



010

Diamond Drilling

Township of OATES

Report No: 10

Work performed by: Amax Explorations

Claim No	Hole No	Footage	Date	Note
P.256477	KX-65-71	837'	June/71	(1)
	KX-66-71	628'	July/71	(2) (3)
		<u>1465'</u>		

Notes:

(1) 81/74 See Oates & Nova Twp.

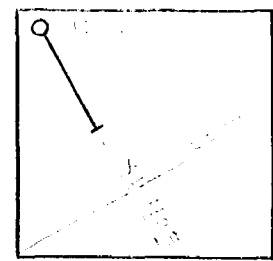
(2) 94/72

(3) Autopositive enclosed

AMAX EXPLORATION, INC.  
DIAMOND DRILL RECORD

Hole No. KX-65-71

Hole No. KX-65-71	Sheet 1	Length 837'	Commenced June 30, 1971	Dip: Collar 46°
Property Nova-Oates Group 2		Bearing 150°	Completed July 14, 1971	Etch Test
Township Nova OATES		Dip 45°	Drilling Co. Bradley Bros.	Depth
Location 40+00E		Objective Test electromagnetic anomaly with coincident and flanking magnetic anomaly.	Core Size 20	Rdg.
12+50N			Casing Left in Hole Non	True
Logged by: S.A. Averill				50' 53° 47°
				250' 50° 44°
				450' 48.5° 42.5°
				837' 41.0° 36°
Remarks Water source 2500' west at 18+00E, 12+00N. Camp location 44+00E 2+00N. Drill moved from end of Oates Twp. road to set-up by swamp buggy.				Location Sketch
				North ↑
				Claim No. 256477
				Scale: 1" = 1000'



Footage		DESCRIPTION
From	To	
0	34	OVERBURDEN
34	43	BASALT Hornblende-biotite gneiss with minor calcite. Hb.>bt. except for narrow bt.-rich layers. Trace chalcopyrite in 3/4" g.v. at 12.5.
43	44.5	GRANODIORITE Dike. Fine-grained, 7% bt.
44.5	70.8	BASALT Massive-to-gneissic. Gneissosity variable 20°-30°. 40-50% hb., minor garnet. Trace to 1% py throughout, greatest in carbonate-rich layers.
70.8	100.8	BASALT. Garnetiferous. Local sub-concordant quartz-carbonate veins and patches with shreddy texture. Trace po. throughout. Trace cpy in qtz -carb. vein at 75.6.
100.8	103.7	GRANODIORITE Dike. Coarse-grained.
103.7	110.1	BASALT Garnetiferous hb-bt gneiss with trace po-py.
110.1	110.8	GRANODIORITE
110.8	124	BASALT Garnetiferous hb-bt gneiss. Gneissosity at 20°.
124	143	GRANITE Leucocratic. 1% py, trace fluorite.
143	151	BASALT Hb-bt gneiss.

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DIAMOND DRILL RECORD

Hole No. KX-65-71  
Sheet No. 2

Footage		DESCRIPTION	
From	To		
151	151.6	APLITE	Dike.
151.6	157.5	BASALT	Hb-bt gneiss with numerous shreddy qtz-carb veins. Veins contain chlorite, garnet, trace po, py, and cpy. Trace po in gneiss.
157.5	158	GRANODIORITE	
158	162	BASALT	
162	163.5	GRANODIORITE	Dike. Fine-grained.
163.5	168	BASALT	Garnetiferous hb-bt gneiss with numerous shreddy qtz-carb veins.
168	168.5	PEGMATITE	White.
168.5	173.5	BASALT	Garnetiferous hb-bt gneiss. Gneissosity at 35°.
173.5	175.8	GRANODIORITE	
175.8	180.5	BASALT	Trace po.
180.5	181.5	GRANITE	Fine-grained, muscovitic. Trace po.
181.5	182.5	BASALT	
182.5	185.1	APLITE	Fractured with py on fracture surface.
185.1	201.5	PERIDOTITE	Actinolite-talc-carbonate schist with bt segregations. Trace po.
201.5	204	GRANODIORITE	Medium-grained. Foliated.
204	209	GRANODIORITE	
209	212	PERIDOTITE	Talc-calcite-actinolite schist.

AMAX EXPLORATION, INC.  
DIAMOND DRILL RECORD

Hole No. KX-65-71  
Sheet No. 3

Footage		DESCRIPTION	
From	To		
212	213	APLITE	Fractured
213	225.4	PERIDOTITE	Talc + actinolite with 20% calcite segregations. Local magnetic biotite-rich dikes (pyroxenite).
225.4	226.5	GRANODIORITE	Chloritic.
226.5	253	PERIDOTITE	Talc-carbonate schist. Slightly magnetic. No sulphides. Numerous pyroxenite dikes. Serpentinite at 236. Schistosity at 35°. Carbonate locally a bluish colour.
253	257.5	PERIDOTITE	Coarse-grained talc-chlorite-carbonate schist.
257.5	283	PERIDOTITE	Chlorite-carbonate-actinolite-biotite schist. Green-to-white calcite. Trace po to 280. 3% po, trace py 280-283.
283	287.5	ARGILLITE	Minor chlorite-carbonate schist bands. 10% po, minor py, trace cpy. Po occurs as stringers to 1/4" wide. 3" massive py 285.8-286.
287.5	293	PERIDOTITE	Garnetiferous. 5% po 287.5-289. Trace po to 293.
293	294	PEGMATITE	White. Fractured.
294	295	PERIDOTITE	Biotite + actinolite + minor calcite.
295	297	MONZONITE	Pink, porphyritic. Fractured, fractures filled with py.
297	367.8	PERIDOTITE	Chlorite-carbonate-talc-biotite gneiss and schist. Garnetiferous. Calcite and mafics in 0.5-3mm layers. Gneissosity at 30°. Dissem. py to 1%. Trace po. Pyroxenite dike 333-334.5. Local aplite and porphyritic monzonite dikes.
367.8	373	GRANITE	Composite dike of white granite and biotite granodiorite. 1% po, trace cpy.

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DIAMOND DRILL RECORD

Hole No. KX-65-71  
Sheet No. 4

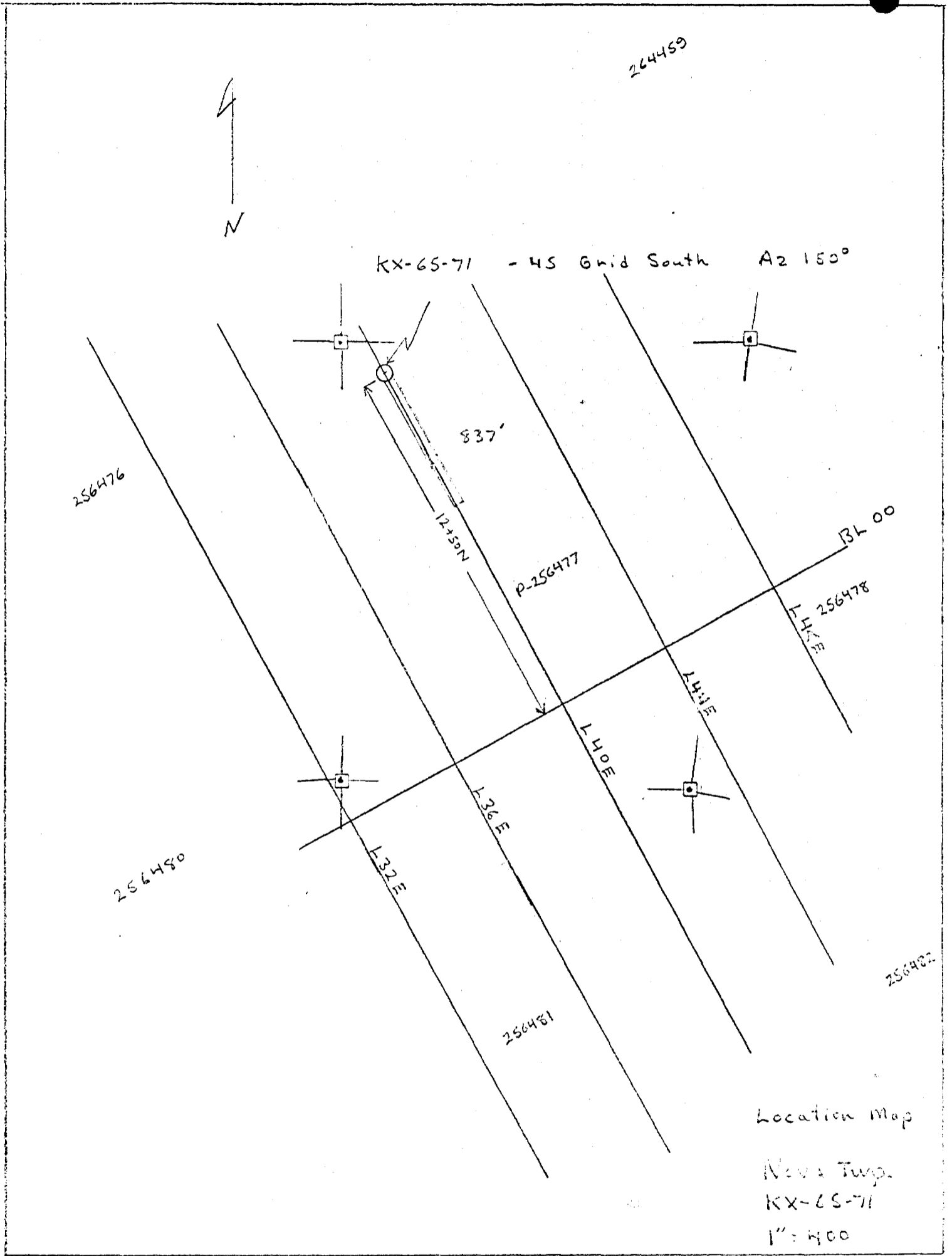
Footage		DESCRIPTION	
From	To		
373	392	PERIDOTITE	Garnetiferous chlorite-biotite-carbonate gneiss.
392	420	PERIDOTITE	Chlorite + biotite + carbonate + actinolite, locally coarse massive actinolite. Some sections up to 70% calcite. Trace po, py. 8" greygranitic dike at 398.
420	421.5	GRANODIORITE	Grey.
421.5	460.8	PERIDOTITE	Actinolite-biotite-carbonate gneiss and serpentinite. 6" leucogranite at 451, 14" grey granite with 1-2% po at 453.
460.8	463	GRANITE	Composite leucogranite-grey granite dike with serpentinite xenoliths.
463	465.1	PERIDOTITE	Serpentinite and massive actinolite + carbonate.
465.1	470.2	PERIDOTITE	Fine-grained porphyritic (contact zone) Augite (?) phenocrysts in carbonate-phlogopite-amphibole matrix. 1" inclusion argillite 467.8.
470.2	477	ARGILLITE	10-20% graphite, 3-5% py as stringers and disseminations along bedding plane. Trace galena and sphalerite in 0.5 mm brown carbonate veinlets.
477	478.5	DACITE	Tuff and lapilli tuff. Beds 2"-4" thick. Bedding at 65°.
478.5	494	ARGILLITE	10% disseminated graphite, numerous graphitic shears. 3-5% py as stringers and dissem.
494	499	PERIDOTITE	Porphyritic. As 465.1-470.2.
499	503	ARGILLITE	10% graphite, 2-5% py. Layering at 40°
503	570	PERIDOTITE	Actinolite-biotite-carbonate gneiss, talc-actinolite schist, and massive actinolite. Trace po. Local magnetic

AMAX EXPLORATION, INC.  
DIAMOND DRILL RECORD

Hole No. KX-65-71  
Sheet No. 5

Footage		DESCRIPTION	
From	To		
570	582.5	GRANODIORITE	Fractured dike. 1' lamphrophyre dike at 576.
582.5	601	PERIDOTITE	Carbonate-serpentine-actinolite gneiss. 50-6% calcite. Trace po.
601	672	PERIDOTITE	Mainly massive actinolite-tremolite-serpentine-carbonate rock with local biotite-rich layers. Garnetiferous and calcite-rich 662-665. Mariposite at 672. 1-2% po throughout. Pyroxenite dike at 650. Granodiorite 624.7-630.
672	692	ARGILLITE	10% graphite on cleavage planes, numerous graphitic shears 5% py and minor po occurs as disseminations and 1-5 mm stringers. Granitic dikes at 677.5, 679-681, 682-685, 685.5-688.
692	697	RHYOLITE	Bedding at 40°. Fine-grained. 5% dissem. py-po.
697	701	ARGILLITE	10% graphite. 5% po, minor py, trace cpy.
701	712	ARGILLITE	15% graphite. 10-15% po, estimated 0.2% cpy, trace sphalerite. Py occurs mainly as 1-10 mm concordant stringers, po in minute random fractures. Granitic dike with 5% dissem po 707-708.
712	714	ARGILLITE	10% graphite, 5% py.
714	749.8	DACITE	Tuff, finely interbedded with argillite. Bedding at 30%. 5% dissem. po-py.
749.8	753	SHEAR ZONE	Green, chloritic.
753	757	ARGILLITE	30% graphite
757	769	ARGILLITE	Finely interbedded with dacite tuff. 5-7% py-po.
769	777.5	DACITE	Tuff. Minor argillite interbeds. 3-5% py-po.





Location Map

Newa Twp.

KX-65-71

1" = 400



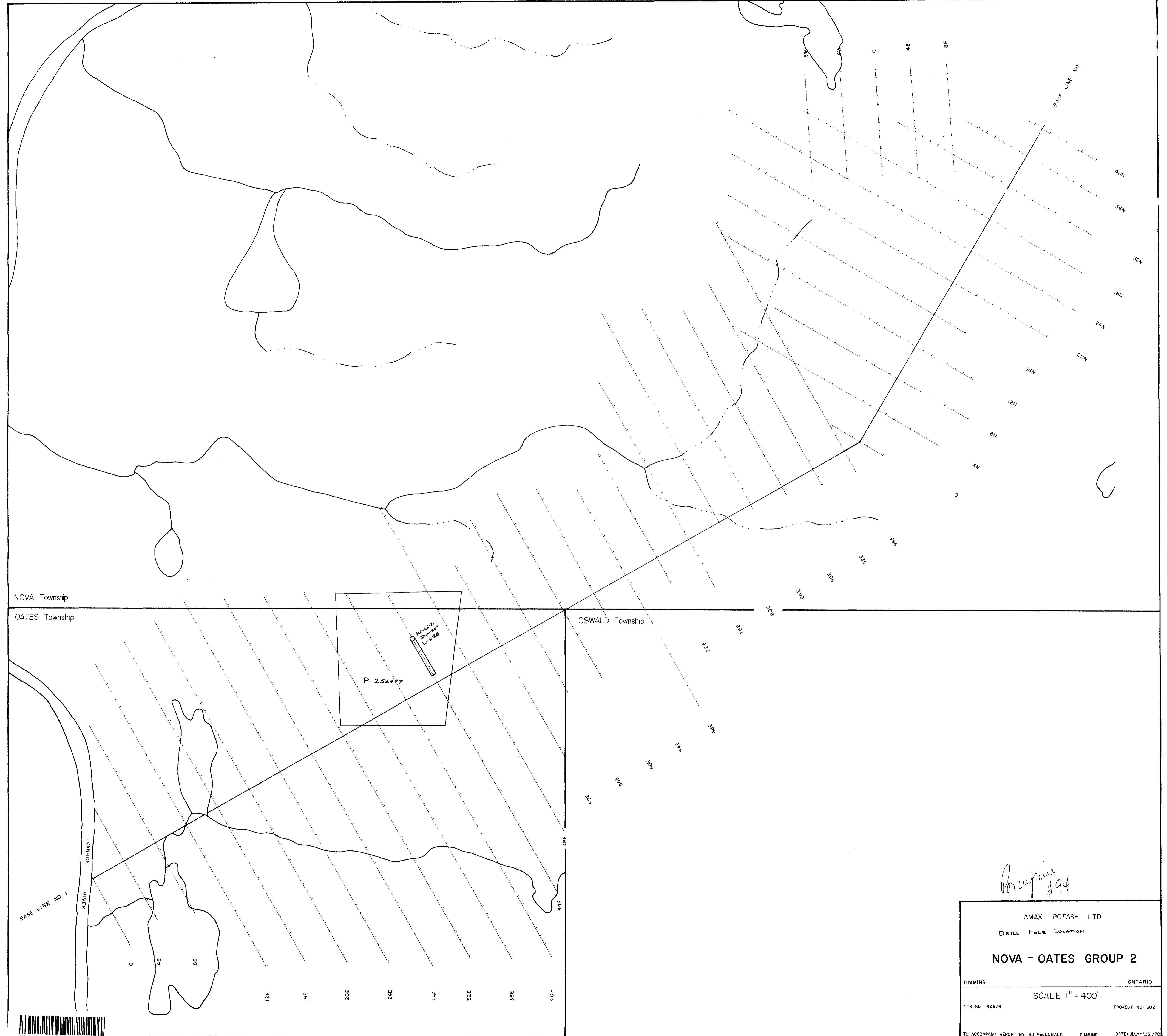


AMAX EXPLORATION, INC.  
DIAMOND DRILL RECORD

Hole No. KX-66-71  
Sheet No. 2

Footage		DESCRIPTION	Sample No.	From	To	Length	Cu ppm	Zn ppm	Ni ppm	Ag ppm	Au oz/ton
From	To										
219	256	PERIDOTITE Actinolite + minor serpentine. 30% calcite as segregated layers. Trace po.	1	235.0	237.0	2.0	22		450		
256	260	APLITE									
260	515	PERIDOTITE Mineralogy variable from massive actinolite through biotite + actinolite to actinolite + serpentine with calcite segregations. Pyroxenite dikes at 346 and 395-398. Basalt xenolith at 343-444.5. Trace po.									
515	518	ARGILLITE 20% graphite, 5-10% py. as stringers and disseminations.	2	515.0	518.0	3.0	230				
518	520.4	GRANITE Grey. Fractured, brecciated. 5% py.									
520.4	521.5	MASSIVE GRAPHITE 5% py	6	520.4	521.5	1.1	154	780			
521.5	532	GRANITE Grey. 1-2% py.									
532	555	ARGILLITE Graphite content variable 20-100%. 5-10% pyrite as stringers, blebs, and disseminations. Strongly brecciated and veined with calcite 541-550. Trace cpy in calcite. 6" feldspar porphyry dike at 551.	7 8 3 4 9 10	532.0 535.0 540.0 545.0 550.0 551.4	535.0 540.0 545.0 550.0 555	3.0 5.0 5.0 5.0 0.9 0.6	119 93 385 1570 137 110	342 139 146 129 59 420			
555	557.5	RHYOLITE Tuff. Finely banded. 3-5% py-po.									
557.5	559.5	PYROXENITE Magnetic dike. Biotite + pyroxenite + carbonate.									
559.5	627	RHYOLITE AND DACITE Tuff, finely interbedded at 40-45°. Rhyolite sericitic, locally porphyritic (crystal tuff) with 1-2 mm. feldspar phenocrysts. Dacite biotitic, local garnet and hornblende. 1-2% py, trace po throughout.	5	580.0	582.0	2.0	39	74	50		
627		END OF HOLE.									

*Shurtwell*



NOVA Township

OATES Township

OSWALD Township

P. 256477

428/8  
L-628

*Proprietor #94*

AMAX POTASH LTD	
DRILL HOLE LOCATION	
<b>NOVA - OATES GROUP 2</b>	
TIMMINS	ONTARIO
SCALE 1" = 400'	
NTS NO: 428/8	PROJECT NO: 302
TO ACCOMPANY REPORT BY: B. L. MacDONALD	
TIMMINS	DATE: JULY-AUG /70

