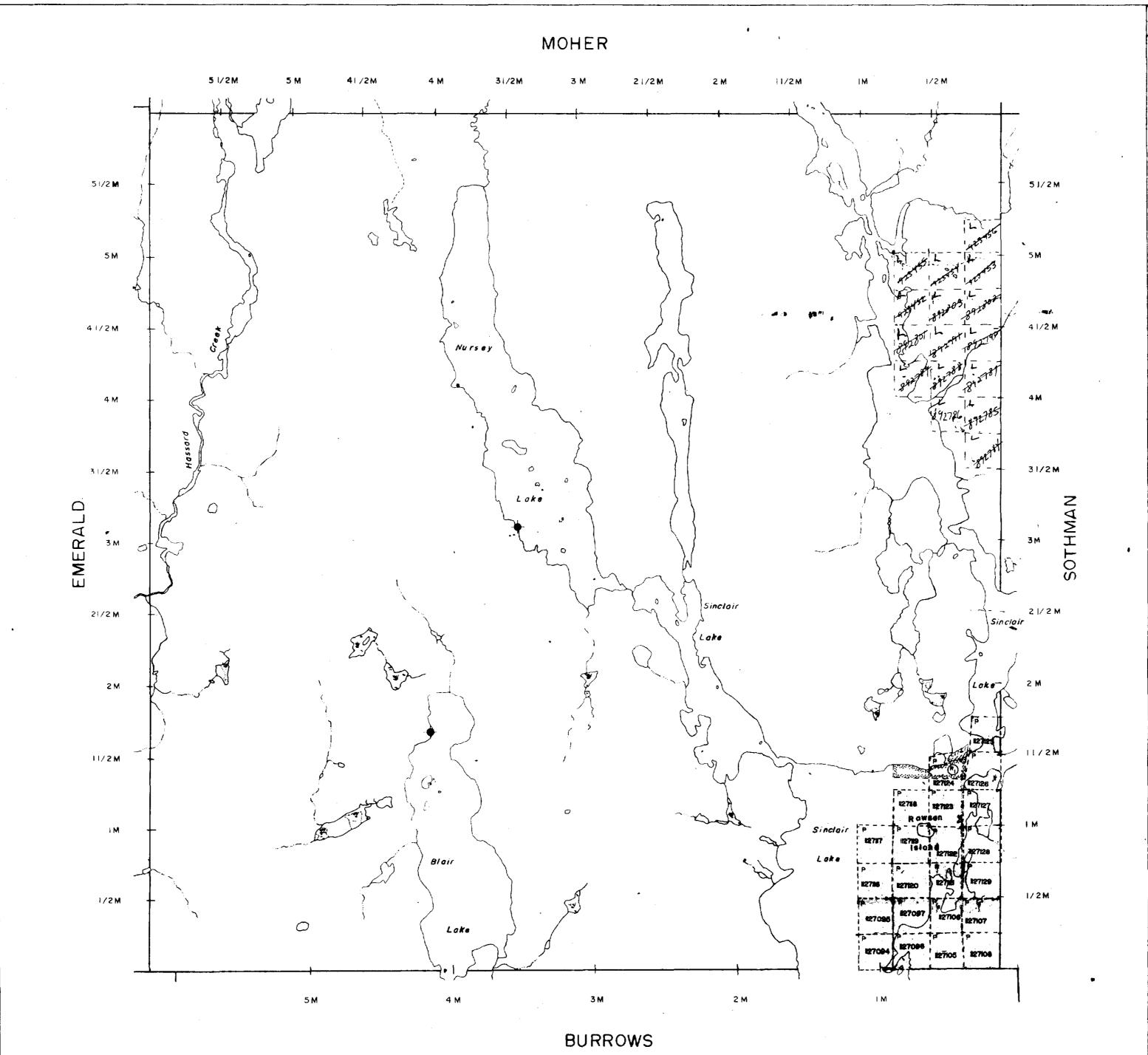
ING CLAIMS SHOULD CON-SULT WITH THE MINING

RECORDER, MINISTRY OF

NORTHERN DEVELOP-MENT AND MINES, FOR AD-

DITIONAL INFORMATION

ON THE STATUS OF THE LANDS SHOWN HEREON.



LEGEND

HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC -UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT * REMOTE TOURIST CAMP

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	•
" SURFACE RIGHTS ONLY	•
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	🗂
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	·
ORDER-IN-COUNCIL	oc
RESERVATION	• • • • • • • • • • • • • • • • •
CANCELLED	_
SAND & GRAVEL	_

SCALE: 1 INCH = 40 CHAINS

FFET

0 1000 2000 4000 6000 8000

0 200 1000 2000

METRES (1 KM) (2 KM)

LANDS ACT. R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

TOWNSHIP

NURSEY

TWP.

M.N.R. ADMINISTRATIVE DISTRICT

GOGAMA

PORCUPINE

SUDBURY



Ministry of Land
Natural Manage

Management Reanch

Ontario

Resources Branch

Data AUGUST 20,1982

G-2282

