

42A06SW2003 2.18245 FRIPP

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9.1.13

**NOVAWEST RESOURCES INC.**

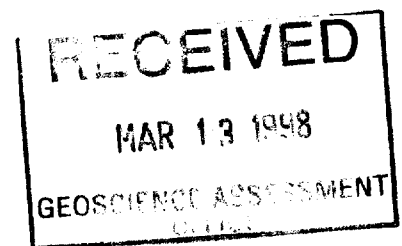
**BORDIN OPTION (FRIPP TWP.) ONT**

**PORCUPINE MINING DIVISION**

**DIAMOND DRILL HOLE LOGS**

**HOLES F-96-1 TO F-96-9 (INCLUS.)**

**DRILLING COMPLETED IN NOV - DEC /96**



LATITUDE: 0 + 26.5 NORTH  
 DEPARTURE: L0 + 16 EAST  
 ELEVATION: SURFACE  
 BEARING: AZ 320°  
 DIP AT COLLAR: -75°

DIP TESTS  
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 DEPTH          DIP  
 125'          -76°  
 250'          -78°  
 357'          -79°  
 TOTAL DEPTH OF HOLE: 357.0 Feet

HOLE NO: F-96-1  
 PROPERTY: BORDIN/CROXALL OPT.  
 LOCATION: (Fripp Twp.)  
 CLAIM NO: 1182688  
 CORE SIZE: B.Q. (wireline)  
 STARTED: November 21/96  
 FINISHED: November 22/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	7.0	CASING								
7.0	25.0	CRYSTAL FELSIC TUFF (FELSIC METAVOLCANIC) Fine grained, med. grey-green, St. fractured/broken to 20'. Med. bedded and sheared. Scattered granitic or Porph. bands/dycklets. 7 - 20.0' seams, threads and blebs of py and cpy mineralization Up to 2-3% sulphides, parallel to foliation. Bedding/Schistosity at 10° - 15° C.A. Scattered fine white feldspar phenos.	8826 8827 8828	8 12 16	12 16 19	4.0 4.0 3.0	NIL NIL NIL	0.1 0.8 0.5	565 3440 3710	
25.0	30.5	FELDSPAR PORPH. OR GRANITE DYKE greyish to pale pink color. Upper contact at 27° to C.A.								
30.5	35.2	CRYSTAL FELSIC Tuff (as above) Med. to f.g., grey-green color, L. sheared, scattered py blebs threads, seams (2-3% py). Bedding at 25° C.A.	8829	30.5	35.2	4.7	3	0.1	--	
35.2	42.6	FELDSPAR PORPH. OR GRANITE DYKE L. greyish color. Coarse whitish feldspar phenos in part. Several low angle quartz Stgs., veinlets.	8830	39	42.6	3.6	NIL	0.1	--	
42.6	50.2	MIXED CRYSTAL FELSIC TUFF/GRANITIC INTRUSION 25% feldspar Porph./granitic Dy. material. F.g. mafic fragments. Pinkish alt. along fract./sh. planes. 2-3% py blebs, threads, seams in part.	8831 8832	42.6 45.5	45.5 48.5	2.9 3.0	NIL 2	0.1 0.1	--	
50.2	53.4	FELDSPAR PORPH. DYKE L. to med. grey. Pinky alt. along fract. 1-2% py threads, blebs.								

Contractor: N.D.S. Drilling

Logged by: Neil MacIsaac

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
53.4	61.3	CRYSTAL FELSIC TUFF (as Prev.) wk. Sh. at 25° to C.A. 3-4% py threads seams in part. L. to med. grey color. 25% quartz veining over 1.0' at top of section 60.0 - 61.3' Feldspar Porph./granite dyke/mafic fragments. Coarse white feldspar phenos. in pinkish matrix	8833 8834	53.4 56.4	56.4 59.6	3.0 3.2	NIL NIL	0.2 0.1	-- --	
61.3	62.0	MAGNETIC IRON FORMATION St. magnetic, Conts. 45° C.A. to irregular. Fine bedded I.F. with drag folded laminations. 1-2% fine py threads and blebs.								
62.0	142.7	AMPHIBOLITIC GRABBRO (Hornblende Schist) dark green. Fine needle-like greyish color speckling. Poss. leucoxene? Foliation at 25-27° to C.A. 0.2' Pinkish syenite Porph. dyke at 67.0' 1.0' " " " " at 72.5 - 73.5' 0.8' " " " " at 74.3 - 75.1' Scattered irreg. epidote Stgs, ribbons and splashes. Occas. blebs, threads fine py. Soft talcose sects. 84' to about 140' 82.0 - 143.0' highly fractured and broken core. Slips and fract. - gouge mat. filled. Pale pinkish feldspar Porph. dyke at 88.2 - 89.5 5.0' ground core at 91', Poss. fault zone? 1.0' ground core at 107' 1.2' f.g. pinkish syenite dyke at 125.3 - 126.5' 122.0 - 143.0' Soft talcose material (Chl.-Ser. Schist). Highly altered and fractured. Abundant mud filled fractures/slips. Dark green color. Vuggy quartz veining at 141.0'								
142.7	148.2	FELDSPAR PORPH./GRANITE PORPH. DYKE Pink to flesh color alt. assoc. with fract. Sharp contacts - upper at 55° to C.A., lower cont. at 45° C.A.								
148.2	208.5	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green, amphibolite needles. Foliation at 25° to C.A. Occas. pinkish feldspar Porph. dyklets present. 182.0 - 185.0' pinkish f.g. syenite dyke. Vuggy quartz carb. Stgs. associated lower cont. at 25° C.A.								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
		0.5' pinkish coarse dyke with 40% quartz assoc. at 191' 0.6' pink syenite dyke at 203.5' wall rock sheared at lower cont. at 30° C.A. 207.2 - 208.5' coarse pink colored feldspar Porph./granite Porph. dyke								
208.5	225.6	CRYSTAL FELSIC TUFF/RHYOLITIC TUFF Med. to dark grey with fine to med. white feldspar phenocrysts, poorly bedded, conts. irreg.								
225.6	230.6	TRANSITION ZONE (Amphibolitic Gabbro /Granite Porph.) 30% pinkish laths feldspar and mafic incl. of wall rock. Epidote alt. frags. blebs, threads. Irreg. conts. whitish feldspar-rich lower cont. at 75° to C.A.								
230.6	351.0	AMPHIBOLITIC GABBRO (Hornblende Schist) Hornblende rich, dark green with fine greyish speckling, prob. Leucoxene? Wk. Foliation at 25-28° C.A. 245.9 - 247.7 pink feldspar Porph./granite dyke. Irreg. conts. 0.3' barren Carb.-quartz epidote vein at 256' irreg. contacts. 266.6 - 267.5' pink feldspar Porph. dyke. Sharp upper cont. at 45° C.A. 271.5 - 273.6' Suggests fine bedded sediment/or shearing. Greyish color banding at 20° to C.A. 286 - 289.5' fine Carb. Sh. banding at 20° to C.A. 289.5 - 294.3' pink feldspar Porph./granite dyke, green chl. frags., irreg. conts. 0.2' barren white quartz vein with minor Porph. dyke at 342' 348 - 348.7' grey to pinkish feldspar Porph. dyke at 348 - 348.7' and 349.5 - 350.0'								
351.0	357.0	PINK FELDSPAR PORPH./ GRANITE PORPH. DYKE Mafic wall incl. Fine biotite speckling, irreg. upper contact.  E.O.H. 357'								

Core stored at Adrian J. Lander's Farm  
6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.

*Neil MacIsaac*  
*Mar. 11/98*

**LATITUDE:** 0 + 22.5 NORTH  
**DEPARTURE:** L0 + 15 EAST  
**ELEVATION:** SURFACE  
**BEARING:** AZ 290°  
**DIP AT COLLAR:** -53°

**DIP TESTS**

DEPTH	DIP
125'	-50°
183'	-49°

**TOTAL DEPTH OF HOLE:** 183.7 Feet

**HOLE NO:** F-96-2  
**PROPERTY:** BORDIN/CROXALL OPT.  
**LOCATION:** (Fripp Twp.)  
**CLAIM NO:** 1182688  
**CORE SIZE:** B.Q. (wireline)  
**STARTED:** November 22/96  
**FINISHED:** November 23/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	8	CASING								
8	10.8	FELDSPAR PORPH. TO PINK GRANITE PORPH. Mix of feldspar Porph. Dy. and felsic tuff 0.6' broken & fractured sect. (poss. fault?) at 14.5' (6' core in sect. 8 to 16')								
10.8	17.0	ALT. FELSIC TUFF? Fine grained bright green color. Minor gouge mat. assoc. with fractures.								
17.0	32.0	CRYSTAL FELSIC TUFF (Felsic Metavolcanic) Grey, bedded with fine white phenos. Bedding/sh. at 30° to 40° C.A. 17 - 22.5' 2-3% py cpy blebs, threads and splashes	8835 8836	17 19.5	19.5 22.5	2.5 3.0	NIL/2 NIL	0.7 0.4	4570 2030	
32.0	165.0	MAINLY AMPHIBOLITIC GABBRO (Hornblende Schist) Wkly. schistose, dark green. Fine greyish needles/threads and dark green speckling. Scattered epidote bands, ribbons and patches. 35.6 - 37.0' Pink feldspar Porph. dyke 47.4 - 60.5' Pink to L. greyish feldspar Porph/granite dyke. Sharp upper cont. at 20° C.A. 1.0' wide fine grained greyish dyke at 92', conts. at 55° to C.A. 121 - 126' scattered narrow pinkish feldspar. Porph. dyklets usually along sh. planes. Poss. incl. ? 0.8' I.F. banding with granitic dyklets and stgs. at 123'								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
165.0	174.5	<p>145.8 - 147.5' Fine grained dyke, dark grey banding or bedding at 55° to C.A. Poss. tuff.  151 - 161.0' Fine shearing or bedding at 45° to C.A.  0.4' Pink feldspar Porph. dyke at 154'</p> <p>FELDSPAR PORPH./GRANITE PORPH. DYKE  L. grey to pink color. White feldspar phenos upper cont. at 45° C.A.  &lt;1% fine py at upper cont. in feldspar Porph.</p>	8837	165	167.5	2.5	NIL	0.1		
174.5	182.3	<p>AMPHIBOLITIC GABBRO (Hornblende Schist)  Wk. Foliation or banding/bedding in part?  Several narrow dyklets of pinkish to grey color feldspar Porph. contacts parallel to sh./ bedding.  Last 1.5' of core suggests poss. crystal tuff. Fine whitish phenos? and faint bands at 45° to C.A.</p>								
182.3	183.7	<p>CRYSTAL FELSIC TUFF (Felsic Metavolcanic)  Dark grey bedding at 45° C.A.  Fine white feldspar phenos. Narrow quartz lenses along bedding.  Pink granitic Porph. bands.</p> <p><u>E.O.H. 183.7'</u></p> <p>Core stored at Adrian J. Lander's Farm  6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.</p>								

*Neil Mac Isaac*  
*Mar. 11/98*

LATITUDE: 0 + 27.5 NORTH  
 DEPARTURE: L0 + 29 EAST  
 ELEVATION: SURFACE  
 BEARING: AZ 340°  
 DIP AT COLLAR: -83°

DIP TESTS  
 DEPTH      DIP  
 85'          -84°

TOTAL DEPTH OF HOLE: 85.3 Feet

HOLE NO: F-96-3  
 PROPERTY: BORDIN/CROXALL OPT.  
 PROPERTY: (Fripp Twp.)  
 CLAIM NO: 1182688  
 CORE SIZE: B.Q. (wireline)  
 STARTED: November 23/96  
 FINISHED: November 23/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	10	CASING								
10	35.1	CRYSTAL FELSIC TUFF/LAPILLI TUFF (Felsic Metavolcanic) Med. to dark grey color. Core strongly fractured and broken with slips near parallel to C.A. Fine whitish feldspar phenos. Very low angle fractures and foliation at 10 to 15° to C.A. 1-2% fine py seams, blebs along bedding or shear planes 14.0 - 22.5 1.5 - 2% py and cpy threads, seams and blebs along shear planes at 15-20° to C.A. 25 - 34.5' 2-3% py threads blebs and seams along bedding/foliation	8818 8819 8820 8821 8822	14.0 17.0 20.0 25.7 29.4	17.0 20.0 22.5 29.7 34.2	3.0 3.0 2.5 4.0 4.5	NIL NIL NIL NIL 2/2	0.5 0.2 0.3 0.1 0.2	3850 3430 3560 -- --	
35.1	43.5	FELDSPAR PORPH/GRANITE PORPH. DYKE Grey with white feldspar phenos. Contacts low angle to irreg. 40 - 42.2' incl. of felsic tuff material, dark grey low angle bedding with fine white phenos.								
43.5	56.0	ST. ALT. ZONE (Chl. - Ser. Schist) Prob. Alt. Felsic Tuff? Sh. at 20-25° C.A. Olive-grey color. 5-10% cherty-like incls. or phenos 0.8' barren quartz-chl. vein at 44.0' 44.5 - 49.0' 1-2% py blebs, cubes and seams along foliation	8823 8824	43.5 46.5	46.5 49.0	3.0 2.5	2 NIL	0.3 0.3	-- --	
56.0	74.0	ALT. TALCOSE ZONE (Prob. U.M. Metavolcanic related?) Soft and talcose, St. chl., dark green, broken and fractured with gouge mat. Feebly magnetic in part. Poss. alt. felsic tuff in part? 0.3' pink granitic dyklets at 68' 1.0' white feldspar Porph. or granitic dyke at 72'								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
74.0	85.3	<p>FELDSPAR PORPH./GRANITE PORPH. Multiple intrusions, grey to pinkish color with fine white phenocrysts. Bands or inclusions at 75.5 - 78.0' grey felsic tuff with 2-3% fine py threads seams. Amphibolitic or mafic dyke at 79.5 to 82.0'</p> <p><u>E.O.H. 85.3'</u></p> <p>SAMPLES FOR W.R.A. - ALT. TALCOSE ZONE (56.0 - 74.0')</p> <p>19535 = 57.0' (Spec.) 19542 = 64.5' (Spec.) 19543 = 70.5' (Spec.)</p> <p>Core stored at Adrian J. Lander's Farm 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.</p>	8825	75.5	78.0	2.5	2	0.1	--	

*Neil MacIvor*  
Mar. 11/98



LATITUDE: 0 + 46 NORTH  
 DEPARTURE: L0 + 06 EAST  
 ELEVATION: SURFACE  
 BEARING: AZ 186°  
 DIP AT COLLAR: -80°

## DIP TESTS

DEPTH	DIP
125'	-78°
282'	-76°

TOTAL DEPTH OF HOLE: 282.2 Feet

HOLE NO: F-96-4  
 PROPERTY: BORDIN/CROXALL OPT.  
 LOCATION: (Fripp Twp.)  
 CLAIM NO: 1182688  
 CORE SIZE: B.Q. (wireline)  
 STARTED: November 23/96  
 FINISHED: November 24/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	10	CASING								
10	56.5	CRYSTAL FELSIC TUFF/LAPILLI TUFF (Felsic to intermed. Metavolcanic) grey-greenish color. Fine grained with fine white feldspar phenocrysts. Highly fractured sects. Mod. to St. bedding at 25° to C.A. Wk. Schistosity parallel to bedding 30 - 52.0' 1-2% py blebs, threads seams, (locally up to 3% py ) scattered feldspar Porph. dykes. Bedding at 25° to C.A.	8884 8885 8886 8887 8888 8889 8890 8891 8892	14.5 17.5 20.5 30.0 33.0 36.0 40.0 44.0 48.0	17.5 20.5 24.0 33.0 36.0 40.0 44.0 48.0 52.0	3.0 3.0 3.5 3.0 3.0 4.0 4.0 4.0 4.0	3 NIL NIL 2 2 NIL NIL NIL NIL	0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.1		
56.5	71.0	GREY FELDSPAR PORPH./GRANITE PORPH. St. broken and fractured dykes 62 - 66' St. brecciated and alt. tuff frags., soft, black incl. Sects with py blebs, threads, seams. <1.5 % py locally.	8893	63.0	65.6	2.6	NIL	0.1		
71.0	87.5	U.M. METAVOLCANIC (Peridotite ?) Massive, fine grained, dark grey, soft-talcose. Wkly. magnetic. 1.0' lost core (ground-up) at 85.3'								
87.5	91.5	FELSIC TUFF Pale pink to white feldspar phenos. Poss. xtal tuff? 1-2% fine py threads, seams, blebs, along foliation 1-2% py with up to 3% py locally.	8894	87.5	91.5	4.0	NIL	0.2		
91.5	99.0	FELDSPAR PORPH./GRANITE PORPH? Pale pink color with white feldspar phenos.	19502 19503	93.8 97.0	97.0 100.0	3.2 3.0	NIL NIL	0.1 0.1	91 68	

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
99.0	105.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF Wk. bedding in part at 15 to 20° to C.A. Fine pinkish phenos. Prob. Granitization or syenite related.	19504 19505	100.0 102.5	102.5 105.0	2.5 2.5	12 2	0.1 0.1		
105.0	120.0	Intermittent MAGNETIC IRON FORMATION St. magnetic. 40% banded. I.F. Reddish hematite color to scratch. 3-4% py blebs, threads, seams. Up to 5-6% locally. Scattered cpy blebs, threads. St. Chl. sects. Bedding ranges from 10 to 45° C.A. Only minor quartz-veinlets	8895 8896 8897 8898 8899	105.0 109.5 112.5 116.0 119.0	106.7 112.5 116.0 119.0 122.0	1.7 3.0 3.5 3.0 3.0	441/2 7 9 3 NIL	0.3 0.3 0.3 0.3 0.3	171 459 698 366 72	
120.0	135.3	SYENITE DYKE Fine grained, dark pinkish to grey color. -1% fine py. Lower part of sect. more pinkish.	19506 19507 19508 19509 19510	122.0 125.0 128.0 131.0 133.2	125.0 128.0 131.0 133.2 135.4	3.0 3.0 3.0 2.2 2.2	15/2 2 NIL NIL NIL	0.1 0.1 0.1 0.1 0.1		
135.3	140.0	MAGNETIC IRON FORMATION (as above) St. Chl. walls. Py rich - blebs, stgs. threads 2-3% py with up to 5% locally plus scattered cpy blebs threads (-1% Cpy)	8900	135.4	140.0	4.6	NIL	0.1	241	
140.0	152.0	CRYSTAL FELSIC OR LAPILLI TUFF? Poorly bedded. Fine grained, whitish phenos and/or dark squeezed mafic fragments in part. Reddish hematite stain on slips/fracture faces at 151.5'. Several narrow Porph./granite dyklets 151.5 - 152.0'	19511 19512	140.0 144.0	144.0 148.0	4.0 4.0	NIL NIL	0.1 0.1	48 84	
152.0	282.2	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green, hornblende rich. Weakly sheared with foliation at 35° to C.A. Local soft, talcose sections, core readily fractures and breaks. Scattered py blebs, seams + 1% py. Several narrow low angle carbonate/quartz Stgs. x-cutting foliation at 152 - 156' 0.5' feldspar Porph. dyke at 155' Sections fine, light color, dusty leucoxene needles. Scattered epidote stgs. threads.								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM																				
FROM	TO																													
		<p>Narrow pinkish color feldspar rich, Porph. dykes or granite at 180.5', 182', 194', 207.5', 221', 229'</p> <p>Contacts usually parallel to foliation, ie. 25° to C.A.</p> <p>Grey-green fine grained mafic dykes 194.2 - 195.3' and 197 - 199.0' sharp conts. at 25° to C.A.</p> <p>0.2' greyish-white Porph. dyklet at 212.5' conts. at 45° to C.A.</p> <p>0.2 - 0.5' pinkish color feldspar-rich Porph./granite dykes 235.2', 242.3', 249.0' contacts variable 20° to 65° to C.A.</p> <p>269.5 - 270.5 Pink feldspar rich Porph./granite dyke. Upper cont. 40° C.A.</p> <p>278 - 280.5' Pink feldspar-rich Porph./granite dyke. Upper contact at 15° C.A. and lower cont. at 60° C.A.</p> <p>280.5 - 282.5' St. Alt. with abundant gouge material on slip and fracture faces.</p> <p><u>E.O.H. 282.2'</u></p> <p>SAMPLES FOR W.R.A. - U.M. METAVOLCANIC/PERIDOTITE (71.0 - 87.5')</p> <table border="0"> <tr> <td>19520</td> <td>71.5</td> <td>75.5</td> <td>4.0'</td> <td>&lt; 0.5% py blebs</td> </tr> <tr> <td>19521</td> <td>75.5</td> <td>79.5</td> <td>4.0'</td> <td>" " "</td> </tr> <tr> <td>19522</td> <td>79.5</td> <td>83.5</td> <td>4.0'</td> <td>" " "</td> </tr> <tr> <td>19523</td> <td>83.5</td> <td>87.5</td> <td>4.0'</td> <td>" " "</td> </tr> </table> <p>Core stored at Adrian J. Lander's Farm 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.</p>	19520	71.5	75.5	4.0'	< 0.5% py blebs	19521	75.5	79.5	4.0'	" " "	19522	79.5	83.5	4.0'	" " "	19523	83.5	87.5	4.0'	" " "								
19520	71.5	75.5	4.0'	< 0.5% py blebs																										
19521	75.5	79.5	4.0'	" " "																										
19522	79.5	83.5	4.0'	" " "																										
19523	83.5	87.5	4.0'	" " "																										

*Neil MacLennan*  
Mar. 11/98

LATITUDE: 0 + 50 NORTH  
 DEPARTURE: L0 + 23 EAST  
 ELEVATION: SURFACE  
 BEARING: AZ 238°  
 DIP AT COLLAR: - 75°

## DIP TESTS

DEPTH	DIP
203'	-73°

TOTAL DEPTH OF HOLE: 203.4 Feet

HOLE NO: F-96-5  
 PROPERTY: BORDIN/CROXALL OPT.  
 LOCATION: (Fripp Twp.)  
 CLAIM NO: 1182688  
 CORE SIZE: B.Q. (wireline)  
 STARTED: November 24/96  
 FINISHED: November 25/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	6.0	CASING								
6.0	59.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF (Felsic Metavolcanic) Med. grey to greyish/green color. Narrow bands fine whitish feldspar phenocrysts. Fine bedding at 25° to C.A. Wkly. sheared. Minor I.F. banding at 8.0'. Section of amphibolite with banded I.F. incl. at 12.5 - 14.5'. Magnetite rich bands and sugary quartz at 65° to C.A. 14.5 - 41.2' fine py threads, seams and blebs along foliation/bedding with cpy assoc. from 31 to 41.2' overall sulphides at 3-4% py + cpy. Local sects. 1-1.5% cpy. St. Sh. band with fault gouge at 39.5' Core strongly fractured and broken. 0.7' dark grey to pink Porph./granite dyke at 41.5' 0.8' L. greyish feldspar Porph./granite dyke at 43.5'. Conts. at 60° to C.A. 57.5 - 59.0' feldspar breccia fragments. Intrusive breccia, orange to white feldspar fragments. Core highly fractured and broken.	19513 19514 19515 19516 8801 8802 8803 8804 8805 8806 8807 8808 19517 19518 19519 8809 8810	8.0 11.0 14.0 17.0 20.0 24.0 28.0 31.0 33.0 35.0 37.0 39.0 41.0 44.0 47.5 51.0 54.0 57.0	11.0 14.0 17.0 20.0 24.0 28.0 31.0 33.0 35.0 37.0 39.0 41.0 44.0 47.5 51.0 54.0 57.0	3.0 3.0 3.0 3.0 4.0 4.0 3.0 2.0 2.0 2.0 2.0 2.0 3.0 3.5 3.5 3.0 3.0	NIL NIL 4/2 NIL NIL NIL NIL NIL/2 NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.6 1.7 1.5 0.5 0.4 0.1 0.1 0.1 0.5 0.2	56 103 86 69     4290 10,300 3330 2220 4300 876 37 118	
59.0	62.5	FELDSPAR PORPH./GRANITE DYKE L. grey to flesh color. Conts. at 35° C.A.								
62.5	67.5	CRYSTAL FELSIC TUFF/FELSIC METAVOLCANIC (as above) dark grey, poorly bedded 62.1 - 67' 2-3% py blebs, threads.	8811 8812	62.5 65.0	65.0 67.5	2.5 2.5	NIL NIL	0.1 0.1		

Contractor: N.D.S. Drilling

Logged by: Neil MacIsaac

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
67.5	82.0	U.M. METAVOLCANIC (Peridotite) Massive and fine grained, dark grey to green color. Soft and talcy. Weakly magnetic. Fine dark magnetite grains. 71 - 72.3' fault zone. 0.4' highly fractured pink Porph. dyke and 0.4' fault gouge material. St. alt. 72.3 - 81.0' Soft and strongly talcose gouge material on fractured and slip faces.								
82.0	85.5	CRYSTAL FELSIC TUFF/FELSIC METAVOLCANIC (as above) Med. grey color. Mod. fractured. Weak banding. 1-2% py blebs locally on fracture and slip faces.								
85.5	94.0	PINK FELDSPAR PORPH./GRANITE DYKE Grey with white feldspar phenos to 87' with magnetite rich-stgs at 86.5'								
94.0	114.0	Intermittent CHERTY IRON FORMATION Magnetitic I.F. and sulphides at 94.6 to 99.6 with 35 - 40 % py over 3.0'. Scattered blebs, threads, cpy assoc. Sect. strongly chloritic /alt. in part. Bright reddish alt. laths at 100.5 - 102'. Magnetite rich and cherty banding varies from 15° to 50° to C.A. Cherty/magnetite rich sect. at 107 to 108' contains 25 - 30% py. Poss. <u>ZNS</u> blebs/threads assoc. with white cherty bands at 109' and 112'.	8813 8814 8815 8816 8817	94.5 96.8 106.0 108.5 110.5	96.8 99.6 108.5 110.5 114.0	2.3 2.8 2.5 2.0 3.5	2 136/2 9 3 2	0.3 1.3 0.4 0.2 0.3	1970 342 327 394	428 206 242
114.0	132.5	AMPHIBOLITIC GABBRO (Hornblende Schist) Dark green color, hornblende rich. Weak to med. sh. with foliation at 25° to C.A. Scattered epidote quartz threads, stgs.								
132.5	144.2	SYENITE DYKE Very fine grained. Dark pinkish with fine whitish phenos. Lower cont. at 65° to C.A.								
144.2	146.4	MAFIC DYKE/AMPHIBOLLITIC INCLUSION? Poss. Lamprophyre? Dark green speckling. Sharp conts. at 65° C.A.								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
146.4	153.0	PINK FELDSPAR PORPH./GRANITE DYKE More coarse text. Reddish hematite stained fractures. Whitish feldspar phenos. Sharp lower cont. at 55° to C.A.								
153.0	182.0	AMPHIBOLITIC GABBRO (as above) Dark green. Hornblende rich speckling. Foliation at 40° to C.A. Occas. fine leucoxene speckling. Pink Porph. intrusive 175 - 176.2'.								
182.0	203.4	INTRUSIVE BRECCIA & PORPH./GRANITE DYKE MATERIAL Grey to pinkish color Porph./granite dyke to 184.7'. Sharp upper cont. at 65° to C.A. 184.7 - 203.4' about 50% dark mafic fragments (amphibolitic ?) and 50% coarse pinkish fragments or xtals. Numerous narrow pinkish to white feldspar-rich dyklets and ribbons. Occasional epidote ribbons assoc. with mafics.  <u>E.O.H. 203.4'</u>  SAMPLES FOR W.R.A. - U.M. Metavolcanic/Peridotite (67.5 - 82.0')  19528    67.5    71.0    3.5    <0.5% py 19529    71.0    74.5    3.5    "    " 19530    74.5    78.0    3.5    "    " 19531    78.0    82.0    4.0    "    "  Core stored at Adrian J. Lander's Farm 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.								

*Neil Mac Isaac*  
Mar. 11/98

<b>LATITUDE:</b>	1+30 NORTH	<b>DIP TESTS</b>	
<b>DEPARTURE:</b>	L2+00 EAST	<b>DEPTH</b>	<b>DIP</b>
<b>ELEVATION:</b>	SURFACE	125'	-54°
<b>BEARING:</b>	AZ 230° (along P.L.)	321'	-52°
<b>DIP AT COLLAR:</b>	-55°	528'	-50°
		<b>TOTAL DEPTH OF HOLE</b>	528.2 Feet

**HOLE NO:** F-96-6  
**PROPERTY:** BORDIN/CROXALL OPT.  
**LOCATION:** (Fripp Twp.)  
**CLAIM NO:** 1182688  
**CORE SIZE:** B.Q. (wireline)  
**STARTED:** November 25/96  
**FINISHED:** November 26/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	14.0	CASING								
14.0	74.0	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green, hornblende speckling in part. Scattered bands/dyketts grey granite Porph. and pinkish colored granitic intrusive material (10% of core) 0.2' vuggy epidote-quartz Stg. at 26.0' 0.5' fault gouge filled fractures at 30.4', 37.5' 46.1 - 48.0' grey feldspar Porph/granite Porph. dyke. Conts. at 45° C.A. 58.6 - 62.5' Intrusive breccia over first 1.5' followed by grey feldspar Porph. dyke material. 62.5 - 74.0' more f.g., dark green. Fine dusty grey leucoxene needles. Scattered quartz-epidote veinlets. Occasional thread, bleb py assoc. 72.5 - 74.0' pinkish syenite porph. dyke								
74.0	113.5	CRYSTAL FELSIC TUFF/LAPILLI TUFF Lapilli tuff bands in part. Fine whitish to pale pink feldspar phenos., dark grey to greenish-grey color. Poss. fine epidote-rich bedding in part. Bedding at 45° to C.A. 0.1' barren white quartz veinlet at 83.0'								
113.5	121.0	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green. wkly. Sheared, foliation at 45° to C.A. Scattered epidote ribbons, threads. 1.0' quartz-epidote sh. at 118.5'								

Contractor: N.D.S. Drilling

Logged by: Neil Mac Isaac

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
121.0	248.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF (Felsic Metavolcanic) dark grey to green banding. Bedding at 50 - 55° to C.A. Fine whitish to pale pinkish feldspar phenos. L. cream color bands, frags. Poss. sercite Alt.? Scattered pinkish granitic dyklets and ribbons (-10% of core) 168.5 - 171.6' Syenite Dy. F.g. dark reddish-pink color. Conts. broken. 176 - 194' grey to pink color feldspar porph./granite. Porph. dykes and ribbons. 20 - 25% granitic intrusive material Beyond 194' less than 10% intrusive porph./granitic material. Scattered bands, threads, fragments weak epidote/sericite alt. Bedding at 50° to C.A.								
248.0	254.0	MAGNETIC IRON FORMATION dark magnetite rich banding at 30 to 40° to C.A. Several narrow grey quartz veins assoc. with I.F. 3 - 5% scattered py blebs, threads irreg. patches. Band of pale brownish to honey color mineral at upper contact. Poss. Sphalerite (ZNS ?) 252 - 254' St. chl./ highly fractured with 20% Felds. Porph/granitic intrusive. Local py blebs, threads.	8854	248.0	250.0	2.0	30/2	0.1	67	169
			8855	250.0	252.0	2.0	3	0.3	302	367
254.0	262.0	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green, amphibolite speckling.								
262.0	289.5	FELDSPAR PORPH./PORPH GRANITE Light to dark pinkish color. Fine dark chl. filled fractures - brecciation. Upper cont. at 45° to C.A. 0.2' fault gouge mat. at 286.5'								
289.5	311.0	MAFIC METAVOLCANIC Fine grained, dark green color. Soft-chloritic, approaching amphibolitic grade metamorphism wkly. sheared. Some gouge mat. on slip and fracture faces. (-10% pink granitic intrusive material) 0.1' fault gouge at 310.8'								



FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
311.0	355.5	<p>PORPH. GRANITIC INTRUSIVE</p> <p>Coarse felsphatic to 313.6'</p> <p>313.6 to 318.5' about 80 % f.g. mafic inclusions,</p> <p>318.5' - 330.0' more f.g. pale to dark pink color. Vague white to flesh color Phenos. Fine dark to brownish speckling and fractures?</p> <p>337 - 341' f.g. mafic inclusion, or dyke. Grey to olive greenish color. Reddish threads, ribbons.</p>								
355.5	379.5	<p>MAFIC METAVOLCANIC</p> <p>dark green, fine leucoxene speckling or needles. Approaching amphibolitic phase</p> <p>360 - 362' several narrow quartz epidote stgs. contain py blebs, threads.</p>								
379.5	474.5	<p>INTERMED. TUFF/LAPILLI TUFF (Felsic to Intermed Metavolcanic)</p> <p>grey to pale grey-green color. Light feldspar Phenos. thru top of section. Weak epidote rich banding in part.</p> <p>383.4 - 388.0' Pink to greyish granitic intrusive. Fine dark reddish brown fractures and speckling. Poss. hematitic</p> <p>410.5 - 416.0' amphibolitic (Gabbro section) dark hornblende speckling. Sheared at 60° to C.A.</p> <p>Beyond 425' epidote-rich banding and threads. Bedding at 50 to 60° to C.A.</p> <p>430 - 457' scattered sections of pale pink cherty-like bedding. Fine beds at 45° - 60° C.A.</p> <p>433 - 466' about 20 - 25% pinkish granitic intrusive material. Coarse pink feldspar xtals to white feldspar phenocrysts</p> <p>468.5 - 474.5' narrow epidote bands and ribbons numerous</p> <p>0.1' fault gouge mat. at 473.5'</p>								
474.5	528.2	<p>FINE GABBRO</p> <p>Fine grained and rather massive with a chilled contact phase. Very dark grey to blackish color. Sharp upper contact at 50° to C.A. Scattered greenish color saussuritized plagioclase phenocrysts. Weakly magnetic throughout with magnetite more abundant towards upper contact (non-bedded).</p>								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
		<p>Fine magnetite speckling throughout.                      0.5 - 1.0% fine py grains in part which display a fine net-like texture.                      499.3 - 509.0' dark color and slightly more coarse textured.                      Suggests a possible diabasic texture. Coarse needle-like mafic mineral (Poss. hornblende?) cutting light color plagioclase crystals.</p> <p><u>E.O.H. 528.2'</u></p> <p>SAMPLES FOR W.R.A. - MAFIC VOLCANIC (289.5 - 311.0')</p> <p>19524 = 291.0' spec.                      19525 = 300.0' spec.                      19526 = 310.0' spec.</p> <p>SAMPLES FOR W.R.A. - MAFIC VOLCANIC (355 - 379.5')</p> <p>19527 = 363.5' spec.                      19532 = 371.0' spec.                      19533 = 377.5' spec.</p> <p>SAMPLES FOR W.R.A. GABBRO or U.M. VOLCANIC (475 - 528.0')</p> <p>19540 = 479' (5" spec.) &lt;0.5% Poik. Py                      19536 = 480 - 484 4.0' " " "                      19541 = 485 (5" spec.) " " "                      19537 = 488.5 - 491.5 3.0 " " "                      19544 = 499.5 (5" spec.) " " "                      19538 = 499.0 - 503.0 4.0 " " "                      19539 = 506.0 - 509.0 3.0 " " "                      19547 = 512.5 (5" spec.)                      19548 = 518' (5" spec.)                      19549 = 525' (5" spec.)</p>								

Core stored at Adrian J. Lander's Farm  
 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.

*Neil MacDove*  
 Mar. 11/98

<b>LATITUDE:</b>	2+60 NORTH	<b>DIP TESTS</b>	
<b>DEPARTURE:</b>	L1+50 WEST	<b>DEPTH</b>	<b>DIP</b>
<b>ELEVATION:</b>	SURFACE	125'	-55°
<b>BEARING:</b>	AZ 230° (along P.L.)	321'	-51°
<b>DIP AT COLLAR:</b>	-55°	509'	-49°
		<b>TOTAL DEPTH OF HOLE:</b>	508.6 Feet

**HOLE NO:** F-96-7  
**PROPERTY:** BORDIN/CROXALL OPT.  
**LOCATION:** (Fripp Twp.)  
**CLAIM NO:** 1182688  
**CORE SIZE:** B.Q. (wireline)  
**STARTED:** November 27/96  
**FINISHED:** November 29/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	13	CASING								
13.0	72.5	AMPHIBOLITIC GABBRO (Hornblende Schist) dark green speckled. Weakly sheared and banded. Minor interbedded tuff sections. Foliation at 60-65° to C.A. 13 to 65' about 35% dark pink syenite dykes and grey porph. Granite or feldspar porph. intrusives at variable angles to core axis. Occas. py threads, blebs. 28 - 41.3' syenite, dark pinkish color. Sharp conts. irreg. to low angle C.A. Finely porph. texture in part.								
72.5	104.0	INTERMEDIATE TO MAFIC TUFF Interbedded with sections or bands of fine amphibolitic material. Prob. fine grained gabbro? well bedded at 60° to C.A. Dark grey to green color with lighter greenish epidote and epidote-quartz-feldspar stgs., veins and bands. Fine greyish colored dusty leucoxene needles in part. Occasional fine py blebs, threads. 0.3' barren quartz vein at 86.0'. Scattered narrow grey feldspar Porph./granite Porph. dyklets.								
104.0	111.0	ALT. TALCOSE SECT. (Prob. U.M. volcanic ?) Fine grained - med. green color. Soft and sheared at 35° to C.A. <0.5% fine py blebs.								
111.0	152.0	INTERMEDIATE TO MAFIC TUFF (as above) Fine grained, well bedded, dark grey-green color. 111.5 - 112.5 greyish, hard cherty band. 2.0' wide grey granite Porph. dyke at 117.0'								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
152.0	257.3	CRYSTAL FELSIC TUFF/LAPILLI TUFF Med. to dark greyish color. Fine white xtals (feldspar) well bedded at 45° to 50° C.A. Scattered dark green, narrow mafic sections. Prob. mafic dykes or inclusions ?. 152 - 245.0' - 10% pale pink to grey color feldspar Porph. or granitic intrusions. 0.15' barren quartz-carb-epidote vein at 192' 227 - 253' 2-3% fine py threads, blebs, seams along bedding planes.	8865	227.0	229.5	2.5	NIL	0.4		
			8866	229.5	232.0	2.5	7	0.4		
			8867	232.0	234.5	2.5	3	0.2		
			8868	234.5	237.5	3.0	3	0.2		
			8869	237.5	240.0	2.5	NIL	0.3		
			8870	240.0	242.5	2.5	2	0.2		
			8871	242.5	245.5	3.0	NIL	0.1		
			8872	245.5	248.0	2.5	33/2	0.3		
			8873	248.0	250.5	2.5	3	0.2		
			8874	250.5	253.6	2.5	NIL	0.2		
257.3	261.3	MAGNETITIC IRON FORMATION 12-15% Sulphide banding, blebs and threads - mainly py. Dark chl. sects. Up to 25% greyish quartz bands with py assoc. dark/magnetite rich banding at 65° C.A. in part.	8875	257.3	259.3	2.0	2	0.4	350	
			8876	259.3	261.3	2.0	NIL	0.3	848	
261.3	296.0	AMPHIBOLITIC GABBRO (Hornblende Schist) more coarse - chl. rich 266.5 - 273.5' 60% coarse grained grey to pink feldspar Porph./granite Porph. 273.5 - 296.5' amphibolitic - more f.g. than above. 20% pinkish granitic intrusive material. 291 - 296.0' fine py threads, blebs, seams. 2-3% sulph.	8877	291	293.5	2.5	5	0.1		
			8878	293.5	296	2.5	NIL	0.2		
296.0	300.0	MAGNETIC IRON FORMATION St. magnetic banding at 65-70° C.A. 5-10% fine py threads blebs, seams along bedding planes.	8879	296	299	3.0	5	0.3		

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
300.0	366.0	<p>AMPHIBOLITIC (Hornblende Schist)</p> <p>F.g. with 10-15% porph./granitic intrusive dykes and breccia sects. Mostly grey color feldspar-rich banding at 65° C.A.</p> <p>Weak shearing at 65° to C.A.</p> <p>0.4' band magnetic I.F. at 324.5'</p> <p>311 - 315.0' grey to white intrusive breccia with dark chl. biotite filled fractures.</p> <p>320 - 322.5' Dyke - f.g. light grey color. Sharp conts. at 55° C.A.</p> <p>326 - 327.5' Intrus. Breccia. Pinkish matrix, irreg. dark fragments, epidote stgs. threads patches.</p> <p>342 - 351.5' several low angle contact grey granitic dykes and intrusive breccia. Grey-white to pinkish color. Intrus. breccia in part.</p> <p>0.2' barren white quartz vein at 343.5'</p> <p>0.2' pyrite-rich fragment or splash at 344.0'</p>								
366.0	393.7	<p>BANDED CRYSTAL TUFF/LAPILLI TUFF</p> <p>dark greyish with fine whitish felds. Phenos. Banding at 45-50° to C.A.</p> <p>370 - 377.0' 2-3% fine py threads, seams, blebs along foliation planes.,</p> <p>0.2' fault gouge mat. at 388.5'</p>	8880 8881	370.8 373.8	373.8 377	3.0 3.2	10 2	0.2 0.3		
393.7	398.5	<p>MAGNETIC IRON FORMATION</p> <p>dark green, chl.-rich with dark mag. banding variable at 25 to 45° C.A. Py rich sect. (30% py) at 394 - 395.0'</p> <p>Fine smeared cpy (&lt;0.5% cpy) at bottom of sect. (398 - 399.0') in St. chl. material.</p>	8882	393.7	395	1.3	NIL	<u>2.6</u>	<u>1550</u>	
398.5	406.0	<p>PINKISH GRANITIC DYKE</p> <p>fine dark biotite speckling to 401.0'</p>								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
406.0	433.5	<p>AMPHIBOLITIC GABBRO (Hornblende Schist)            weak sheared, f.g. dark green tuff like banding in part. Sh. at 50° to C.A. Epidote threads, bands.            Up to 15% pinkish granitic intrusive/dycklets in bottom 8' of section            426.3 - 427.8' (1.5') 25% quartz - epidote pink felds. rich dycklets            4-5% py and minor cpy assoc.            0.1' fault gouge at 432.8'</p>	8883	426.3	427.8	1.5	7	0.1		
433.5	470.0	<p>GRANITIC INTRUSIVE            Pinkish color with vague whitish feldspar phenos. Fine fracturing. Upper cont. at 60-65 C.A.</p>								
470.0	508.6	<p>AMPHIBOLITIC GABBRO (Hornblende Schist)            High percentage pink granitic porphyry dykes, bands and finer grained sections with pale pink phenocrysts. Section appears to be somewhat granitized. Grey porph. dyke in part. Some local sections of intrusive breccia material.            Weak Sh. banding. Numerous epidote Stgs. threads, bands in part associated with more mafic amphibolitic sections.</p> <p><u>E.O.H. 508.6'</u></p> <p>SAMPLES FOR W.R.A. - ALT. TALCOSE SECT. (104.0 - 111.0')</p> <p>19545 = 105.0' spec.            19546 = 110.0' spec.</p> <p>F.g. MAFIC/AMPHIBOLITIC SECT. (470.0 - 508.6')</p> <p>19562 = 493.0' spec.</p>								

*Neil MacIsaac*

*Mar - 11 / 98*

Core stored at Adrian J. Lander's Farm  
 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.

**LATITUDE:** 2 + 22 NORTH  
**DEPARTURE:** L0 + 16 EAST  
**ELEVATION:** SURFACE  
**BEARING:** AZ 230° (along P.L.)  
**DIP AT COLLAR:** -65°

## DIP TESTS

DEPTH	DIP
125'	-63°
300'	-60°
449'	-58°

**TOTAL DEPTH OF HOLE:** 449.5 Feet

**HOLE NO:** F-96-8  
**PROPERTY:** BORDIN/CROXALL OPT.  
**LOCATION:** (Fripp Twp.)  
**CLAIM NO:** 1182688  
**CORE SIZE:** B.Q. (wireline)  
**STARTED:** December 2/96  
**FINISHED:** December 3/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	10	CASING								
10.0	25.0	AMPHIBOLITIC GABBRO (Hornblende Schist) dark grey-green with dark green speckling. Narrow gouge filled fractures at 16.4' - 18.8' 0.2' barren quartz-carb-chl. vein at 18.5' Contacts at 35° to C.A.								
25.0	29.5	CRYSTAL FELSIC TUFF (Lapilli Tuff) St. bedding at 30° C.A. Flattened dark lapilli fragments or bands. Fine white feldspar phenos.								
29.5	39.3	AMPHIBOLITIC GABBRO (Hornblende Schist) light sheared in part. Foliation at 45° C.A. About 20% grey Feldspar Porph./granite dyke content.								
39.3	68.7	GREY GRANITE/FELDSPAR PORPH. INTRUSIVE L. to med. grey color. Abundant med. to coarse white Felds. Phenos. Fine dark pepper-like speckling, (Prob. hornblende or biotite?)								
68.7	79.5	INTRUSIVE BRECCIA 60% angular, fine-dark mafic fragments in a grey to pale pinkish granitic matrix.								
79.5	87.5	GREY GRANITE/FELDSPAR PORPH. INTRUSIVE med./L. grey to pale pink color. (as above)								

Contractor: N.D.S. Drilling

Logged by: Neil MacIsaac

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
87.5	100.0	AMPHIBOLITIC GABBRO (Hornblende Schist) Sheared. Mostly fine grained with scattered dark speckled sections. A few threads, blebs py at 88 - 89.0'. About 10% scattered pinkish granitic dyklets.								
100.0	115.2	CRYSTAL FELSIC TUFF/LAPILLI TUFF dark greyish, well bedded at 45° C.A. Med. to fine white Feldspar Phenos. throughout. Scattered sections squeezed or flattened dark lapilli tuff fragments. About 5% narrow pinkish granitic dyklets, bands.								
115.2	129.5	AMPHIBOLITIC GABBRO (Hornblende Schist) f.g., dark green, fine dusty, light speckling-Prob. leucoxene. Scattered epidote bands, hair-like threads. Upper contact about 45° C.A. 127 - 129.1' grey granite/intrusive breccia. Irreg. contacts.								
129.5	144.0	MAFIC TUFF/LAPILLI TUFF dark grey to green. Fine bedding at 45 to 60° C.A. 0.15' quartz-epidote veinlet at 137.5'								
144.0	155.5	CRYSTAL FELSIC TUFF/LAPILLI TUFF bedding at 45 to 50° C.A. Dark grey color with f.g., dark green intermed. to mafic sections. Fine white to pale pinkish feldspar phenocrysts.								
155.5	160.0	INTERMED. TO MAFIC VOLCANIC f.g. - massive. Poss. pillow rims in part. L. to med. green color. Rather soft and scratches easily.								
160.0	166.8	SYENITE DYKE f.g., dark pink color. Upper cont. at 20° to C.A. Very fine white Phenos.								



FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
166.8	188.5	INTERMED. TO MAFIC VOLCANIC (as above) 173 - 174.8' St. Sh. and Alt. with some quartz and pinkish Felds. alteration. Narrow band fault gouge material at 174.5'. Beyond 167' rather soft and readily scratches - almost talcy. Several pink to greyish Feldspar Porph./granitic dykes consist of 20-25% of section.								
188.5	221.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF med. to dark greyish. St. bedding at 35-45° C.A. <10% granitic intrusive dyklets, bands. 205.5 - 208.5' St. sheared, fractured and altered with pinkish feldspar altered bands, stgs. Light beige color banding may be sericite alteration? Last 1.0' strongly fractured and broken with fault gouge material on slip faces.								
221.0	235.5	U.M. METAVOLCANIC (Prob. Peridotite?) massive to f.g. dark grey-green to black color. Light to med. magnetic. Soft to talcose in part. 230.5 - 233.0' several narrow bands fault gouge material.								
235.5	262.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF dark grey color. Poorly bedded in part. Bedding at 55-60° C.A. <20% Feldspar Porph./granitic intrusive dykes, bands.								
262.0	295.0	U.M. METAVOLCANIC (as above) massive f.g., dark green, weakly magnetic, soft to slightly talcose in part. Scattered pink granitic to greyish feldspar rich Porph. dykes and intrusive breccia bands. About 20% core content.								
295.0	336.2	CRYSTAL FELSIC TUFF/LAPILLI TUFF Med. to dark grey. Bedding at 45° to 60° C.A. Fine to med. white feldspar phenos. Up to 30% granitic dykes, grey feldspar Porph. bands 295 - 303.5'.								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
336.2	342.0	302 - 336.2 2% fine py threads, seams blebs (up to 3-4% py locally).	8838	303	306	3.0	NIL	0.1		
		308 - 336.3' poorly bedded. Wk. foliation. More brownish-grey color. Vague white feldspar phenos.	8839	306	309	3.0	8/2	0.1		
		319 - 320.7' grey Felds. Porph./granite dyke. Sharp conts. at 50° C.A.	8840	309	312	3.0	NIL	0.5		
		333.1 - 334.3' mafic f.g. dyke. Dark grey-green. Amphibolite rich. 2% fine py.	8841	312	315	3.0	15	0.7		
			8842	315	318	3.0	5	0.2		
			8843	318	321	3.0	7	0.1		
			8844	321	324	3.0	NIL	0.2	56	
			8845	324	327	3.0	NIL	0.1	35	
			8846	327	330	3.0	NIL	0.1	48	
			8847	330	333	3.0	14	0.1	22	
			8848	333	336.2	3.0	7	0.1	36	
336.2	342.0	<b>MAGNETIC IRON FORMATION</b> dark magnetite rich banding at 30° to 40° to C.A. Scattered narrow greyish to white quartz bands. Up to 5% pyritic threads, blebs assoc. with latter. Occas. speckling cpy.	8849	336.2	338.0	1.8	36	0.2	137	528
		0.1' fault gouge material 339.1'	8850	338	340	2.0	17	0.5	139	344
		Light brownish min. (Poss. Sphalerite) assoc. with quartz vein material at 336.5' and 340.4'.	19501	340	342	2.0	5	0.1	126	119
342.0	417.8	<b>AMPHIBOLITIC GABBRO (Hornblende Schist)</b> wk. shearing at 40-45° to C.A. Dark waxey amphibolitic blebs. Fine greyish color leucoxene needles. 0.2' pink f.g. dyklet at 388.2 with blebs cpy. in dyke and wall rock. 398.3 - 400.3' pinkish granite with white Felds. Phenos. 405 - 416.0' several pinkish colored granitic dykes and dyklets - up to 1.5' in thickness. Coarse whitish phenos. assoc.								
417.8	423.5	<b>PINK GRANITE</b> med. grained with some white Felds. Phenos. Sharp conts. at 75° C.A.								
423.5	432.1	<b>ALT. MAFIC (AMPHIBOLITE)</b> Prob. Alt. Amphibolitic Gabbro/(Hornblende Schist?) dark green, F.g., soft. Scattered epidote bands. Reddish hematite stain on fractures, slips, etc.								

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
432.1	449.5	<p>PINK GRANITE fine dark speckling with scattered white feldspar phenocrysts. Sharp upper contact at 65° to C.A.</p> <p><u>E.O.H. 449.5'</u></p> <p>SAMPLES FOR W.R.A. - U.M. SECT. (221 - 236.0')</p> <p>19550    221.5'    (5" spec.) 19551    227.0'    (5" spec.) 19552    231.5'    (5" spec.) 19553    234.5'    (5" spec.)</p> <p>SAMPLES FOR W.R.A. - U.M. SECT. (262 - 295.0')</p> <p>19554    263.0'    (5" spec.) 19555    268.0'    (5" spec.) 19556    273.0'    (5" spec.) 19557    277.0'    (5" spec.) 19558    282.0'    (5" spec.) 19559    288.0'    (5" spec.) 19560    292.5'    (5" spec.)</p> <p>SAMPLES FOR W.R.A. - Alt. Mafic/Amp. (423.5 - 432.0')</p> <p>19561    430.5'    (5" spec.)</p> <p>Core stored at Adrian J. Lander's Farm 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.</p>								

*Neil Mac Isaac*  
Nov. 11/98

**LATITUDE:** 3 + 30 NORTH  
**DEPARTURE:** L3 + 70 WEST  
**ELEVATION:** SURFACE  
**BEARING:** AZ 230°  
**DIP AT COLLAR:** -60°

**DIP TESTS**

DEPTH	DIP
125'	-58°
275'	-55°
429'	-52°

**TOTAL DEPTH OF HOLE:** 429.8 Feet

**HOLE NO:** F-96-9  
**PROPERTY:** BORDIN/CROXALL OPT.  
**LOCATION:** (Fripp Twp.)  
**CLAIM NO:** 1182688  
**CORE SIZE:** B.Q. (wireline)  
**STARTED:** December 3/96  
**FINISHED:** December 4/96

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
0	20	CASING								
20.0	101.0	AMPHIBOLITIC GABBRO/(Hornblende Schist) dark grey-green color, fine grained. Wk. schistosity at 35-40° to C.A. Epidote banding in part. Scattered pinkish colored granitic dyklets and stgs. at variable angles to C.A. 27.6 - 37.6' 50% greyish to white granite dykes, dyklets and intrusive breccia sects. Coarse white feldspar xtals prominent. Dark mafic fragments in breccia sects. 72.6 - 73.7' mafic dyke. Conts. at 60° C.A. Coarse dark green hornblende speckling. 73.7 - 101.0' more fine grained - massive, dark green. Poss. intermed. to mafic metavolcanic. 76.3 - 82.0' consists of 15-20% grey to pinkish granitic dyklets, Stgs. & bands								
101.0	267.0	CRYSTAL FELSIC TUFF/LAPILLI TUFF dark grey to green. Intermed. to mafic tuff with felsic bands. Well bedded at 35° to C.A. Fine white, cream to pale pink colored. Feldspar phenos. in more felsic material. Beyond 114' epidote rich banding prominent. Scattered cream colored sericitic bands, threads, blebs 129.5 - 267.0' intermed. to felsic tuff. Well bedded at 30-40° to C.A. 0.6' quartz-epidote vein with wall incls. and pinkish granite fragments at 138'. 0.2' quartz vein material and pale pinkish feldspar at 141.5'. Occas. narrow pink granitic dyklets and fractures.								

Contractor: N.D.S. Drilling

Logged by: Neil MacIsaac

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
267	373.5	170.6 - 184' 25% grey to pink color granitic dykes, dyklets and breccia bands. Wall rock strongly chl.								
		184 - 198.5' white speckled. Prob. feldspar phenos. and roundish quartz grains.								
		196.5 - 201.5' swirls or irreg. bands quartz-feldspar-epidote. Poss. pillow rims?								
		201.5 - 210.5' 2% fine py threads blebs and seams. Py along foliation/bedding planes. Bedding at 35° to C.A. 0.5 mafic dyke at 211.5' Coarse dark speckled. Wkly. magnetic.	8856	201.5	203.5	2.0	7	0.4		
			8857	203.5	205.5	2.0	5	0.1		
			8858	205.5	208.0	2.5	9	0.1		
			8859	208.0	210.5	2.5	NIL	0.1		
		219 - 221.5' Mafic dyke. Fine grained (Poss. U.M. Metavolcanic?) olive green color. Upper cont. about 55° C.A. and gouge filled.								
		221.5 - 237.0' about 20% dark pinkish syenite dyklets, ribbons and threads along with several grey to pink granite dyklets.	8860	235.0	237.0	2.0	3	0.2		
		235 - 239.0' 1-2% fine py blebs, threads.	8861	237.0	239.0	2.0	3	0.3		
239 - 267.0' well bedded at 55° C.A. Several irreg. quartz-epidote-feldspar veinlets at 248.0'. 0.5' gouge filled fracture at 254.5'. 251 - 267.0' abundant white to pale pinkish feldspar phenos. in tuff bedding. 0.2' quartz-epidote-chl. veinlet at 265.0'. Few specks fine py assoc.										
267	373.5	AMPHIBOLITIC GABBRO/(Hornblende Schist) Coarse dark green speckling. Waxy-like texture. Sections fine dusty leucoxene needles beyond 277.0'. 267 - 294.5' about 15-20% grey to pinkish granite/syenite dykes, dyklets and ribbons. Conts. irreg. to 40° to C.A. Scattered epidote/quartz rich splashes, ribbons and stringers. 0.5' grey granite dyklets at 318.5', 326.0' 330.3 - 331.3 0.8' barren white quartz-carb.-chl. vein. Sharp irreg. contacts.	8862	330.3	331.3	1.0	NIL	0.1		

FEET		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU PPB	AG PPM	CU PPM	ZN PPM
FROM	TO									
		338 - 342.5' light pink granite or feldspar Porph. dyke. Whitish feldspar phenos. numerous. Conts. at 30° C.A. Gouge filled slips at upper contact.								
		346 - 347.4' 1.0' quartz-epidote-feldspar rich vein. Conts. at 45° to C.A. <1% fine py with vein.	8863	346.0	347.4	1.4	NIL	0.1		
		362.6 - 363.6' 75% pinkish granitic material with chl. bands, fragments.								
373.5	376.2	<b>MAGNETIC IRON FORMATION</b> St. magnetic. Poorly banded due to 25% pink granitic intrusions. Magnetic bands at 55-60° to C.A. in part. Scattered fine py threads, seams, blebs. 2-3% py assoc.	8864	373.5	376.5	3.0	NIL	0.2		
376.2	429.8	<b>AMPHIBOLITIC GABBRO ? (Alt. Mafic Metavolcanic/Lapilli Tuff?)</b> fine grained, dark green (as above) 386.5 - 388.0' Intrusive breccia in grey granite. Dark angular fragments of wall rock. Sharp upper cont. at 70° to C.A. 396.3 - 398.6' grey to pinkish Felds. Porph. or granitic dyke material. White Felds. Phenos. abundant. 401 - 409.5' grey Felds. Porph./granite dyke with white felds. phenos. conts. sharp and irregular. 417 - 426.5 about 40% pinkish to grey granite dyklets and intrusive breccia material. Dark fine grained angular inclusions in granitic matrix. 426.5 - 429.8' reddish to pink hematite alteration on fractures.  <u>E.O.H. 429.8'</u>  SAMPLE FOR W.R.A. - MAFIC DY. - Poss. U.M.? (219.0 - 221.5')  19534 = 220.0' spec.  Core stored at Adrian J. Lander's Farm 6 Conc. Lot-1 Laforest Rd. Mountjoy Twp.								

*Neil MacLennan*  
Mar. 11/98

**CERTIFICATES**

**FOR**

**GEOCHEMICAL ANALYSIS**

**AND**

**WHOLE ROCK ANALYSIS**



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

Page 1 of 2

## Geochemical Analysis Certificate

6W-5275-RG1

Company: NOVA WEST RESOURCES INC

Date: DEC-20-96

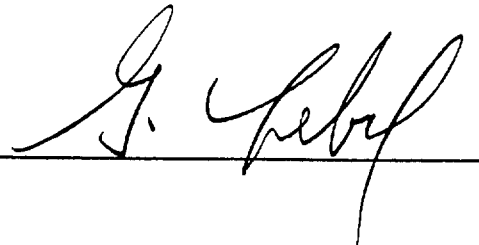
Project:

Attn: N. MacIsaac

We hereby certify the following Geochemical Analysis of 47 Core samples submitted DEC-12-96 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
8854	26	34	0.1	67	169
8855	3	-	0.3	302	367
8856	7	-	0.4	-	-
8857	5	-	0.1	-	-
8858	9	-	0.1	-	-
8859	Nil	-	0.1	-	-
8860	3	-	0.2	-	-
8861	3	-	0.3	-	-
8862	Nil	-	0.1	-	-
8863	Nil	-	0.1	-	-
8864	Nil	-	0.2	-	-
8865	Nil	-	0.3	-	-
8866	7	-	0.4	-	-
8867	3	Nil	0.2	-	-
8868	3	-	0.2	-	-
8869	Nil	-	0.3	-	-
8870	2	-	0.2	-	-
8871	Nil	-	0.1	-	-
8872	33	34	0.3	-	-
8873	3	-	0.2	-	-
8874	Nil	-	0.2	-	-
8875	2	-	0.4	350	-
8876	Nil	-	0.3	848	-
8877	5	-	0.1	-	-
8878	Nil	-	0.2	-	-
8879	5	Nil	0.3	-	-
8880	10	-	0.2	-	-
8881	2	-	0.3	-	-
8882	Nil	-	2.6	1550	-
8883	7	-	0.1	-	-

One assay ton portion used.

Certified by 





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## Geochemical Analysis Certificate

6W-5275-RG1

Company: NOVA WEST RESOURCES INC

Date: DEC-20-96

Project:

Attn: N. MacIsaac

We hereby certify the following Geochemical Analysis of 47 Core samples submitted DEC-12-96 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
8884	3	Nil	0.2	-	-
8885	Nil	-	0.2	-	-
8886	Nil	-	0.2	-	-
8887	2	-	0.2	-	-
8888	2	-	0.1	-	-
8889	Nil	-	0.1	-	-
8890	Nil	-	0.1	-	-
8891	Nil	-	0.1	-	-
8892	Nil	-	0.1	-	-
8893	Nil	-	0.1	-	-
8894	Nil	-	0.2	-	-
8895	495	387	0.3	171	-
8896	7	-	0.3	459	-
8897	9	-	0.3	698	-
8898	3	-	0.2	366	-
8899	Nil	-	0.3	72	-
8900	Nil	-	0.1	241	-

One assay ton portion used.

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

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## Geochemical Analysis Certificate

6W-5276-RG1

Company: **NOVA WEST RESOURCES INC**

Date: DEC-20-96

Project:

Attn: N. MacIsaac

We hereby certify the following Geochemical Analysis of 36 Core samples submitted DEC-13-96 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
8801	Nil	-	0.1	51	-
8802	Nil	-	0.1	68	-
8803	Nil	-	0.1	74	-
8804	Nil	Nil	0.6	4290	-
8805	Nil	-	1.7	10300	-
8806	Nil	-	1.5	3330	-
8807	Nil	-	0.5	2220	-
8808	Nil	-	0.4	4300	-
8809	Nil	-	0.5	-	-
8810	Nil	-	0.2	-	-
8811	Nil	-	0.1	-	-
8812	Nil	-	0.1	-	-
8813	2	-	0.3	-	-
8814	123	149	1.3	1970	-
8815	9	-	0.4	342	428
8816	3	-	0.2	327	206
8817	2	-	0.3	394	242
8818	Nil	-	0.5	3850	-
8819	Nil	-	0.2	3430	-
8820	Nil	-	0.3	3560	-
8821	Nil	-	0.1	-	-
8822	2	2	0.2	-	-
8823	2	-	0.3	-	-
8824	Nil	-	0.3	-	-
8825	2	-	0.1	-	-
8826	Nil	-	0.1	565	-
8827	Nil	-	0.8	3440	-
8828	Nil	-	0.5	3710	-
8829	3	-	0.1	-	-
8830	Nil	-	0.1	-	-

One assay ton portion used.

Certified by

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## Geochemical Analysis Certificate

6W-5276-RG1

Company: NOVA WEST RESOURCES INC

Date: DEC-20-96

Project:

Att: N. MacIsaac

We hereby certify the following Geochemical Analysis of 36 Core samples submitted DEC-13-96 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
8831	Nil	-	0.1	-	-
8832	2	-	0.1	-	-
8833	Nil	-	0.2	-	-
8834	Nil	-	0.1	-	-
8835	Nil	Nil	0.7	4570	-
8836	Nil	-	0.4	2030	-

One assay ton portion used.

Certified by



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## Geochemical Analysis Certificate

6W-5325-RG1

Company: **NOVAWEST RESOURCES INC**

Date: DEC-24-96

Project:

Attn: **N. MacIsaac**

We hereby certify the following Geochemical Analysis of 14 Core samples submitted DEC-17-96 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM	Zn PPM
8838	Ni1	-	0.1	-	-
8839	9	7	0.1	-	-
8840	Ni1	-	0.5	-	-
8841	15	-	0.7	-	-
8842	5	-	0.2	-	-
8843	7	-	0.1	-	-
8844	Ni1	-	0.2	56	-
8845	Ni1	-	0.1	35	-
8846	Ni1	-	0.1	48	-
8847	14	-	0.1	22	-
8848	7	-	0.1	36	-
8849	36	-	0.2	137	528
8850	17	17	0.5	139	344
19501	5	-	0.1	126	119

One assay ton portion used.

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

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FAX (705) 642-3300



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## Geochemical Analysis Certificate

7W-0032-RG1

Company: **NOVAWEST RESOURCES INC**

Date: JAN-10-97

Project:

Attn: N. MacIsaac

We hereby certify the following Geochemical Analysis of 19 Core samples submitted JAN-07-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Cu PPM
8837	Ni1	-	0.1	-
19502	Ni1	-	0.1	91
19503	Ni1	-	0.1	68
19504	12	-	0.1	-
19505	2	-	0.1	-
19506	12	17	0.1	-
19507	2	-	0.1	-
19508	Ni1	-	0.1	-
19509	Ni1	-	0.1	-
19510	Ni1	-	0.1	-
19511	Ni1	-	0.1	48
19512	12	-	0.1	84
19513	Ni1	-	0.1	56
19514	Ni1	-	0.1	103
19515	5	2	0.1	86
19516	Ni1	-	0.1	69
19517	Ni1	-	0.1	876
19518	Ni1	-	0.1	37
19519	Ni1	-	0.1	118

One assay ton portion used.

Certified by

P.O. Box 10, Swastika, Ontario P0K 1T0

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FAX (705) 642-3300

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

7W-0030-RG1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
19540	50.00	13.35	14.39	7.88	5.87	3.26	1.26	1.16	0.25	0.16	280	200	100	30	40	< 30	2	75	35	115	290	40	105	1.71	99.28
19541	50.30	13.32	14.64	7.86	5.43	2.89	1.72	1.20	0.25	0.16	330	190	110	32	41	< 30	2	80	40	120	300	40	85	1.22	98.99
19544	50.06	13.51	14.20	8.16	5.82	2.56	1.88	1.17	0.24	0.16	430	190	100	30	41	< 30	2	80	35	115	295	40	65	1.39	99.14
19547	50.87	13.63	14.89	8.49	5.72	2.61	1.60	1.26	0.25	0.14	360	210	110	32	42	< 30	3	75	50	115	310	35	110	1.37	100.85
19548	48.39	13.56	14.26	8.18	6.40	2.77	1.20	1.18	0.22	0.16	270	210	100	30	42	< 30	3	80	45	150	300	45	560	1.87	98.19
19549	49.15	13.67	14.27	8.16	5.80	2.52	1.68	1.17	0.24	0.14	350	200	100	30	41	< 30	3	95	50	135	310	40	440	1.19	98.01
19550	47.52	6.43	8.37	7.86	22.31	0.34	0.14	0.26	0.22	< 0.02	30	40	20	10	18	< 30	< 1	1115	900	< 5	85	40	75	5.32	98.78
19551	47.02	3.97	8.75	9.28	23.56	0.19	< 0.02	0.20	0.14	< 0.02	< 10	30	10	4	15	< 30	< 1	1295	1260	10	55	50	10	6.57	99.70
19552	45.18	6.53	9.78	6.05	25.20	0.23	< 0.02	0.27	0.11	0.04	< 10	20	40	6	13	< 30	< 1	1355	1520	50	75	65	10	6.14	99.55
19553	46.27	8.35	9.72	9.48	18.94	1.00	0.26	0.42	0.20	0.04	30	20	20	10	30	< 30	< 1	720	980	60	150	40	15	3.53	98.20
19554	43.37	9.27	10.26	7.48	21.14	0.39	0.28	0.57	0.18	0.04	40	10	40	12	29	< 30	< 1	1005	1125	< 5	130	45	25	5.42	98.41
19555	43.67	7.31	10.89	5.14	24.74	0.22	0.06	0.37	0.11	0.02	10	< 10	20	8	27	< 30	< 1	1345	1500	10	125	60	25	5.47	98.01
19556	50.81	5.17	8.28	8.70	22.58	0.30	0.12	0.25	0.16	0.04	30	20	20	8	17	< 30	< 1	890	720	< 5	95	40	35	3.81	100.24
19557	48.23	6.12	8.81	7.52	22.00	0.26	0.32	0.30	0.17	< 0.02	60	20	20	8	20	< 30	< 1	1380	1425	< 5	90	45	30	4.54	98.26
19558	48.19	4.87	8.80	4.32	26.49	0.13	< 0.02	0.22	0.11	< 0.02	< 10	10	20	6	14	< 30	< 1	1370	910	< 5	70	45	50	5.42	98.57
19559	49.92	5.38	9.15	4.29	25.68	0.08	0.04	0.26	0.13	< 0.02	< 10	< 10	20	6	19	< 30	< 1	1425	1095	< 5	75	55	25	5.31	100.25
19560	49.11	4.86	8.32	4.90	25.53	0.09	< 0.02	0.20	0.15	0.04	< 10	10	20	6	13	< 30	< 1	1570	930	10	50	55	25	5.27	98.47
19561	36.64	16.91	15.00	2.30	17.71	2.00	0.06	1.20	0.21	0.10	20	90	70	30	59	< 30	4	120	85	< 5	305	45	55	8.57	100.70

NOVAWEST RESOURCES INC

ATTN: N. MacIsaac  
 SAMPLE: WHOLE CORE

7W-0030-RG1

TSL ASSAYERS Laboratories

1270 FEWSTER DRIVE, UNIT 3, MISSISSAUGA, ONTARIO L4W 1A4  
 PHONE #: (905) 602-8236 FAX #: (905) 206-0513 ATTN: MDS E

REPORT No. : M8513  
 Page No. : 1 of 1  
 File No. : JA13RA  
 Date : JAN-22-1997

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
96-6 19540 ✓ 479'	50.00	13.35	14.39	7.88	5.87	3.26	1.26	1.16	0.25	0.16	280	200	100	30	40	< 30	2	75	35	115	290	40	105	1.71	99.28
" " 19541 ✓ 485'	50.30	13.32	14.64	7.86	5.43	2.89	1.72	1.20	0.25	0.16	330	190	110	32	41	< 30	2	80	40	120	300	40	85	1.22	98.99
" " 19544 ✓ 444.5'	50.06	13.51	14.20	8.16	5.82	2.56	1.88	1.17	0.24	0.16	430	190	100	30	41	< 30	2	80	35	115	295	40	65	1.39	99.14
" " 19547 ✓ 512.5'	50.87	13.63	14.89	8.49	5.72	2.61	1.60	1.26	0.25	0.14	360	210	110	32	42	< 30	3	75	50	115	310	35	110	1.37	100.85
" " 19548 ✓ 518'	48.39	13.56	14.26	8.18	6.40	2.77	1.20	1.18	0.22	0.16	270	210	100	30	42	< 30	3	80	45	150	300	45	560	1.87	98.19
" " 19549 ✓ 525'	49.15	13.67	14.27	8.16	5.80	2.52	1.68	1.17	0.24	0.14	350	200	100	30	41	< 30	3	95	50	135	310	40	440	1.19	98.01
96-8 19550 221.5'	47.52	6.43	8.37	7.86	22.31	0.34	0.14	0.26	0.22	< 0.02	30	40	20	10	18	< 30	< 1	1115	900	< 5	85	40	75	5.32	98.78
" " 19551 227'	47.02	3.97	8.75	9.28	23.56	0.19	< 0.02	0.20	0.14	< 0.02	< 10	30	10	4	15	< 30	< 1	1295	1260	10	55	50	10	6.57	99.70
" " 19552 231.5'	45.18	6.53	9.78	6.05	25.20	0.23	< 0.02	0.27	0.11	0.04	< 10	20	40	6	13	< 30	< 1	1355	1520	50	75	65	10	6.14	99.55
" " 19553 234.5'	46.27	8.35	9.72	9.48	18.94	1.00	0.26	0.42	0.20	0.04	30	20	20	10	30	< 30	< 1	720	980	60	150	40	15	3.53	98.20
" " 19554 263'	43.37	9.27	10.26	7.48	21.14	0.39	0.28	0.57	0.18	0.04	40	10	40	12	29	< 30	< 1	1005	1125	< 5	130	45	25	5.42	98.41
" " 19555 268'	43.67	7.31	10.89	5.14	24.74	0.22	0.06	0.37	0.11	0.02	10	< 10	20	8	27	< 30	< 1	1345	1500	10	125	60	< 5	5.47	98.01
" " 19556 273'	50.81	5.17	8.28	8.70	22.58	0.30	0.12	0.25	0.16	0.04	30	20	20	8	17	< 30	< 1	890	1720	< 5	95	40	35	3.81	100.24
" " 19557 277'	48.23	6.12	8.81	7.52	22.00	0.26	0.32	0.30	0.17	< 0.02	60	20	20	8	20	< 30	< 1	1380	1425	< 5	90	45	30	4.54	98.26
" " 19558 282'	48.19	4.87	8.80	4.32	26.49	0.13	< 0.02	0.22	0.11	< 0.02	< 10	10	20	6	14	< 30	< 1	1370	910	< 5	70	45	50	5.42	98.57
" " 19559 288'	49.92	5.38	9.15	4.29	25.68	0.08	0.04	0.26	0.13	< 0.02	< 10	< 10	20	6	19	< 30	< 1	1425	1095	< 5	75	55	< 5	5.31	100.25
" " 19560 292.5'	49.11	4.86	8.32	4.90	25.53	0.09	< 0.02	0.20	0.15	0.04	< 10	10	20	6	13	< 30	< 1	1570	930	10	50	55	< 5	5.27	98.47
" " 19561 430.5'	36.64	16.91	15.00	2.30	17.71	2.00	0.06	1.20	0.21	0.10	20	90	70	30	59	< 30	< 1	120	85	< 5	305	45	55	8.57	100.70

SIGNED : Paul MacIsaac

NOVAI IT RESOURCES

ATTN: N. MacIsaac  
 SAMPLE: WHOLE CORE

7W-0058-R01

TSL\ASSAYERS Laboratories

1270 FEMSTER DRIVE, T 3, MISSISSAUGA, ONTARIO L4W 1A4  
 PHONE #: (905) 602-8236 FAX #: (905) 206-0513 ATTN: MDS E

REPORT No. : 8516 *orig.*  
 Page No. : 1 of 1  
 File No. : JAI6RA-LOI  
 Date : JAN-21-1997

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
19524	38.00	19.07	15.42	1.41	15.57	2.48	0.16	0.99	0.18	0.14	30	90	60	22	57	< 30	3	160	500	20	280	60	70	7.46	100.88
19525	47.10	14.44	12.49	0.92	13.80	1.65	0.10	0.71	0.15	0.08	20	40	40	12	40	< 30	2	165	335	25	195	55	65	6.30	97.75
19526	43.90	13.27	13.48	9.58	12.01	1.36	0.26	0.67	0.19	0.08	40	130	40	14	33	< 30	2	240	170	45	195	60	75	3.33	98.15
19527	49.09	13.66	15.68	8.17	6.96	2.73	0.38	1.07	0.22	0.12	280	100	60	24	45	< 30	2	55	40	55	310	50	65	1.34	99.42
19532	52.00	13.62	13.69	8.05	6.21	2.80	0.52	0.98	0.21	0.12	50	90	70	22	43	< 30	2	50	25	10	255	45	50	1.11	99.30
19533	47.04	14.71	12.20	3.72	11.19	2.93	0.28	1.08	0.21	0.12	50	100	60	22	49	< 30	3	50	60	5	250	35	55	4.96	98.43
19534	53.72	14.56	9.68	5.40	6.67	3.70	0.06	1.04	0.13	0.94	20	1020	160	26	23	< 30	3	80	90	45	165	30	70	3.38	99.29
19535	49.72	5.59	9.31	1.88	26.01	0.19	0.04	0.27	0.07	0.08	< 10	40	20	6	17	< 30	< 1	1260	2070	95	75	75	45	6.18	99.34
19542	44.98	8.72	10.83	8.09	21.19	0.33	0.04	0.35	0.19	0.06	< 10	20	30	8	21	< 30	< 1	675	1545	15	130	65	25	5.28	100.05
19543	45.35	7.23	8.39	7.34	23.36	0.11	0.04	0.25	0.19	< 0.02	< 10	< 10	< 10	6	12	< 30	< 1	1495	2035	< 5	75	70	50	5.42	97.69
19545	42.20	10.65	11.41	6.77	22.32	0.24	0.12	0.64	0.19	0.08	10	30	30	12	36	< 30	1	410	1160	50	190	60	70	6.26	100.86
19546	35.03	14.80	15.83	4.42	20.98	0.21	0.02	1.01	0.24	0.12	< 10	20	50	20	36	< 30	2	165	140	20	285	65	60	7.34	100.00
19562	47.08	13.81	10.22	11.15	9.65	2.28	0.08	0.79	0.16	0.10	10	770	40	16	43	< 30	2	110	355	10	225	40	< 5	2.28	97.62

SIGNED :

*N. MacIsaac*



TSL\ASSAYERS Laboratories

NOVAW. T RESOURCES

1270 FEWSTER DRIVE, Unit 3, MISSISSAUGA, ONTARIO L4W 1M4

ATTN: N. MacIsaac

PHONE #: (905) 602-8236

FAX #: (905) 206-0513 ATTN: MDS E

SAMPLE: WHOLE CORE

REPORT No. : A. 316

Page No. : 1 of 1

File No. : JA16RA.LOI

Date : JAN-21-1997

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

7W-0058-RG1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
96-7 19545	42.20	10.65	11.41	6.77	22.32	0.24	0.12	0.64	0.19	0.08	10	30	30	12	36	< 30	1	410	1160	750	190	60	70	6.26	98.86
19546	35.03	14.80	15.83	4.42	20.98	0.21	0.02	1.01	0.24	0.12	< 10	20	50	20	36	< 30	2	165	140	20	285	65	60	7.34	100.00
19562	47.08	13.81	10.22	11.15	9.65	2.28	0.08	0.79	0.16	0.10	10	770	40	16	43	< 30	2	110	355	10	225	40	< 5	2.28	97.62
96-8 19550	47.52	6.43	8.37	7.86	22.31	0.34	0.14	0.26	0.22	< 0.02	30	40	20	10	18	< 30	< 1	1115	900	< 5	85	40	75	5.32	98.78
19551	47.02	3.97	8.75	9.28	23.56	0.19	< 0.02	0.20	0.14	< 0.02	< 10	30	10	4	15	< 30	< 1	1295	1260	10	55	50	10	6.57	99.70
19552	45.18	6.53	9.78	6.05	25.20	0.23	< 0.02	0.27	0.11	0.04	< 10	20	40	6	13	< 30	< 1	1355	1520	50	75	65	10	6.14	99.55
19553	46.27	8.35	9.72	9.48	18.94	1.00	0.26	0.42	0.20	0.04	30	20	20	10	30	< 30	< 1	720	980	60	150	40	15	3.53	98.20
19554	43.37	9.27	10.26	7.48	21.14	0.39	0.28	0.57	0.18	0.04	40	10	40	12	29	< 30	< 1	1005	1125	< 5	130	45	25	5.42	98.41
19555	43.67	7.31	10.89	5.14	24.74	0.22	0.06	0.37	0.11	0.02	10	< 10	20	8	27	< 30	< 1	1345	1500	10	125	60	< 5	5.47	98.01
19556	50.81	5.17	8.28	8.70	22.58	0.30	0.12	0.25	0.16	0.04	30	20	20	8	17	< 30	< 1	890	720	< 5	95	40	35	3.81	100.24
19557	48.23	6.12	8.81	7.52	22.00	0.26	0.32	0.30	0.17	< 0.02	60	20	20	8	20	< 30	< 1	1380	1425	< 5	90	45	30	4.54	98.26
19558	48.19	4.87	8.80	4.32	26.49	0.13	< 0.02	0.22	0.11	< 0.02	< 10	10	20	6	14	< 30	< 1	1370	910	< 5	70	45	50	5.42	98.57
19559	49.92	5.38	9.15	4.29	25.68	0.08	0.04	0.26	0.13	< 0.02	< 10	< 10	20	6	19	< 30	< 1	1425	1095	< 5	75	55	< 5	5.31	100.25
19560	49.11	4.86	8.32	4.90	25.53	0.09	< 0.02	0.20	0.15	0.04	< 10	10	20	6	13	< 30	< 1	1570	930	10	50	55	< 5	5.27	98.47
19561	36.64	16.91	15.00	2.30	17.71	2.00	0.06	1.20	0.21	0.10	20	90	70	30	59	< 30	4	120	85	< 5	305	45	55	8.57	100.70
96-9 19534	53.72	14.56	9.68	5.40	6.67	3.70	0.06	1.04	0.13	0.94	20	1020	160	26	23	< 30	3	80	90	45	165	30	70	3.38	99.29

SIGNED :

*[Handwritten Signature]*

NOVA TEST RESOURCES

ATTN: N. Isaac

SAMPLE: CORE

7W-0031-RG1

ISL ASSAYERS LABORATORIES

1270 FEWSTER DRIVE SUITE 3, MISSISSAUGA, ONTARIO L4W 1A4

PHONE #: (905) 603-236

FAX #: (905) 206-0513 ATTN: MDS E

REPORT No. : 8517

Page No. : 1 of 1

File No. : JA16RA.LOI

Date : JAN-21-1997

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
19520	44.40	4.86	9.17	5.58	27.68	0.15	0.02	0.24	0.09	0.02	< 10	50	10	6	17	< 30	< 1	1265	1540	80	85	75	< 5	7.12	99.34
19521	43.91	4.69	9.35	5.85	27.09	0.05	0.04	0.23	0.09	0.02	< 10	40	10	4	16	< 30	< 1	1425	1875	90	85	70	< 5	7.67	98.99
19522	48.46	4.19	8.63	5.45	26.17	0.11	<0.02	0.20	0.11	<0.02	< 10	< 10	10	4	15	< 30	< 1	1230	1730	80	70	60	< 5	5.02	98.35
19523	45.18	13.92	8.83	3.43	18.99	1.99	0.76	0.61	0.10	0.14	500	230	90	4	22	< 30	1	705	925	35	120	40	< 5	5.58	99.54
19528	46.34	9.40	6.06	2.71	26.97	0.46	0.52	0.28	0.09	0.04	60	< 10	40	16	19	< 30	2	1760	1480	245	45	55	< 5	5.78	98.65
19529	43.34	6.66	7.53	3.54	30.16	0.27	0.06	0.23	0.08	0.06	10	20	10	8	16	< 30	< 1	1750	1800	150	85	70	< 5	5.60	97.54
19530	45.51	6.41	8.13	2.04	31.46	0.08	<0.02	0.28	0.08	<0.02	< 10	< 10	< 10	< 2	20	< 30	< 1	1855	1555	135	100	70	< 5	6.23	100.19
19531	47.17	9.14	6.34	4.52	27.06	0.76	0.44	0.24	0.12	0.28	340	10	10	10	16	< 30	1	1250	945	110	85	45	< 5	4.87	100.95
19536	46.07	18.71	10.74	3.84	8.44	5.23	1.78	1.15	0.17	0.14	340	210	110	36	41	< 30	3	135	60	235	280	40	< 5	2.86	99.13
19537	48.04	16.91	11.65	5.70	6.63	4.21	2.28	1.23	0.19	0.12	410	210	110	42	44	< 30	3	125	60	270	280	45	< 5	1.71	98.67
19538	41.84	18.65	12.12	2.54	11.52	4.41	1.38	1.36	0.16	0.14	330	190	120	42	48	< 30	4	90	60	255	290	40	< 5	4.78	98.91
19539	40.83	17.97	13.35	1.86	13.70	3.69	0.88	1.43	0.18	0.14	200	160	130	40	50	< 30	4	130	70	305	295	50	10	6.06	100.07

*[Handwritten Signature]*

TSL ASSAYERS Laboratories

NOVA ST RESOURCES

1270 FEWSTER DRIVE, UNIT 3, MISSISSAUGA, ONTARIO L4W 1A4

ATTN: N. MacIsaac

PHONE #: (905) 602-8236

FAX #: (905) 206-0513 ATTN: MDS E

REPORT No. : 517

Page No. : 1 of 1

File No. : JAL6RA.LOI

Date : JAN-21-1997

SAMPLE: CORE

I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

7W-0031-RG1

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL	
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
96-3 56-74 Alt. Talcose	19535	49.72	5.59	9.31	1.88	26.01	0.19	0.04	0.27	0.07	0.08	< 10	40	20	6	17	< 30	< 1	1260	2070	95	75	75	45	6.18	99.34
	19542	44.98	8.72	10.83	8.09	21.19	0.33	0.04	0.35	0.19	0.06	< 10	20	30	8	21	< 30	< 1	675	1545	15	130	65	25	5.28	100.05
	19543	45.35	7.23	8.39	7.34	23.36	0.11	0.04	0.25	0.19	< 0.02	< 10	< 10	< 10	6	12	< 30	< 1	1495	2035	< 5	75	70	50	5.42	97.69
96-4 71'-87.5' U.M. Volc. (Perid.)	19520	44.40	4.86	9.17	5.58	27.68	0.15	0.02	0.24	0.09	0.02	< 10	50	10	6	17	< 30	< 1	1265	1540	80	85	75	< 5	7.12	99.34
	19521	43.91	4.69	9.35	5.85	27.09	0.05	0.04	0.23	0.09	0.02	< 10	40	10	4	16	< 30	< 1	1425	1875	90	85	70	< 5	7.67	98.99
	19522	48.46	4.19	8.63	5.45	26.17	0.11	< 0.02	0.20	0.11	< 0.02	< 10	< 10	10	4	15	< 30	< 1	1230	1730	80	70	60	< 5	5.02	98.35
	19523	45.18	13.92	8.83	3.43	18.99	1.99	0.76	0.61	0.10	0.14	500	230	90	4	22	< 30	1	705	925	35	120	40	< 5	5.58	99.54
96-5 67-82' U.M. Volc. (Perid.)	19528	46.34	9.40	6.06	2.71	26.97	0.46	0.52	0.28	0.09	0.04	60	< 10	40	16	19	< 30	2	1760	1480	245	45	55	< 5	5.78	98.65
	19529	43.34	6.66	7.53	3.54	30.16	0.27	0.06	0.23	0.08	0.06	10	20	10	8	16	< 30	< 1	1750	1800	150	85	70	< 5	5.60	97.54
	19530	45.51	6.41	8.13	2.04	31.46	0.08	< 0.02	0.28	0.08	< 0.02	< 10	< 10	< 10	< 2	20	< 30	< 1	1855	1555	135	100	70	< 5	6.23	100.19
	19531	47.17	9.14	6.34	4.52	27.06	0.76	0.44	0.24	0.12	0.28	340	10	10	10	16	< 30	1	1250	945	110	85	45	< 5	4.87	100.95
96-6 355-379 Mafic Volc. Mafic	19524	38.00	19.07	15.42	1.41	15.57	2.48	0.16	0.99	0.18	0.14	30	90	60	22	57	< 30	3	160	500	20	280	60	70	7.46	100.88
	19525	47.10	14.44	12.49	0.92	13.80	1.65	0.10	0.71	0.15	0.08	20	40	40	12	40	< 30	2	165	335	25	195	55	65	6.30	97.75
	19526	43.90	13.27	13.48	9.58	12.01	1.36	0.26	0.67	0.19	0.08	40	130	40	14	33	< 30	2	240	170	45	195	60	75	3.33	98.15
	19527	49.09	13.66	15.68	8.17	6.96	2.73	0.38	1.07	0.22	0.12	280	100	60	24	45	< 30	2	55	40	55	310	50	65	1.34	99.42
	19532	52.00	13.62	13.69	8.05	6.21	2.80	0.52	0.98	0.21	0.12	50	90	70	22	43	< 30	2	50	25	10	255	45	50	1.11	99.30
	19533	47.04	14.71	12.20	3.72	11.19	2.93	0.28	1.08	0.21	0.12	50	100	60	22	49	< 30	3	50	60	5	250	35	55	4.96	98.43
96-6 475-528' F. Gabbro	19540	50.00	13.35	14.39	7.88	5.87	3.26	1.26	1.16	0.25	0.16	280	200	100	30	40	< 30	2	75	35	115	290	40	105	1.71	99.28
	19541	50.30	13.32	14.64	7.86	5.43	2.89	1.72	1.20	0.25	0.16	330	190	110	32	41	< 30	2	80	40	120	300	40	85	1.22	98.99
	19544	50.06	13.51	14.20	8.16	5.82	2.56	1.88	1.17	0.24	0.16	430	190	100	30	41	< 30	2	80	35	115	295	40	65	1.39	99.14
	19547	50.87	13.63	14.89	8.49	5.72	2.61	1.60	1.26	0.25	0.14	360	210	110	32	42	< 30	3	75	50	115	310	35	110	1.37	100.85
	19548	48.39	13.56	14.26	8.18	6.40	2.77	1.20	1.18	0.22	0.16	270	210	100	30	42	< 30	3	80	45	150	300	45	560	1.87	98.19
	19549	49.15	13.67	14.27	8.16	5.80	2.52	1.68	1.17	0.24	0.14	350	200	100	30	41	< 30	3	95	50	135	310	40	440	1.19	98.01
96-6 475-528' F. Gabbro	19536	46.07	18.71	10.74	3.84	8.44	5.23	1.78	1.15	0.17	0.14	340	210	110	36	41	< 30	3	135	60	235	280	40	< 5	2.86	99.13
	19537	48.04	16.91	11.65	5.70	6.63	4.21	2.28	1.23	0.19	0.12	410	210	110	42	44	< 30	3	125	60	270	280	45	< 5	1.71	98.67
	19538	41.84	18.65	12.12	2.54	11.52	4.41	1.38	1.36	0.16	0.14	330	190	120	42	48	< 30	4	90	60	255	290	40	< 5	4.78	98.91
	19539	40.83	17.97	13.35	1.86	13.70	3.69	0.88	1.43	0.18	0.14	200	160	130	40	50	< 30	4	130	70	305	295	50	10	6.06	100.07

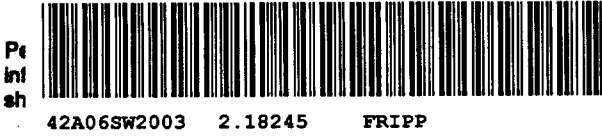
*[Signature]*



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsections 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W9860 00178
Assessment Files Research Imaging



Sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name DENIS BORDIN	Client Number 110011.
Address 663 RICHELIEU TIMMINS ONT	Telephone Number 705-267-7665
	Fax Number
Name GEORGES FOURNIER	Client Number 133184
Address 353 RAILWAY ST TIMMINS ONT. P4N 2P4	Telephone Number 705-267-4576
	Fax Number 705-267-2545

(See SUPPLEMENTARY LIST Attached)

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling stripping, trenching and associated assays       Rehabilitation

Work Type DIAMOND DRILLING (Plus Re-establish Part of grid to locate showing and DRILL HOLES)	Office Use
Dates Work Performed From 15th Oct 96 To 28th Feb. 97	Commodity
Global Positioning System Data (if available)	Total \$ Value of Work Claimed \$ 74,805
Township/Area FRIPP/FRIPP/FRIPP	NTS Reference
M or G-Plan Number M-307/M-281/G-3227	Mining Division Porcupine
	Resident Geologist District Timmins

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name NEIL MACISAAC	Telephone Number 705-264-3531
Address BOX 802 SCHUMACHER ONT. P0N 1G0	Fax Number 705-264-3531
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

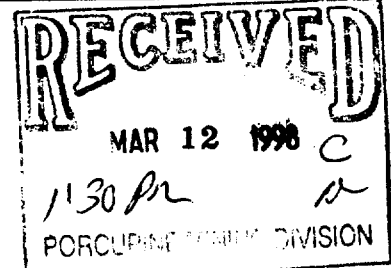
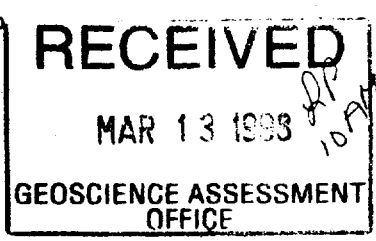
4. Certification by Recorded Holder or Agent

I, NEIL MACISAAC, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent Neil MacIsaac	Date March 12/98
Agent's Address BOX 802 SCHUMACHER ONT	Telephone Number 705-264-3531
	Fax Number 705-264-3531

0241 (03/97)

Opened June 10/98 P0N 1G0



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$28,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1					
2					
3					
4	<i>see attached schedule for Declaration of ASSESSMENT WORK. etc.</i>				
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>					

I, NEIL MAC ISAAC (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Neil Mac Isaac Date: March 12 / 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

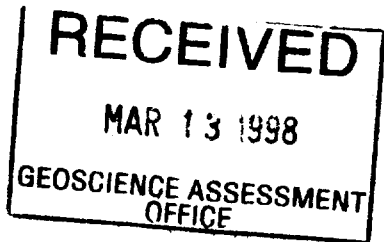
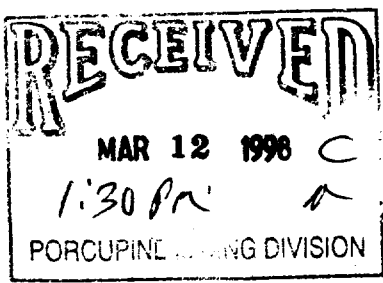
- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)



W9860.00178

RECORDED HOLDERS (SUPPLEMENTARY LIST)

NOVA WEST RESOURCES INC. CLIENT #  
1614 - 675 W. HASTINGS ST. 300 189  
VANCOUVER B.C. CAN TEL 604-683-8990  
V B 6 4W3 FAX 604-574-5139

DOUGLAS J. LALONDE CLIENT #  
53 WAY AVE. 156077  
TIMMINS ONT. TEL. 705-264-5939  
P4N 3C4

MAUREEN A. ROUSSEAU CLIENT #  
BOX 2122 299033  
TIMMINS ONT TEL. 705-264-3779  
P4N 7X1

RECEIVED  
MAR 13 1998 *JP*  
GEOSCIENCE ASSESSMENT  
OFFICE

MAR 12 1998  
1:30 PM  
PORCUPINE MINING DIVISION





Statement of Costs for Assessment Credit

Transaction Number (office use)

W9820.00178

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Re-establish old grid for DRILL PROGRAM (Sketch Attached)	9.9 Km	275.	2722.50
DIAMOND DRILLING & MATERIALS	3028 ft	15.313 / ft	46,367.12
GEOCHEMICAL & WHOLE ROCK ANALYSIS OF DRILL CORE			2686.05
		7% GST.	3624.30
		Sub. Tot.	55,399.97
DRILL SUPERVISION / CORE LOGGING / EXPEDITING	26.5 days	345.28	9150.
Associated Costs (e.g. supplies, mobilization and demobilization).	Labor 21 days	125 / day	2625.
MOBILIZATION & DEMOBILIZATION			5000.
		7% GST	350.
TYPING DRILL LOGS	23 HRS	@ 13.50 / hr	310.50
DRAFTING - PLAN/SECTS.	25 HRS	@ 16.00 / hr	400.00
SAMPLING DRILL CORE USING DIAMOND SAW	21 HRS	@ 14.00 / hr	294.00
<b>Transportation Costs</b>			
USE OF PERSONAL VEHICLES		@ .309 / Km	775.55
<del>Food and Lodging Costs</del>			
CORE SHACK RENTAL	2 MOS.	@ 250.	500.
<b>Total Value of Assessment Work</b>			<b>74,805.02</b>

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK  $\times 0.50 =$  Total \$ value of worked claimed.

Note:

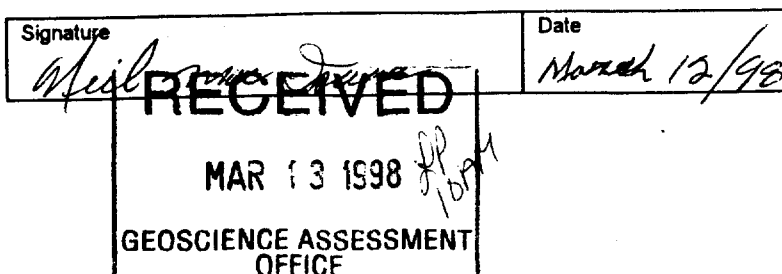
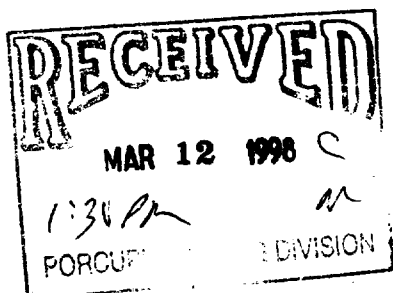
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, NEIL MAC ISAAC, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as AGENT I am authorized to make this certification.  
(recorded holder, agent, or state company position with signing authority)

0212 (03/97)







Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5881

June 2, 1998

DENNIS BORDIN  
663 RICHELIEU STREET  
TIMMINS, Ontario  
P4N-5G5

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpgge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpgge.htm)

Dear Sir or Madam:

**Submission Number:** 2.18245

**Status**

**Subject: Transaction Number(s):** W9860.00178 **Deemed Approval**

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at [benetest@epo.gov.on.ca](mailto:benetest@epo.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.18245

**Date Correspondence Sent:** June 02, 1998

**Assessor:** Steve Beneteau

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9860.00178	1182688	FRIPP	Deemed Approval	May 28, 1998

**Section:**

16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

Neil MacIsaac  
SCHUMACHER, ONTARIO, CANADA

DENNIS BORDIN  
TIMMINS, Ontario

GEORGES FOURNIER  
TIMMINS, Ontario

NOVAWEST RESOURCES INC.  
VANCOUVER, B.C.

DOUGLAS JOSEPH LALONDE  
TIMMINS, Ontario

A. MAUREEN ROUSSEAU  
TIMMINS, ONTARIO

---

DATE OF ISSUE

MAY 20 1988

PROVINCIAL RECORDING OFFICE - SUDBURY

THE TOWNSHIP OF

# FRIPP

DISTRICT OF TIMISKAMING

PORCUPINE MINING DIVISION

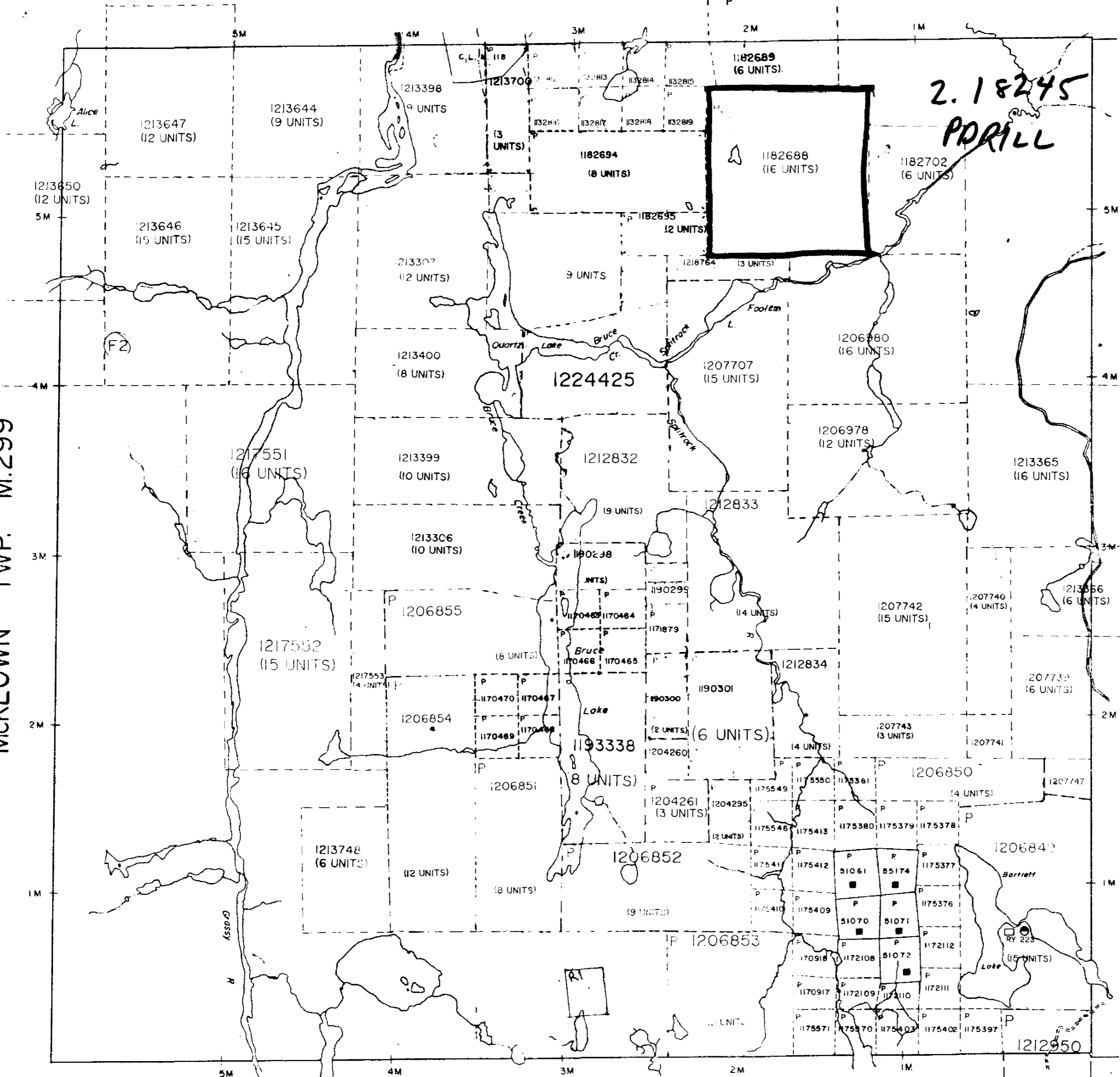
SCALE: 1-INCH 40 CHAINS

PRICE TWP. M.307

MCKEOWN TWP. M.299

MCCARTHUR TWP. M.298

MUSGROVE TWP. M.304



### 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
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

### NOTES

400' surface rights reservation along the shores of all lakes and rivers.

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

Order N <sup>o</sup>	File	Date	Disposition
RY 223			PENDING APPLICATION UNDER THE PUBLIC LANDS ACT

⊕ REMOTE TOURIST CAMPS

Ⓡ AGGREGATE PERMIT SAND & GRAVEL

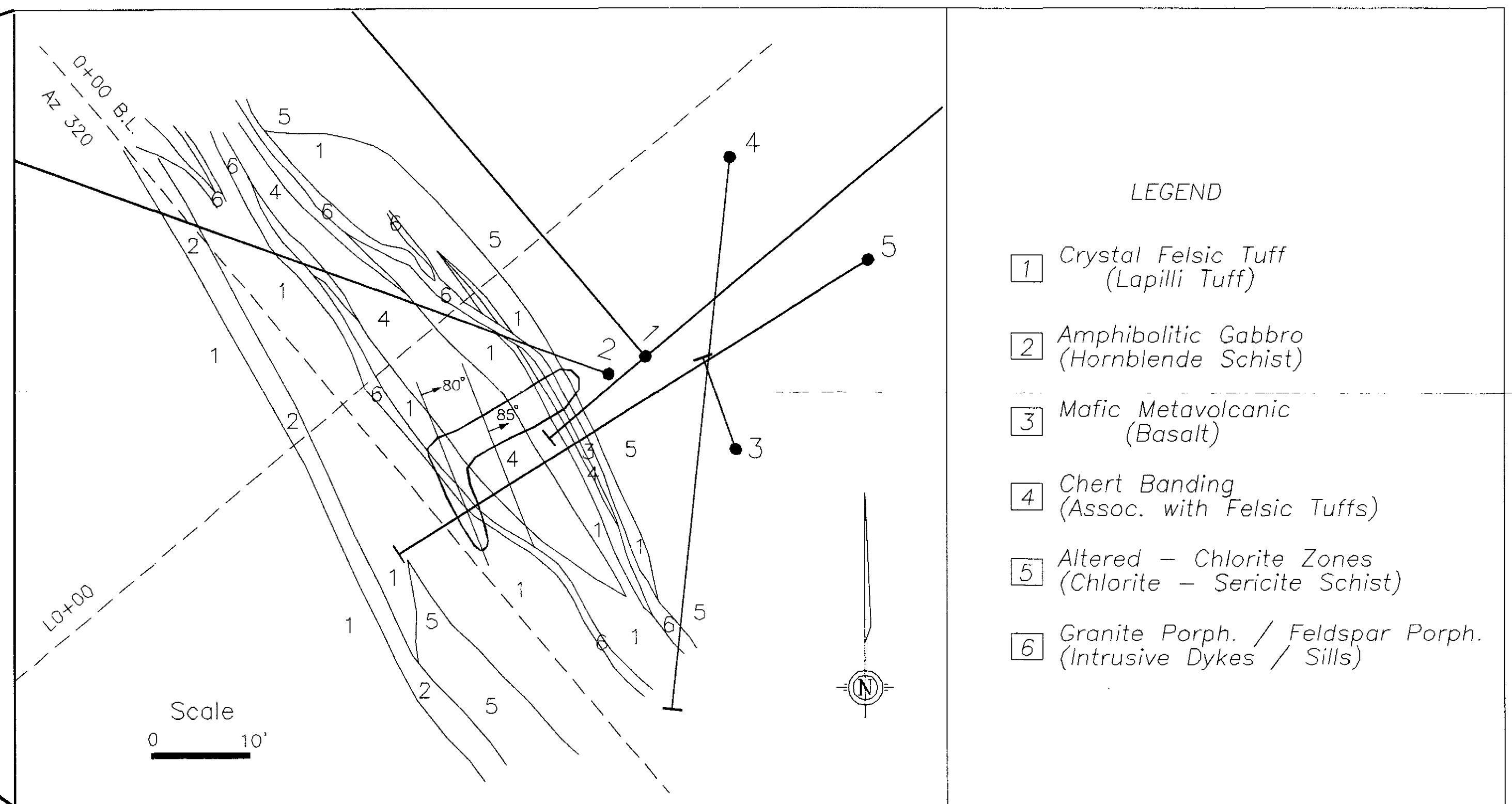
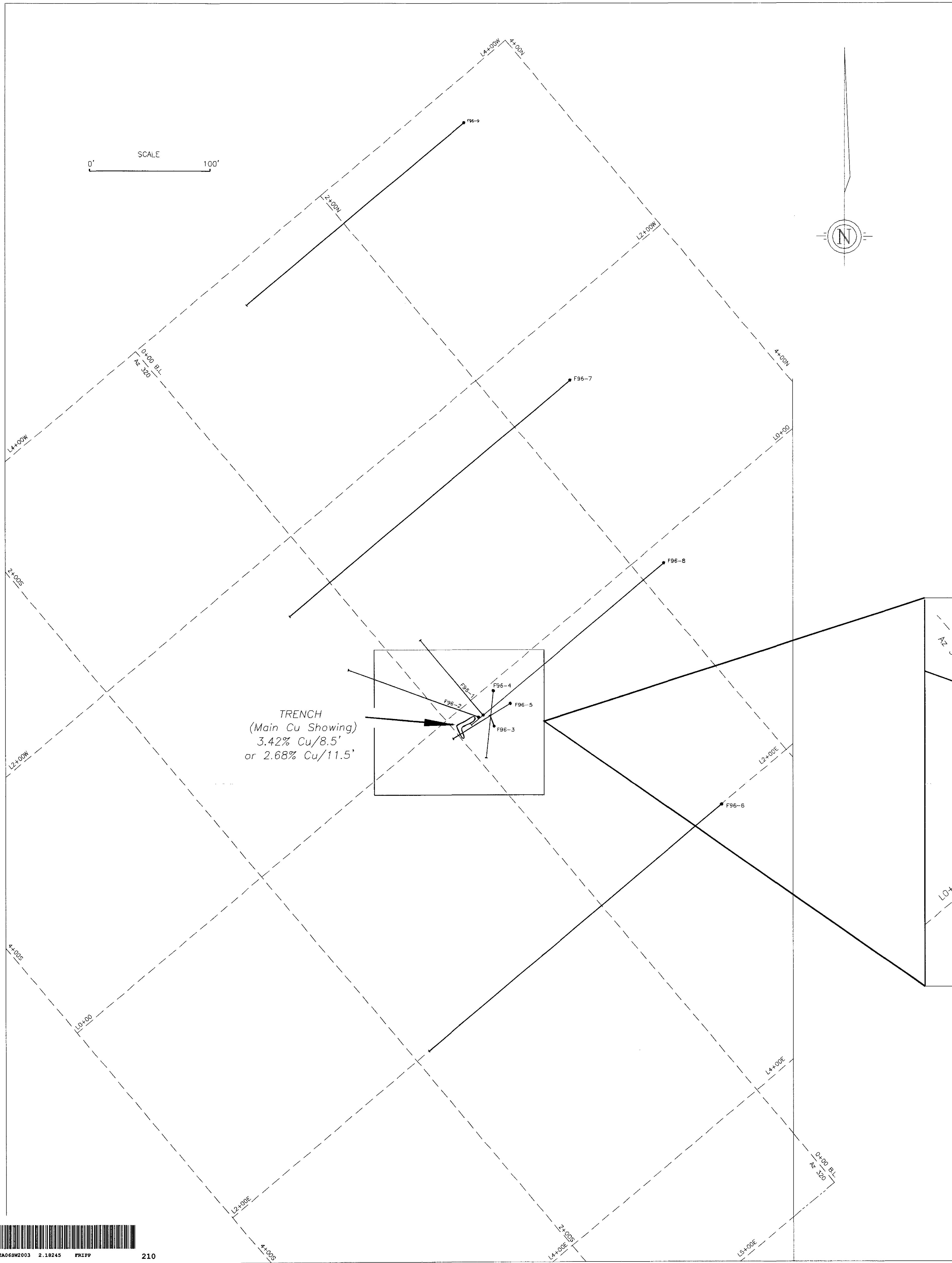
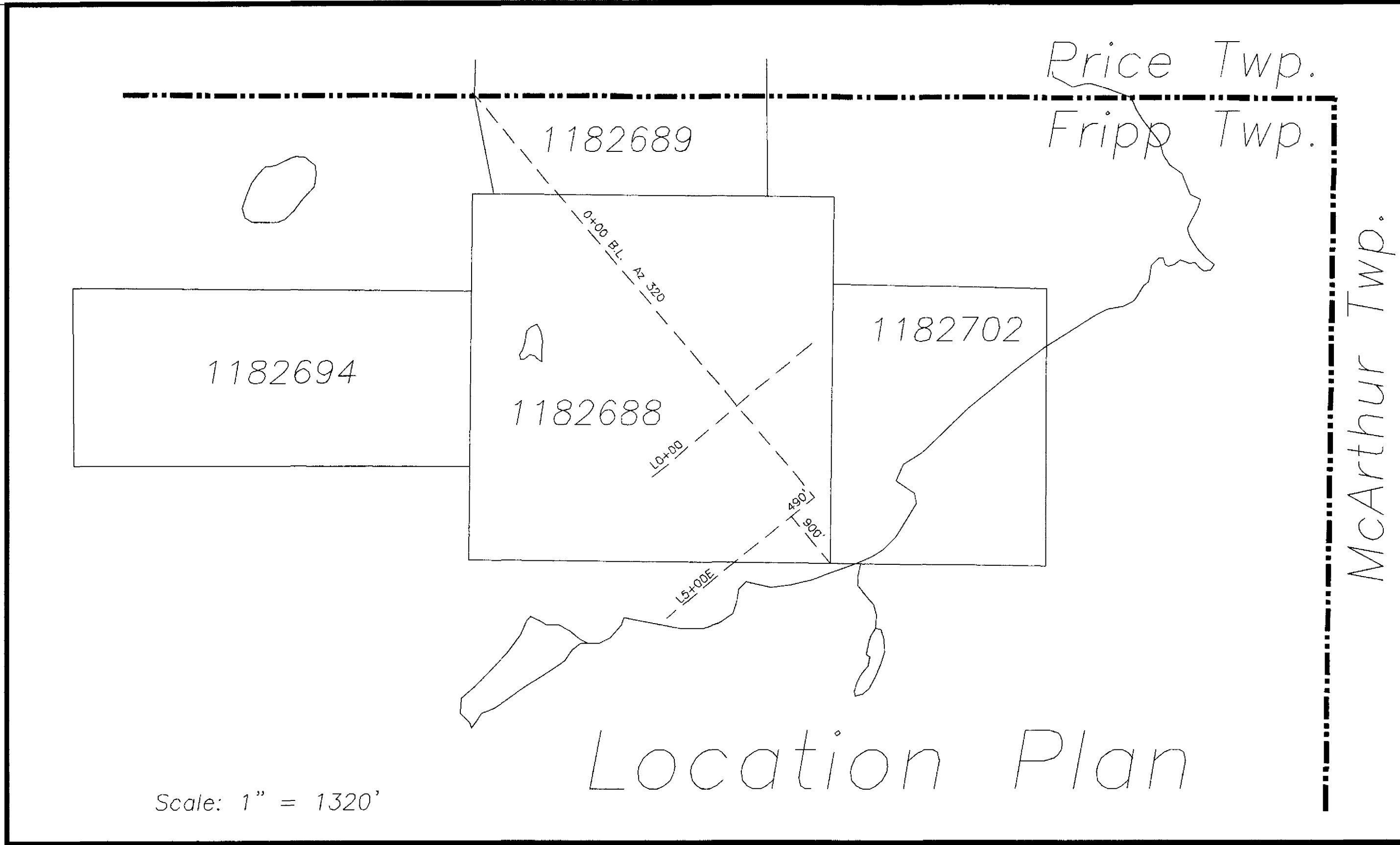
IN SERVICE NOV. 22/89 CHECKED BY S. ROWAN

PLAN NO. M.281

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

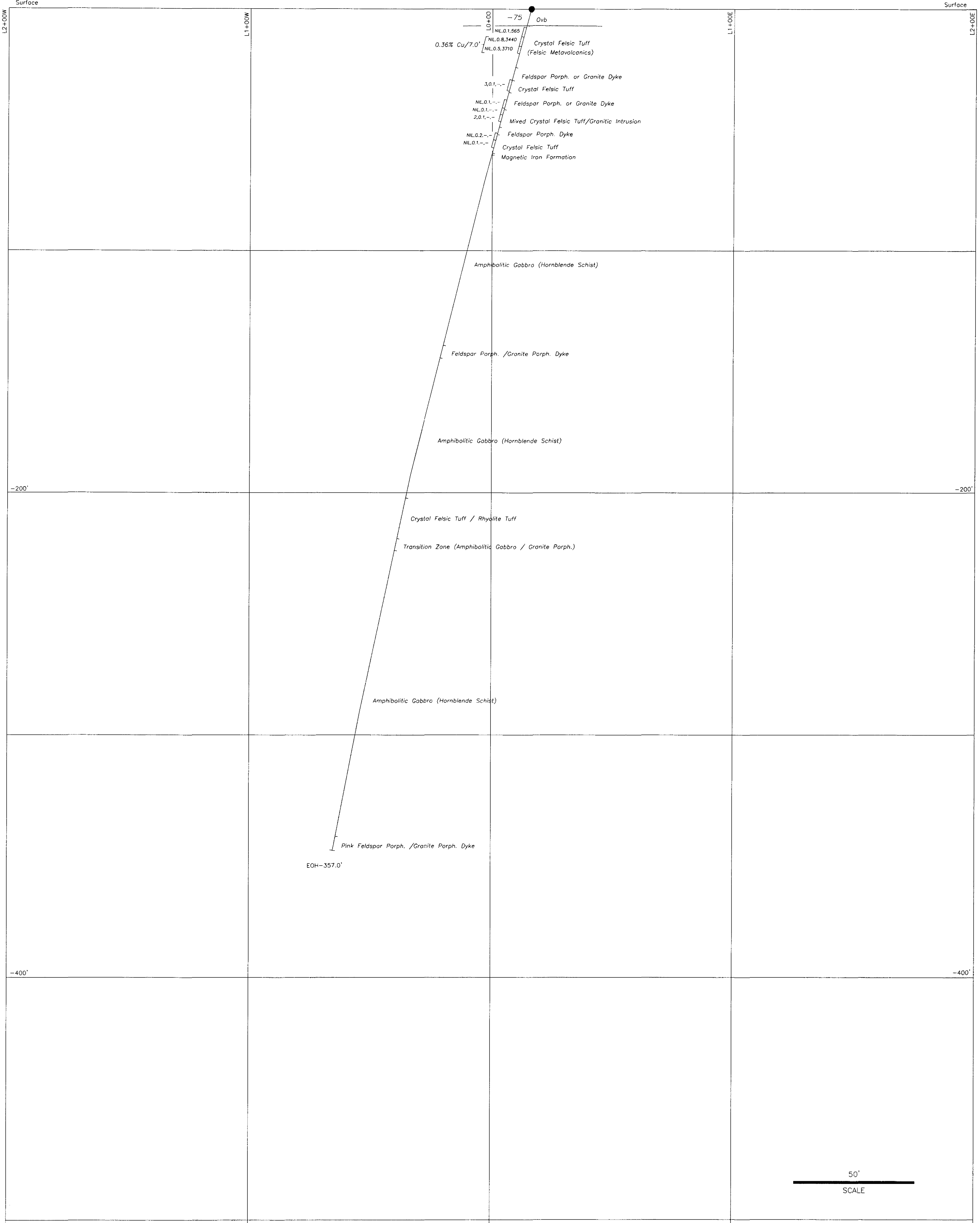
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.





<i>Surface Plan With Drill Hole Locations</i>	
Dwg #:	NOVAWEST
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 40'
<b>NOVAWEST RESOURCES INC.</b>	

F-96-1  
 0+26.5N  
 L0+16E



0vb  
 -75  
 L0+00  
 0.36% Cu/7.0'  
 NIL,0.1,565  
 NIL,0.8,3440  
 NIL,0.5,3710  
 Crystal Felsic Tuff  
 (Felsic Metavolcanics)  
 3.0,1,--  
 Crystal Felsic Tuff  
 NIL,0.1,--  
 Feldspar Porph. or Granite Dyke  
 NIL,0.1,--  
 Feldspar Porph. or Granite Dyke  
 2.0,1,--  
 Mixed Crystal Felsic Tuff/Granitic Intrusion  
 NIL,0.2,--  
 Feldspar Porph. Dyke  
 NIL,0.1,--  
 Crystal Felsic Tuff  
 Magnetic Iron Formation

Amphibolitic Gabbro (Hornblende Schist)

Feldspar Porph. / Granite Porph. Dyke

Amphibolitic Gabbro (Hornblende Schist)

Crystal Felsic Tuff / Rhyolite Tuff

Transition Zone (Amphibolitic Gabbro / Granite Porph.)

Amphibolitic Gabbro (Hornblende Schist)

Pink Feldspar Porph. / Granite Porph. Dyke

EOH-357.0'

50'  
 SCALE

AU AG CU ZN  
 PPB,PPM,PPM,PPM  
 NIL,0.1,565,350

CLAIM 1182688  
 FRIPP TWP.

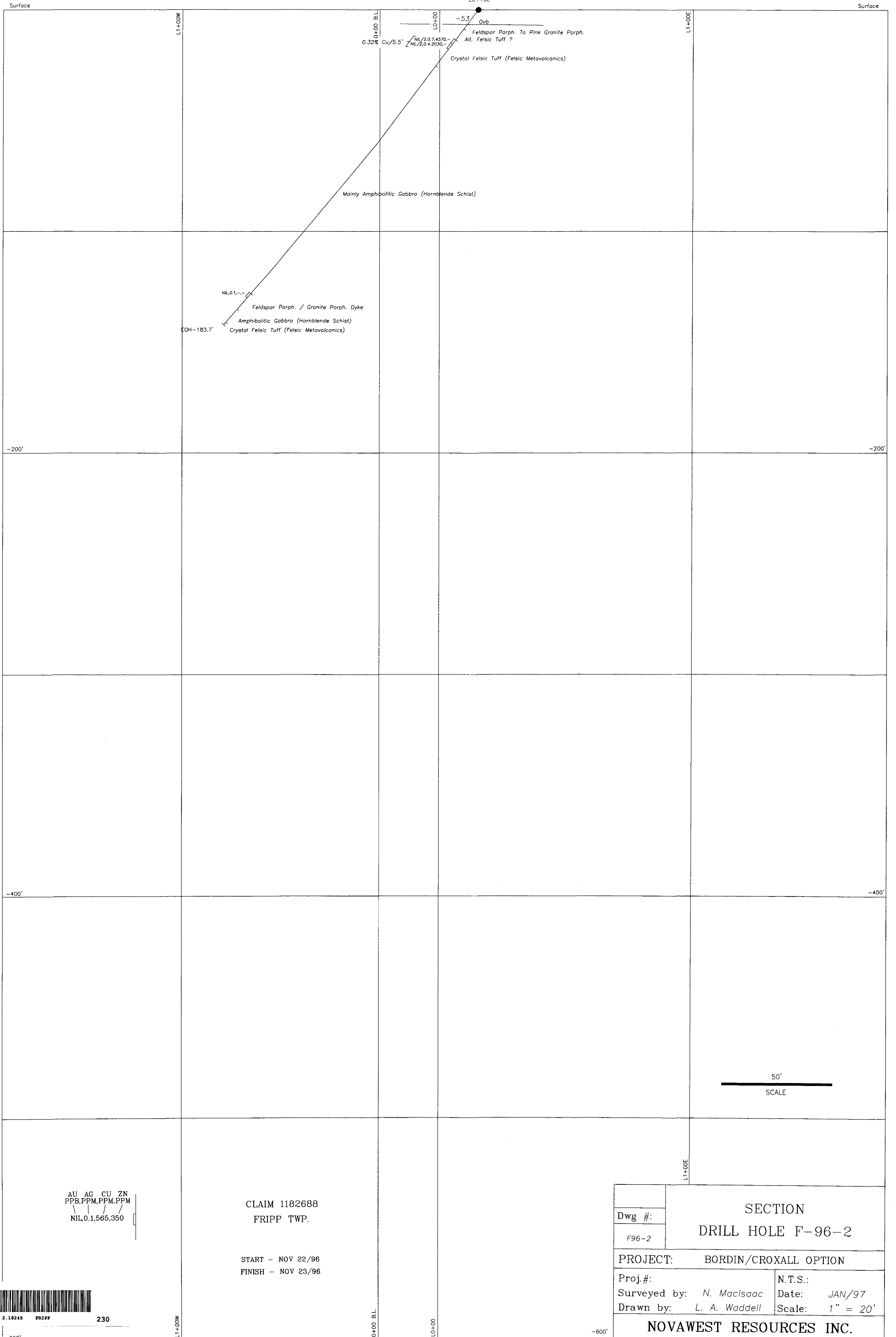
START - NOV 21/96  
 FINISH - NOV 22/96



SECTION DRILL HOLE F-96-1	
Dwg #:	F96-1
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
NOVAWEST RESOURCES INC.	

F-96-2

0+22.5N  
L0+15E



-200'

-400'

-600'

50'  
SCALE

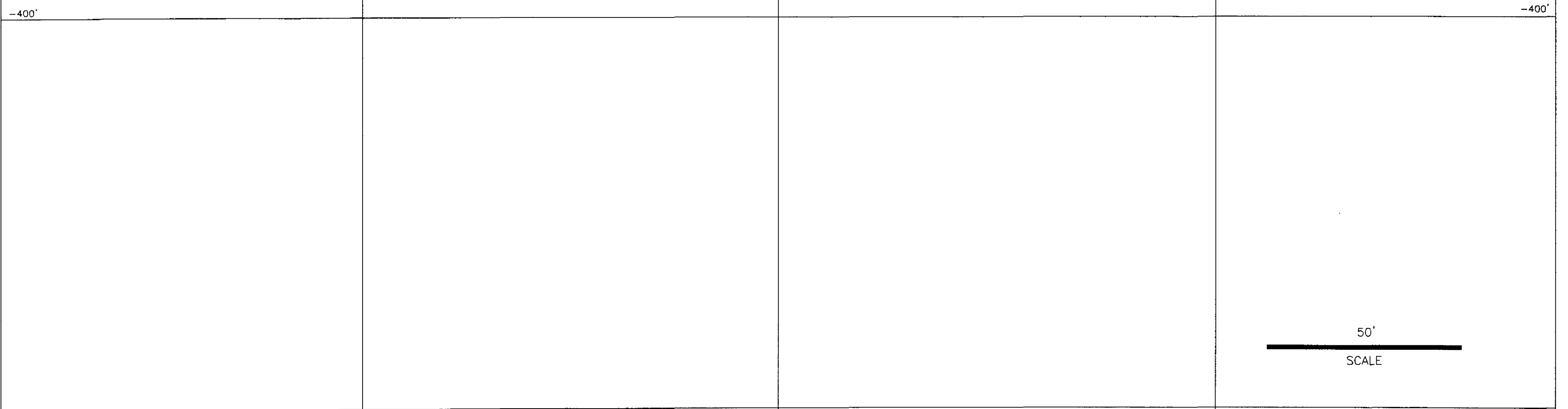
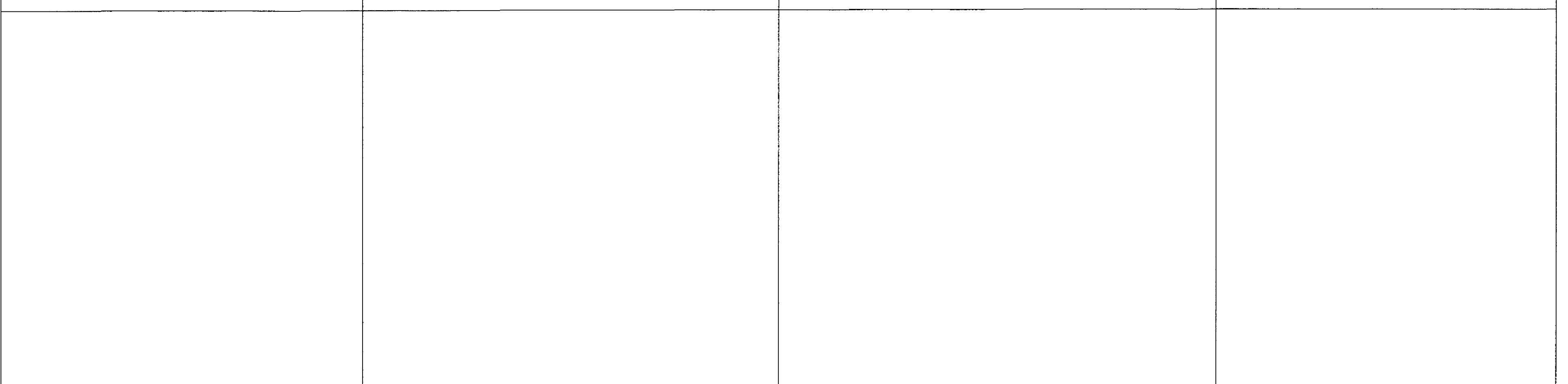
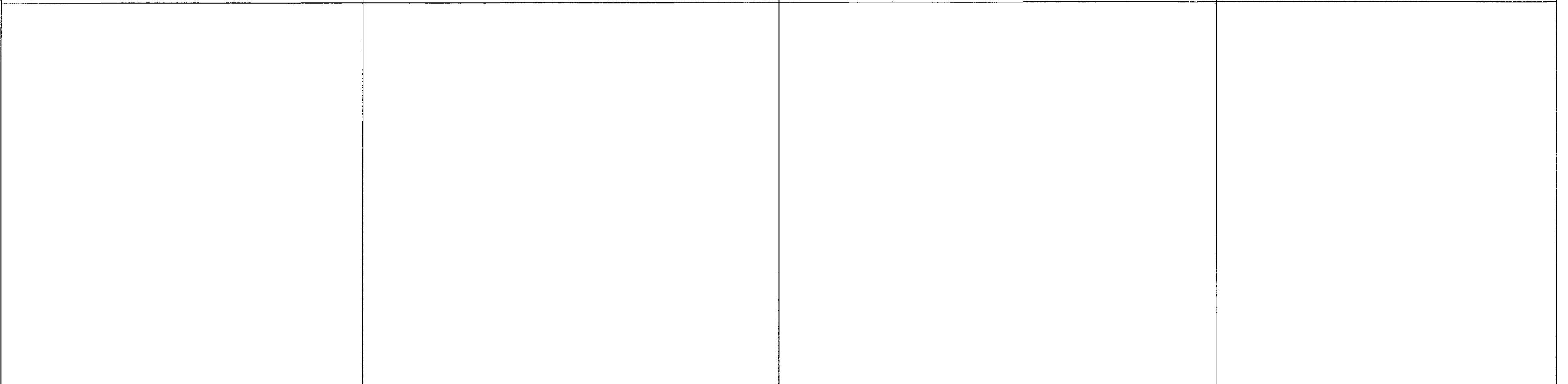
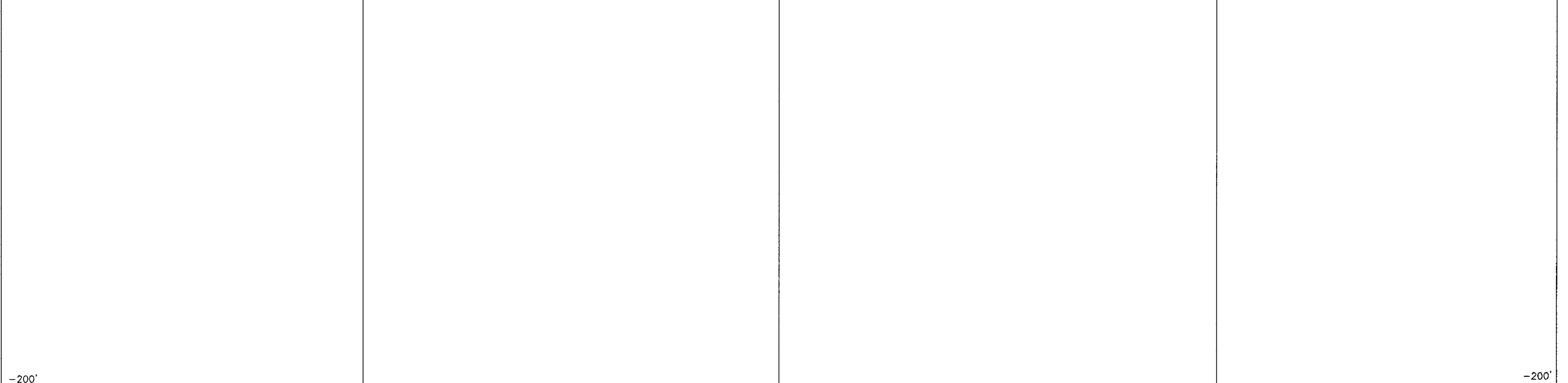
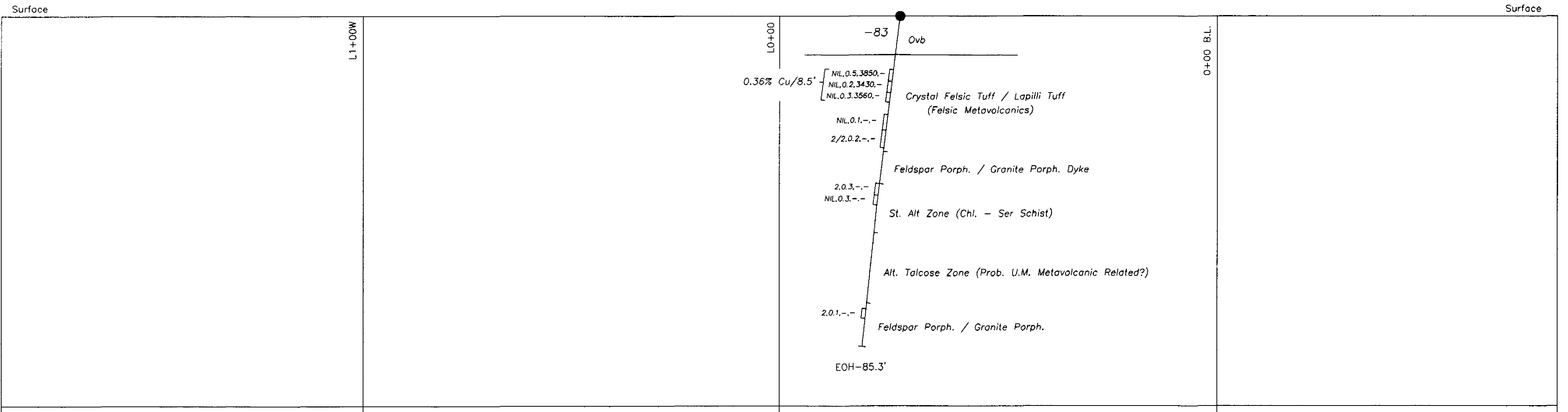
AU AG CU ZN  
PPB, PPM, PPM, PPM  
NIL, 0.1, 565, 350

CLAIM 1182688  
FRIPP TWP.  
  
START - NOV 22/96  
FINISH - NOV 23/96

SECTION DRILL HOLE F-96-2	
Dwg #: F96-2	
PROJECT: BORDIN/CROXALL OPTION	
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
<b>NOVAWEST RESOURCES INC.</b>	



F-96-3  
 0+27.5N  
 L0+29E

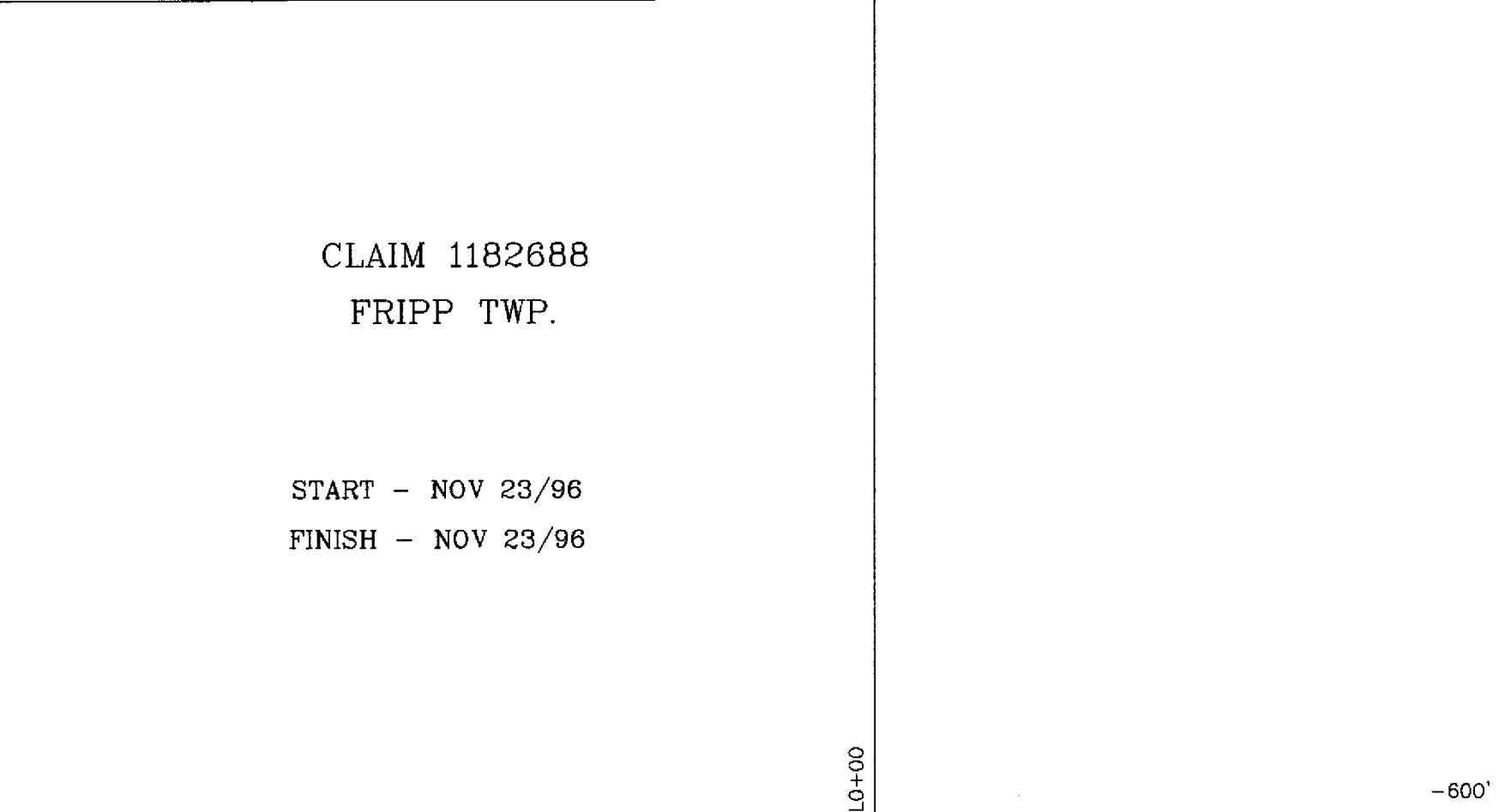


AU AG CU ZN  
 PPB,PPM,PPM,PPM  
 NiL 0.1, 565, 350

CLAIM 1182688  
 FRIPP TWP.

START - NOV 23/96  
 FINISH - NOV 23/96

42A068W2003 2.18245 FRIPP 240



SECTION DRILL HOLE F-96-3	
Dwg #:	F96-3
PROJECT:	BORDIN/CROXALL OPTION
Proj #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
<b>NOVAWEST RESOURCES INC.</b>	



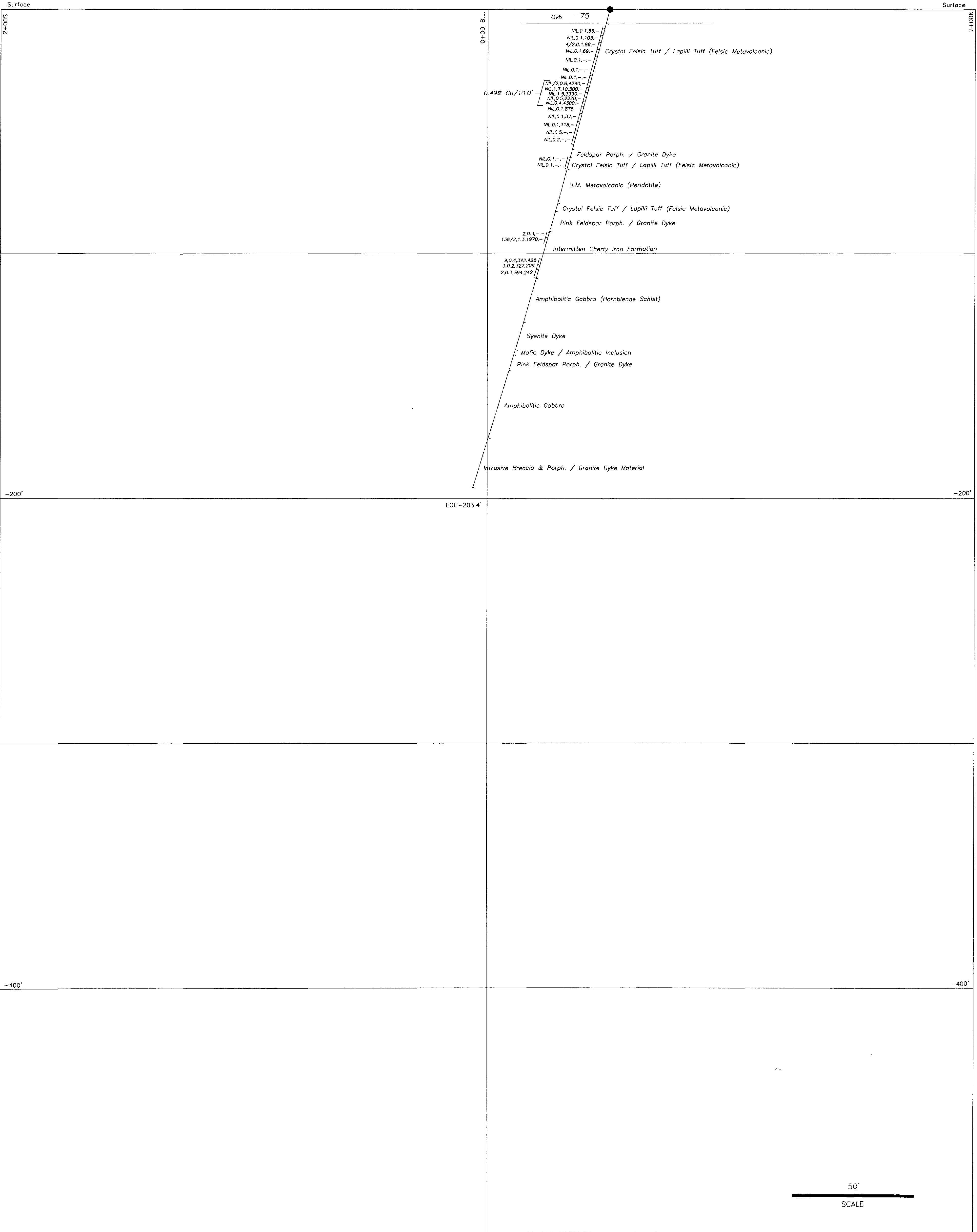




Azm- 238

F-96-5  
0+50N  
10+23E

203' to 2+00S

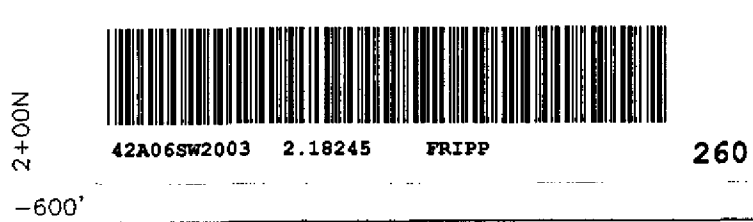


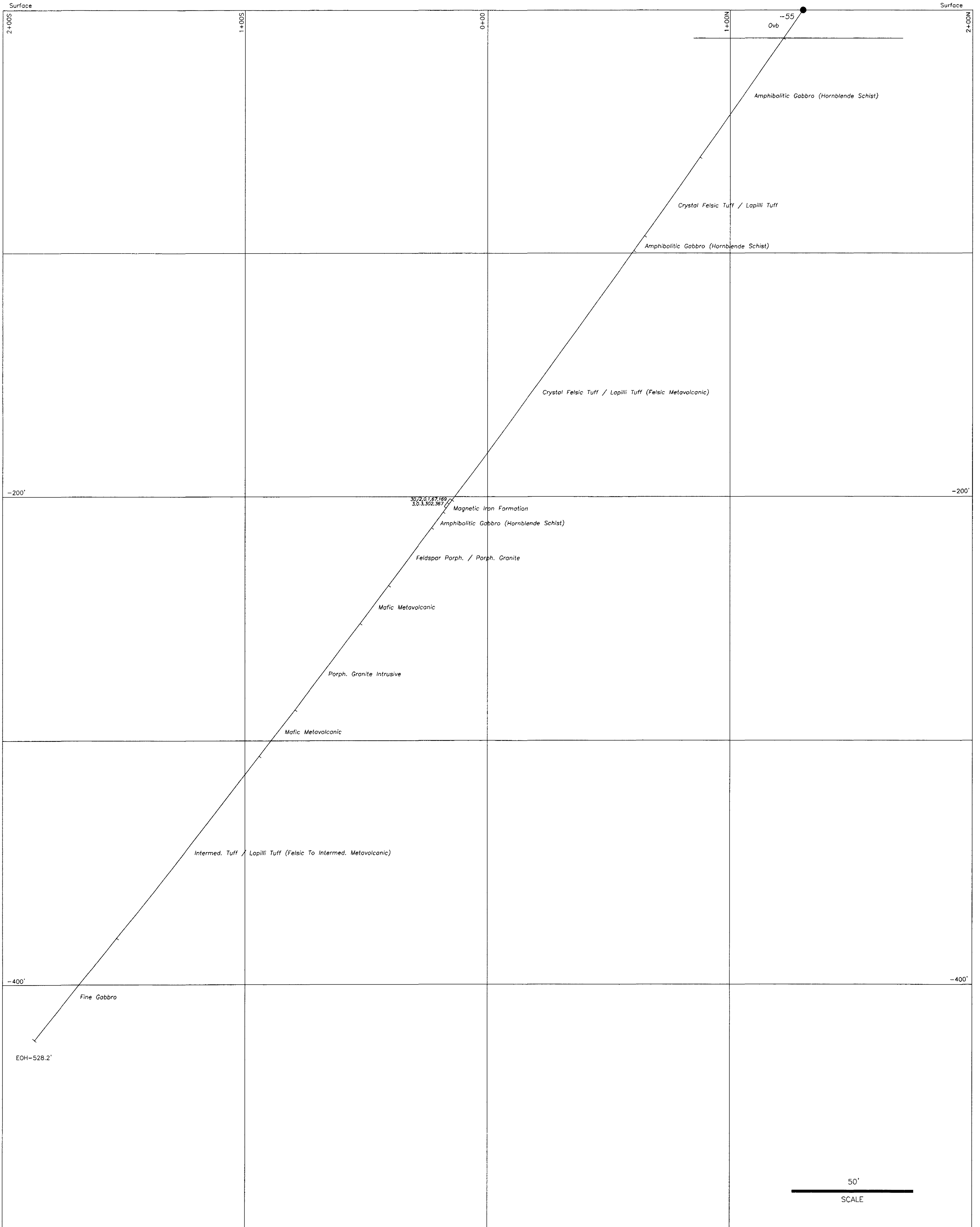
AU AG CU ZN  
PPB,PPM,PPM,PPM  
NIL.0.1,565,350

CLAIM 1182688  
FRIPP TWP.

START - NOV 23/96  
FINISH - NOV 25/96

SECTION DRILL HOLE F-96-5	
Dwg #:	F96-5
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
NOVAWEST RESOURCES INC.	





AU AG CU ZN  
PPB, PPM, PPM, PPM  
NIL, 0.1, 565, 350

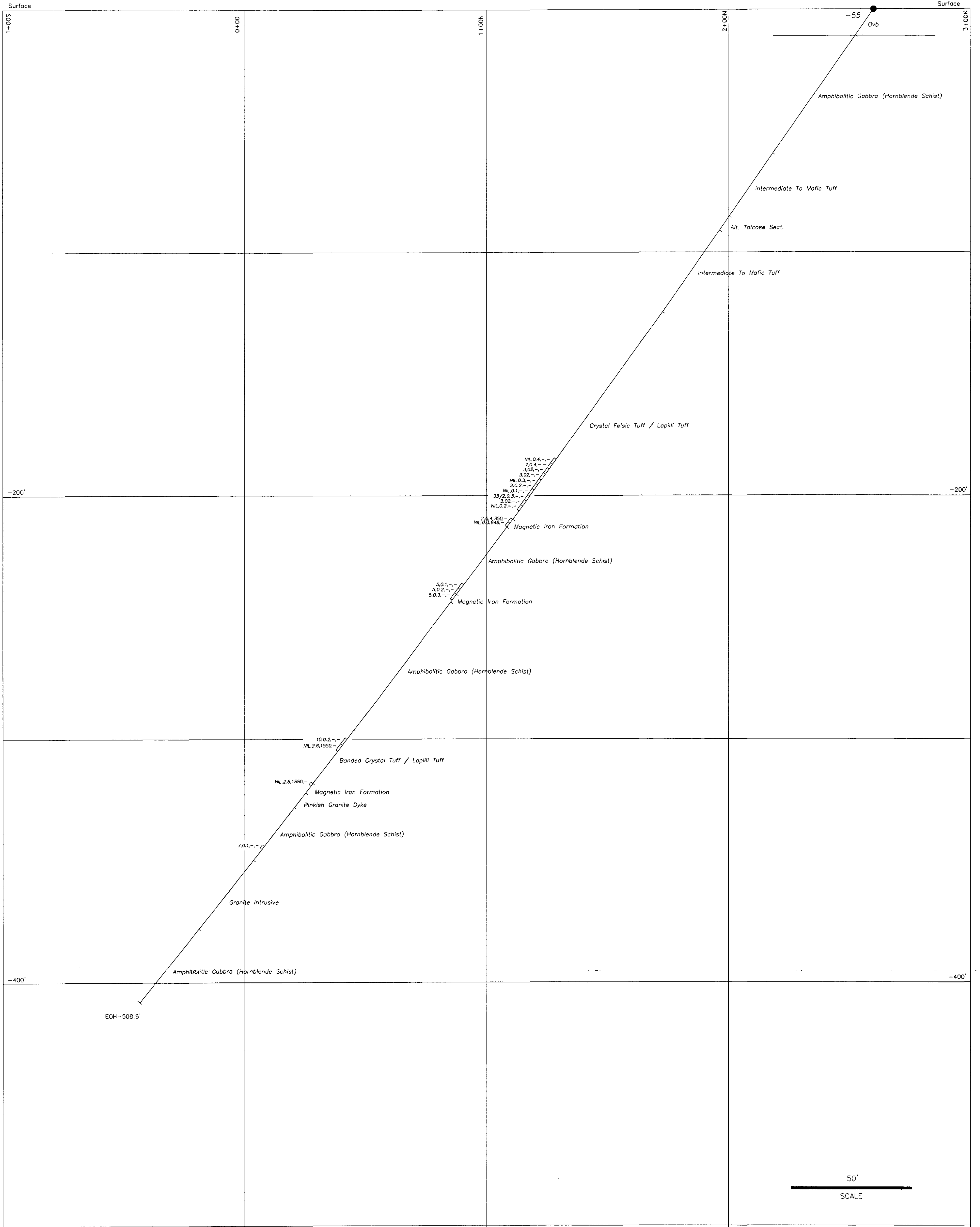
CLAIM 1182688  
FRIPP TWP.

START - NOV 25/96  
FINISH - NOV 26/96

SECTION DRILL HOLE F-96-6	
Dwg #:	F96-6
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
<b>NOVAWEST RESOURCES INC.</b>	



42A065H2003 2.18245 FRIPP 270



AU AG CU ZN  
PPB,PPM,PPM,PPM  
NIL 0.1.565,350

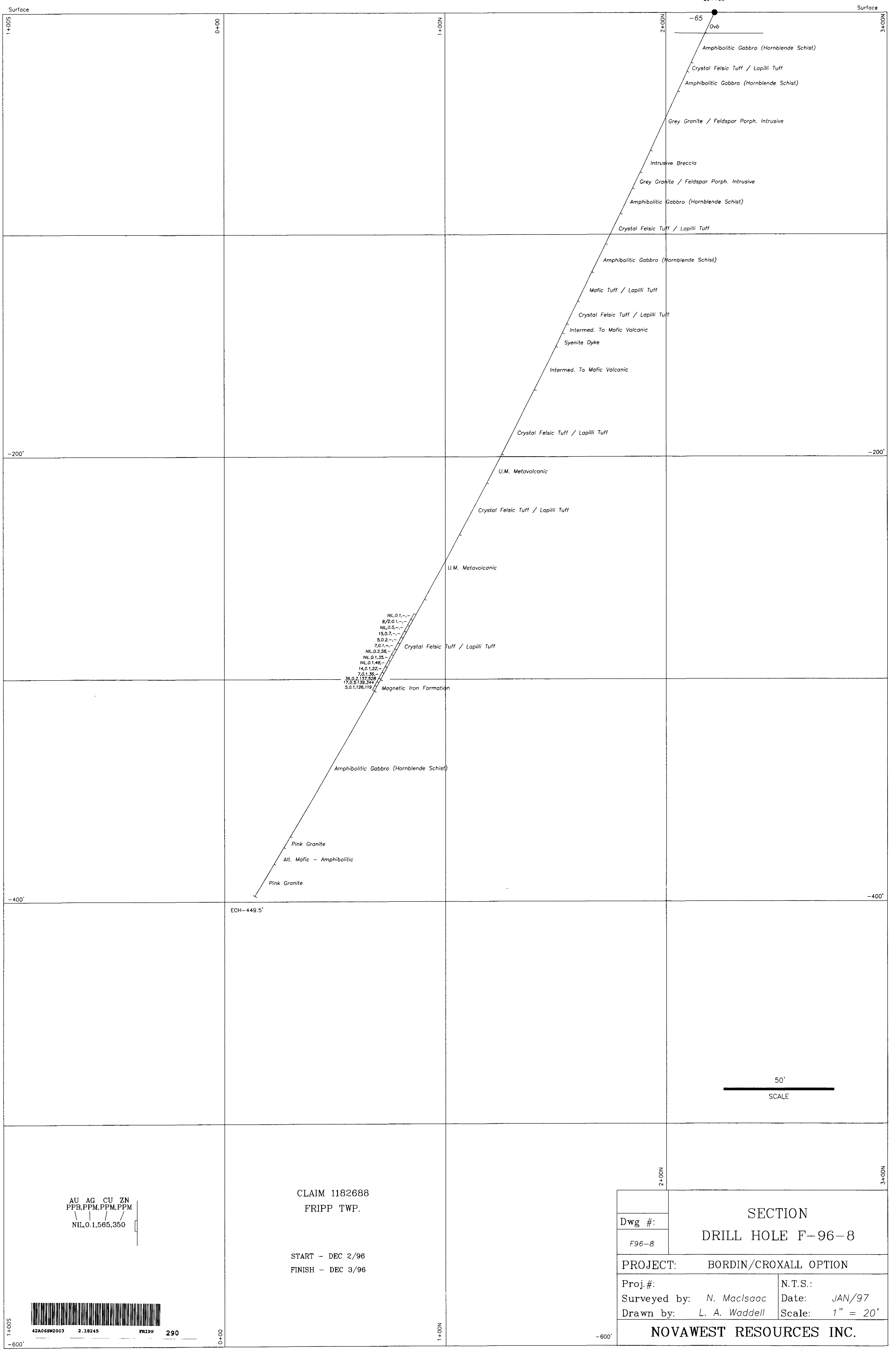
CLAIM 1182688  
FRIPP TWP.

START - NOV 27/96  
FINISH - NOV 29/96



42A065W2003 2.18245 FRIPP 280

SECTION	
DRILL HOLE F-96-7	
Dwg #:	F96-7
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
NOVAWEST RESOURCES INC.	

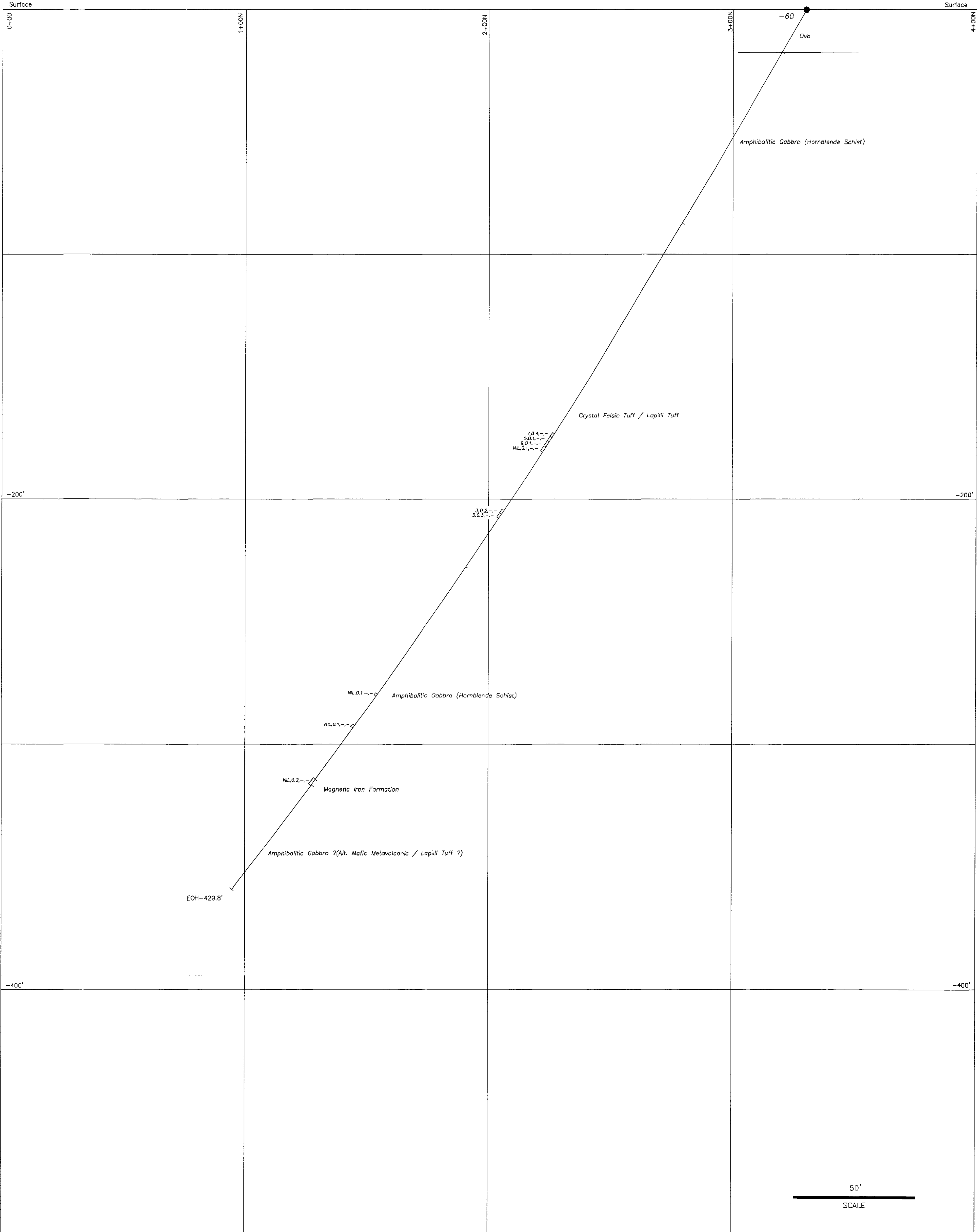


AU AG CU ZN  
PPB, PPM, PPM, PPM  
NIL 0.1, 565, 350

CLAIM 1182688  
FRIPP TWP.  
START - DEC 2/96  
FINISH - DEC 3/96



SECTION DRILL HOLE F-96-8	
Dwg #: F96-8	
PROJECT:	BORDIN/CROXALL OPTION
Proj. #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
<b>NOVAWEST RESOURCES INC.</b>	



AU AG CU ZN  
PPB,PPM,PPM,PPM  
NIL 0.1,565,350

CLAIM 1182688  
FRIPP TWP.  
START - DEC 3/96  
FINISH - DEC 4/96



SECTION DRILL HOLE F-96-9	
Dwg #: F96-9	
PROJECT:	BORDIN/CROXALL OPTION
Proj #:	N.T.S.:
Surveyed by: N. MacIsaac	Date: JAN/97
Drawn by: L. A. Waddell	Scale: 1" = 20'
<b>NOVAWEST RESOURCES INC.</b>	