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Maine Geological Survey Core Repository

Geological Survey

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1971

# Great Northern: Debouille Pond

Great Northern

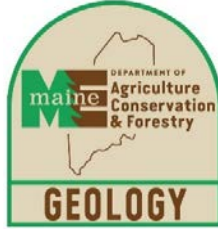
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# Maine Geological Survey

## Core Repository Data Files

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**Driller: Great Northern**

**Project: Debouille Pond**

**Town(s): T15 R9 WELS**

Contents:

1. Core Repository Intake Form(s)
2. Drill Hole Log(s)
3. Location Map(s)





Scale  
Color Plot  
• Dip

# Drill Hole Record

Property	State	Hole No.
Commenced	Location	Tests at
Completed	Core Size	Hor. Comp.
Co-ordinate		Vert. Comp.
Objectives		True Brg.
		Logged by
		% Recovered
		Date

Property	Deboullie Pond
T Brg.	
Collar Dip	90°
Elev.	1128
Length	698
Hole No.	1 Sheet 2

Footage		Description	Sample No.	Length
From	To			
			From	To
200	429	up to 1/2 inch across common. Horizontal joint density between 2 and 3 per foot. General increase in amount of quartz-chalcopyrite veins. Thickest veins up to 1/4 inch across, show euhedral quartz prisms, rarely contain late white to pale pink carbonate. Trace bornite between 215 and 220 and 360. A few quartz veins show propylitic borders beyond feldspathized rock. At 392 steeply dipping chlorite veins cut near horizontal quartz vein. Mafic dikelet or elongated fragment at 399. Syenite shows weak lineation near bottom of interval, alignment of mafics and feldspar laths. A few white to pink feldspar phenocrysts up to 1/4 inch across near bottom of interval.	260	270
			270	280
			280	290
			290	300
			300	310
			310	320
			320	330
			330	340
			340	350
			350	360
			360	370
			370	380
			380	390
			390	400
			400	410
			410	420
			420	430
429	431	High grade feldspar-chalcopyrite-molybdenite vein 2 to 3 inches thick, steep dip, contains minor pyrite. Looks like disseminated sulfides in aplite dikelet.		
431	447	Same as 200-429.	430	440
			440	450
447	462	Possible fault zone, rock broken and chloritic, but essentially barren of sulfides.	450	460

Analysis	
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Scale  
 Color Plot  
 • Dip

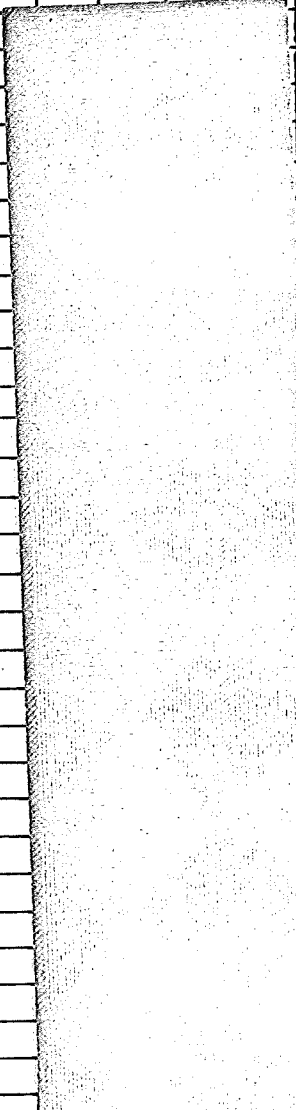
# Drill Hole Record

Property	State	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinate		True Brg.	Logged by
Objectives		% Recovered	Date

Property  
 Deboullie Pond  
 T Brg.  
 Collar Dip 90°  
 Elev. 1128  
 Length 698  
 Hole No. 1  
 Sheet 3

Footage		Description	Sample No.		Length	
From	To		From	To	From	To
462	488	Same as 200-429.	460	470		
			470	480		
488	492	Finer-grained, more mafic syenite with small subhedral biotite phenocrysts in an equilgranular matrix. Contacts gradational over 1 to 2 inches.	480	490		
492	530	Medium-grained pink syenite similar to 200-429 interval. Joint density 2 to 3 per foot. Thin mineralized veins in horizontal joints, chlorite in steeply dipping joints.	490	500		
			500	510		
			510	520		
			520	530		
530	698	Pink syenite, similar to previous section, but significant decrease in number of mineralized joints and in joint density. Chlorite with less carbonate fill most joints, these cut quartz veins. Joint density 1 to 2 per foot. Some lime green vitreous grains in syenite-apatite? Rare disseminated pyrite, usually associated with mafics. Steeply dipping pink feldspar veins 1 to 3 inches thick below 650 feet. These are barren. Also rock shows pale pink zones below about 600 feet, mafic-rich phase with gradational contacts 664-665. Only trace sulfides throughout except 610-620 where some steeply dipping quartz-chalcopyrite veins occur.	530	540		
			540	550		
			560	570		
			580	590		
			610	620		
			630	640		
			650	660		
			670	680		
			690	700		

Analysis



File  
DeBouille

DEB-1-71 ASSAY RESULTS

<u>Interval</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>	<u>Ag</u>
55 - 60	80	45	45	2		
60 - 70	120	50	35	2		
70 - 80	110	45	35	2		
80 - 90	145	45	35	4		
90 - 100	380	40	40	12	<.02	<.2
100 - 110	135	45	40	6		
110 - 120	95	40	35	4		
120 - 130	90	45	35	2		
130 - 140	90	50	35	2		
140 - 150	100	50	35	2	<.02	<.2
150 - 160	240	50	40	6		
160 - 170	115	45	45	2		
170 - 180	130	30	50	6		
180 - 190	85	45	40	4		
190 - 200	125	45	45	2	<.2	<.2
200 - 210	150	50	40	24		
210 - 220	150	35	45	6		
220 - 230	155	50	40	60		
230 - 240	335	40	40	6		
240 - 250	115	50	40	8	<.02	<.2
250 - 260	235	55	40	45		
260 - 270	385	45	40	4		
270 - 280	310	40	40	4		
280 - 290	95	45	40	4		

<u>Interval</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>	<u>Ag</u>
290 - 300	120	50	35	16	<.02	<.2
300 - 310	155	90	40	4		
310 - 320	200	45	40	12		
320 - 330	75	55	40	4		
330 - 340	145	45	35	45		
340 - 350	165	45	40	24	<.02	.8
350 - 360	85	*	*	4		
360 - 370	95	*	*	16		
370 - 380	200	*	*	60		
380 - 390	125	*	*	16		
390 - 400	95	35	35	8	<.02	<.2
400 - 410	380	*	*	65		
410 - 420	135	*	*	16		
420 - 430	1650	*	*	100		
430 - 440	2050	*	*	2100		
440 - 450	135	40	30	16	<.02	<.2
450 - 460	80	*	*	16		
460 - 470	100	*	*	16		
470 - 480	170	*	*	12		
480 - 490	100	*	*	8		
490 - 500	80	40	35	24	<.02	<.2
500 - 510	85	*	*	12		
510 - 520	325	*	*	60		
520 - 530	170	*	*	65		
530 - 540	140	*	*	24		



<u>Interval</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>	<u>Ag</u>
540 - 550	90	50	35	85	.02	.2
560 - 570	80	*	*	4		
580 - 590	110	50	35	4	.02	.2
610 - 620	310	*	*	8		
630 - 640	65	45	25	16	.02	.2
650 - 660	45	*	*	4		
670 - 680	45	45	30	4	.02	.2
690 - 700	65	*	*	4		

Scale  
Color Plot  
• Dips

# Drill Hole Record

Property Deboullie Pond State Maine Hole No. Deb-2-71  
 Commenced 3/22/71 Location Aroostook Co. Tests at 500' Hor. Comp.  
 Completed 4/1/71 Core Size NX Corr. Dip 90° Vert. Comp.  
 Co-ordinate 1200' E, 500' S, Deboullie Grid True Brg. Logged by D.G.M.  
 Objectives Porphyry % Recovered 100 Date 4/19/71

Property  
Deboullie Pond

T Brg.

Collar Dip 90°

Elev. 1128

Length 557

Hole No. 2. Sheet 1

Footage		Description	Sample No.	Length
From	To		From	To
0	64	Water		
64	81	Overburden		
81	106	Monzonite (white syenite) equilgranular with white and pale pink sugary feldspars, biotite, hornblende, and pyroxene are mafics, red-brown sphene, magnetite in mafics. Biotite relatively fresh, hornblende and pyroxene green from chlorite replacement. Joint density 1 to 2 per foot,* some chlorite veins, very rare disseminated pyrite.	80	90
106	120	Monzonite, increased joint density 4 per foot, pink orthoclase borders joints, joints and pinkened margins 1/4 inch across. Chlorite veining and some hematite in joints.	110	120
120	130	Fault zone, intensely broken rock, chlorite and hematite veining, no sulfides.	120	130
130	148	Monzonite, joint density 4 per foot, pink orthoclase borders along joints, hematitic feldspars in some joints, no sulfides.		
148	160	Monzonite, decrease in joint density and feldspathized joints.	150	160

Analysis

\* All joint density estimates refer to horizontal

Scale

Color Plot

Dips

## Drill Hole Record

Property	State	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinate		True Brg.	Logged by
Objectives		% Recovered	Date

Property  
Deboullie Pond

T Brg.

Collar Dip 90°

Elev. 1128

Length 557

Hole No. 2 Sheet 2

Footage		Description	Sample No.		Length	Analysis
From	To		From	To		
160	280	Monzonite, barren, horizontal joint density 1 to 2 per foot, minor chlorite veining in joints, some with carbonate, a few mafic xenoliths present, very rare disseminated pyrite and vein pyrite with chlorite. Hornblende and pyroxene generally predominant over biotite, biotite relatively fresh whereas other mafics are chloritic. A few pink feldspathized joints 250-280 and pinkish zones. Rock shows weak near vertical lineation toward bottom of interval.	180	190		
			210	220		
			240	250		
			270	280		
280	288	Gradational zone from monzonite to pink syenite. Increase in feldspathic joints and pink orthoclase becomes pervasive throughout rock. Looks like potash metasomatism of monzonite to give pink syenite.				
288	380	Pink syenite, several steeply dipping quartz-chalcopyrite veins up to 1/4 inch thick and containing chalcocite (?) bornite and malachite 290-300. Pyrite also present in the veins. Chlorite in steep joints and some near horizontal joints. Horizontal joints usually 1 to 2 per foot, with a few 10 foot intervals averaging 3 per foot. Some thin barren quartz-chlorite (?) veins show extensive and intense feldspathization between 320-330. Rock is biotite-poor, locally shows weak near-vertical lineation. Quartz-chalcopyrite veining is minor, little molybdenite present.	290	300		
			300	310		
			320	330		
			340	350		

Analysis

Cu Mo

Scale  
 Color Plot  
 • Dips

# Drill Hole Record

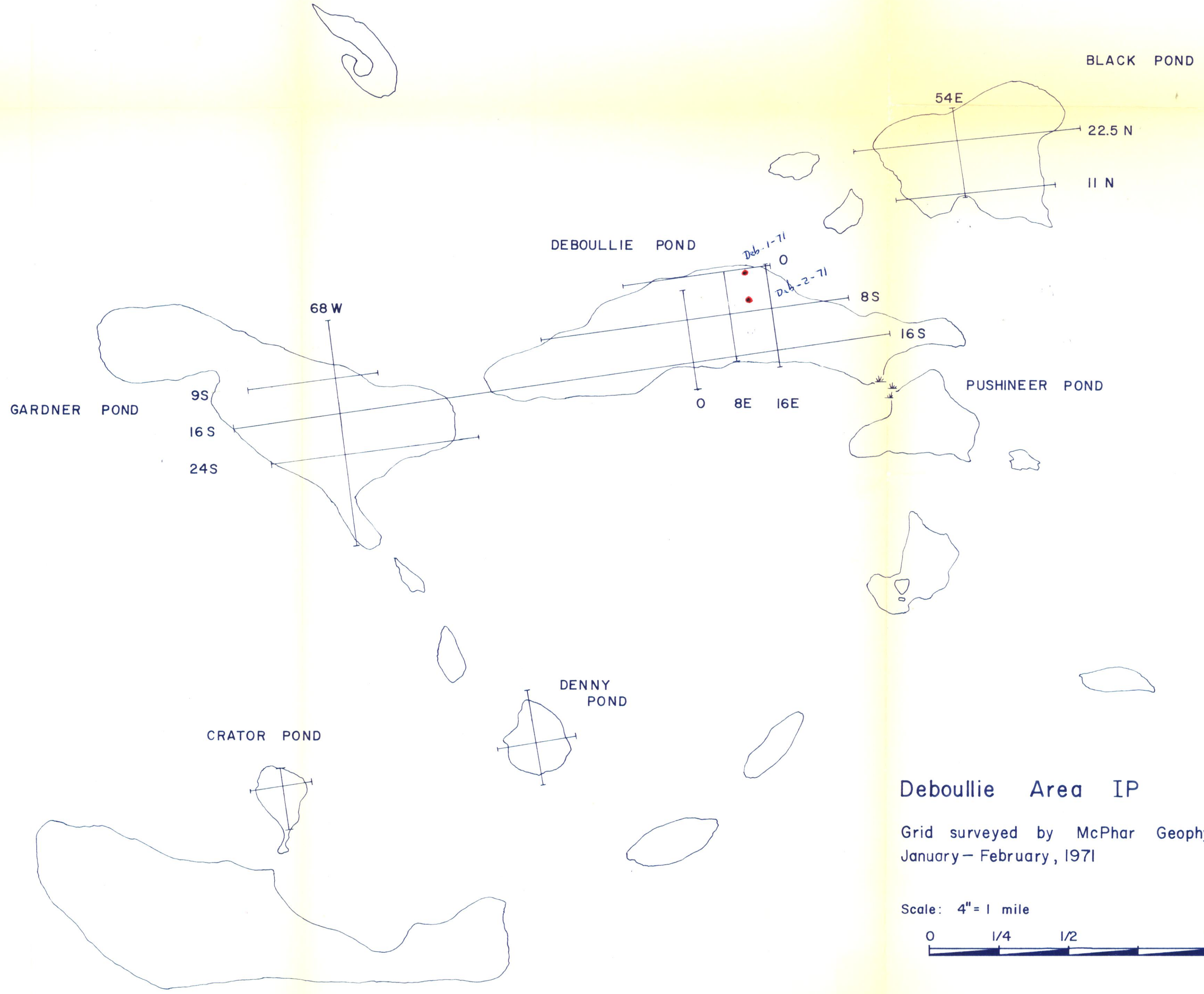
Property	State	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinate		True Brg.	Logged by
Objectives		% Recovered	Date

Property :  
 : Deboullie Pond  
 T Brg.  
 Collar Dip 90°  
 Elev. 1128  
 Length 557  
 Hole No. 2 Sheet 3

Footage		Description	Sample No.	Length
From	To			
			From	To
380	480	Monzonite, some feldspathization along joints, barren quartz veins, scattered mafic rock fragments, sulfides rare, chlorite and some red feldspar common on joints. Some small patches of syenite, gradational with monzonite. Joint density 1 to 2 per foot. Grades to syenite at bottom of interval.	410	420
			430	440
			450	460
480	540	Syenite, pink, equilgranular, low biotite, hornblende and pyroxene chloritic. Flashy quartz-chalcopyrite veins, significant increase in mineralization, most veins are steeply dipping, molybdenite relatively rare. Chlorite common on non-mineralized joint surfaces. Jointing about 3 per foot 480-500, intense 500-508, then drops to 1 to 2 per foot 508-540, fluorite, a clear platy unknown, and a soft pink unknown occur in some joints. Pink to milky carbonate also present.	480	490
			490	500
			500	510
			510	520
			520	530
			530	540
540	557	Syenite grades to monzonite. Joint density 1 to 2 per foot. Sequence is pink syenite to monzonite with pink feldspathization bordering joints. Rock essentially barren.	540	550
			550	557

DEB-2-71 ASSAY RESULTS

Interval	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Mo</u>	<u>Au</u>	<u>Ag</u>
80 - 90	55	*	*	4		
110 - 120	45	*	*	2		
120 - 130	60	40	35	2	<.02	<.2
150 - 160	55	*	*	2		
180 - 190	50	*	*	6		
210 - 220	50	35	30	4	<.02	<.2
240 - 250	40	*	*	2		
270 - 280	45	*	*	4		
290 - 300	2000	80	40	12	<.02	.4
300 - 310	35	*	*	4		
320 - 330	105	*	*	4		
340 - 350	120	45	35	2	<.02	<.2
370 - 380	30	*	*	4		
410 - 420	40	*	*	4		
430 - 440	75	30	40	4	<.02	<.2
450 - 460	210	*	*	2		
480 - 490	600	*	*	12		
490 - 500	260	40	35	45	<.02	.2
500 - 510	60	*	*	4		
510 - 520	3000	*	*	280		
520 - 530	650	*	*	12		
530 - 540	100	70	40	12	<.02	.6
540 - 550	75	*	*	30		
550 - 557	40	*	*	4		



Deboullie Area IP

Grid surveyed by McPhar Geophysics  
January - February, 1971

Scale: 4" = 1 mile

