



41016SW0047 21 HEENAN

010

DIAMOND DRILLING

Township: Heenan

Report No: 21

WORK PERFORMED FOR: Falconbridge Ltd.

RECORDED HOLDER: SAME AS ABOVE [X]

: OTHER []

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 553233	668-18-85	747'	May-June/85	(1)
P 553224	668-17-85	456'	June/85	(1)
	668-16-85	497'	June/85	(1)
P 554670	668-15-85	527'	July/85	(1)
P 554699	668-14-85	389'	July/85	(1)
P 554695	668-13-85	457'	June-July/85	(1)

3073'

6

NOTES: (1) #321-85

Drilled by: Morissette Diamond Drilling

Property: P 668

Latitude: B.L. 100+00 5

Longitude: 278+28 W

Started: MAY 28/85

Township: HEENAN N.T.S 41016

Azimuth: 180°

Dip: COLLAR - 45°
400' - 38° (corr.)

Ended: June 2/85

Logged by: B. MANCHUK

Élévation:

Length: 747'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH					
0	12.0	CASING (rock at 7.0')									
7.0	8.6	Massive Tholeiite. Dark green, fine grained, non magnetic, no sulfide									
8.6	13.5	Grey Feldspar Porphyry Massive, generally grey, 30% - 40%, 2-3 mm. anhedral-subhedral feldspar phenocrysts. Matrix fine grained, slightly granulated, pale brown surrounding phenocrysts (sericite?). no sulfides.									
13.5	16.6	Tholeiite Fairly massive, dark green, fine grained, slightly chloritic, several 1 mm fractures at 45° to core, some irregular. Fractures (qtz-carbonate) 0.5% py along some fractures.									
16.6	30.8	Grey Feldspar Porphyry Generally grey, weakly foliated at 35° to core, 30% 1-2 mm. anhedral (granulated appearing) greenish white feldspar phenocrysts, 15% 2 mm. long anhedral amphibole laths imparting weak foliation. Matrix fine grained, greyish, granulated. Numerous (~ 1" spacing) hairline to 2 mm qtz veins at 20° to 45° to S.A. (most at 45°) Some pink potash or hematite staining away from fractures giving pinkish cast to core. Up to 0.5% py as disseminations accompanying fractures. Distinctive chilled contact at 16.6' Fractures cross cut Amphibole fabric.									

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
30.8	37.5	Tholeiite cls from 13.5-16.6								
37.5	45.4	Feldspar Porphyry MASSIVE, generally grey, 20% subhedral 1-2mm white feldspar phenocrysts; 15% anhedral lathlike amphibole crystals (1-2mm). Matrix fine grained. Several hairline to 2m.m. qtz - carb fractures at 45° to c.a. with accompanying potash or hematite staining away from fractures imparting a pinkish cast which obliterates primary textures in placos. 0.5% - 1% py in placos. Distinctive contact at 45.4.								
45.4	50.2	Tholeiite cls from 13.5-16.6								
50.2	54.0	Feldspar Porphyry cls from 37.5 to 45.4								
54.0	84.0	Tholeiite Fine - medium grained, distinctive amphibole phenocrysts at 35° - 45° to c.a. giving cloudy fabric 54.0 - 64.5 pinkish cast to matrix 64.5 - 84.0 tholeiite, massive, dark green generally 0.5% - 1% py. over section								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
84.0	90.4	Tuffwacke Massive, fine grained, greyish-pink with 1 m.m. irregular white voids (solution feature). odd speck py.								
90.4	109.8	Tuffwacke Green to grey, strongly foliated or bedded at 40° to C.A.. Grey layers appear lensoid (ripples?) fine grained, sandy. Green layers 1/2" thick more strongly foliated and chloritic. 102.0-109.8; 3-5% py. as dusty irregular dissemination. Odd speck of po.								
109.8	114.0	Sandstone (Arenite) Massive, pale green to tan, fine grained. Occasional 1 m.m. gtz vein with potash or hematite stain at edges. Possibly highly altered porphyry.								
114.0	116.6	Tuffwacke As from 90.4-102.0								
116.6	122.0	Banded Iron Formation Myt. Chert, Myt. Py. Po 70; 24; 3; 3. Banded at 50°-60° to C.A. Beds	716.6 8501	122.0 116.6	511 122.0	5.4				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		paper thin to 2". Chert occurs as gray and white bands. Mgt. mostly as diss in gray to black chert beds, but occasionally more massive. Py and Po as irregular 1 mm beds and as hairline fracture filling in chert beds. Some rip up structures in chert beds.								
122.0	134.7	Feldspar Porphyry Generally pinkish to buff colored. Primary textures obliterated by sericitisation and potash on hematite flooding. In places, relict anhedral 1-2 mm. feldspar phenocrysts can be observed. Numerous hairline to 2mm. ytz-carb filled fractures at 30° to c.a. 1-2% py. AS, dusty disseminations and irregular microveins.								
134.7	140.7	Banded Iron Formation Chert, Mgt, Py, Po; 40; 50; 4; 6 Cls from 116.6-122.0 except Po and Py as 1-2" semimassive bands in places. Po also as irregular massive stringers in disrupted chert beds. Beds somewhat contorted at 30° to c.a. individual Po beds R= 5-20 chas	8502	134.7	140.7	6.0				
140.7	147.0	Grey Feldspar Porphyry Cls from 8.6 to 13.5 except patchy sections bleached (sericitised) along fractures at 45° to c.a. Generally 50% anhedral								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		to subhedral white feldspars in a fine grained grey matrix. 10% (1 mm.) amphibole xls. 0.5% py as diss.								
147.0	157.2	Quartz-feldspathic ss? Altered feldspar porphyry? Creamy buff color, altered, silicified, several qtz. - carb veins at 35° to C.A. 149.0-152.0 20% sulfides as semi massive diss. from 149.0-150.0; 151.0-152.0. Appears to be bedded at 45° to C.A.	8503	149.0	152.0	3.0				
157.2	173.3	Banded Iron Formation Mgt., chert, wacke, Po, Py; ss, 30, S, 8, 2 Generally well bedded, paper thin to 3" at 38° to C.A., gray to black. Odd thin wacke layer, gray, fine grained. Po generally occurs as 1 mm. to 2 cm. massive bands or as irregular massive layers with floating chert fragments Most Po beds are conformable to bedding, however occasionally massive stringers cross cut bedding. Py generally occurs as discrete 1 mm beds with Po. Most chert probably has some sandy component. Individual Po beds R= 0 to 5 ohms	8504 8505 8506	157.2 162.0 167.0	162.0 167.0 173.3	4.8 5.0 6.3				
173.3	176.8	Feldspar Porphyry Pink, highly fractured, 10% irregular qtz. veins. 2% py. as cubic diss. within porphyry and accompanying qtz veins. Original	8507	173.3	176.8	3.5				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ppb.			
		texture obliterated, however, occ. phenocryst v.s. ble.								
176.8	182.0	Banded Iron Formation - as from 157.2-173.3. Bedding at 50° to c.a.	8508	176.8	182.0	5.2				
182.0	190.3	Mg. Tholeiite. Massive, dark green, fine grained, highly chloritized B.I.F. inclusions? from 182.6-183.4; 189.7-190.3; B.I.F. with 8% po, 2% py.	8509	182.0	190.3	8.3				
190.3	197.0	Feldspar Porphyry Massive, grey to pink, granular appearing, original texture obliterated. Occ. 1 mm. Qtz. vein at 45° to c.a. 5% py as dis.								
197.0	242.5	Banded Iron Formation - as from 157.2-173.3. Po mostly as fairly regular massive beds 1 mm. to 1" thick. Occasionally Po ramified into fractures or has B.I.F. fragments in it. Individual Po beds R= 'o' ohms 197.0-220.0 very regular bedding paper thin to 2" at 55°-60° to c.a. Occasional hematite bed. 213.0-215.0 wacko bed, massive, dark green chloritic. 215.0-242.5 disrupted B.I.F. Irregular bedding, somewhat brecciated, however occasionally bedding observed at 60° to c.a. 234.5-236.0 Feldspar porphyry. At 238.8 irregular seams of sphalerite with Po.	8510 8511 8512 8513 8514 8515 8516 8517 8518	197.0 202.0 207.0 213.0 218.0 223.0 228.0 233.0 238.0	202.0 207.0 213.0 218.0 223.0 228.0 233.0 238.0	5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 4.5				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
242.5	279.0	Feldspar Porphyry Bleached, sericitised, tan colored, obliteration of primary textures by alteration although individual 1mm pheno's can be observed. Numerous hairline to 1mm gtz-carb. fractures at 40° and 50° to c.a. from which the above alteration spreads. Also minor potash or hematite staining away from fractures. Approx 0.5% py. as clss.								
279.0	297.0	Banded Iron Formation Generally black to gray, Chert, mg, P, Py. 60; 33, 5, 2. Chert, dark gray to black. Some disruption of beds although general trend at 40° to c.a. Po occurs as 1-3 mm thick beds, stringers and lenses generally conformable to bedding, although somewhat remobilised into fractures. Individual Po beds R= 0° shms. Py occurs as in fractures or as blebs accompanying Po.	8519 8520 8521	279.0 284.0 289.0	284.0 289.0 297.0	5.0 5.0 8.0				
297.0	307.0	Feldspar Porphyry - as from 242.5 - 279.0								
307.0	349.0	Banded Iron Formation 307.0-329.5 As from 279.0-297.0. slightly more distorted. Generally black, magnetic. Banding mostly at 60° to c.a. Chert, mg, P, Py 65, 19, 6, 6 Po and Py occur as irregular semi	8522 8523 8524 8525 8526 8527	307.0 312.0 319.0 325.0 329.4 335.0	312.0 319.0 325.0 329.4 335.0 340.0	5.0 7.0 6.0 4.4 5.6 5.0				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		MASSIVE bands and seams generally concordant to bedding but somewhat randomised into fractures on surrounding fragments in disrupted beds.	8528	340.0	346.0	6.0
		329.5 - 335.0 Chert, argillite, mgt. 20, 70, 10. Somewhat disrupted. Bedding at 45° to c.A.	8529	346.0	349.0	3.0
		335.0 - 340.0 Bracciated, disrupted black and buff chert layers. (carbonated?) Numerous hairline fractures with carbonate. 3% py at dirty diss.				
		340.0 - 346.0 Bx, chert mgt, arg. Py 25, 10, 50, 5				
		346.0 - 349.0 as from 335.0 - 340.0 (3% Py)				
349.0	370.0	Tuffwackes	8530	354.0	358.0	4.0
		349.0 - 352.0 Tuffwacke, pale green, fine grained arenaceous arenaceous.				
		352.0 - 354.0 Bracciated feldspar porphyry; generally 1/4" to 2" angular fragments (60%) in fine grained dark grey matrix.				
		354.0 - 358.0 Tuffwacke (^{arenite} argillite) buff colored, bracciated with irregular gtz veins or chert frags. at 35° to 45° to c.A. 5% py in matrix.				
		358.0 - 361.0 Tuffwacke, 40% ^{arenite} argillite fragments as stratified lenses 1/4" to 2" fragments pale grey, fine grained. Matrix strongly foliated, chloritic, medium green with buff w.spy lenses (carbonate). Foliation pervasive and paper thin at 55° to c.A. Odd speck py.				
		361.0 - 370.0 graywacke, f.g., strongly foliated				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
370.0	385.0	Rhyolite Tuff. Creamy white to buff colored, matrix grey, siliceous. Strongly foliated at 50° to c.a. (upper schist). Sericitic. Rhyolitic fragments buff colored with 3-4% 1mm qtz eyes. 2% eyes also in matrix. < 0.5% py								
385.0	429.0	Tuffwacke. Fairly massive, some sections strongly foliated at 60°-65° to c.a. Generally dark green with detrital grains of fine grain (c. 5mm) gray feldspar (30%) in a chloritic matrix. with pervasive 5% carbonate flakes. Odd speck py. Occasionally odd bed of grey to buff f.g. qtz.								
429.0	435.5	Sandstone (arenite) Pink, massive, fine detrital grains of quartz. Occasional 3mm qtz. veins at 20 or 50° to c.a. from which potash or horn. spreads. 434.0-435.5 grey sandstone.								
435.5	452.8	Tuffwacke - as from 385.0-429.0. Foliation at 70° to c.a. Distinct banding in places at 80° to 90° to c.a. 435.5-440 somewhat shaly, irregular carbonate veinlets.								
452.8	459.5	SANDSTONE (arenite) pink - as from 429.0-435.5								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
459.5	473.0	Tuffwacke. - as from 385.0-429.0. Bedding at 60° to c.a. 469.0-472.0 pale brown quartzite.								
473.0	494.0	Rhyolite Tuff. Grey, strongly foliated at 55° to c.a. 60% distinct highly stretched rhyolitic fragments with 1mm. qtz eye Qtz eyes also in matrix. Odd speck py.								
494.0	503.0	Tuffwacke. Massive, f.g., dark green, no sulfides								
503.0	520.0	Sandstone (arenite) Pink, several 1mm fractures at 30° to c.a. filled with qtz-carb. Other fractures at 60° to c.a. filled with chlorite from which potash or horn. stains core. Unaltered sections gray in color								
520.0	525.0	Gray wacke Massive, f.g., gray-brown. odd speck py.								
525.0	533.0	Tuffwacke - as from 473.0-494.0, more chloritic - 0.5% py. Distinctly fragmental.								
533.0	540.0	Tuffwacke - as from 385.0-429.0.								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
540.0	547.0	Tuffwacke. Cl's from 525.0 - 533.0.								
547.0	571.0	Graywacke. Massive, fine grained, grey to green, 5% carbonate flakes in matrix. Distinct bedding at 55° to c.a. Pervasive weak foliation at 55° to c.a. Somewhat chloritic. Odd speck py.								
571.0	598.0	Tuffwacke, Rhyolite lapilli Tuff. Distinctly fragmental with 50% 1/4" to 2" gray rhyolitic fragments with occ. gtz eyes on sandy gray fragments highly stretched at 60° to c.a. Matrix, med green, chloritic, with streaks of carbonate. 10% py in some massive layers 1 mm to 2 inches or as clotted clts. in matrix on surrounding fragments. Minor Po accompanies py.	8531 8532 8533 8534 8535	571.0 578.0 583.0 588.0 593.0	578.0 583.0 588.0 593.0 598.0	7.0 5.0 5.0 5.0 5.0				
598.0	610.6	Tholeiite Massive, med gr., matrix altered to salty mass. 15-20% amphibole phenos. (anhedral) 1-2 mm. Odd speck py. Possibly altered graywacke.								
610.6	630.0	Rhyolite lapilli tuff Distinctly fragmental, 60-70% rhyolitic and sandy fragments at times fragment supported. Fragments grey (sandy) or buff with gtz. eye (rhyolitic) Matrix pale green, chloritic with								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		6% carbonate as 1 m.m. stringers. Strongly foliated at 65° to c.a. Fragments stretched 4 to 1. Perhaps a protolahn.								
630.0	636.0	Greywacke. Massive, grey, fine - malgrained.								
636.0	640.0	Rhyolite Lapilli Tuff. - as from 571.0 - 598.0								
640.0	644.4	Greywacke - as from 630.0 - 636.0								
644.4	659.0	Quartz eye rhyolite. Fairly homogeneous, pale green intensely foliated at 50° to c.a. 20% rounded 3-5 mm augen like qtz eyes in a sheared pale green sericitic matrix. In places ghost like fragments visible. Possibly sheared fragmental								
659.0	666.0	Feldspar Porphyry Fairly massive, pink, altered matrix (potash or hon. stain. Relict 2 m.m. feldspar phenos visible. Possibly altered greywacke. although contacts look intrusive.								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
666.0	687.0	Quartz eye rhyolite. -as from 644.4-659.0								
687.0	705.0	Aronite Fine grained, grey with ghost like grey rhyolitic fragments. (protolite?) no sulphides.								
705.0	746.0	Rhyolite Tuff Pale white to grey. Distinctly fragmental in places. (1" to 4" fragments). Fragments pale white aphanitic with gr. eyes. Matrix fine grained chloritic in places. Generally 70% fragments stretched at 50°-60° to c.a. 1% py 734.0 - 746.0								
746.0	747.0	Aronite fine grained, pale green, distinctive bedding at 60° to c.a								
	747.0	End of hole Bennett Sept 12/85								

Drilled by: Monisette Diamond Drill Co.
 Started: June 18/85
 Ended: June 22/85

Property: Hoenan Marion Area (P668)
 Township: HOENAN
 Logged by: B. MANCIVIC

Latitude: L 108 + 00 S
 Azimuth: 180°
 Elevation:

Longitude: L 118 + 00 W
 Dip: coil. 45°, 300' 41"
 Length: 456'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	32.0	Casing				
32.0	60.0	Tholeiite Massive, med green, mag. no sulfide.				
60.0	94.8	Quartz Feldspar Porphyry Massive, pink - deep pink to bleached portions. 15% 1mm-2mm anhedral grey quartz exs, 10% creamy green anhedral feldspar phenos (2mm). Matrix, aphanitic, pink. Hem or potash stain away from fractures at 30° to C.A. Weak, pervasive fabric cross cuts above fractures at 45° to C.A. (D. axial ~ 80°); 820-94.8 5% 1cm. gtz veins parallel to or at 20° to C.A. Overall 0.5% py AS 0.5 mm cubic cliss.				
94.8	97.6	Banded Iron Formation Ch, mgt, Py 60, 20, 10, well bedded at 48° to C.A. Py in 3mm to 3cm massive to semi massive beds R= 700-1000 ohms. Py also remobilised into fractures	8574	94.8	97.6	2.8
97.6	112.0	Hornblende Porphyry Massive, grey, 15% anhedral chloritized, 3mm amphibole phenocrysts. Matrix fine grained, crystalline appearing (bleached) no sulphides				
112.0	221.5	Banded Iron Formation Ch, mgt, py, po, 25, 13, 10, 7 Generally brecciated, slumped appearing with Py and Po occurring as massive to semi massive interbeds 1m to 4 inches. Numerous irregular stringers and blebs of Py with Po throughout section. Py and Po also occur as cliss in mgt. Py and Po remobilised somewhat into fractures	8575 76 77 78 79 80 81 82 83	112.0 118.0 124.0 128.0 132.0 137.0 142.0 147.0 162.0 166.0 170.8 174.2	118.0 124.0 132.0 137.0 142.0 147.0 166.0 170.8 174.2	6.0 6.0 4.0 5.0 5.0 5.0 4.0 4.8 3.4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		Chert grey to white, cryptocrystalline Well defined bedding as follows. 50° to C.A at 122' 50° at 158', 55° at 198', 15° at 215'	8584	193.0	198.0	5.0
			8585	214.5	217.0	2.5
		8575 ch, mgt, py, po 45, 35, 25, 5 Py as 1/2" irreg. stringers				
		8576 " " " " 50, 35, 15, 0				
		8577 ch, mgt, py 90, 5, 5 Py coarse irreg beds R=2000				
		8578 " " " " 87, 5, 8 R=1500 ohms				
		8579 " " " " 90, 5, 5 R= " "				
		8580 " " " " 87, 5, 8				
		8581 ch, mgt, py, po 80, 2, 15, 3 Sulfides as 1" to 4" Semi massive beds with mgt. R= 5 to 10 ohms				
		8582 ch, mgt, py, po 85, 10, 3, 2				
		8583 " " " " 20, 20, 8, 3 Py as stringers R= 4 ohms				
		8584 " " " " 25, 60, 10, 5 one 3" mass pytpc bed R= 2 ohms				
		8585 ch, mgt, py 75, 10, 15 Some semi massive beds of Py. R= 3 ohms				
221.5	231.0	Feldspar Porphyry Massive, grey, 10% 2mm. anhedral pale green feldspars, 10% 0.5mm chlorite spots. f.g. matrix. no sulfides.				
231.0	278.5	Banded Iron Formation Generally, fairly well bedded 1/2" to 4" but some disrupted beds. Chert layers grey to white, cryptocrystalline. Py as massive 3" beds generally with some magnetite or as coarse irregular disseminations and 1/4" beds in magnetite. Where disrupted chert floats in magnetite 258' bedding at 420 to C.A, 50° at 268'	8586	235.0	238.0	3.0
			87	244.0	246.0	2.0
			88	250.0	252.0	2.0
			89	264.0	267.0	3.0
			90	267.0	273.0	6.0
			91	273.0	277.5	4.5
		8586 ch, mgt, py, po 10, 75, 10, 2 Massive mgt. with 2mm. beds sulfide R= 2-20 ohms				
		8587 ch, mgt, py 80, 5, 15 R= 300-700 ohms				
		8588 " " " " 80, 12, 0				
		8589 " " " " 70, 15, 15 R= 400-1500 ohms				
		8590 " " " " 80, 17, 3				
		8591 " " " " 35, 20, 45? (check core box)				

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
278.5	286.0	Quartz Feldspar Porphyry Strongly foliated at 45° to c.A. (paper thin) gray and pale green bands.				
286.0	456.0	Banded Iron Formation - as from 231.0-278.5 Ch, mgt, py 45, 45, 10. Occasionally odd bands of horn, occ. odd feldspar porphyry like as 382.0-384.0 Bedding: 40° at 302', 48° at 361', 40° at 391', 60° at 418, 50° at 446'	8592 8593 8594 95 96 97 98	288.2 294.5 298.5 303.0 308.0 313.0 318.0 318.0	292.0 298.5 303.0 308.0 313.0 318.0 323.0	3.8 4.0 4.5 5.0 5.0 5.0 5.0
		8592 Ch, mgt, py 50, 42, 8 one 3" band py R=300 ohms.				
		8593 Ch, mgt, py 40, 50, 10 py as 1/4" beds R=300-800 ohms	8599	335.0	339.5	4.5
		8594 Ch, mgt, py 50, 42, 8 disrupted, py as coarse diss in mgt.	8600	339.5	344.5	5.0
		8595 " " " 30, 62, 8 py as 1/4" beds and diss R=4000	01	344.5	348.0	3.5
		8596 " " " " " " R=2000-4000 ohms	02	348.0	356.0	8.0
		8597 " " " 46, 46, 8	03	356.0	362.0	6.0
		8598 " " " 25, 21, 5	04	362.0	367.0	5.0
		8599 " " " 44, 46, 8 R=10,000 ohms.	05	367.0	372.0	5.0
		8600 " " " 15, 80, 5 R=150,000 "	06	372.0	377.0	5.0
		8601 " " " 20, 25, 5 Py 3" beds R=200 ohms	07	377.0	382.0	5.0
		8602 " " " 47, 50, 3 Py as diss in mgt.				
		8603 " " " 35, 57, 8	8608	384.0	387.0	3.0
		8604 " " " " " " " " " "	8609	387.0	393.0	6.0
		8605 " " " 45, 50, 5	8610	393.0	397.0	4.0
		8606 " " " 35, 60, 5 Py as diss in mgt. R=50,000	8611	397.0	402.0	5.0
		8607 " " " 50, 45, 5	12	402.0	407.0	5.0
		8608 " " " 60, 35, 5	13	407.0	412.0	5.0
		8609 " " " 23, 65, 12	14	412.0	414.2	2.2
		8610 " " " 54, 45, 5	15	414.2	418.0	3.8
		8611 " " " 40, 45, 15 Py as coarse diss R=8000-50,000	16	418.0	422.0	4.0
		8612 " " " R=200 ohms in places, semi mass py	17	422.0	427.0	5.0
		8613 " " " 40, 45, 15 R=50 ohms in places	18	427.0	432.0	5.0
		8614 " " " 80, 18, 2	19	432.0	437.0	5.0
		8615 " " " 68, 20, 12 R=30 ohms in places	21	437.0	442.0	5.0
		8616 " " " 60, 52, 8	21	442.0	447.0	5.0
		8617 " " " 50, 45, 5 Py diss in mgt.	22	447.0	456.0	9.0
		8618 " " " 45, 45, 10 " " "				
		8619 " " " 45, 54, 5 8622 Ch, mgt Py 60, 35, 5				
		8620 " " " 45, 50, 5				
		8621 " " " 45, 50, 5 END OF HOLE.				

James Marchuk Sept 12/85

Drilled by: Monissie He Drill Co.
 Started: June 23/85
 Ended: June 27/85

Property: HEENAN, MARION, GONOA (P. 668)
 Township: HEENAN
 Logged by: B. MANCHUK

Latitude: L 196 + 00 N
 Azimuth: 180°
 Elevation:

Longitude: 1296 + 00 E
 Dip: coll. 45°, 300' = 42.5°
 Length: 497'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	14.0	Casing				
14.0	98.5	Feldspar Porphyry Mostly massive, strongly altered in places, pink to pale green; 40% distinctive anhedral feldspar phenocrysts. Several hairline fractures at 40° to C.A. from which potash or hem. stains issue. Some fractures filled with 1mm grt. veins. Other 1mm grt. veins at 50° to C.A. 74.0-77.0 S. Itstone? sheared porphyry? Badly broken core. 14.0-37.0 C.R. = 75-90 77.0 - 4' of ground core 94.0 4' of " " Generally 0.5% py as diss. over section				
98.5	104.0	Banded Iron Formation Well bedded, ch, mgt, py 75, 17, 8. Beds paper thin to 2". Py as discrete paper thin to 1/4" beds, with or as diss. within mgt. Chert grey color cryptocrystalline	8623	98.5	104.0	5.5
104.0	112.0	Feldspar Porphyry - as from 14.0-98.5				
112.0	138.5	Banded Iron Formation Ch, Mgt, Arenite, Py 75, 10, 10, 5. Chert grey to white, cryptocrystalline. Mgt interbedded with chert in paper thin to 2" beds at 40° to C.A. Py as thin interbeds or as diss. in mgt. Numerous hairline to 1mm grt. filled fractures at 50°-60° to C.A. Dihedral angle between bedding and fractures ~90°. Fractures pale creamy green to brown (carbonate?). Some py remobilized along fractures. Arenite as pale green to buff colored interlayers 1/4" - 3". Somewhat disrupted.	8624 8625 8626 8627 8628	112.0 118.5 124.0 129.5 134.5	118.5 124.0 129.5 138.5	6.5 5.5 5.5 5.0 4.0

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		8624 Ch, Mg, Py 84, 8, 8								
		8625 " " " 85, 10, 1								
		8626 " Arinite " 90, 8, 2								
		8627 " " " 90, 8, 2								
		8628 " " " 90, 8, 2								
138.5	142.0	Tuffwacke. Massive, gray to black, f.g. < 0.5 gapy								
142.0	497.0	Banded Iron Formation. Ch, ^{Arinite} Mg, Py, Po 60, 20, 13, 2, 1 except as indicated below. For the most bedded, although 40% of section shows some sign of soft sediment deformation (slumping, brecciation etc). Chert beds generally gray to white, cryptocrystalline. Arinite beds buff colored, fine grained, paper thin to 3" Mg. occurs as semi massive disseminations in wacke beds. Py and Po occur mostly as dusty diss. in arinite and wacke beds although at times discrete 1/4" beds can be observed. Where disrupted chert fragments float in any Arinite beds	8629	142.0	147.0	5.0				
			30	147.0	152.0	5.0				
			31	152.0	157.0	5.0				
			32	157.0	162.0	5.0				
			33	162.0	168.0	6.0				
			34	168.0	171.0	3.0				
			35	171.0	174.0	3.0				
			36	174.0	179.0	5.0				
			37	179.0	184.0	5.0				
			38	184.0	189.0	5.0				
			39	295.0	298.0	3.0				
			8640	318.0	322.0	4.0				
			41	322.0	327.0	5.0				
			42	327.0	330.0	6.0				
			43	330.0	332.0	3.0				
			44	332.0	341.0	8.6				
			45	341.6	344.0	2.4				
			46	368.0	370.5	2.5				
			47	376.0	383.0	7.0				
			48	391.0	394.5	3.5				
			49	394.5	399.0	4.5				
			8650	399.0	403.0	4.0				
			51	423.0	426.5	3.5				
			52	428.0	429.0	1.0				
			53	481.8	485.0	3.2				
	497.0	End of Hole.								

Oliver Marchuk
Sept 12/85

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		8629 Ch, Arinite, Mgt, Py 50, 35, 12, 3								
		8630 " " " " " " " "								
		8631 Ch, Arinite, Mgt, Py, Po 30, 60, 4, 2								
		Py as 1/2" blebs throughout, Py as chiss. R=200-500 chms								
		8632 Ch, Arinite, Mgt, Py, Po 40, 40, 13, 5, 2, R=50 chms								
		8633 " " " " " " 60, 32, 5, 1, 2								
		8634 " " " " " " 80, 10, 5, 4, 1, R=8 chms								
		8635 " " " " " " 5, 75, 5, 11, 4, R=60 chms								
		8636 " " " " " " 8, 72, 13, 4, 3, R=1-20 chms								
		8637 " " " " " " 10, 65, 12, 10, 3, R=6-50 chms								
		8638 " " " " " " 6, 74, 15, 3, 2, R=5-50 chms								
		187.0-226.0 Ch, Arinite, Mgt, Py, Po 60, 30, 8, 1, 1								
		226.0-251.0 " " " " " " 50, 45, 5, 5, 5								
		251.0-276.0 " " " " " " 60, 35, 5, 5, 5								
		276.0-301.0 " " " " " " 30, 60, 8, 1, 1								
		8639 Ch, Arinite, Mgt, Py, Po 60, 30, 8, 1, 1								
		8640 " " " " " " 10, 75, 9, 4, 2, R=5 chms								
		8641 " " " " " " 15, 65, 15, 3, 2, R=5-50 chms								
		8642 " " " " " " 16, 55, 15, 10, 4, R=1-20 "								
		8643 " " " " " " 5, 71, 15, 7, 2, R=2 chms								
		8644 " " " " " " 20, 70, 8, 1, 1								
		8645 " " " " " " 40, 45, 13, 2, 1, R=10 chms								
		8646 " " " " " " 80, 10, 8, 1, 1								
		8647 " " " " " " 50, 40, 7, 2, 1, R=5-50 chms								
		8648 " " " " " " 80, 10, 6, 3, 1, R=5-50								
		8649 " " " " " " 85, 8, 2, 4, 1, R=5 chms								
		8650 " " " " " " 5, 63, 20, 10, 2, R=5 chms								
		8651 " " " " " " 20, 60, 10, 3, 2								
		8652 " " " " " " 5% Argillite, 95% Py R=900								
		8653 " " " " " " 60, 13, 5, 20, 2, Po bands R=0 chms, Py bands R=900 chms								
		End of Hole								

Drilled by: *Monisette Drill Co.*
 Started: *July 9/85*
 Ended: *July 13/85*

Property: *HOENAN, MARION, GONDW*
 Township: *HOENAN*
 Logged by: *B. MANCHUK*

Latitude: *L197+75N*
 Azimuth: *315°*
 Élévation:

Longitude: *L236+00E*
 Dip: *45, 35' = 36°*
 Length: *527.0*

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	14.0	CASING								
14.0	14.5	Banded Iron Formation Jasper, magnet, py 88, 10, 2 (Possibly a boulder)								
14.5	66.5	Felsic Fragmental Protolaban, generally 30% angular to subangular creamy white rhyolitic fragments (1mm-1") with 30% 1-2mm Qtz eyes. Matrix mostly creamy green, sensitive in places with darker green more acidic rich components as patches. Generally matrix supported. In places core has a distinct pinkish tinge due to hematization or potash metasomatism to 10% py. Core Recovery 14.0-17.0 = 50% 17.0-66.5 = 99% Water lost in hole at 30.0'								
66.5	74.0	Feldspar Porphyry Pink, granulated appearing, fine grained, Numerous hairline fractures pervasive from which potash or hematite has flooded the core. Approx 5% py. Approx 5% anhedral 1-4 mm feldspar phenocrysts visible in places. Also 5-8% 1-3 mm anhedral chloritized Amphibole phenocrysts. Fractures predominately at 25° and 45° to C.A. 45° fractures more distinct (1-4mm) Qtz filled.								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
74.0	82.5	Lahar? Felsic Fragmental? Strongly sheared, almost schistose at 25°-35° to C.A. Strongly chloritized, 40% potash or hematite staining affects 60% of core. A 1' section, unaltered, shows distinct fragments as from 18.1 - 66.5				
82.5	145.0	Feldspar Porphyry. Similar to 66.5 - 74.0; deep pink, fractured and foliated, granulated. Original texture all but obliterated but occasional subhedral to euhedral 2-3 mm pink to green feldspar phenocryst visible. Also 5-6% chloritic streaks accents foliation. Generally 10% py. Generally 1 quartz fracture (1-3 mm) every 45°-50° to C.A. Foliation generally at 30°-40° to C.A. Dihedral angle between q.v. fractures and foliation 135° at 132'. Generally 10% py as dusty diss. over section or as indicated below. 125.5-129.0 B.I.F. ch. mgt Py 58, 40, 2 Bolding at 35° to C.A. 8750 Altered Feld. porph. 12% qtz veins, 8% py. fabric at 35° to C.A. 8751 Altered Feld porph 15% qtz. veins 5% py	8739 8740 41 42 43 44 45 46 47 48 49 50 8751	82.5 87.0 92.0 97.0 102.0 107.0 112.0 117.0 125.5 129.0 134.0 139.0 141.0	87.0 92.0 97.0 102.0 107.0 112.0 117.0 125.5 129.0 134.0 139.0 141.0 145.0	4.5 5.0 5.0 5.0 5.0 5.0 5.0 8.5 3.0 5.0 5.0 2.0 4.0
145.0	158.0	Alteration Zone (Feldspar Porphyry) Contact between F.P. and B.I.F. Generally appears to be silica flooded feldspar porphyry. Matty grey with pink patches and streaks. Grey coloration due to silica (qtz flooding) 60%. Secondary qtz veins (5mm) at 55-65° to C.A. Primary fabric at 25° to C.A. in place. Overall py at 10% as dusty and coarse cubic diss.	8752 8753 54 55 8756	145.0 146.5 150.0 152.0 154.0 158.0	146.5 150.0 152.0 154.0 158.0	1.5 3.5 2.0 2.0 4.0

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
158.0	175.2	8752 grey quartz	8757 58 59 60 61 62	158.0	161.0	3.0
		8753 50% grey gtz, 5% py up% shaled fold porph.				
		8754 " " " " " " " " " " " "				
		8755 30% gtz, 8% py, 52% fold porph, siliceous flooded.				
		8756 85% gtz, grey + white, 4% py, 11% fold porph.				
		Alteration Zone (Banded Iron Formation)? gray-black to pinkish appearing. Possibly siliceous flooded chert-magnetite B.I.F., weakly magnetic highly fractured hairline to 5 mm. staining fractures somewhat irregular, gtz filled. Pinkish patches and zones due to potash or iron staining. Overall py at 20% As ducty to mm. disc. and streaks. General fabric suggested at 25° to c.n. Distinct 3-5 mm white gtz veins at 60°-85° to c.n. Possibly highly altered Fold Porph.				
		8757 80% grey ch? or gtz, 5% py 15% pink f.p.				
8758 40% " " " " " " 6% py 5% " "						
8759 " " " " " " " " 8% py 52% " "						
8760 60% " " " " " " " " 4% py 36% " "						
8761 73% white gtz, 2% py, 25% fold porph.						
8762 50% grey ch, 6% py 44% pink alt.						
175.2	181.0	Banded Iron Formation Generally well bedded ch, mgt, py 40% sil. bedding at 55° to c.n. Odd patch of potash or iron flooding. Odd gtz vein	8763	175.2	181.0	4.8
181.0	188.0	Feldspar Porphyry Massive, greyish pink, 20% 2-3mm Anhedral pink feld phenocrysts, 5% 2-5mm elongated chlorite streaks after Amphibole < 0.5% py.	8764	181.0	188.0	7.0
188.0	237.2	Banded Iron Formation Ch, mgt, Jasper, py 35, gtz, 20.5 Generally well bedded, paper thin to 2". chert gray cryptocrystalline or black. Py generally as clss within mgt beds. In places semi massive as below.	8765 66 67 8768	188.0 193.0 198.4 237.7	193.0 198.4 200.2 237.2	5.0 5.4 1.8 1.5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		<p>Bedding 50° at 195, 55° at 215, 57° at 235. 8765 ch, mgt, jasper py 10, 50, 7, 3 8766 " " " " 15, 64, 15, 6 8767 mgt 40 py 60 semi massive 8768 mgt 30 py 70 " "</p>								
239.2	243.7	<p>Feldspar Porphyry As from 82.5 - 145.0 50% c gtz. veins at 50° to c.a. 1-2% py.</p>	8769	239.2	243.7	4.5				
243.7	312.0	<p>Banded Iron Formation 243.7 - 293.0 ch, mgt, py 42, 55, 3 Somewhat disrupted but generally well bedded. Where discernable grey cryptocrystalline ch fragments float in mgt. py. As coarse d.s. in mgt. generally conformable to bedding. Occasionally in semi massive layers.</p> <p>293.0 - 312.0 ch, jasper, mgt, py 10, 58, 50, 2. generally well bedded. Bedding 60° at 281, 42° at 255, 50° at 288 50° at 305.</p> <p>8770 ch, mgt, py 20, 75, 5 8771 ch, mgt, py 40, 60</p>	8770 8771	243.7 272.0	246.7 271.5	3.0 2.5				
312.0	321.0	<p>Feldspar Porphyry Pink, massive, 20% 1-3mm feldspar phenocrysts. Occasional 1-3 mm fractures at 25° to c.a.</p>								
321.0	360.5	<p>Banded Iron Formation ch, mgt, jasper, py 10, 40, 45, 2. Well bedded, paper thin to 2% py, As coarse 2-3mm. d.s. within mgt. Bedding 55° at 330, 50° at 350 8772 ch, mgt, py 32, 60, 8</p>								

Brewer Marchant Sept 12/85

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
360.5	371.5	Feldspar Porphyry Massive, pale pink to greyish. Relatively unaltered, 15% 1mm-2mm feldspar phenocrysts.								
371.5	527.0	Banded Iron Formation 371.5 - 406.0 Ch, mgf, py 58, 40, 2 Well bedded, paper thin to 2 in beds. Py generally as diss. within mgf. Bedding 45° at 382, 47° at 395. 406.0 - 452.0 Ch, jasper, mgf, py 55, 43, 2. Well bedded, 60° at 410, 55° at 425, 55° at 450. 452.0 - 527.0 Ch, mgf, Py 55, 43, 2. Well bedded generally, diss ruptured in places with chert fragments floating in mgf.	8772 73 74 75 76 77	379.5 394.0 401.0 439.5 505.7 509.0	581.5 376.2 462.0 440.8 509.0 512.8	2.0 2.2 1.0 1.3 3.3 3.8				
		8772 ch, mgf, py 80, 14, 6 73 " " " 80, 14, 6 74 " " " 85, 5, 10 75 " " " 87, 5, 8 76 " " " 60, 24, 20 (Disrupted ch. bed) 77 " " " 50, 44, 6								
		527.0 end of hole.								
<p><i>Joseph M. ... Sept 12/85</i></p>										

Drilled by: Morissette Drill Co.
 Started: July 4/85
 Ended: July 7/85

Property: Heenan, Marion Genoa (P66F)
 Township: Heenan
 Logged by: B. MANCHUK

Latitude: L195+20N
 Azimuth: 315°
 Élévation:

Longitude: L250+00E
 Dip: E1-45°, 250'-41°
 Length: 389'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	14.0	CASING				
14.0	37.0	Cherty Iron Formation Badly broken, ground core, core recovery over section 65%. Ground core 3.0 at 27.0', 2' at 37.0. Ch, mgt, py 97.5, 3 Chert generally gray, cryptocrystalline, Mgt occurs as coarse 2-5mm seams, py as dusty disseminations 8718 Core recovery 57% 8719 " " 77%	8718 8719	14.0 28.0	28.0 37.0	14.0 9.0
37.0	89.0	Tholeiite Dark green, med gr foliated at 30° to CA, dipy in small shears at 20° to CA.				
89.0	176.5	Banded Iron Formation Ch, mgt, py 35, 60, 2 bedded in places, but mostly disrupted bedding with gray cryptocrystalline chert fragments in mgt. py occurs as semimassive disseminations and stringers in mgt. py to 5% over certain sections as below Occasional acid Jasper beds Bedding 47° to core at 118, 48° at 115' 8720 Ch, mgt, py 45, 50, 5 (1' of core) C.R.=14% 5' of ground core 8721 90% py, 10% mgt, 1' of core C.R.=50% 8722 Ch, mgt, py 45, 50, 5 (1' of core) C.R.=14% 8722 Ch, py 99, 1 C.R.=10% 8723 Ch, mgt, py 50, 5, 5 C.R.=50% 8724 Ch, mgt, py 30, 68, 2 C.R.=35% 8725 " " " 36, 60, 4 C.R.=100% 8726 " " " 10, 87, 3 C.R.=100% 8727 " " " 6, 87, 6 " =100%	8720 8721 8722 8723 8724 8725 8726 8727	89.0 96.0 96.0 103.0 103.0 117.0 117.0 167.0 171.0	96.0 96.0 103.0 108.0 117.0 122.0 171.0 176.5	7.0 2.0 5.0 5.0 9.0 5.0 4.0 5.5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
176.5	184.0	Feldspar Porphyry Pink, 40% 1mm. grey white feldspar phenocrysts in an aphanitic pink matrix. Hairline fractures at 40° to C.A. (gtz. filled). 1-2% py AS diss. C.R. = 100%	8728	176.5	184.0	7.5
184.0	202.5	Banded Iron Formation Ch, mgt, Py 20, 76, 4. Odd band of jasper at 47° to C.A. 8729 ch, mgt, py 5, 85, 10 py at 25° to C.A. 187.0 - 202.5 C.R. = 60%	8729	184.0	187.0	3.0
202.5	220.0	Feldspar Porphyry Massive, pink, original texture obliterated, 3-4% carb AS 1mm. diss. 1-2% py AS diss. Hairline fractures at 32° to C.A.				
220.0	385.0	Banded Iron Formation. Mostly well bedded, some disrupted chert layers. Bedding paper thin to 3" generally. 220.0 - 308.0 Ch, mgt, Py 40, 57, 3. Py AS discrete partly remobilized stringers within chert or mgt. Py content 5% in places as below. Occ. pale green, soft. 1-3mm greenalite? interbeds. Bedding 45° to C.A. at 238', 47° at 268'. Somewhat disrupted from 260.0 to 308.0 but bedding trend generally at 40° to C.A. 308.0 - 355.0 Ch, mgt, jasper, py 25, 30, 47, 3. Generally well bedded as follows 40° at 308, 47° at 346, 45° at 375. 8730 Ch, mgt, py 50, 47, 3 C.R. 37% 8731 " " " 30, 65, 5 C.R. 50% 237.0 - 256.0 Ch, mgt, py 20, 78, 2 e.R. 98% 8732 Ch, mgt, Py 85, 3, 12.	8730 8731 8732 8733 8734 8735 8736 8737 8738	220.0 228.0 256.0 288.0 299.0 303.5 307.0 341.0 353.0	228.0 237.0 259.5 289.5 303.5 307.0 308.0 344.0 356.0	8.0 9.0 3.5 1.5 4.5 3.5 1.0 3.0 3.0

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		259.5 - 299.0 Ch, Mg, Py 40, 57, 3 E.R. 100%								
		8733 Ch, Mg, Py 72, 20, 8, E.R. 100%								
		8734 " " " 35, 6, 5 E.R. 100%								
		8735 Ch, Mg, Jasper, Py 18, 40, 40, 2 E.R. 100%								
		8736 " " " 5, 77, 10, 8 E.R. 100%								
		308.0 - 341.0 Ch, Mg, Jasper, Py 21, 30, 42, 3 E.R. 100%								
		8737 Ch, Mg, Py 70, 5, 5 E.R. 100%								
		344.0 - 353.0 Jasper, Mg, Ch, Py 80, 14, 5, 1 E.R. 100%								
		8738 Ch, Jasper, Mg, Py 15, 20, 59, 6 E.R. 100%								
		356.0 - 389.0 Ch, Jasper, Mg, Py 30, 34, 37, 3 E.R. 100%								
389.0	389.0	Feldspar Porphyry Gray, massive, but granulated appearing. Fine grained, occasional 1-2 mm. feldspar phenocrysts? visible in places near contact Possibly an aegirite. 389.0 end of hole. Jerry Markuh Sept 17/85								

Drilled by: Monissette Drill Co
 Started: June 29/85
 Ended: July 2/85

Property: HOONAN, MARIN GEOMA P668
 Township: HEENAN
 Logged by: B. MANCHUK

Latitude: L194+54N
 Azimuth: 315°
 Elevation:

Longitude: L262+10E
 Dip: 0-1-45°, 500'-44°
 Length: 457'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	32.0	CASING (core at 29.0)				
29.0	72.0	Lahar Fairly massive, 70% rounded to subangular pink chrysolite fragments in a dark green highly chloritic matrix. Fragments generally have 5% 1-2mm anhedral gr. ex. Pink coloration due to potash or hematite staining. Unaltered fragments grey. Fragments gradational from sand size to 2", most 1/2-1". Rock highly magnetic. Overall py content about 5% (higher in places) Py mostly AS anhedral 1mm grains in matrix Core Recovery 29.0-57.0 = 90%; 57.0-72.0 = 65%; 72.0-88.0 = 98% Ground Core 62.0 = 2', 72.0 = 4' Badly broken ground. Water return partially lost in this section 56.0-72.0 Lahar, but finer grained, fragments 1-3mm, some cherty, highly chloritic	8654 55 56 57 58 59 60	29.0 34.0 39.0 44.0 49.0 54.0 61.0	34.0 39.0 44.0 49.0 54.0 61.0 72.0	5.0 5.0 5.0 5.0 7.0 7.0 11.0
72.0		8654-5% py, 8655-5% py, 8656-5% py 8657-5% py, 8658-5% py, 8659-5% py R=85% 8660-5% py R=72%				
72.0	88.0	Iron Formation Mostly wacke to lig labaric matrix (highly chloritic) but first appearance of chert layers 5% and discrete magnetite layers 1/4" thick (1%). Matrix consists of 15% 2mm chert fragments with some disrupted py beds AS below. Note core recovery above 8661 py = 8%, R = 62%; 8662 py = 3%, R = 100% 8663 py = 6%, R = 95%	8661 8662 8663	72.0 80.0 82.4	80.0 83.4 88.0	8.0 3.4 4.6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
88.0	97.0	Feldspar Porphyry Pink, massive, 25% 1-2 mm anhedral pale green feldspar phenos, 5% - 0.5 mm chlorite blocks (altered amphibole.) Numerous hairline to 1 mm. fractures 35° and 45° to C.A. from which potash or hem. perovskite core. 6% carbonate as alteration specks or stringers in matrix. 2-3% py as cubic diss. R=100%	8664	88.0	97.0	9.0
97.0	134.0	Iron Formation - As from 72.0-88.0, 6% chert as discrete layers with 1/4" magnetite beds distinct bedding with lathic and wacke matrix. Appreciable py content as below. Py consists mostly of disrupted 2 mm beds of py within wacke matrix. Bedding 40° to C.A. at 102.0	8665 66 67 68 69 70 71	97.0 103.5 109.0 114.0 120.0 125.0 130.0	103.5 109.0 114.0 120.0 125.0 130.0 134.0	6.5 5.5 5.0 6.0 5.0 5.0 4.0
		Core Recovery 115.0-166 = 58% Total ground core over section = 23' as below. Ground core: 4' at 117, 2' at 127, 3' at 137, 3' at 147, 3' at 151, 4' at 156, 3' at 160, 1' at 166, 1' at 177. Recovery on assays as below. Note: Recovery from 176.0 to end of hole = 100% Note 8665 - 30% py, R=100; 8666 - 8% py R=98% 8667 - py=15% R=90; 8668 - 6% py R=33, 8669 - 18% py R=95% 8670 - 6% py R=60; 8671 - 12% py R=100.				
134.0	209.5	Banded Iron Formation Generally well bedded (paper thin to 4"). Some disrupted bedding 134.0-188.0 Predominately ch, mg, typy 60% 20% 10% Py as paper thin to some massive beds several inches thick as below. Chert grey to white cryptocrystalline. In places some disrupted beds. Minor graphitic black shales.	8672 73 74 75 76 77 78 79 80 81 82 83	134.0 142.0 146.0 160.0 166.0 168.5 173.0 178.0 181.0 183.0 188.0 192.0	142.0 146.0 160.0 166.0 168.5 173.0 178.0 181.0 183.0 188.0 192.0 196.5	8.0 4.0 4.0 6.0 2.5 4.5 5.0 3.0 2.0 5.0 4.0 4.5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		8672 ch, mgt, py 50, 47, 3 (nubble) R=45%	8684	196.5	201.0	4.5
		8673 " " " 20, 50, 3 R=100% R=800 ohms.	85	201.0	206.0	5.0
		8674 " " " 10, 87, 3 (nubble) R=17%	86	206.0	202.5	3.5
		8675 " " " 50, 49, 1 Disrupted beds R=66%				
		8677 ch, mgt, graphitic Arg. illite, py 20, 10, 62, 8, R=100%				
		8676 " " " " 5, 15, 78, 2 R=100%				
		Non conductive, R=100%				
		8678 Arsenite 95% mgt 5% R=80%				
		8679 ch, mgt, py 20, 60, 20 py as massive dis. in mgt, disrupted beds, odd fold perph & arsenite frag.				
		8680 ch, mgt, py 20, 65, 15 (as 8679) R=1000 ohms				
		8681 " " " 45, 55, 5 R=100%				
		188.0 - 209.5 Predominately well bedded paper thin to 2" mgt, jasper-horn, ch, py				
		8682 mgt, jasper-horn, ch, py, 65, 14, 15, 3				
		8683 " " " " 70, 14, 10, 3				
		8684 " " " " 70, 14, 10, 3				
		8685 " " " " 70, 14, 10, 3				
		8686 " " " " 80, 8, 7.5				
209.5	250.0	Feldspar Porphyry Massive, pink, 15% 1mm anhedral creamy white feldspar phenos in an aphanitic matrix. Numerous hairline to 2mm fractures at times quartz filled at 20°, 45° and 90° to C.A. Some potash or horn. stained away from fractures. 10% py as dusty dis.				
		Unaltered portion 209.0 - 218.0 grey feldspar porph.				
250.0	346.0	Banded Iron Formation Generally well bedded, paper thin to 3". Primarily mgt, jasper-horn, ch, py 70, 10, 15, 4. Py occurs as dusty or coarse dis. (2mm) in mgt. At times py remobilised into fractures. Numerous hairline to 0.5 mm. gtz-carb veins (3%) throughout section.	8687	250.0	253.0	3.0
			88	253.0	260.0	7.0
			89	260.0	265.0	5.0
			90	265.0	270.0	5.0
			91	270.0	275.0	5.0
			92	275.0	280.0	5.0
			93	280.0	285.0	5.0
			94	285.0	290.0	5.0
			95	290.0	295.0	5.0

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		8687 mgt, jasper-hamy, ch, py 70, 0, 10, 20	8686	295.0	300.0	5.0
		88 " " " " 42, 5, 50, 3	87	300.0	305.0	5.0
		89 " " " " 41, 5, 50, 4	98	305.0	310.0	5.0
		90 " " " " 44, 3, 60, 3	99	310.0	315.0	5.0
		91 " " " " 43, 7, 43, 7	8700	315.0	323.0	8.0
		92 " " " " 42, 3, 42, 3	01	323.0	330.0	7.0
		93 " " " " 41, 7, 50, 2	02	330.0	335.0	5.0
		94 " " " " 44, 4, 50, 2	03	335.0	340.0	5.0
		95 " " " " 50, 5, 41, 1	04	340.0	346.0	6.0
		96 " " " " 65, 6, 33, 2				
		97 " " " " 70, 3, 76, 1				
		98 " " " " 70, 8, 20, 2				
		99 " " " " 54, 7, 30, 4				
		8700 " " " " 70, 5, 20, 5				
		01 " " " " 76, 3, 15, 6				
		02 " " " " 78, 4, 14, 8				
		03 " " " " 82, 5, 10, 3				
		04 " " " " 77, 2, 15, 6				
346.0	356.0	Feldspar Porphyry Massive, pink 15% 1mm. anhedral pale green feldspar phenocrysts in a pinkish granulated matrix. Numerous hairline to 1mm. fractures, some grt. filled at 20° and 50° to C.A. 2% py Potash or hem stain away from fractures	8705	346.0	356.0	10.0
356.0	416.0	Banded Iron Formation Well banded, paper thin to 2" beds. Bedding 40° to C.A. at 367, 40° at 377, 55° at 395 45° at 415. Very consistent, minor disturbance				
		356.0 - 367.0 mgt, ch, py 83, 17, 10, Chert beds, gray-white cryptocrystalline generally 1/2" - 1.5" thick. Py occurs as semi massive fine and coarse diss. in mgt. beds. Py generally follows bedding trend.	8706	356.0	360.0	4.0
		8706 ch, mgt, py 20, 30, 6 (1' feld porph dyke 358-359)	07	360.0	365.0	5.0
		8707 mgt, ch, py 72 20 8	08	365.0	370.0	5.0
		08 " " " 72 20 8	09	370.0	375.0	5.0
		09 " " " 50 15 12	10	375.0	380.0	5.0
		8710 " " " 78 10 12	11	380.0	385.0	5.0

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		8711 mqt, ch, py 80, 10, 10.				
		387.0 - 416.0 Jasper rich phase as follows; generally jasper, mqt, ch, py 30, 60, 64				
		8712 Jasper, mqt, ch, py 8, 54, 5, 3	8712	385.0	390.0	5.0
		13 30, 60, 5, 5	13	390.0	395.0	5.0
		14 50, 40, 5, 5	14	395.0	400.0	5.0
		15 35, 55, 5, 5	15	400.0	405.0	5.0
		16 20, 72, 3, 5	16	405.0	410.0	5.0
		17 5, 82, 10, 3	17	410.0	416.0	6.0
416.0	420.0	Gray wacke massive, f.g. dark gray				
420.0	434.0	Feldspar Porphyry massive, greyish pink, 60 to 2-3 mm anhedral subhedral white feldspar phenocrysts. 5-9% 0.5 mm chlorite specks. 1-2% py. 45 diss. Good contact at 434.0 at 52° to c.a.				
434.0	457.0	Tholeiite massive, med green, f.g. Occ grt. carb. veins 1-2 mm at 30° and 45° to c.a. Trace sulphide.				
	457.0	End of Hole.				
		Blair M. Orville Sept 12/85				



321/85



41016SW0047 21 HEENAN

Mining Act

Name and Address of Recorded Holder: **FALCONBRIDGE LTD** (HEENAN MINING GENOA TWS. H21647) 900
 167 Wilson Ave, Timmins Ont, P4W 2T2

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 3997	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.	
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey		583878	496									
		583879	60									
		583880	60									
		583881	60									
		583882	60									
		583883	60									
		583885	60									
	583886	60										

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 RESEARCH OFFICE
 OCT 2 1985
 RECEIVED

All the work was performed on Mining Claim(s): 554670, 554699, 554695, 553224, 553233, 628434, 628439

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

N. MORISSETTE
 Diamond Drilling Ltd.
 Haileybury Ont
 P0J 1K0

DATE OF DRILLING MAY 28/85 - June 2/85

* 2880.1 DAYS TO KEPT ON RESERVE.

#OLE 668-18-85 - Remainder of 647

Date of Report: Sept 12/85
 Recorded Holder or Agent (Signature): Barry Marchuk

Certification Verifying Report of Work for WR# 261/85

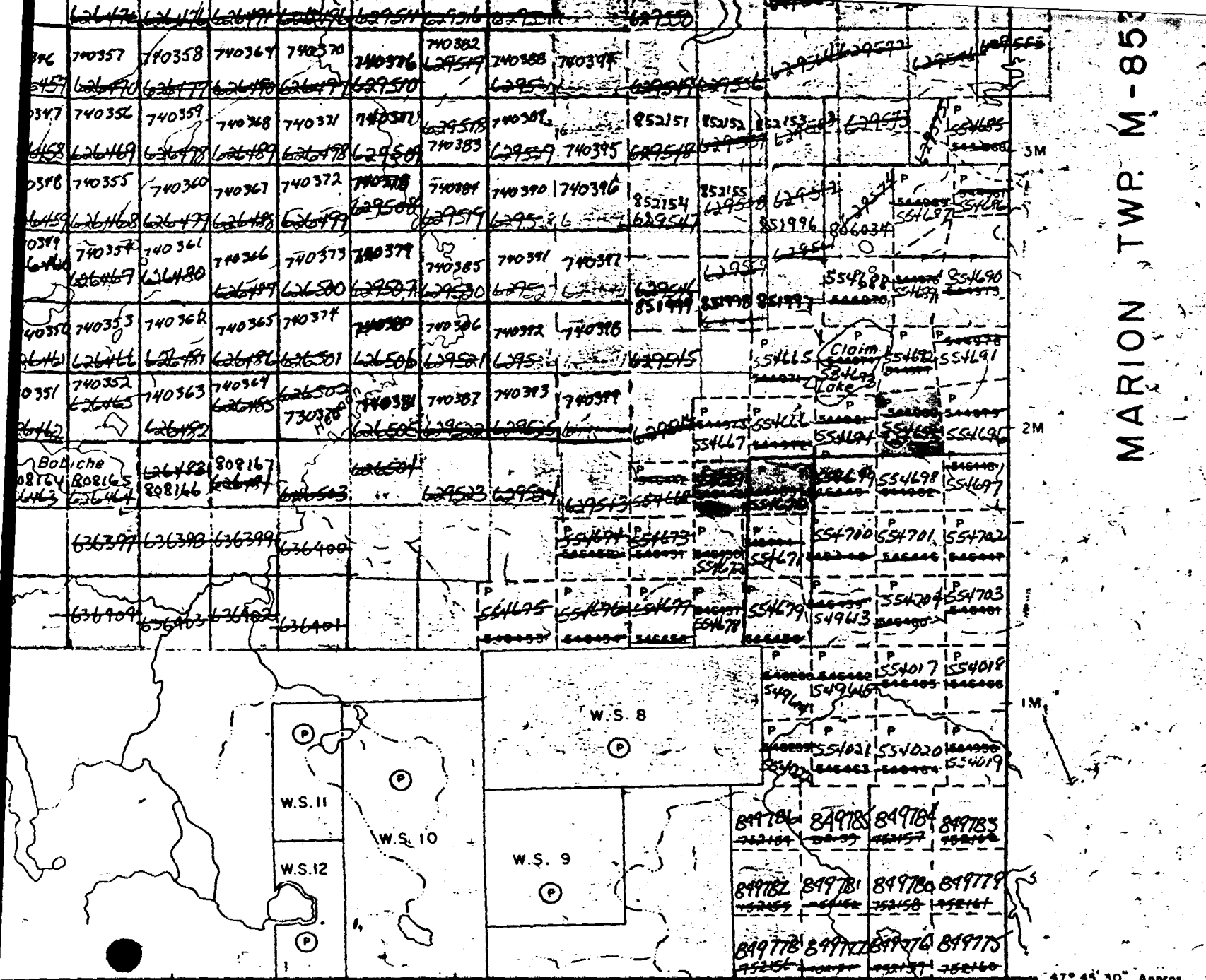
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **BARRY MARCHUK**
 167 Wilson Ave, Timmins Ont, P4W 2T2

Date Certified: Sept 12/85
 Certified by (Signature): Barry Marchuk

Table of Information/Attachments Required by the Mining Recorder

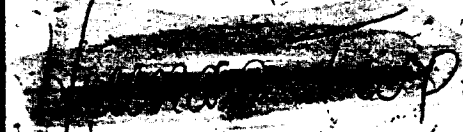
Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



MARION TWP. M-85

- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES
 400' Surface rights reservation shores of all lakes and rivers.

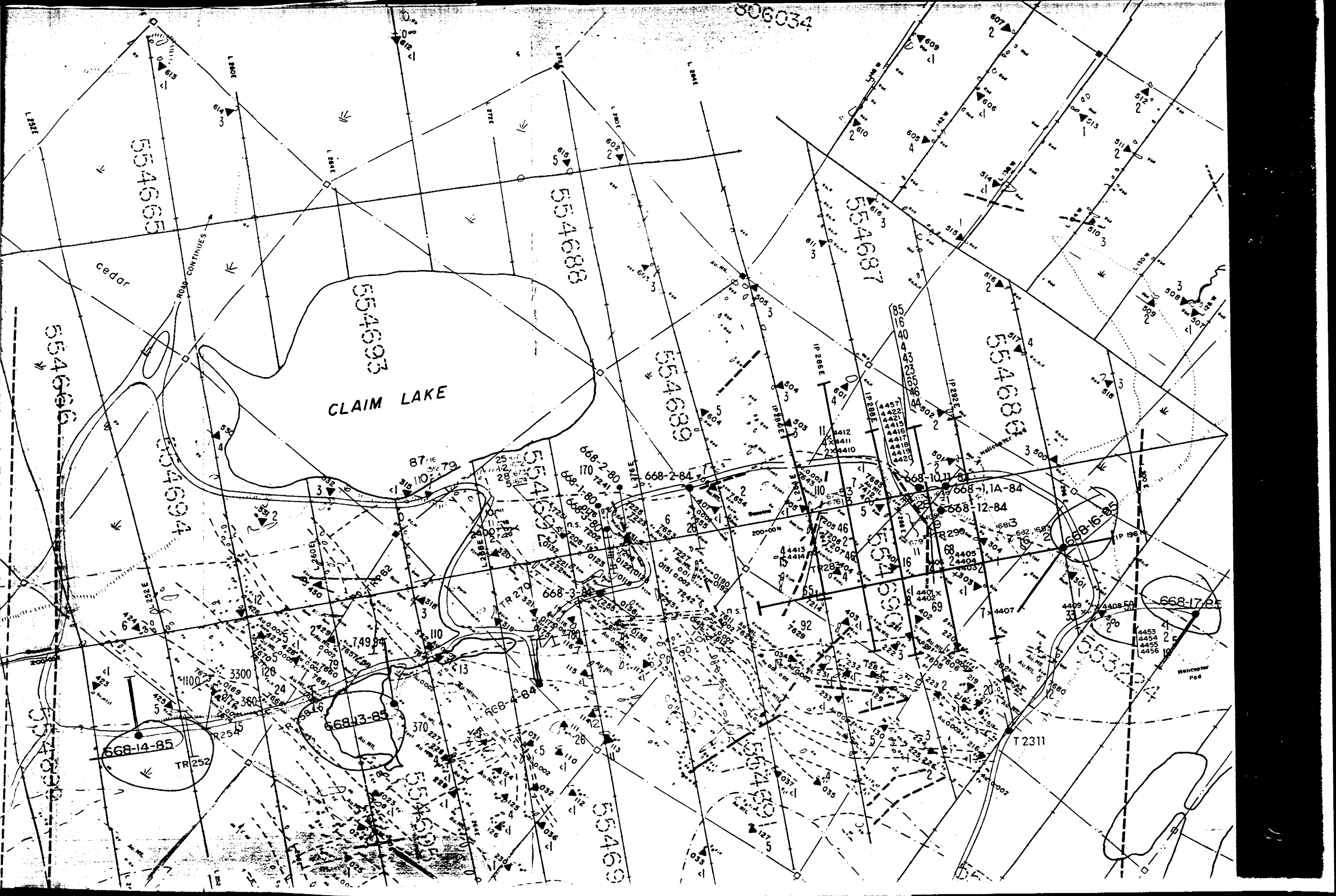


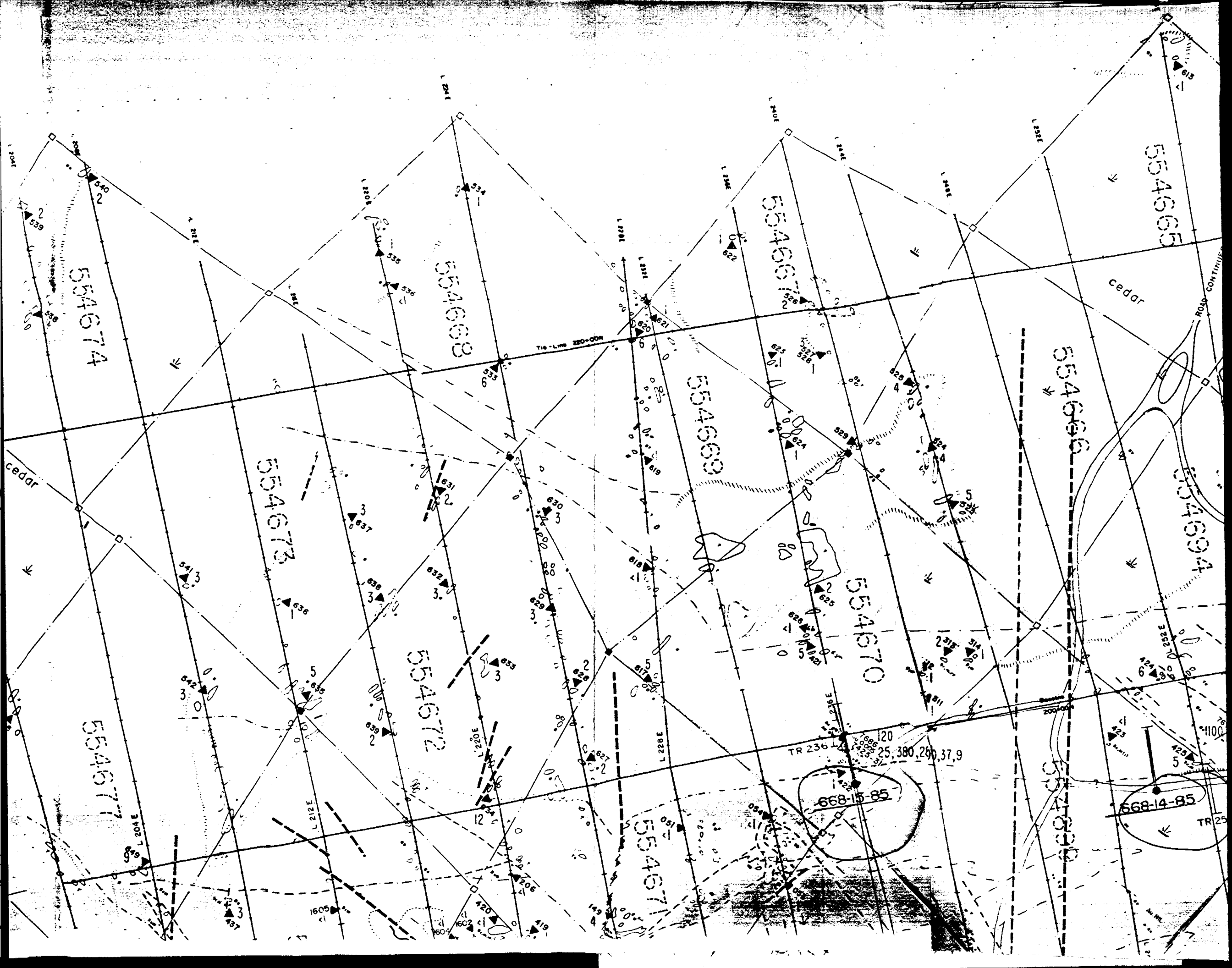
Rec. Feb 11/80
PLAN NO. M-9

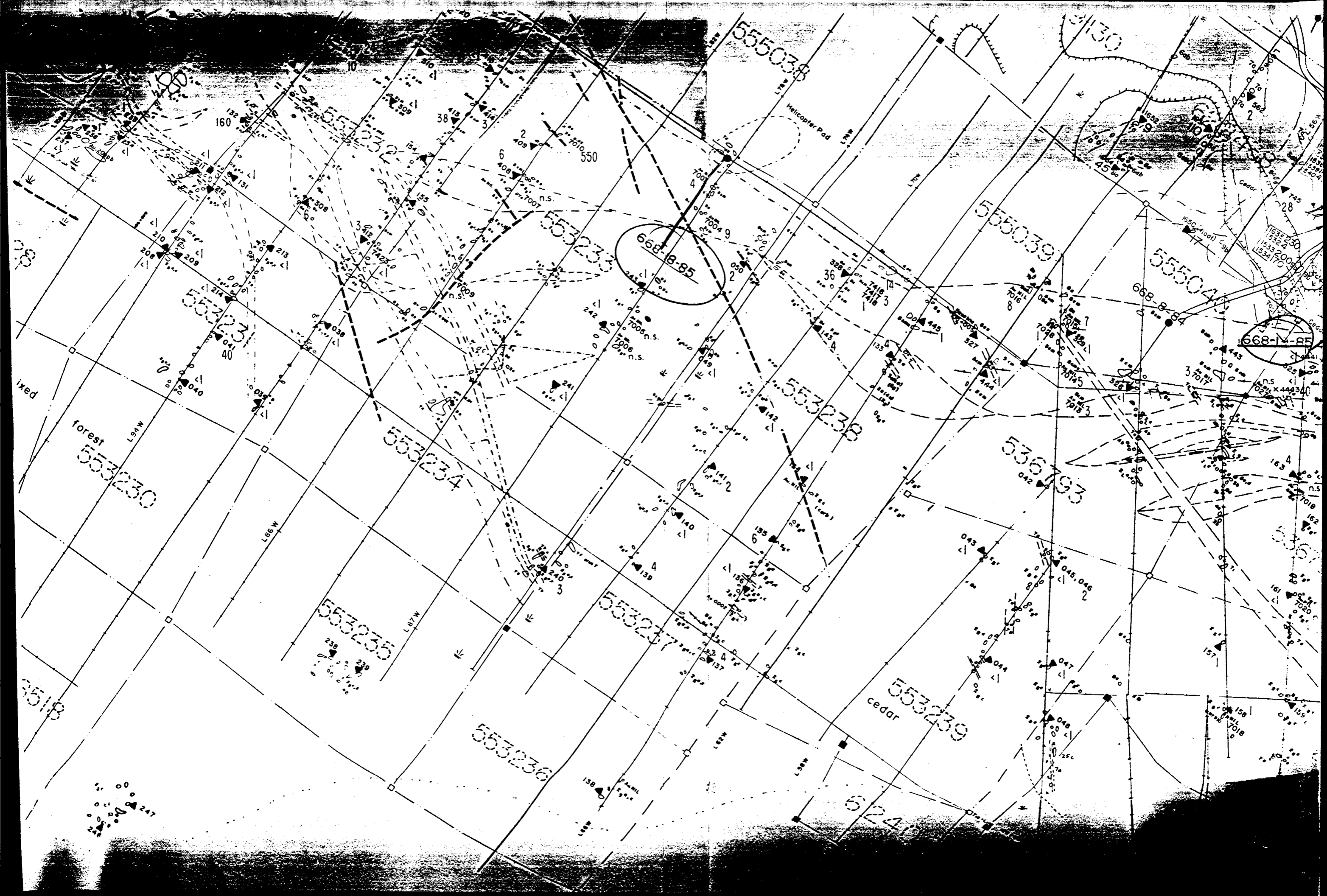
ONTARIO
 MINISTRY OF NATURAL R

47° 45' 30" Approx.

62° 20' 45"







668-18-85

668-14-85

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cedar

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624

Helicopter Pad

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