



42A13SE0898 10 MOBERLY

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Diamond Drilling

Township OF MOBERLY

Report No: 10

Work performed by: NORTH RANKIN NICKEL MINES LTD.

Claim No	Hole No	Footage	Date	Note
P.58299	66-1	511'	Apr/66	
	66-2	354'	Apr/66	
P.61690	66-3	606'	May/66	
P.58292	66-4	715'	May/66	
P.58293	66-5	497'	June/66	
P.61698	66-6	502'	June/66	

6 DDH - 3185'

Notes:

Formerly Report 10 - 13



42A13SE0898 10 MOBERLY

020

Report on the Diamond Drilling
Performed on the Property of
NORTH RANKIN NICKEL MINES LIMITED
situated in
Moberly Township - Porcupine Mining Division
by
M. E. M. CONSULTANTS LIMITED
Michael Zurowski, B.Sc., P.Eng.

Toronto, Ontario,
September 28, 1966

Report on the Diamond Drilling
Performed on the Property of
NORTH RANKIN NICKEL MINES LIMITED
Moberly Township - Province of Ontario

SUMMARY

Six holes totalling 3185.0 feet of diamond drilling were performed during the period April 1st to July 1st 1966 on the company's Moberly Township property in the Province of Ontario. These holes were drilled to investigate interesting geophysical anomalies, outlined in surveys completed earlier, in order to ascertain as to whether or not the cause of these electrical anomalies was due to economic sulphide mineralization.

CONCLUSIONS

Non-economic sulphide mineralization was obtained in hole 66-3, whereas in the other five holes no conductive material was encountered to account for the anomalies. It is considered that these are probably due to conductive overburden.

Because of the inconclusive results obtained in the better of the anomalies tested, it was considered that the anomalies of secondary importance did not warrant investigation. Consequently, drill operations were suspended on completion of hole 66-6.

RECOMMENDATIONS

It is recommended that no further monies be expended on this property.

The assessment credits obtainable from the completed drill footage should be applied to 36 of the 64 claims, allowing 28 claims to lapse. The claims to be retained are numbered as follows;

P-58264, P-58272 to P-58274 inclusive, P-58277 to P-58279 inclusive, P-58285 to P-58296 inclusive, P-58299, P-61682 to P-61686 inclusive, P-61690 to P-61694 inclusive, P-61696 to P-61699 inclusive, P-58307 and P-58308.

These claims encompass a major portion of the untested geophysical anomalies.

Upon recording of the assessment credits to the above claims, they would be in good standing until April 27th 1968.

It is also recommended that the results of the exploratory work being conducted in the area be periodically reviewed, correlated and assessed

with those obtained on the North Rankin property. This periodical review could well reveal valuable information as to the possible presence of mineral deposits on the subject acreage.

PROPERTY, LOCATION, ACCESS, ETC.

This property of North Rankin Nickel Mines Limited consists of sixty four (64) contiguous, unsurveyed and unpatented mining claims. They are numbered P-58300 to P-58309 inclusive, P-58264-P-58299 inclusive, and P-61682 to P-61699 inclusive. The area of the claim group is 2560 acres, more or less.

The claim group is located almost entirely in the northeast corner of Moberly Township although part of the claim group extends into the adjoining township of Thorburn, all located in the Porcupine Mining Division, in the Province of Ontario.

Access to the property is difficult. There are no roads within several miles of the property, nor are there any bodies of water which can be used as a landing field for ski or float-equipped aircraft. The most practical means of access is by helicopter from the town of Timmins, Ontario. The distance from Timmins to the property is about 28 air miles.

There are no large streams or rivers on the property.

HISTORY

The property was staked to cover a broad, high intensity, northwest striking aeromagnetic anomaly, following the announcement of the Texas Gulf Sulphur base metal deposit in Kidd Township.

During the period 1965 to 1966, North Rankin Nickel Mines Ltd. performed magnetic, horizontal and vertical loop electromagnetic surveys over the claim group.

For details of and the results obtained in these surveys, one is referred to the reports on the above, in the company's files and dated April 21st 1965 and March 17th 1966.

PROPERTY GEOLOGY

One rock outcrop is known to be present on the property. It is located in the northwest part of claim P-58300. The rest of the property is covered by glacial deposits estimated to be in the order of 100 feet in depth, vertically.

Based on the pattern of isomagnetic lines and magnetic gradients of the ground magnetic survey, it is interpreted that the northeast two-thirds of

the property is underlain by a complex of Keewatin lavas and minor sediments. The south one-third of the property is underlain by granite. The main contact between the two stratigraphic units is irregular and located about 1000 feet south of the base line and more or less parallel to it.

DIAMOND DRILLING

A program of diamond drilling was conducted on the property during the period April 1st to July 1st 1966. Six diamond drill holes were bored for a total footage of 3185 feet.

The object of this drilling was to investigate the cause of geophysical anomalies outlined in the surveys completed earlier.

DISCUSSION OF THE RESULTS OF DIAMOND DRILLING

Diamond Drill Hole 66-1. This hole was drilled on claim P-58299 in order to investigate vertical loop E.M. anomaly V9. The hole was drilled to a depth of 511.0 feet. Acid and basic volcanics and several granitic intrusives were the main rock types encountered. No conductive material was encountered to account for the anomaly.

Diamond Drill Hole 66-2. This hole was drilled in the same plane as 66-1 but in the opposite direction. The purpose of this hole was to obtain another test of anomaly V9 as it was considered that in hole 66-1 a granite dike occurred in the area where the conductor was anticipated. The hole failed to intersect any conductive material to account for the anomaly.

Diamond Drill Hole 66-3. This hole was collared near the common corner of claims P-61684 and P-61683 and drilled into claim P-61684. The purpose of this hole was to investigate coincident vertical loop anomaly V3 and a magnetic anomaly. The hole was drilled to a depth of 606.0 feet. Sulphide mineralization was intersected to account for the anomaly, but no significant values in the base or precious metals were present.

Diamond Drill Hole 66-4. This hole was drilled on claim P-58292 in order to investigate vertical loop anomaly V2 situated on the flank of a strong magnetic zone. The hole was drilled to a depth of 715.0 feet. No metallic mineralization was obtained to account for the anomaly.

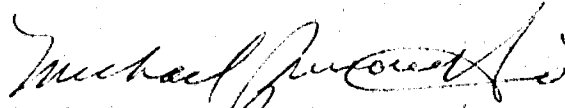
Diamond Drill Hole 66-5. This hole was drilled on claim P-58293 in order to investigate vertical loop anomaly V14. The hole was completed at a depth of 497.0 feet. No conductive material was encountered to account for the anomaly. It is considered that the anomaly is due to conductive overburden.

Diamond Drill Hole 66-6. This hole was drilled on claim P-61698 in order to investigate vertical loop anomaly V6. It was drilled to a depth of 502.0 feet. No metallic mineralization was obtained to account for the anomaly.

As the planned program of diamond drilling was completed and results did not justify continuing the program, operations were suspended on completion of hole 66-6.

Respectfully submitted,

M. E. M. CONSULTANTS LIMITED



Michael Zurowski, B.Sc., P.Eng.

Toronto, Ontario,
September 28, 1966

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PROPERTY
NORTH RANKIN NICKEL MINES

DIAMOND DRILL LOG

DIP TEST			COMMENCED April 14, 1966	ELEVATION	HOLE No. 66-1
FOOTAGE	Angle		FINISHED April 27, 1966	HOB. COM. 313 feet	SHEET No. 1
	Reading	Corrected	LOCATION Moberley Twp. Claim No. P58299	VERT. COM. 403 "	LOGGED BY L.J. D'Aigle
250	57°	55°	LATITUDE 40 50N of B.L.	AZIMUTH N 40° E	TOTAL RECOVERY nearly 100%
			DEPARTURE Line 20 00 East	LENGTH 511 feet	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			
From	To			From	To	Length				Averages
0	150	CASING, 0 - 75.0, Clay, 75.0 - 95.0, Gravel, 95.0 - 150, Silt								
150	188	ANDESITE BRECCIA, chloritized and carbonatized, breccia particles 1/4" to 2" in size; banding a few places at 25°-40°; minor pyrite;								
188	189.5	RHYOLITE, alternating dark grey and pink flow banding at 85°-90° pink phenocrysts near upper and lower contacts 2mm in size; very few small globules of quartz, spherical in shape, (possibly cristobalite) showing iridescence (spectral colors green, strong blue and purple) - sharp contacts, upper 80°-85° lower 80°-85°; very hard, aphanitic, pale green fresh fracture								
189.5	204.5	ANDESITE BRECCIA, as above, rough banding at 45°								
204.5	213.5	PORPHORITIC ANDESITE, carbonatized, partially chloritized, white largely oval shaped phenocrysts feldspar throughout, massive, homogeneous, light grey and pale greenish grey on freshly broken surface; phenocrysts 1mm in size; some banding at 45°; few very small spherical globules of (quartz); Upper contact 75-80, lower-85								
213.5	225.0	ANDESITE BRECCIA, as above, rough banding 45°; lower contact 45°? upper contact 70								
225	240.5	PORPHORITIC ANDESITE, as above, no banding								
240.5	246.5	ANDESITE BRECCIA, as above, upper contact 45°, lower 90°								
246.5	253.5	ANDESITE, medium grey green, chloritized, carbonatized massive, homogeneous, very few phenocrysts								
253.5	271.0	ANDESITE BRECCIA, as above, rough banding 45° contacts upper 30°, lower, 45° (90°?)								
271	283.5	RHYOLITE PORPHYRY, granite-like aspect because of abundance								

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DIAMOND DRILL LOG

DIP TEST			COMMENCED	ELEVATION	HOLE No. 16-1
FOOTAGE	Angle		FINISHED	HOB. COM.	SHEET No. 2
	Reading	Corrected	LOCATION	VERT. COM.	LOGGED BY
			LATITUDE	AZIMUTH	TOTAL RECOVERY
			DEPARTURE	LENGTH	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
From	To			From	To	Length				
		RHYOLITE PORPHYRY (cont.) - of poorly developed feldspar phenocrysts (50% or more) in an aphanitic groundmass; quartz also in spherical aggregates as described above but much more abundant; light grey, mottled white feldspar; pale greenish on fresh surface; an intrusive porphyry 274.0-275.0. inclusion, Andesite Breccia								
288.5	306.5	ANDESITE PORPHYRY, numerous phenocrysts of white feldspar in a dark grey aphanitic groundmass; some carbonatization and chloritization, massive, homogeneous contacts, upper 80°, lower 15°								
306.5	311.5	ANDESITE, as above, massive								
311.5	316.0	RHYOLITE PORPHYRY, poorly developed pink colored feldspar phenocrysts in aphanitic dark grey groundmass; spherical aggregates of (quartz) as above (give a deep blue or purple iridescence on core surface) ; finer grained near lower contact which is at 65°, strong alteration of intruded rock on lower contact - upper contact 80°								
336.0	350.0	RHYOLITE, pink phenocrysts feldspar sparsely scattered throughout, some flow banding, very hard, core surface medium grey and pale pink, also greenish on fractured surface; spherical aggregates of quartz sparsely throughout; several quartz carbonate stringers at 0° with salmon red alterations on walls. no contact between								
350	402.5	RHYOLITE, (similar to 336 - 350, save larger proportion of pink feldspar and some flow banding at 45° - sharp lower contact at 75° 0								
402.5	459.5	RHYOLITE, very similar to above but in part appears slightly coarser grained and divided into following subsections by slight difference in texture and colour; light grey with pale pinkish tinge; stringers quartz carb. at 20° throughout with accompanying bright salmon red alteration of walls								

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DIAMOND DRILL LOG

FOOTAGE	DIP TEST		COMMENCED	ELEVATION	HOLE No. <u>66-1</u>
	Angle		FINISHED	HOB. COM.	SHEET No. <u>3</u>
	Reading	Corrected	LOCATION	VERT. COM.	LOGGED BY
			LATITUDE	AZIMUTH	TOTAL RECOVERY
		DEPARTURE	LENGTH		

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS				Averages
From	To			From	To	Length					
402	5-459.5	RHYOLITE, (cont.)									
		402.5-424, grey with mottled pink tinge									
		424.0-448, core surface colour pale pink and with specks of ferromagnesian mineral (hornblende) altered to chlorite									
		433.5-434, 2" quartz carbonate veinlet at 30°, minor pyrite									
		448 - 459.5, Pale grey with pinkish tinge; few spherical quartz									
		N.B. no flow contacts observed between these subsections									
459	5-465.5	ANDESITE BRECCIA, sharp upper contact at 85°									
		lower contact at 5°									
465	5-511	RHYOLITE, similar to 402.5-459.5									
		465.5-490, scaly looking core surface, mainly light grey with slight pinkish tinge									
		490 - 511, very pale pink									
	511	END OF HOLE									

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NORTH RANKIN NICKEL MINES
DIAMOND DRILL LOG

FOOTAGE	DIP TEST		COMMENCED April 28, 1966	ELEVATION	HOLE No. 66-2
	Angle		FINISHED May 5th, 1966	HOR. COM. 227 feet	SHEET No. 1
	Reading	Corrected	LOCATION MOBERLEY TWP. Claim # P 58299	VERT. COM. 277'	LOGGED BY L.J. D'Aigle
collar	55°		LATITUDE 44° 70' N of B/L	AZMUTH S 40 W	TOTAL RECOVERY nearly 100%
230	55°	47.3°	DEPARTURE Line 20+00-E	LENGTH 354.0'	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
From	To			From	To	Length				
0	122	CASING								
122	152	RHYOLITE PORPHYRY (Granite), 152.0, sharp irregular contact								
152	154	DIABASE, fine grained contacts								
154	239	TUFF BRECCIA, 154 - 187, fragments more abundant and larger 187 - 233, fewer bombs, smaller fragments 154-154.5, quartz carbonate veinlet. 202.5-204, rusty weathered.								
239	240.5	RHYOLITE PORPHYRY (Granite), 239.0, contact sharp at 55°, flow banding, fine grained margins 240.5, contact 30°, no flow banding								
240.5	245.5	VOLCANIC BRECCIA, similar to tuff-breccia above but frag- ments more numerous and larger; banding 240.5, appears to contain fragment of rhyolite porphyry above 245.5, irregular sharp contact 0 - 5°								
245.5	302	RHYOLITE PORPHYRY, fine grained upper and lower contacts 302.0, contact 45°, banding 45°								
302	308.5	TUFF BRECCIA (Volcanic Breccia)								
308.5	316.5	FELSOPHYRE, pale green-grey, very hard, massive, spotted with small blotches green-grey mineral, con- tains small incl. breccia near upper contact finer grained on contacts, aphanitic groundmass 308.5, contact, 35° 316.5 contact, 45° irregular								
316.5	354.0	RHYOLITE PORPHYRY, (Granite)								
354		END OF HOLE								

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PROPERTY NORTH RANKIN NICKEL MINES DIAMOND DRILL LOG	DIP TEST		COMMENCED May 6, 1966	ELEVATION	HOLE No. 66-3
	FOOTAGE	Angle		FINISHED May 17, 1966	HOR. COM. 341'
		Reading	Corrected	LOCATION Claim No. P61690 Wobesley Twp.	VERT. COM. 408'
	Gollar	55°		LATITUDE 7 25 N of B/L	AZIMUTH N 40 E
250	63 1/8°	57°	DEPARTURE Line 4 00 W	LENGTH 606	TOTAL RECOVERY nearly 100%
600	60 3/8°	53 1/8°			

Footage From To	DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
			From	To	Length	CU	NI	AU	
0 100	CASING								
100 103	RHYOLITE								
103 105	DIABASE, flat contacts with little pyrite, pyrrhotite								
105 111.5	RHYOLITE BRESCIA, minor pyrrhotite								
	109 - 110, Diabase, flat contacts								
11.5-129.5	DIABASE, minor disseminated pyrrhotite & pyrite								
	111.5, sharp contact 80°								
	129.5 " " 80°								
	113.5-115.5, Quartz-Carbonate Vein, contacts at 80°								
129.5-148	VOLCANIC BRECCIA (Tuff & Rhyolite) heterogeneous								
148 162	TUFF, very fine grained (dust, ash) few fragments, pyrrhotite pyrite along minute fractures, blue grey								
162 163.5	DIORITE (Granodiorite?) lower contact at 30°, upper 90° alters tuff on lower contact to pale olive green								
163.5-178	TUFF, light blue grey, fine grained, alterations appear talcose and chloritic and are pale olive green in color								
	172.0-173.0, ALTERED TUFF pod of pyrrhotite and chalcopyrite								
	177.0-178.0, Partially altered tuff								
178 183	COARSE TUFF fragment of this formation contained in above tuff at upper contact, fragments 1mm and less, upper contact 30°, lower, 30°?; possibly good marker horizon								
	179.5-180.5, fine grained tuff as above - contact flat								
183 250	TUFF								
	183.0-185.0, ALTERED TUFF, good pyrrhotite mineralization								
	196.0 197.0, ALTERED TUFF, pyrrhotite	6621	241	243.5	2.5	0.04	None	Nil	

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DIAMOND DRILL LOG

FOOTAGE	DIP TEST		COMMENCED	ELEVATION	HOLE No. 66-3
	Angle		FINISHED	HOR. COM.	SHEET No. 2
	Reading	Corrected	LOCATION	VERT. COM.	LOGGED BY
			LATITUDE	AZIMUTH	TOTAL RECOVERY
			DEPARTURE	LENGTH	

Footage From	To	DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
				From	To	Length	CU	NI	AU	
		201.0-223.0, ALTERED TUFF, fair amount pyrrhotite & pyrite along minute fractures								
		227- 230.0, ALTERED TUFF - 2-3% pyrrhotite, pyrite and minor chalcopyrite								
		230, quartz veinlet at 30°								
		233.5-243.5 ALTERED TUFF, 2% pyrrhotite-pyrite, minor chalcopyrite								
		250.5-252.5, ALTERED TUFF, minor pyrrhotite-pyrite								
		252.5-259.0 3-3" bands of altered tuff								
259	267	DIORITE, chilled contacts with wall rock inclusions at upper contact at 70°, lower 60° - good mineralization on both contacts (not as basic as common diorite also porphyritic texture with accompanying quartz in succeeding sections - possibly quartz granodiorite porphyry)								
		259.5, 1/2" quartz carbonate vein with 1" pod massive sulphides in proportion 85% pyrrhotite, 10% pyrite, 5% chalcopyrite								
		263.7-265.0, QUARTZ CARBONATE VEIN at 70°, containing 2-1 1/2" pods massive sulphides (99% pyrrhotite, 1% chalcopyrite)								
		265.5, quartz carbonate veinlet at 65°								
267	291.5	TUFF								
		267.0-278.0, ALTERED TUFF, 2-3% sulphides, mainly pyrrhotite, pyrite banding by alteration at 45°	6622	267	274	7.0	0.02	-	0.01	
		267.0-268.0, 3% sulphides, pyrr., pyrite, chalcopyrite								
		278.0-291.5, only narrow bands of alteration-several								
		282.0-291.5, Rhyolitic, appears fragmental								
291.5	301.0	RHYOLITE, heterogeneous, bombs or fragments of tuff upper and lower contacts at 80°								
301	308	TUFF (VOLCANIC BRECCIA), bombs lower contact 75°								
308	322	RHYOLITE, some volcanic frag's and tuff, lower contact possibly 85° ?								

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DIAMOND DRILL LOG

PROPERTY	DIP TEST		COMMENCED	ELEVATION	HOLE No. 66-3
	FOOTAGE	Angle		FINISHED	HOR. COM.
		Reading	Corrected	LOCATION	VERT. COM.
				LATITUDE	AZIMUTH
				DEPARTURE	LENGTH
					SHEET No. 3
					LOGGED BY
					TOTAL RECOVERY

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
From	To			From	To	Length	CU	NI	AN	
372	377.5	QUARTZ DIORITE, (quartz granodiorite porphyry) massive, homogeneous minor disseminated sulphides								
371.5	383	DIABASE, chilled contacts, upper 87°, lower 30°								
383	387.5	QUARTZ DIORITE, as above								
387.5	389.0	FELSIC MREE								
389	453.5	QUARTZ DIORITE 453.5, SHARP CONTACT @ 80°								
453.5	487.5	TUFF, (ALTERED) 460.0-467.0, 2% sulphides, mainly pyrrhotite 467.0-481.0 4% " " " 481.0-487.5, 15% " 90% pyrrhotite 487.5, contact at 5°	6623	481	485	4.0	0.03	None		
			6624	485	487.5	2.5	0.06	None		
487.5	491.0	RHYOLITE 490.0-491.0, 10% pyrrhotite and some magnetite 491.0, contact 45°								
491.0	494.0	TUFF, very little alteration or mineralization	6625	493	495	2.0	0.06	None		
			6626	495	500	5.0	0.02	None		
494.0	541.0	RHYOLITE, gradual increase in magnetite content throughout section from 5 to 30 percent; and variable sulphide content of mainly pyrrhotite, pyrite and little chalcopyrite from 2 to 20 percent, rhyolite with black and green luster	6627	500	505	5.0	0.03	None		
			6628	505	510	5.0	0.03	None		
			6629	510	513	3.0	0.03	None		
			6630	513	516	3.0	0.07	None		
			6631	516	520	4.0	0.03			
			6632	520	525	5.0	0.02			
			6633	525	530	5.0	0.02	None		
541.0	561.0	QUARTZ DIORITE, as above, sulphide concentrations on both contacts (pyrite, pyrrhotite & minor chalcopyrite) upper and lower contacts at 90°	6634	530	535	5.0	0.01			
			6635	535	537.5	2.5	0.02			
			6636	537.5	541	3.5	0.06	None		
561	578.0	RHYOLITE (IRON FORMATION), 45% magnetite, very little sulphides, magnetite banding at 0-5°	6637	561.0	565	4.0	0.03	None		
			6638	570	575	5.0				

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NORTH RANKIN NICKEL MINES

DIAMOND DRILL LOG

DIP TEST		COMMENCED May 17, 1966	ELEVATION	HOLE No. 66-4
FOOTAGE	Angle	FINISHED May 31, 1966	HOB. COM. 415'	SHEET No. 1
	Reading	LOCATION Claim No. P58293 Moberley Twp.	VERT. COM. 583'	LOGGED BY L.J. D'Aigle
Collar	Corrected		AZIMUTH N 40 E	TOTAL RECOVERY 98%
350'	55°	LATITUDE 6 50 N of B/L	LENGTH 715'	
	61°	DEPARTURE 24 00 W		
	54°			

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			
From	To			From	To	Length				Averages
0	125	CASING								
125	159.5	TUFF (Silicified & Partially Chloritized)								
		125 - 129, light grey tuff, few fragments, fine grained								
		129 - 136, Silicified tuff (rhyolite ?)								
		136 - 139, medium grey fine grained tuff								
		139, sharp irregular contact 20°								
		139 - 146, GRANITE								
		146 - 151, Silicified Tuff								
		151, sharp contact 20°								
		151 - 152.5, Basic completely chloritized band with few fragments								
		152.5, sharp contact 30°								
		152.5-159.5, Silicified Tuff								
		159.5, Sharp contact 45°								
159.5	273.5	GRANITE, medium grained, typical								
		189.5-197, (Silicified Tuff)								
		189.5, indefinite contact 45°								
		197 contact 35-45° (?)								
		261 - 271.5, Basic Marginal Facies of Granite								
		271.5-273.5, Feldspathized altered zone								
273.5	298.0	BASIC TUFF, dark grey to black, aphanitic, small rounded white fragments, hard, massive								
		273.5, irregular contact 10 - 20°								
		298.0, sharp contact 45°								
298.0	312.5	PORPHYRITIC GRANITE, white feldspar & blue quartz phenocrysts								
		312.5, basic marginal facies, contact 45°								
312.5	367.5	TUFF, light & medium grey, few frag's mainly less 2mm, several spindle shaped bombs, alteration increases in intensity towards lower contact								
		312.5-356.0, little alteration,								
		356.0-367.5, dark grey to black, small rounded fragments some								

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DIAMOND DRILL LOG

FOOTAGE	DIP TEST		COMMENCED	ELEVATION	HOLE No. 66-4
	Angle		FINISHED	HOB. COM.	SHEET No. 2
	Reading	Corrected	LOCATION	VERT. COM.	LOGGED BY
			LATITUDE	AZIMUTH	TOTAL RECOVERY
			DEPARTURE	LENGTH	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS				Averages	
From	To			From	To	Length						
312.5	404.0	TUFF (Cont.) 356.0-367.5, (Cont.) appear to be amygdules 367.5-382.5, like 312.5-356.0, 382.5-404.0, Intensely Silicified & Chloritized Tuff appear rhyolitic, little sulphide mineralization mainly pyrite 404.0, Sharp contact 65°										
404	443.5	PORPHORITIC (DIORITE) creamy white phenocrysts feldspar, dark grey aphanitic groundmass 443.5, sharp contact 85°										
443.5	485.5	ALTERED TUFF, silicified, chloritized, epidotized 485.5, contact sharp at 45°										
485.5	499	PORPHORITIC (DIORITE), 70% phenocrysts (porphyry) 499.0, contact sharp at 45°										
499	524	ALTERED TUFF, chloritized, silicified, light & med. grey 524.0, indistinct contact 45°										
524	560	DIORITE PORPHYRY, same as 485.5-499, 50% phenocrysts 560.0, contact 30° 533-535, ALTERED BASIC DYKE (DIORITE)										
560	680	TUFF, 560.0-574.0, Altered Tuff, silicified chloritized 574.0-590.0, dark grey to black, Imm frag's rounded, angular 590.0-601.0, light grey, little alteration 601.0-619.0, some banding 20° (with rhyolite?) 619.0-631.5, same as 574-590 631.5-642.0, silicified, pale grey aphanitic 642.0-660.5, like 574-590 642.0, contact 30°, 660.5, contact 35° 660.5-680.0, Altered Tuff, silicified chloritized 670-672, DIORITE, upper & lower contact 75°										

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PROPERTY

DIAMOND DRILL LOG

DIP TEST		COMMENCED	ELEVATION	HOLE No. <i>66-4</i>
FOOTAGE	Angle		HOR. COM.	SHEET No. <i>3</i>
	Reading	Corrected	VERT. COM.	LOGGED BY
		LOCATION	AZIMUTH	TOTAL RECOVERY
		LATTITUDE	LENGTH	
		DEPARTURE		

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
From	To			From	To	Length				
		<u>680.0, contact 45°</u>								
680	715	<u>GRANITE, similar to 159.5-273.5</u>								
	715	<u>END OF HOLE</u>								

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REPORT #10

PROPERTY NORTH RANKIN NICKEL MINES DIAMOND DRILL LOG	DIP TEST		COMMENCED June 2, 1966	ELEVATION	HOLE No. 66-5
	FOOTAGE	Angle		FINISHED June 13, 1966	SHEET No. 1
		Reading	Corrected	LOCATION Claim No P58286 Moberley Twp.	HOR. COM. 322'
	collar 250'	55°	47°	LATITUDE 25+50 N	VERT. COM. 380
			DEPARTURE 16 00 W	LENGTH 497 ft.	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			Averages
From	To			From	To	Length				
0	130	CASING								
130.0	175	ALTERED ANDESITE, feldspathized, carbonatized, chloritized 154.0-157.0, less altered band 161.5-162.5, 15% pyrite 173.0-183.0, bleached andesite (sericitized, carbonitized)								
173	183	BLEACHED ANDESITE, (carbonitized & Sericitized andesite) 183.0, indistinct contact 80° (?)								
183	206.5	RHYOLITE PORPHYRY (GRANITE) with quartz-carbonate stringers and veinlets at 45° and 30° - alteration banding at 45 - pyrite mineralization scattered throughout on fractures and stringers 196.5 - 2" qu.-carb. veinlet at 50° 201.0, 3" band containing 20% pyrite at 45° 202.0-203.5, quartz carb stringers at 45°, 10% pyrite 206.5, indistinct contact								
206.5	219	ALTERED ANDESITE, mainly feldspathization, chloritized, minor pyrite 219 contact (possibly 50°?) or alteration banding								
219	300	ANDESITE, bleached, contains few fragments 300.0, contact 15°								
300	308.5	Feldspar Felsophyre phenocrysts become more abundant towards lower contact (last 1 1/2') 308.5, sharp contact at 25°								
308.5	323.5	FELDSAPR FELSOPHYRE from 308.5 to 318.0 few scattered phenocrysts - become more abundant toward lower contact. 323.5, contact 5-10°								
323.5	327.5	ANDESITE, aphanitic, massive 327.5 sharp contact 45°								

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PROPERTY

DIAMOND DRILL LOG

DIP TEST		COMMENCED	ELEVATION	HOLE No. 66-5
FOOTAGE	Angle		FINISHED	HOR. COM.
	Reading	Corrected	LOCATION	SHEET No. 2
			VERT. COM.	LOGGED BY
			LATITUDE	TOTAL RECOVERY
		DEPARTURE	LENGTH	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS			
From	To			From	To	Length				Averages
327.5	339.5	FELDSPAR FELSOPHYRE, sparse number of phenocrysts 339.5, sharp contact at 45°								
339.5	353	FELDSPAR FELSOPHYRE, the odd phenocryst 353.0, sharp contact 45°								
353	394.5	FELDSPAR FELSOPHYRE, 40% phenocrysts throughout 394.5, basic, silicified obscured contact								
394.5	421	ANDESITE, chloritized, carbonatized, few fragments 421.0, contact 30°								
421	432.5	ALTERED PORPHYRITIC ANDESITE (?) 429.0, 2-3" quartz-carbonate veinlet at 30° with massive pods pyrrhotite and pyrite 30% 432.5, sharp contact 75°								
432.5	437	ANDESITE, medium grained, few phenocrysts 432.5, contact (siliceous alteration) 437.0, contact 70° (?)								
437.0	442	ANDESITE, fine grained, some flow banding at 45° & 55° 440.0-442.0, core in small pieces								
442	456.5	ANDESITE, medium grained, few phenocrysts, few fragments, some flow banding (449.0, possible contact at 80°) 452.0, contact(?) at 35° 456.5, sharp contact 70°								
456.5	472.5	ANDESITIC VOLCANIC BRECCIA, 20-30% fragments 471.0-474.0, core in fine pieces								
472.5	491	ANDESITE, medium grained, bleached 491.0, sharp contact 50°								
491	497	FELDSPAR FELSOPHYRE END OF HOLE								

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REPORT 10

PROPERTY

NORTH RANKIN NICKEL MINES

DIAMOND DRILL LOG

DIP TEST			COMMENCED ¹⁹⁶⁶ June 16	ELEVATION	HOLE No. 66-6
FOOTAGE	Angle		FINISHED June 25, 1966	HOR. COM 290'	SHEET No. 1
	Reading	Corrected	LOCATION ^{Claim P 61698} ROBERLEY TWP	VERT. COM 416'	LOGGED BY L.J. D'Aigle
Collar 250'	55°		LATITUDE 20 00 N	AZIMUTH S 40 W	TOTAL RECOVERY excellent
	58 1/2°	51 1/2°	DEPARTURE 28 00 E	LENGTH 502 ft.	

Footage		DESCRIPTION	Sample No.	FOOTAGE			ASSAYS		Averages
From	To			From	To	Length	Au.		
0	151	CASING							
151	263	FELSPAR FELSOPHYRE, massive, hard, medium grey, porphyritic 151 - 153.0, completely feldspathized and chloritized 152, 1 1/2" band massive chlorite with 25% coarse, crystal pyrite at 80° 174.0, 3" quartz veinlet at 70° - feldspathized margins 217.5, 2" quartz veinlet at 25°, tourmaline, no sulphides 248.5-249.0, completely feldspathized 263.0, Sharp contact at 45°, truncates bedding nearly at 90°							
263	295	TUFF, bedding at 45°, carbonatized throughout, quartzitic-greywacke like layers, few small rounded and angular fragments, locally massive with no banding, locally 5 to 10% massive chloritized sections, pyrite							
295	393	FELDSPAR FELSOPHYRE, massive, homogeneous throughout 393.0, Sharp contact at 30°							
393	471.0	VOLCANIC BRECCIA, TUFF BRECCIA, TUFF, (no distinct contacts between) mainly well bedded but with massive sections no banding, rounded and angular fragments throughout, locally agglomeritic 393.0-402.0, coarse, basic, chloritized, volcanic breccia - no banding 402.0-407.0, basic tuff breccia; banding 35 to 40° (bedding) 407.0-434.0, coarse banded tuff breccia, bedding at 45° 428.0-447.0, bedding at 75 - 80° 434.0-471.0, mainly massive fine grained tuff with few small fragments 471.0, Sharp contact at 20°	6640 6641	433.0 418.0	434.5 419.5	1.5' 1.5'	Nil Nil	Pyritized Tuff " "	
471.0	502	FELDSPAR FELSOPHYRE, as above							
502		END OF HOLE							

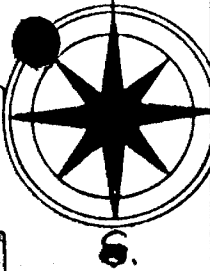
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CT OF COCHRANE.

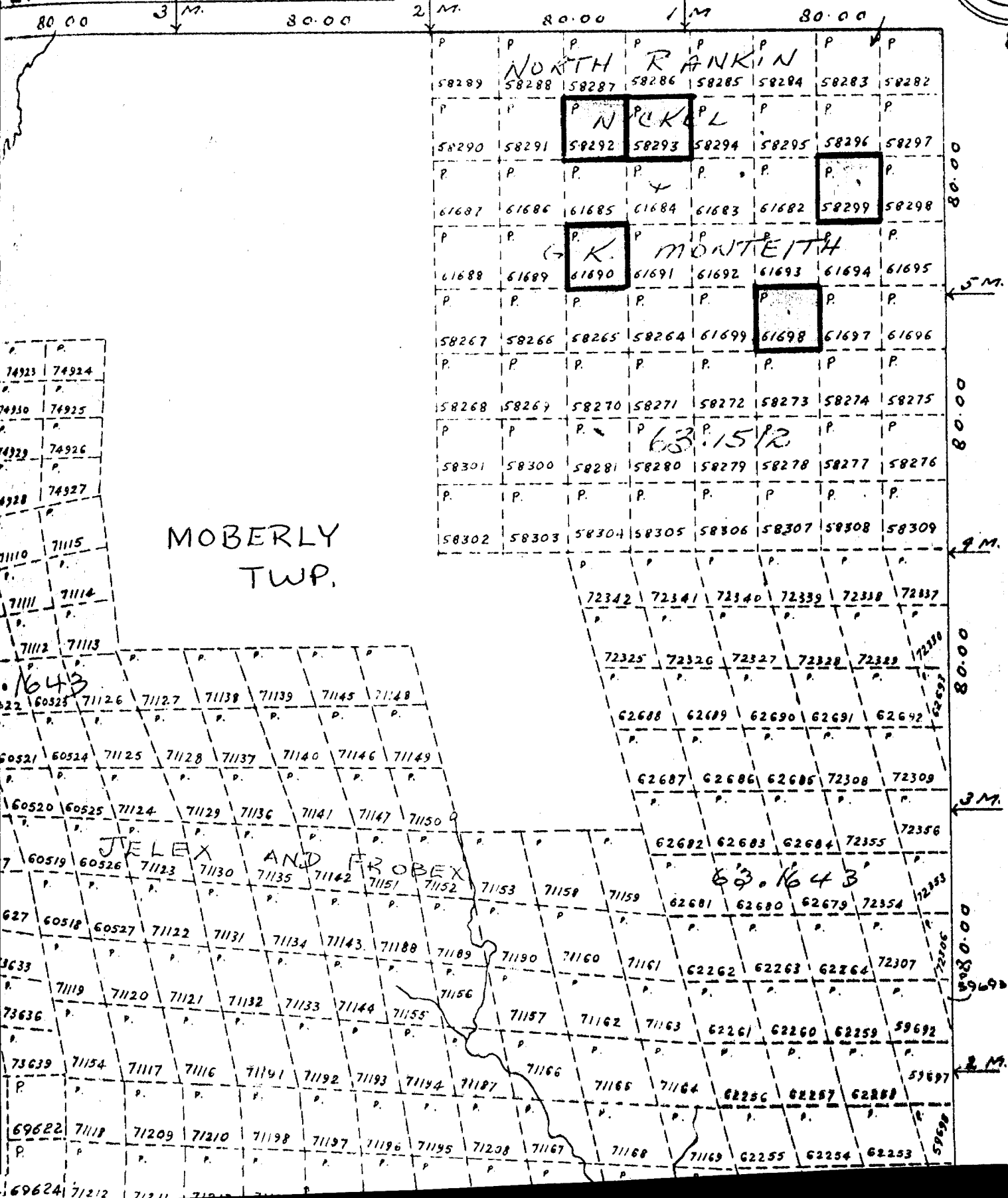
40 chains to an inch.

NOTE

400' Surface Rights Reservation
around all Lakes and Rivers W.



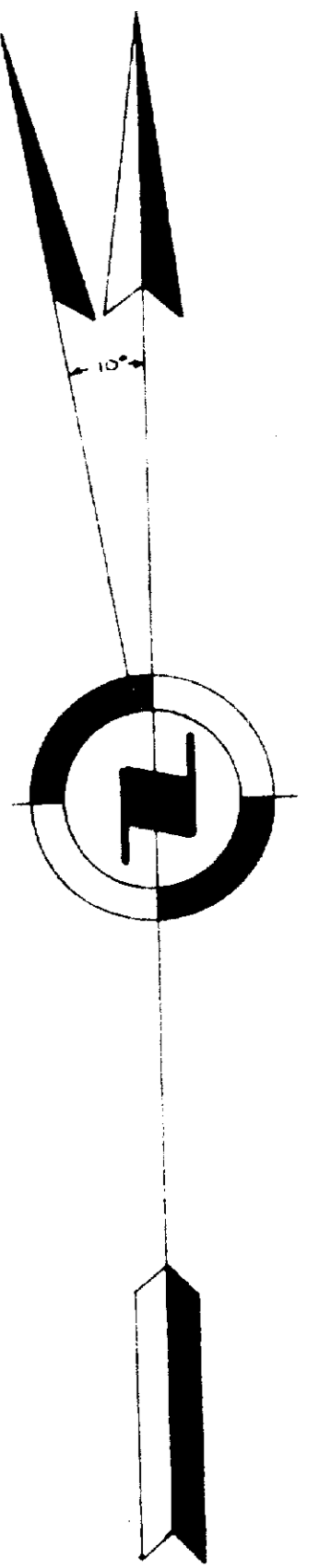
ALMINA. TWP.



THORBURN TWP.

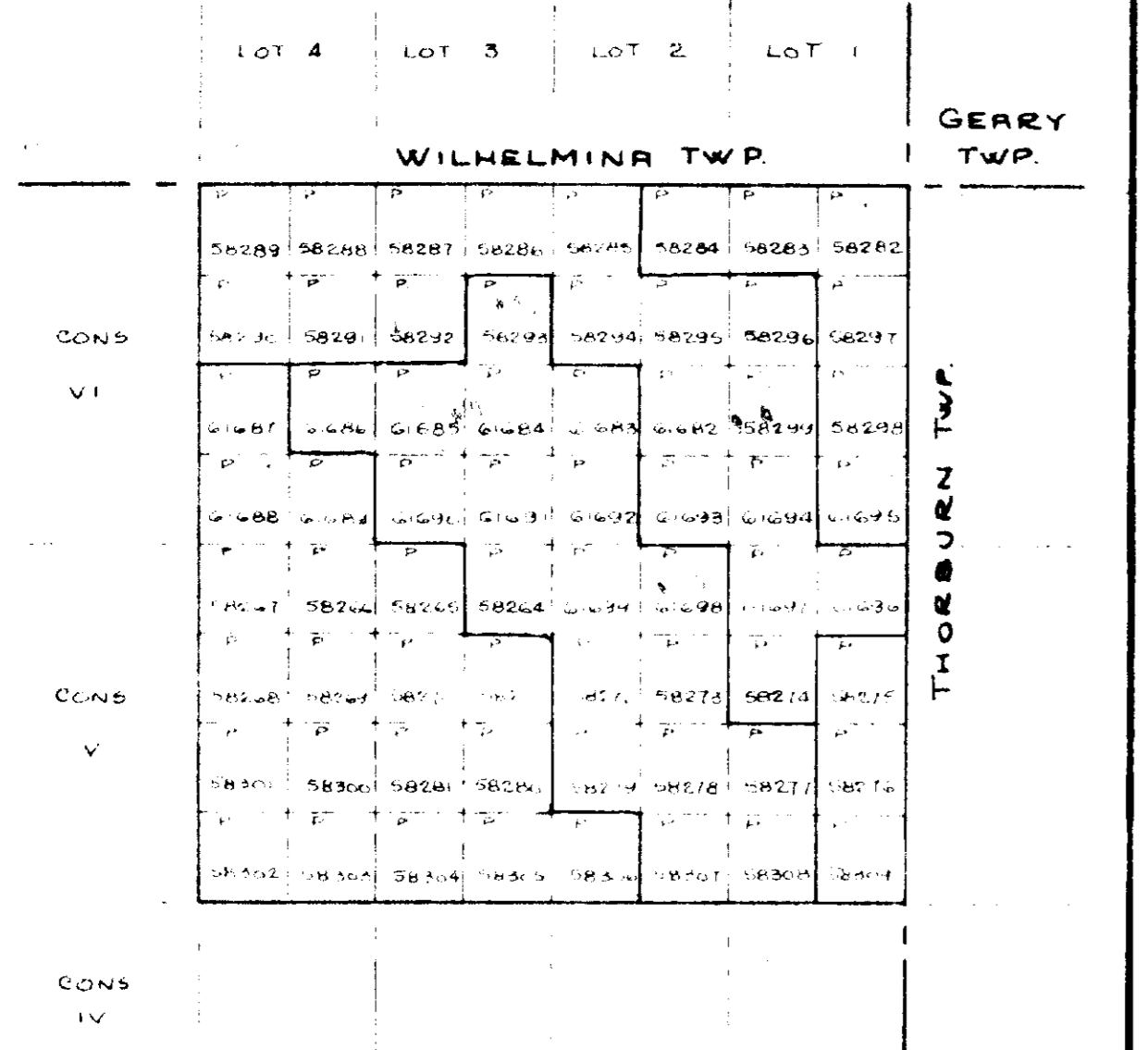
WILHELMINA TOWNSHIP
MOBERLY TOWNSHIP

GEARY TOWNSHIP
THORBURN TOWNSHIP



SYMBOLS

● Location Diamond Drill Hole.



KEY MAP
1" = 1/2 MILE

Moberly 10

NORTH RANKIN NICKEL MINES LIMITED		
MOBERLY TOWNSHIP --- PORCUPINE MINING DIVISION --- ONTARIO		
SURFACE PLAN		
DATE FEBRUARY 7, 1966 Sept. 28th, 1964	SCALE 1 INCH = 400 FEET	DRAWN BY <i>MF</i>
M.E.M. CONSULTANTS LTD.		

