

1952

U.S. Bureau of Mines: Maple-Hovey Mountain Manganese Deposit

U.S. Bureau of Mines

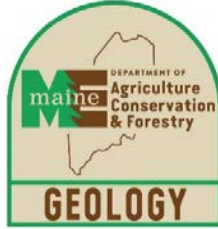
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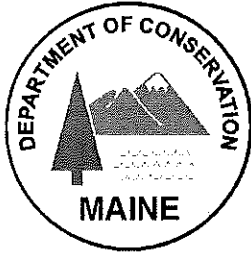
Driller: U.S. Bureau of Mines

Project: Maple-Hovey Mountain Manganese Deposit

Town(s): T9 R3 WELS, TD R2 WELS

Contents:

1. Core Repository Intake Form(s)
2. Drill Hole Log(s)
3. Location Map(s)
4. Cross-section Diagram(s)



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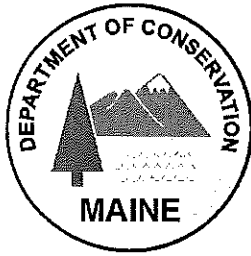
CORE REPOSITORY

Township: T9 R3 WELS

Company: U.S. Bureau of Mines

CORES IN REPOSITORY:

Hole	Depth	Comments
29	579-599	continuous
30	611	
37	0-353	discontinuous
38	7-380	continuous
39	1522-1755	discontinuous (only 2 boxes)
40	10-337	continuous
41	0-408	continuous
43	5-1356	discontinuous
44	711-733	continuous
46	3-367	discontinuous
48	85-131	continuous
49	0-36	continuous
52	468-488	continuous
53	739-750	continuous
55	6-37	continuous
57	43-188	discontinuous
58	3-37	continuous
60	146-166	continuous



Maine Geological Survey

CORE REPOSITORY

Township: TD R2 WELS

Company: U.S. Bureau of Mines

CORES IN REPOSITORY:

Hole	Depth	Comments
1	145-180	continuous
2	7-197	continuous
8	7-291	continuous
10	222-233	continuous
12	7-310	discontinuous
15	11-279	discontinuous
24	1-1217	discontinuous
25	0-821	discontinuous (only 2 boxes)
26	0-380	discontinuous
28	0-468	continuous
30	611-617	continuous
32	4-485	continuous
42	43-308	discontinuous
Index map and drill logs in USBM Rept. of Investigations 4921		
located in T9R3 WELS USBM folder		

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 1

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.0						Overburden
6.0	10.0	4.0	4.70	11.80			Manganiferous
10.0	13.7	3.7	7.98	10.35			purple
13.7	16.0	2.3	4.75	5.50			and
16.0	18.8	2.8	7.43	12.45			red slate
Total		12.8	6.25	10.39			Core recovery - 82.8%
18.8	23.8	5.0	3.15	6.30			Manganiferous
23.8	27.0	3.2	2.86	3.56			purple
27.0	32.2	5.2	3.91	13.58			and
32.2	33.0	.8	2.14	5.51			red slate
Total		14.2	3.31	8.30			Core recovery - 100.0%
33.0	34.7	1.7	11.67	18.27			Top of manganiferous banded hematite @ 33.0 ft.
34.7	39.7	5.0	9.24	31.85			
39.7	42.3	2.6	17.05	24.09			
42.3	45.5	3.2	17.01	30.08			
45.5	50.0	4.5	11.72	32.82			Manganiferous
50.0	54.8	4.8	13.02	28.78			banded
54.8	59.7	4.9	8.15	21.83			hematite
59.7	65.0	5.3	11.89	30.96			
65.0	70.0	5.0	12.43	26.19			
70.0	75.0	5.0	12.73	22.80			
75.0	80.0	5.0	8.02	30.88			
80.0	85.0	5.0	14.83	28.30			
85.0	90.0	5.0	6.30	35.73	8.93	29.60	
90.0	94.3	4.3	14.16	21.83			
Total		61.3			11.89	27.55	Core recovery - 93.8%
0.0	6.0						Overburden
6.0	10.0	4.0	4.70	11.80			Manganiferous
10.0	13.7	3.7	7.98	10.35			purple
13.7	16.0	2.3	4.75	5.50			and
16.0	18.8	2.8	7.43	12.45			red slate
Total		12.8	6.25	10.39			Core recovery - 82.8%
18.8	23.8	5.0	3.15	6.30			Manganiferous
23.8	27.0	3.2	2.86	3.56			purple
27.0	32.2	5.2	3.91	13.58			and
32.2	33.0	.8	2.14	5.51			red slate
Total		14.2	3.31	8.30			Core recovery - 100.0%
33.0	34.7	1.7	11.67	18.27			Top of manganiferous banded hematite @ 33.0 ft.
34.7	39.7	5.0	9.24	31.85			
39.7	42.3	2.6	17.05	24.09			
42.3	45.5	3.2	17.01	30.08			
45.5	50.0	4.5	11.72	32.82			Manganiferous
50.0	54.8	4.8	13.02	28.78			banded
54.8	59.7	4.9	8.15	21.83			hematite
59.7	65.0	5.3	11.89	30.96			
65.0	70.0	5.0	12.43	26.19			
70.0	75.0	5.0	12.73	22.80			
75.0	80.0	5.0	8.02	30.88			
80.0	85.0	5.0	14.83	28.30			
85.0	90.0	5.0	6.30	35.73	8.93	29.60	
90.0	94.3	4.3	14.16	21.83			
Total		61.3			11.89	27.55	Core recovery - 93.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 1 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
94.3	100.2	5.9	5.97	24.09	6.37	25.88	Bottom of manganiferous banded hematite @ 100.2 ft.
100.2	102.9	2.7	5.42	18.92			
102.9	107.9	5.0	3.78	17.79			
107.9	112.1	4.2	5.67	20.53			
112.1	116.8	4.7	5.25	28.46			Manganiferous interbedded hematitic and green slate
116.8	121.2	4.4	5.71	27.49			
121.2	124.7	3.5	6.89	32.18			
124.7	128.3	3.6	3.91	17.62			
128.3	132.0	3.7	1.47	5.98			
132.0	137.0	5.0	8.01	25.06			
137.0	142.0	5.0	11.26	23.61			
142.0	147.0	5.0	8.60	25.87			
147.0	152.0	5.0	7.94	24.58			
152.0	153.8	1.8	7.60	30.24			
153.8	157.6	3.8	8.53	29.11			
157.6	161.5	3.9	4.62	17.14			
Total		67.2			6.42	23.20	Core recovery - 96.4%
161.5	166.5	5.0	1.97	10.98			Top of green slate @ 163 ft.
166.5	171.5	5.0	5.46	7.92			
171.5	176.5	5.0	.46	6.95			Green slate
176.5	180.3	3.8	.51	5.98			
Total		18.8	2.20	8.08			Core recovery - 98.4%
Total Core Sampled		174.3					Core recovery - 95.0%

Diamond Drill Hole 2

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig.3)
			Mn	Fe	Mn	Fe	
0.0	4.0						Overburden
4.0	7.0	3.0	7.08	17.28			
7.0	12.0	5.0	8.60	10.74			
12.0	16.0	4.0	8.12	12.27			Manganiferous purple and red slate
16.0	19.1	3.1	6.84	10.17			
19.1	22.1	3.0	8.48	10.90			
22.1	24.6	2.5	2.64	5.32			
24.6	27.4	2.8	4.56	7.02			
27.4	31.7	4.3	2.20	6.78			
31.7	36.7	5.0	4.40	10.98			
36.7	39.6	2.9	9.60	21.16			
39.6	44.4	4.8	8.64	18.65			Top of manganiferous banded hematite @ 39.6 ft.
Total		40.4	6.52	12.05			Core Recovery - 86.1%
44.4	49.4	5.0	10.00	28.75			
49.4	53.0	3.6	17.12	29.39			
53.0	57.3	4.3	11.40	35.05			
57.3	62.0	4.7	13.60	24.43			Manganiferous
62.0	66.7	4.7	6.20	21.16	7.53	22.74	
66.7	72.0	5.3	14.64	25.05	14.19	25.67	banded hematite
72.0	76.6	4.6	12.80	27.70			
76.6	80.3	3.7	12.56	24.55			
80.3	85.3	5.0	7.84	30.20			
85.3	90.3	5.0	8.60	33.11			
90.3	95.1	4.8	15.76	22.61			
95.1	99.3	4.2	10.92	31.65			
99.3	103.9	4.6	10.16	29.88			
103.9	108.2	4.3	17.00	16.96	17.22	19.59	
Total		63.8			11.99	27.52	Core Recovery - 95.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 1 (cont'd.)

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
		Mn	Fe	Mn	Fe		
94.3	100.2	5.9	5.97	24.09	6.37	25.88	Bottom of manganiferous banded hematite @ 100.2 ft.
100.2	102.9	2.7	5.42	18.92			
102.9	107.9	5.0	3.78	17.79			
107.9	112.1	4.2	5.67	20.53			
112.1	116.8	4.7	5.25	28.46			Manganiferous interbedded hematitic and green slate
116.8	121.2	4.4	5.71	27.49			
121.2	124.7	3.5	6.89	32.18			
124.7	128.3	3.6	3.91	17.62			
128.3	132.0	3.7	1.47	5.98			
132.0	137.0	5.0	8.01	25.06			
137.0	142.0	5.0	11.26	23.61			
142.0	147.0	5.0	8.60	25.87			
147.0	152.0	5.0	7.94	24.58			
152.0	153.8	1.8	7.60	30.24			
153.8	157.6	3.8	8.53	29.11			
157.6	161.5	3.9	4.62	17.14			
Total	67.2				6.42	23.20	Core recovery - 96.4%
161.5	166.5	5.0	1.97	10.98			Top of green slate @ 163 ft.
166.5	171.5	5.0	5.46	7.92			
171.5	176.5	5.0	.46	6.95			Green slate
176.5	180.3	3.8	.51	5.98			
Total	18.8	2.20	8.08				Core recovery - 98.4%
Total Core Sampled	174.3						Core recovery - 95.0%

Diamond Drill Hole 2

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig.3)	
		Mn	Fe	Mn	Fe		
0.0	4.0					Overburden	
4.0	7.0	3.0	7.08	17.28			
7.0	12.0	5.0	8.60	10.74			
12.0	16.0	4.0	8.12	12.27		Manganiferous purple and red slate	
16.0	19.1	3.1	6.84	10.17			
19.1	22.1	3.0	8.48	10.90			
22.1	24.6	2.5	2.64	5.32			
24.6	27.4	2.8	4.56	7.02			
27.4	31.7	4.3	2.20	6.78			
31.7	36.7	5.0	4.40	10.98			
36.7	39.6	2.9	9.60	21.16			
39.6	44.4	4.8	8.64	18.65		Top of manganiferous banded hematite @ 39.6 ft.	
Total	40.4	6.52	12.05			Core Recovery - 86.1%	
44.4	49.4	5.0	10.00	28.75			
49.4	53.0	3.6	17.12	29.39			
53.0	57.3	4.3	11.40	35.05			
57.3	62.0	4.7	13.60	24.43		Manganiferous	
62.0	66.7	4.7	6.20	21.16	7.53	22.74	
66.7	72.0	5.3	14.64	25.05	14.19	25.67	banded hematite
72.0	76.6	4.6	12.80	27.70			
76.6	80.3	3.7	12.56	24.55			
80.3	85.3	5.0	7.84	30.20			
85.3	90.3	5.0	8.60	33.11			
90.3	95.1	4.8	15.76	22.61			
95.1	99.3	4.2	10.92	31.65			
99.3	103.9	4.6	10.16	29.88			
103.9	108.2	4.3	17.00	16.96	17.22	19.59	
Total	63.8				11.99	27.52	Core Recovery - 95.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 2 (cont'd.)							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
108.2	114.0	5.8	9.16	31.13	9.69	30.69	Bottom of manganiferous banded hematite @ 118 ft. Manganiferous interbedded hematitic and green slate
114.0	118.0	4.0	8.76	18.87			
118.0	121.4	3.4	3.20	13.06			
121.4	125.7	4.3	4.48	18.39			
125.7	128.4	2.7	3.20	12.10			
128.4	131.0	2.6	6.24	18.87			
131.0	136.0	5.0	6.04	29.19			
136.0	141.0	5.0	5.64	26.94			
141.0	145.0	4.0	8.72	30.24			
145.0	150.2	5.2	4.80	14.19			
150.2	154.4	4.2	1.44	6.61			
154.4	157.1	2.7	11.12	28.23			
157.1	161.2	4.1	9.40	21.77			
161.2	165.5	4.3	11.24	24.52			
165.5	170.5	5.0	8.36	26.61	8.69	25.87	
170.5	175.5	5.0	7.80	25.56			
175.5	180.5	5.0	8.48	25.81			
180.5	183.5	3.0	7.40	27.82			
183.5	188.0	4.5	5.04	13.06			
Total		79.8			6.98	22.07	Core Recovery - 89.6%
188.0	193.0	5.0	2.32	12.10			Green slate
193.0	197.0	4.0	.64	7.26			
Total		9.0	1.57	9.95			Core Recovery - 100.0%
Total Core Sampled	193.0						Core Recovery - 91.5%

Diamond Drill Hole 3							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	2.8						Overburden
2.8	6.7	3.9	1.11	6.47			Manganiferous purple and red slate
6.7	11.3	4.6	1.12	5.50			
11.3	18.6	7.3	7.26	7.92			
18.6	23.6	5.0	1.39	7.91			
23.6	31.2	7.6	2.99	5.49			
Total		28.4	3.24	6.68			Core Recovery - 88.7%
31.2	34.3	3.1	17.63	14.47			Manganiferous purple and red slate
34.3	37.9	3.6	10.09	10.19			
37.9	52.0	14.1	4.84	7.18			
52.0	55.0	3.0	3.28	6.22			
55.0	61.8	6.8	18.33	11.40			
61.8	69.6	7.8	8.57	16.82			
69.6	74.2	4.6	14.76	19.24			
74.2	83.1	8.9	8.52	23.61			
83.1	87.9	4.8	7.68	12.59			
87.9	96.5	8.6	2.16	13.90			
96.5	100.2	3.7	6.24	21.83			
100.2	104.3	4.1	2.84	4.69			
104.3	112.4	8.1	8.36	11.96			
112.4	120.0	7.6	4.64	7.92			
120.0	132.2	12.2	2.95	7.27			
132.2	138.7	6.5	8.40	14.55			
Total		107.5	7.33	12.36			Core Recovery - 100.0%
138.7	144.0	5.3	11.93	23.61			Top of manganiferous banded hematite @ 142 ft.
144.0	148.4	4.4	10.49	25.22			Manganiferous banded hematite
148.4	155.1	6.7	11.60	27.81			
155.1	162.8	7.7	13.16	27.00			
162.8	170.1	7.7	14.00	23.61			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 2 (cont'd.)							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
108.2	114.0	5.8	9.16	31.13	9.69	30.69	Bottom of manganiferous banded hematite @ 118 ft. Manganiferous interbedded hematitic and green slate
114.0	118.0	4.0	8.76	18.87			
118.0	121.4	3.4	3.20	13.06			
121.4	125.7	4.3	4.48	18.39			
125.7	128.4	2.7	3.20	12.10			
128.4	131.0	2.6	6.24	18.87			
131.0	136.0	5.0	6.04	29.19			
136.0	141.0	5.0	5.64	26.94			
141.0	145.0	4.0	8.72	30.24			
145.0	150.2	5.2	4.80	14.19			
150.2	154.4	4.2	1.44	6.61			
154.4	157.1	2.7	11.12	28.23			
157.1	161.2	4.1	9.40	21.77			
161.2	165.5	4.3	11.24	24.52			
165.5	170.5	5.0	8.36	26.61	8.69	25.87	
170.5	175.5	5.0	7.80	25.56			
175.5	180.5	5.0	8.48	25.81			
180.5	183.5	3.0	7.40	27.82			
183.5	188.0	4.5	5.04	13.06			
Total		79.8			6.98	22.07	Core Recovery - 89.6%
188.0	193.0	5.0	2.32	12.10			Green slate
193.0	197.0	4.0	.64	7.26			
Total		9.0	1.57	9.95			Core Recovery - 100.0%
Total Core Sampled	193.0						Core Recovery - 91.5%

Diamond Drill Hole 3							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	2.8						Overburden
2.8	6.7	3.9	1.11	6.47			Manganiferous purple and red slate
6.7	11.3	4.6	1.12	5.50			
11.3	18.6	7.3	7.26	7.92			
18.6	23.6	5.0	1.39	7.91			
23.6	31.2	7.6	2.99	5.49			
Total		28.4	3.24	6.68			Core Recovery - 88.7%
31.2	34.3	3.1	17.63	14.47			Manganiferous purple and red slate
34.3	37.9	3.6	10.09	10.19			
37.9	52.0	14.1	4.84	7.18			
52.0	55.0	3.0	3.28	6.22			
55.0	61.8	6.8	18.33	11.40			
61.8	69.6	7.8	8.57	16.82			
69.6	74.2	4.6	14.76	19.24			
74.2	83.1	8.9	8.52	23.61			
83.1	87.9	4.8	7.68	12.59			
87.9	96.5	8.6	2.16	13.90			
96.5	100.2	3.7	6.24	21.83			
100.2	104.3	4.1	2.84	4.69			
104.3	112.4	8.1	8.36	11.96			
112.4	120.0	7.6	4.64	7.92			
120.0	132.2	12.2	2.95	7.27			
132.2	138.7	6.5	8.40	14.55			
Total		107.5	7.33	12.36			Core Recovery - 100.0%
138.7	144.0	5.3	11.93	23.61			Top of manganiferous banded hematite @ 142 ft.
144.0	148.4	4.4	10.49	25.22			Manganiferous banded hematite
148.4	155.1	6.7	11.60	27.81			
155.1	162.8	7.7	13.16	27.00			
162.8	170.1	7.7	14.00	23.61			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 3(cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
170.1	178.1	8.0	11.80	26.36			Bottom of manganiferous banded hematite @ 178.1 ft.
Total		39.4	12.31	25.72			Core Recovery - 92.6%
178.1	181.7	3.6	6.81	19.97			Manganiferous interbedded hematitic & green slate
181.7	190.9	9.2	3.53	19.08			
190.9	199.1	8.2	5.08	27.41			
199.1	210.3	11.2	5.49	20.86			
210.3	215.1	4.8	9.96	21.83			
215.1	228.5	13.4	8.52	25.87			
Total		50.4	6.39	22.96			Core Recovery - 100.0%
228.5	244.5	16.0	1.31	8.73			Core Recovery - 100.0% Top of green slate @ 228.5 ft.
244.5	251.3						Core Recovery - 97.5% - Green slate
Total Core Sampled		241.7					Core Recovery - 97.5%

Diamond Drill Hole 4

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.9						Overburden
3.9	8.2	4.3	1.24	3.41			Manganiferous purple and red slate
8.2	13.0	4.8	7.88	20.46			
13.0	18.0	5.0	1.76	4.95			
18.0	23.0	5.0	1.44	5.68			
23.0	26.5	3.5	2.44	5.52			
Total		22.6	2.99	8.20			Core recovery - 92.0%
26.5	29.8	3.3	12.12	11.37			Manganiferous purple and red slate
29.8	31.7	1.9	17.40	16.40			
31.7	36.7	5.0	4.80	6.17			
36.7	38.3	1.6	4.12	6.33			
38.3	41.5	3.2	14.68	19.16			
41.5	45.3	3.8	11.04	7.80			
45.3	48.1	2.8	5.04	9.26			
48.1	53.0	4.9	13.36	21.76			
53.0	54.8	1.8	8.20	22.74			
54.8	59.1	4.3	3.08	12.26	5.80	17.53	
59.1	62.0	2.9	16.04	28.01			
62.0	66.0	4.0	2.44	6.82			
66.0	71.6	5.6	7.48	10.39			
71.6	75.1	3.5	11.52	30.21			
75.1	78.0	2.9	14.20	29.39			
78.0	80.3	2.3	5.96	6.66			
80.3	86.3	6.0	4.36	17.38	3.98	23.86	
86.3	90.2	3.9	4.16	7.63			
90.2	92.4	2.2	10.00	30.53			
92.4	97.2	4.8	7.00	7.15			
97.2	99.9	2.7	12.28	24.03			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 3(cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
170.1	178.1	8.0	11.80	26.36			Bottom of manganiferous banded hematite @ 178.1 ft.
Total		39.4	12.31	25.72			Core Recovery - 92.6%
178.1	181.7	3.6	6.81	19.97			Manganiferous interbedded hematitic & green slate
181.7	190.9	9.2	3.53	19.08			
190.9	199.1	8.2	5.08	27.41			
199.1	210.3	11.2	5.49	20.86			
210.3	215.1	4.8	9.96	21.83			
215.1	228.5	13.4	8.52	25.87			
Total		50.4	6.39	22.96			Core Recovery - 100.0%
228.5	244.5	16.0	1.31	8.73			Core Recovery - 100.0% Top of green slate @ 228.5 ft.
244.5	251.3						Core Recovery - 97.5% - Green slate
Total Core Sampled		241.7					Core Recovery - 97.5%

Diamond Drill Hole 4

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.9						Overburden
3.9	8.2	4.3	1.24	3.41			Manganiferous purple and red slate
8.2	13.0	4.8	7.88	20.46			
13.0	18.0	5.0	1.76	4.95			
18.0	23.0	5.0	1.44	5.68			
23.0	26.5	3.5	2.44	5.52			
Total		22.6	2.99	8.20			Core recovery - 92.0%
26.5	29.8	3.3	12.12	11.37			Manganiferous purple and red slate
29.8	31.7	1.9	17.40	16.40			
31.7	36.7	5.0	4.80	6.17			
36.7	38.3	1.6	4.12	6.33			
38.3	41.5	3.2	14.68	19.16			
41.5	45.3	3.8	11.04	7.80			
45.3	48.1	2.8	5.04	9.26			
48.1	53.0	4.9	13.36	21.76			
53.0	54.8	1.8	8.20	22.74			
54.8	59.1	4.3	3.08	12.26	5.80	17.53	
59.1	62.0	2.9	16.04	28.01			
62.0	66.0	4.0	2.44	6.82			
66.0	71.6	5.6	7.48	10.39			
71.6	75.1	3.5	11.52	30.21			
75.1	78.0	2.9	14.20	29.39			
78.0	80.3	2.3	5.96	6.66			
80.3	86.3	6.0	4.36	17.38	3.98	23.86	
86.3	90.2	3.9	4.16	7.63			
90.2	92.4	2.2	10.00	30.53			
92.4	97.2	4.8	7.00	7.15			
97.2	99.9	2.7	12.28	24.03			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 4 (cont'd.)							
Footage From-	Footage To-	Sample Interval Feet	Core Mn	Assay, % Fe	Combined Core and Sludge Assay, % Mn Fe		Remarks and Lithology (See Explanation, Fig. 3)
99.9	105.0	5.1	6.12	9.74			
105.0	109.6	4.6	9.40	11.04			
109.6	113.3	3.7	5.00	8.44	5.35	11.49	
113.3	116.8	3.5	3.96	8.61			
116.8	120.1	3.3	3.00	4.71			
120.1	123.2	3.1	4.88	11.94			
123.2	128.6	5.4	10.36	21.68			
128.6	131.8	3.2	11.16	24.52			
131.8	138.2	6.4	8.80	23.71	9.33	26.12	
138.2	143.3	5.1	4.32	8.77			
143.3	147.2	3.9	8.76	22.17			
147.2	153.1	5.9	8.44	16.89			Top of manganiferous banded hematite @ 153.1 ft.
Total		126.6			7.86	15.32	Core recovery - 93.5%
153.1	157.0	3.9	10.84	33.70			
157.0	161.9	4.9	15.80	29.72			
161.9	164.8	2.9	12.72	28.26			
164.8	168.9	4.1	10.68	30.61			Manganiferous
168.9	173.0	4.1	11.60	29.47			Banded
173.0	177.7	4.7	8.44	21.52			Hematite
177.7	182.8	5.1	14.00	26.23			
182.8	187.2	4.4	11.08	27.12			
187.2	192.0	4.8	9.52	27.36			
192.0	197.0	5.0	11.88	30.37			
197.0	202.0	5.0	7.76	21.11			
202.0	207.0	5.0	7.76	32.48	7.34	34.63	
207.0	212.0	5.0	12.28	23.87			
Total		58.9			11.03	27.86	Core recovery - 96.1%
212.0	216.2	4.2	7.72	29.64			Bottom of manganiferous banded hematite @ 216.2 ft.
216.2	218.8	2.6	7.84	24.60			
218.8	222.1	3.3	4.44	14.13	4.59	18.14	
222.1	224.4	2.3	2.52	7.63			Manganiferous
224.4	229.2	4.8	6.48	23.71	6.15	25.97	interbedded
229.2	233.1	3.9	5.52	24.68	4.95	27.65	hematite
233.1	238.6	5.5	6.72	25.41	6.38	29.39	and
238.6	246.0	7.4	3.64	13.57	3.11	13.85	green slate
246.0	253.0	7.0	9.20	27.62	8.70	28.15	
253.0	256.7	3.7	10.32	24.68	8.85	28.78	
256.7	258.9	2.2	6.40	29.23			
258.9	261.6	2.7	8.36	24.55	8.19	26.70	
261.6	265.2	3.6	8.00	30.52	7.12	31.55	
265.2	266.6	1.4	9.80	26.47			Top of green slate at 266.6 ft.
Total		54.6			6.41	24.78	Core recovery - 76.2%
266.6	276.8	10.2	5.68	13.89	4.20	16.92	
276.8	283.0	6.2	.76	7.80	.48	6.94	Green slate
Total		16.4			2.79	13.15	Core recovery - 31.1%
Total Core Sampled		279.1					Core recovery - 86.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 5

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.0						Overburden
7.0	12.0	5.0	3.72	7.00			Manganiferous
12.0	17.4	5.4	4.76	13.35			purple and
17.4	22.6	5.2	1.64	6.51			red
22.6	27.6	5.0	1.12	5.21			slate
Total		20.6	2.84	8.11			Core recovery - 93.2%
27.6	31.4	3.8	10.32	11.48			
31.4	33.0	1.6	12.72	18.72			
33.0	37.5	4.5	3.52	6.35			
37.5	39.9	2.4	11.96	21.16			Manganiferous
39.9	45.0	5.1	7.96	7.08			purple
45.0	50.0	5.0	12.92	21.00			and
50.0	53.3	3.3	10.48	22.87			red
53.3	57.8	4.5	8.72	17.66			slate
57.8	60.3	2.5	15.72	31.42			
60.3	64.6	4.3	4.08	6.51			
64.6	66.7	2.1	12.68	20.84			
66.7	70.8	4.1	17.20	24.50			
70.8	74.4	3.6	14.44	17.91			
74.4	77.9	3.5	2.36	17.91			
77.9	80.6	2.7	3.56	7.33			
80.6	84.4	3.8	9.00	19.21			
84.4	90.4	6.0	8.48	12.54			
90.4	92.5	2.1	1.32	5.54			
92.5	95.1	2.6	5.36	13.19			
95.1	96.7	1.6	4.12	21.00			
96.7	101.1	4.4	2.48	7.98			
101.1	103.7	2.6	7.48	17.42			
103.7	109.0	5.3	12.00	23.62			
109.0	114.0	5.0	7.08	23.60			Top of manganiferous banded hematite @ 105.4 ft.
Total		86.4	8.62	16.18			Core recovery - 99.3%
114.0	119.0	5.0	10.56	33.37			
119.0	124.0	5.0	16.04	25.07			Manganiferous
124.0	129.0	5.0	10.72	31.75			Banded
129.0	134.2	5.2	11.80	29.79			Hematite
134.2	135.3	1.1	1.32	7.16			
135.3	140.3	5.0	13.40	25.64			
140.3	145.3	5.0	8.84	29.96			
145.3	148.9	3.6	12.52	27.51			
148.9	150.4	1.5	1.72	7.00			
150.4	155.5	5.1	12.80	27.02			
155.5	160.5	5.0	10.08	30.93			
160.5	165.5	5.0	11.52	25.88			
165.5	170.5	5.0	8.84	26.84			
170.5	174.1	3.6	10.20	32.07			
174.1	175.4	1.3	11.80	22.63			
175.4	178.6	3.2	12.20	31.09	9.96	35.51	
178.6	181.4	2.8	6.44	30.04	6.41	38.77	
181.4	183.0	1.6	14.54	25.33			
183.0	186.5	3.5	8.92	31.02	9.09	35.45	
186.5	190.0	3.5	17.80	18.84			
Total		76.0			11.12	28.35	Core recovery - 94.1%
190.0	195.0	5.0	8.32	30.04			Bottom of manganiferous banded hematite @ 195.0 ft.
195.0	199.0	4.0	7.56	25.98			Manganiferous
199.0	204.3	5.3	2.84	11.86			interbedded
204.3	207.4	3.1	3.56	27.04			hematitic and
207.4	210.3	2.9	5.80	17.70			green
210.3	212.4	2.1	4.60	34.75			slate
212.4	217.4	5.0	6.64	28.10			
217.4	222.4	5.0	6.04	28.18			
222.4	226.8	4.4	6.72	32.80			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 5(cont'd.)							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
226.8	231.8	5.0	4.16	14.62			
231.8	234.2	2.4	.92	4.55			
234.2	239.2	5.0	6.80	29.23			
239.2	244.2	5.0	9.92	22.82			
244.2	249.2	5.0	6.96	30.86			
249.2	253.7	4.5	6.88	28.26			
253.7	258.4	4.7	6.84	28.91			Top of green slate @ 258.4 ft.
Total		68.4	6.17	25.04			Core recovery - 96.3%
258.4	263.0	4.6	2.36	10.07			
263.0	268.0	5.0	.40	6.50			Green slate
268.0	274.5	6.5	.56	5.44			
Total		16.1	1.02	7.09			Core recovery - 83.9%
Total Core Sampled		267.5					Core recovery - 95.7%

Diamond Drill Hole 6							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.5						Overburden
5.5	10.0	4.5	5.46	18.99			
10.0	14.2	4.2	3.92	13.25			
14.2	19.2	5.0	1.72	7.88			Manganiferous
19.2	20.3	1.1	2.72	4.34			
20.3	25.3	5.0	.68	23.97			purple
25.3	30.3	5.0	.96	2.98			
30.3	35.3	5.0	.80	4.02			and
35.3	40.3	5.0	.60	2.25			
40.3	42.3	2.0	.60	2.73			red
42.3	43.2	.9	.52	2.73			
43.2	44.7	1.5	.72	27.67			slate
44.7	46.5	1.8	.80	7.56			
46.5	50.0	3.5	3.60	19.95			
50.0	58.0	8.0	7.20	4.74	6.57	9.78	
58.0	62.5	4.5	3.68	5.55			
62.5	66.5	4.0	1.72	6.76			
Total		61.0			2.63	10.07	Core recovery 94.1%
66.5	69.2	2.7	5.36	15.12			
69.2	72.3	3.1	3.16	1.04			Manganiferous
72.3	76.4	4.1	13.08	15.85			
76.4	80.4	4.0	4.36	6.44			purple
80.4	85.4	5.0	9.68	16.49			
85.4	90.0	4.6	6.80	7.56			and
90.0	95.0	5.0	12.72	18.90			
95.0	99.0	4.0	7.20	4.34			red
99.0	100.6	1.6	4.88	5.49			
100.6	103.2	2.6	9.28	11.14			slate
103.2	107.9	4.7	8.00	33.85			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 5(cont'd.)							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
226.8	231.8	5.0	4.16	14.62			
231.8	234.2	2.4	.92	4.55			
234.2	239.2	5.0	6.80	29.23			
239.2	244.2	5.0	9.92	22.82			
244.2	249.2	5.0	6.96	30.86			
249.2	253.7	4.5	6.88	28.26			
253.7	258.4	4.7	6.84	28.91			Top of green slate @ 258.4 ft.
Total		68.4	6.17	25.04			Core recovery - 96.3%
258.4	263.0	4.6	2.36	10.07			
263.0	268.0	5.0	.40	6.50			Green slate
268.0	274.5	6.5	.56	5.44			
Total		16.1	1.02	7.09			Core recovery - 83.9%
Total Core Sampled		267.5					Core recovery - 95.7%

Diamond Drill Hole 6							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.5						Overburden
5.5	10.0	4.5	5.46	18.99			
10.0	14.2	4.2	3.92	13.25			
14.2	19.2	5.0	1.72	7.88			Manganiferous
19.2	20.3	1.1	2.72	4.34			
20.3	25.3	5.0	.68	23.97			purple
25.3	30.3	5.0	.96	2.98			
30.3	35.3	5.0	.80	4.02			and
35.3	40.3	5.0	.60	2.25			
40.3	42.3	2.0	.60	2.73			red
42.3	43.2	.9	.52	2.73			
43.2	44.7	1.5	.72	27.67			slate
44.7	46.5	1.8	.80	7.56			
46.5	50.0	3.5	3.60	19.95			
50.0	58.0	8.0	7.20	4.74	6.57	9.78	
58.0	62.5	4.5	3.68	5.55			
62.5	66.5	4.0	1.72	6.76			
Total		61.0			2.63	10.07	Core recovery 94.1%
66.5	69.2	2.7	5.36	15.12			
69.2	72.3	3.1	3.16	1.04			Manganiferous
72.3	76.4	4.1	13.08	15.85			
76.4	80.4	4.0	4.36	6.44			purple
80.4	85.4	5.0	9.68	16.49			
85.4	90.0	4.6	6.80	7.56			and
90.0	95.0	5.0	12.72	18.90			
95.0	99.0	4.0	7.20	4.34			red
99.0	100.6	1.6	4.88	5.49			
100.6	103.2	2.6	9.28	11.14			slate
103.2	107.9	4.7	8.00	33.85			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 6 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
107.9	115.0	7.1	11.48	15.83			
115.0	122.3	7.3	5.96	19.22	7.47	23.92	
122.3	131.9	9.6	8.12	22.61			
131.9	143.6	11.7	8.28	9.12	8.59	18.11	
143.6	157.1	13.5	12.12	21.51			
157.1	175.0	17.9	10.50	15.34	6.99	12.76	
Total		108.5			8.60	16.42	Core recovery - 83.4%
175.0	185.0	10.0	13.24	22.45	12.49	23.65	Top of manganiferous banded hematite @ 227.4 ft.
185.0	190.0	5.0	14.28	26.49			
190.0	200.0	10.0	4.92	16.96	5.72	18.87	Manganiferous
200.0	210.0	10.0	12.28	14.07			
210.0	220.0	10.0	7.20	10.34			Banded
220.0	227.4	7.4	4.72	11.30			
227.4	230.0	2.6	10.96	25.84			Hematite
230.0	240.0	10.0	11.80	25.68			
240.0	250.0	10.0	14.88	25.36	14.43	28.41	
250.0	260.0	10.0	10.84	28.41	11.01	29.65	
260.0	270.0	10.0	13.88	27.12	11.83	31.23	
270.0	280.0	10.0	10.44	26.48			
280.0	290.0	10.0	11.20	26.64	10.13	29.44	
290.0	300.6	10.6	11.76	26.62			Bottom of manganiferous banded hematite @ 300.6 ft.
Total		125.6			10.56	23.74	Core recovery - 83.3%
300.6	310.0	9.4	5.68	21.50			Manganiferous
310.0	320.0	10.0	5.20	24.88			interbedded
320.0	330.0	10.0	5.92	23.91			hematitic
330.0	340.0	10.0	5.60	7.86			and
340.0	350.0	10.0	6.72	26.32			green slate
350.0	353.2	3.2	9.64	26.64			
Total		52.6	6.06	21.24			Core recovery - 95.1%
353.2	360.0	6.8	1.60	10.11			Top of green slate @ 353.2 ft.
360.0	370.0	10.0	.64	5.78			
370.0	380.0	10.0	.44	5.86			Green slate
380.0	388.0	8.0	.40	5.78			
Total		34.8	0.72	6.65			Core recovery - 95.7%
Total Core Sampled		382.5					

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 7

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.7						Overburden
7.7	11.0	3.3	19.00	22.40			
11.0	20.0	9.0	4.75	12.88			
20.0	25.7	5.7	5.20	14.00			Manganiferous
25.7	29.4	3.7	11.87	13.60			purple
29.4	33.0	3.6	7.83	10.08			
33.0	37.2	4.2	7.63	8.24			and
37.2	40.0	2.8	4.16	7.20			
40.0	42.5	2.5	1.80	7.36			red slate
42.5	43.9	1.4	2.28	4.40			
43.9	46.6	2.7	5.11	13.60			Top of manganiferous banded hematite @ 46.6 ft.
Total		38.9	7.00	12.14			Core recovery - 96.1%
46.6	48.1	1.5	10.56	23.68			
48.1	51.0	2.9	10.91	17.76			Manganiferous
51.0	55.1	4.1	10.63	27.70			
55.1	57.8	2.7	8.4	4.24			banded
57.8	62.9	5.1	11.12	32.31			
62.9	68.0	5.1	14.03	25.92			hematite
68.0	71.0	3.0	11.95	17.60			
71.0	80.0	9.0	13.75	32.96			
80.0	90.0	10.0	12.03	25.92			
90.0	100.0	10.0	11.83	25.56			
100.0	108.4	8.4	11.95	23.68			
108.4	117.6	9.2	11.08	25.20	9.19	25.93	
117.6	128.6	11.0	14.07	26.72	11.99	31.44	
128.6	134.3	5.7	16.63	20.32			Bottom of manganiferous banded hematite @ 134.3 ft.
Total		87.7			11.76	26.23	Core recovery - 89.7%
134.3	138.3	4.0	6.95	31.68	6.39	26.36	
138.3	143.9	5.6	3.56	17.76	4.58	20.91	Manganiferous
143.9	153.3	9.4	5.40	24.64	5.36	26.63	interbedded
153.3	157.7	4.4	6.00	27.76			hematitic
157.7	163.4	5.7	7.67	25.04	6.48	26.78	and
163.4	170.0	6.6	2.40	10.00			green
170.0	180.0	10.0	10.60	21.60			slate
180.0	189.7	9.7	10.20	24.80			
189.7	200.8	11.1	8.00	25.60	7.36	25.95	Top of green slate @ 200.8 ft.
Total		66.5			7.04	23.40	Core recovery - 71.6%
200.8	205.9	5.1	4.16	12.16	3.91	12.95	
205.9	217.1	11.2	2.80	11.12	1.47	8.23	Green slate
Total		16.3			2.23	9.71	Core recovery - 40.5%
Total Core Sampled	209.4						Core recovery - 81.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 8							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.3						Overburden
7.3	11.0	3.7	1.00	5.76			Manganiferous purple and red slate
11.0	13.8	2.8	14.87	13.75			
13.8	18.4	4.6	3.24	7.20			Manganiferous
18.4	21.8	3.4	11.63	12.16			
21.8	24.4	2.6	5.91	6.56			Purple
24.4	29.4	5.0	5.43	15.43			and
29.4	32.8	3.4	8.08	15.42			red slate
32.8	37.7	4.9	12.91	15.52			
37.7	40.8	3.1	3.00	14.72			
40.8	44.4	3.6	2.08	8.64			
44.4	48.6	4.2	9.03	18.40			
48.6	52.3	3.7	7.47	12.32			
52.3	56.7	4.4	9.71	13.43	8.84	16.15	Top of manganiferous banded hematite @ 56.7 ft.
56.7	62.5	5.8	10.08	24.87			
62.5	70.2	7.7	10.47	23.28			
70.2	74.6	4.4	7.40	21.76			
Total		63.6			8.21	16.13	Core recovery - 97.0%
74.6	79.5	4.9	15.63	24.16			Manganiferous
79.5	82.4	2.9	8.52	31.20			Banded
82.4	85.5	3.1	15.16	21.28			Hematite
85.5	89.0	3.5	14.35	24.32			
Total		14.4	13.79	25.00			Core recovery - 100.0%
89.0	94.0	5.0	8.84	24.48			
94.0	99.1	5.1	8.43	28.80			
99.1	102.9	3.8	17.39	24.80			Bottom of manganiferous banded hematite @ 120 ft.
102.9	107.3	4.4	7.35	30.08			
107.3	112.6	5.3	14.39	16.24			Manganiferous
112.6	117.9	5.3	10.40	27.43			interbedded
117.9	120.0	2.1	8.80	16.16			hematitic
120.0	125.0	5.0	4.00	14.40			and
125.0	130.0	5.0	4.63	15.36			green
130.0	134.5	4.5	7.00	16.00			slate
134.5	139.5	5.0	4.43	27.36			
139.5	143.4	3.9	5.71	28.08			
143.4	149.0	5.6	8.20	24.24			
149.0	152.5	3.5	2.40	13.44			
152.5	157.2	4.7	1.60	5.52			
157.2	162.0	4.8	1.61	6.40			
Total		73.0	7.18	20.11			Core recovery - 98.4%
162.0	166.7	4.7	14.07	20.32			Manganiferous
166.7	172.8	6.1	9.20	14.72			interbedded
172.8	178.4	5.6	9.75	28.77	9.43	26.83	hematitic
178.4	181.0	2.6	14.83	11.52			and
181.0	187.7	6.7	17.84	14.24	16.23	17.11	green slate
Total		25.7			12.54	18.68	Core recovery - 83.3%
187.7	192.0	4.3	7.95	25.92			Manganiferous
192.0	197.2	5.2	5.80	33.20			interbedded
197.2	202.2	5.0	5.43	16.00			hematitic
202.2	207.4	5.2	7.08	20.00			and
207.4	212.7	5.3	4.87	23.84			green
212.7	217.7	5.0	2.43	12.40			slate

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 8 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
212.7	217.7	5.0	2.43	12.40			
217.7	223.0	5.3	4.55	12.08			
223.0	228.0	5.0	11.23	22.88			
228.0	233.0	5.0	7.11	16.40			
233.0	239.3	6.3	5.67	17.60			
239.3	245.7	6.4	12.00	19.52			
245.7	253.3	7.6	10.08	25.04	9.75	24.72	
253.3	257.6	4.3	7.95	26.88			
257.6	263.1	5.5	7.40	28.64			Top of green slate @ 263.1 ft.
263.1	269.6	6.5	10.71	13.43			
Total		81.9			7.49	20.82	Core recovery - 93.7%
269.6	291.0						Green slate
Total Core Sampled		262.3					Core recovery - 95.2%

Diamond Drill Hole 9

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	10.0	2.5	0.80	4.96			
10.0	20.0	10.0	1.24	5.36			Manganiferous
20.0	30.0	10.0	2.43	8.64			purple
30.0	40.0	10.0	.48	4.72			and
40.0	50.0	10.0	.64	5.36			red
50.0	60.0	10.0	.83	5.20			slate
60.0	70.0	10.0	.92	6.72			
70.0	80.0	10.0	3.20	7.12			
Total		72.5	1.37	6.12			Core recovery - 97.7%
80.0	90.0	10.0	8.51	10.72			Manganiferous
90.0	100.0	10.0	9.35	14.56			purple
100.0	108.0	8.0	6.80	8.80			and
108.0	110.0	2.0	5.75	10.72			green
110.0	114.2	4.2	15.16	14.64			slate
114.2	120.0	5.8	8.36	13.60			
120.0	130.0	10.0	9.51	23.52			
130.0	140.0	10.0	9.72	19.04			
140.0	145.2	5.2	2.80	11.04			
145.2	150.0	4.8	3.28	13.92			
150.0	160.0	10.0	9.43	13.12			
160.0	170.3	10.3	2.51	8.32			Top of manganiferous banded hematite @ 170.3 ft.
Total		90.3	7.75	13.86			Core recovery - 99.9%
170.3	180.0	9.7	11.15	19.36			Manganiferous
180.0	190.0	10.0	12.56	30.24			banded
190.0	200.0	10.0	10.16	23.36			hematite
200.0	210.0	10.0	11.27	27.68			
210.0	217.0	7.0	12.47	20.00			Bottom of manganiferous banded hematite @ 217 ft.
Total		46.7	11.46	24.42			Core recovery - 99.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 8 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
212.7	217.7	5.0	2.43	12.40			
217.7	223.0	5.3	4.55	12.08			
223.0	228.0	5.0	11.23	22.88			
228.0	233.0	5.0	7.11	16.40			
233.0	239.3	6.3	5.67	17.60			
239.3	245.7	6.4	12.00	19.52			
245.7	253.3	7.6	10.08	25.04	9.75	24.72	
253.3	257.6	4.3	7.95	26.88			
257.6	263.1	5.5	7.40	28.64			Top of green slate @ 263.1 ft.
263.1	269.6	6.5	10.71	13.43			
Total		81.9			7.49	20.82	Core recovery - 93.7%
269.6	291.0						Green slate
Total Core Sampled		262.3					Core recovery - 95.2%

Diamond Drill Hole 9

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	10.0	2.5	0.80	4.96			
10.0	20.0	10.0	1.24	5.36			Manganiferous
20.0	30.0	10.0	2.43	8.64			purple
30.0	40.0	10.0	.48	4.72			and
40.0	50.0	10.0	.64	5.36			red
50.0	60.0	10.0	.83	5.20			slate
60.0	70.0	10.0	.92	6.72			
70.0	80.0	10.0	3.20	7.12			
Total		72.5	1.37	6.12			Core recovery - 97.7%
80.0	90.0	10.0	8.51	10.72			Manganiferous
90.0	100.0	10.0	9.35	14.56			purple
100.0	108.0	8.0	6.80	8.80			and
108.0	110.0	2.0	5.75	10.72			green
110.0	114.2	4.2	15.16	14.64			slate
114.2	120.0	5.8	8.36	13.60			
120.0	130.0	10.0	9.51	23.52			
130.0	140.0	10.0	9.72	19.04			
140.0	145.2	5.2	2.80	11.04			
145.2	150.0	4.8	3.28	13.92			
150.0	160.0	10.0	9.43	13.12			
160.0	170.3	10.3	2.51	8.32			Top of manganiferous banded hematite @ 170.3 ft.
Total		90.3	7.75	13.86			Core recovery - 99.9%
170.3	180.0	9.7	11.15	19.36			Manganiferous
180.0	190.0	10.0	12.56	30.24			banded
190.0	200.0	10.0	10.16	23.36			hematite
200.0	210.0	10.0	11.27	27.68			
210.0	217.0	7.0	12.47	20.00			Bottom of manganiferous banded hematite @ 217 ft.
Total		46.7	11.46	24.42			Core recovery - 99.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 9(cont'd.)							
Footage From-	To-	Sample Interval Feet	Core Assay,%		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
217.0	220.0	3.0	7.28	21.92			Manganiferous interbedded hematitic and green slate
220.0	230.0	10.0	5.56	17.60			
230.0	240.0	10.0	7.67	8.96			
240.0	245.0	5.0	10.48	22.08			
Total		28.0	7.38	15.78			Core recovery - 99.6%
245.0	250.0	5.0	1.51	6.16			Top of green slate @ 245.0 ft. Green slate
250.0	260.0	10.0	.72	5.44			
260.0	269.0	9.0	.92	5.60			
Total		24.0	0.96	5.65			Core recovery - 96.7%
Total Core Sampled		261.5					Core recovery - 98.9%

Diamond Drill Hole 10							
Footage From-	To-	Sample Interval Feet	Core Assay,%		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						Overburden
3.0	10.0	7.0	4.20	30.61			Manganiferous interbedded hematitic and green slate from 3' - 56.8'
10.0	20.0	10.0	4.31	18.28			
20.0	30.0	10.0	4.60	23.12			
30.0	40.0	10.0	5.40	26.98			
40.0	50.0	10.0	8.39	19.33			Manganiferous purple and red slate from 56.8' - 63'
50.0	60.0	10.0	12.51	17.24			Manganiferous interbedded hematitic and green slate from 63' - 89.7'
60.0	63.0	3.0	10.56	14.82			
63.0	70.0	7.0	5.87	22.07	8.16	19.89	
70.0	80.0	10.0	4.12	10.71			
80.0	89.7	9.7	8.75	20.46			Fault contacts @ 56.8', 63', 89.7'
Total		86.7			6.88	20.22	Core recovery - 96.3%
89.7	100.0	10.3	10.40	26.98			Manganiferous banded hematite
100.0	110.0	10.0	11.28	24.00			
110.0	120.0	10.0	8.27	23.52			
120.0	130.0	10.0	9.12	25.61			
130.0	140.0	10.0	13.03	19.65			
140.0	150.0	10.0	13.75	21.43			
Total		60.3	10.98	23.55			Core recovery - 99.8%
150.0	160.0	10.0	7.68	31.82			Bottom of manganiferous banded hematite @ 174.9'
160.0	170.0	10.0	1.43	26.90			
170.0	174.9	4.9	17.35	15.30			
174.9	180.0	5.1	7.28	23.04			
180.0	190.0	10.0	4.19	13.37			
190.0	200.0	10.0	10.20	17.56			
200.0	210.0	10.0	7.40	17.96			
210.0	217.9	7.9	6.96	19.98			
Total		67.9	7.39	21.01			Core recovery - 100.0%
217.9	220.0	2.1	0.72	5.48			Top of green slate @ 217.9' Green slate
220.0	230.0	10.0	.64	5.96			
230.0	233.0	3.0	1.20	6.93			
Total		15.1	0.76	6.09			Core recovery - 100.0%
Total Core Sampled		230.0					Core recovery - 98.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 9(cont'd.)							
Footage From-	To-	Sample Interval Feet	Core Assay,%		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
217.0	220.0	3.0	7.28	21.92			Manganiferous interbedded hematitic and green slate
220.0	230.0	10.0	5.56	17.60			
230.0	240.0	10.0	7.67	8.96			
240.0	245.0	5.0	10.48	22.08			
Total		28.0	7.38	15.78			Core recovery - 99.6%
245.0	250.0	5.0	1.51	6.16			Top of green slate @ 245.0 ft. Green slate
250.0	260.0	10.0	.72	5.44			
260.0	269.0	9.0	.92	5.60			
Total		24.0	0.96	5.65			Core recovery - 96.7%
Total Core Sampled		261.5					Core recovery - 98.9%

Diamond Drill Hole 10							
Footage From-	To-	Sample Interval Feet	Core Assay,%		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						Overburden
3.0	10.0	7.0	4.20	30.61			Manganiferous interbedded hematitic and green slate from 3' - 56.8'
10.0	20.0	10.0	4.31	18.28			
20.0	30.0	10.0	4.60	23.12			
30.0	40.0	10.0	5.40	26.98			
40.0	50.0	10.0	8.39	19.33			Manganiferous purple and red slate from 56.8' - 63'
50.0	60.0	10.0	12.51	17.24			Manganiferous interbedded hematitic and green slate from 63' - 89.7'
60.0	63.0	3.0	10.56	14.82			
63.0	70.0	7.0	5.87	22.07	8.16	19.89	
70.0	80.0	10.0	4.12	10.71			
80.0	89.7	9.7	8.75	20.46			Fault contacts @ 56.8', 63', 89.7'
Total		86.7			6.88	20.22	Core recovery - 96.3%
89.7	100.0	10.3	10.40	26.98			Manganiferous banded hematite
100.0	110.0	10.0	11.28	24.00			
110.0	120.0	10.0	8.27	23.52			
120.0	130.0	10.0	9.12	25.61			
130.0	140.0	10.0	13.03	19.65			
140.0	150.0	10.0	13.75	21.43			
Total		60.3	10.98	23.55			Core recovery - 99.8%
150.0	160.0	10.0	7.68	31.82			Bottom of manganiferous banded hematite @ 174.9'
160.0	170.0	10.0	1.43	26.90			
170.0	174.9	4.9	17.35	15.30			
174.9	180.0	5.1	7.28	23.04			
180.0	190.0	10.0	4.19	13.37			
190.0	200.0	10.0	10.20	17.56			
200.0	210.0	10.0	7.40	17.96			
210.0	217.9	7.9	6.96	19.98			
Total		67.9	7.39	21.01			Core recovery - 100.0%
217.9	220.0	2.1	0.72	5.48			Top of green slate @ 217.9' Green slate
220.0	230.0	10.0	.64	5.96			
230.0	233.0	3.0	1.20	6.93			
Total		15.1	0.76	6.09			Core recovery - 100.0%
Total Core Sampled		230.0					Core recovery - 98.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 11

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.0						Overburden
4.0	10.0	6.0	0.64	3.80			Manganiferous
10.0	20.0	10.0	.56	4.85			purple and
20.0	30.0	10.0	.56	4.53			red slate
Total		26.0	0.58	4.48			Core recovery - 99.6%
30.0	40.0	10.0	8.56	13.26			
40.0	49.2	9.2	2.60	6.95			
49.2	60.0	10.8	5.64	10.83			Manganiferous
60.0	70.2	10.2	6.00	6.47			purple
70.2	83.6	13.4	9.96	18.67			and
83.6	91.9	8.3	6.60	19.24	6.80	19.56	red slate
91.9	101.6	9.7	5.44	8.25	4.95	13.42	
101.6	110.0	8.4	.92	25.71			Top of manganiferous banded hematite @ 108 ft.
Total		80.0			5.97	14.23	Core recovery - 85.8%
110.0	120.0	10.0	12.28	26.11			Manganiferous
120.0	130.0	10.0	8.60	28.94			banded
130.0	140.0	10.0	11.32	24.58			hematite
140.0	150.8	10.8	9.44	28.94			Bottom of manganiferous banded hematite @ 150.8'
Total		40.8	10.39	27.18			Core recovery - 95.3%
150.8	160.0	9.2	3.88	12.77			Manganiferous
160.0	170.0	10.0	5.84	24.42			Interbedded
170.0	180.0	10.0	5.92	12.85			and
180.0	184.9	4.9	9.44	14.96			green slate
184.9	190.0	5.1	9.44	13.82			Top of green slate @ 184.9 ft.
190.0	200.0	10.0	7.16	15.60			
Total		49.2	6.49	16.06			
200.0	220.0						Green slate
220.0	231.0	11.0	1.52	5.01			Core recovery - 95.4%
Total Core Sampled		207.0					Core recovery - 93.3%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 12

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	10.0	2.5	0.78	6.69			
10.0	20.0	10.0	.43	8.87			
20.0	30.0	10.0	.84	6.93			Manganiferous purple
30.0	40.0	10.0	.44	5.81			and
40.0	50.0	10.0	.32	4.19			red
50.0	60.0	10.0	.24	5.48			slate
60.0	70.0	10.0	.45	5.56			
Total		62.5	0.47	6.16			Core recovery - 98.4%
70.0	80.0	10.0	6.39	12.90			Manganiferous
80.0	89.9	9.9	3.24	6.93			
89.9	98.6	8.7	4.63	24.35	6.47	22.59	purple
98.6	110.0	11.4	7.25	17.26			and
110.0	120.0	10.0	10.80	21.77	8.89	20.46	red slate
120.0	128.3	8.3	2.79	17.10			Top of manganiferous banded hematite @ 150 ft.
128.3	137.7	9.4	8.16	13.39	6.35	15.21	
137.7	150.0	12.3	6.20	14.84			
Total		80.0			6.04	15.79	Core recovery - 84.9%
150.0	160.0	10.0	10.28	25.81			
160.0	170.0	10.0	13.03	30.80			Manganiferous
170.0	176.1	6.1	10.08	31.45			
176.1	185.1	9.0	11.75	23.39	10.79	28.99	banded
185.1	190.0	4.9	9.39	31.29			
190.0	200.0	10.0	11.63	22.42			hematite
200.0	210.0	10.0	7.20	27.41			
210.0	218.1	8.1	13.83	21.61			
218.1	223.1	5.0	17.35	10.48	15.79	18.81	
Total		73.1			11.18	26.53	Core recovery - 86.7%
223.1	229.3	6.2	7.67	24.76			Bottom of manganiferous banded hematite @ 229.3 ft.
229.3	240.0	10.7	3.47	13.39			Manganiferous
240.0	250.0	10.0	5.67	27.66			interbedded
250.0	256.8	6.8	2.20	10.81			hematitic
256.8	263.2	6.4	7.83	15.00	6.38	20.55	and
263.2	270.0	6.8	10.79	15.97			green
270.0	284.0	14.0	7.08	15.81			slate
284.0	290.0	6.0	7.91	18.39			Top of green slate @ 284.0 ft.
Total		66.9			6.36	18.29	Core recovery - 93.6%
290.0	300.0	10.0	1.48	7.74			Core recovery - 99.0%
							Green slate
300.0	310.0						Green slate
Total Core Sampled		292.5					Core recovery - 90.7%

TABLE 5 - Analyses of Diamond drill cores

Diamond Drill Hole 13

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	1.5						Overburden
1.5	6.0	4.5	1.85	17.54			Manganiferous purple & red slate - Core recovery - 100%
6.0	10.0	4.0	13.04	13.44			
10.0	18.4	8.4	4.63	12.21			
18.4	23.8	5.4	18.29	22.28			Manganiferous
23.8	29.3	5.5	4.67	12.85			purple
29.3	35.4	6.1	2.99	14.07			and
35.4	44.0	8.6	6.60	12.53			red
44.0	53.0	9.0	6.97	8.08			slate
53.0	56.0	3.0	2.17	4.36			
56.0	61.4	5.4	11.03	11.64			
61.4	68.0	6.6	3.65	8.25			
68.0	78.0	10.0	2.76	6.63			
78.0	85.2	7.2	3.44	12.77			
85.2	90.3	5.1	6.84	20.21			Top of manganiferous banded hematite @ 85.2 ft.
Total		84.3	6.29	11.93			Core recovery - 91.1%
90.3	98.7	8.4	9.56	22.64			
98.7	102.3	3.6	12.92	33.44			
102.3	107.0	4.7	8.12	36.71			Manganiferous
107.0	110.8	3.8	15.76	26.36			banded
110.8	115.8	5.0	13.96	32.82			hematite
115.8	124.0	8.2	12.84	27.00			
124.0	128.7	4.7	6.72	26.84			
128.7	133.6	4.9	16.20	26.68			
133.6	139.0	5.4	8.32	32.82			
139.0	148.4	9.4	19.96	23.28			
148.4	157.7	9.3	9.40	30.88			
157.7	164.5	6.8	12.24	25.06			
164.5	171.7	7.2	12.42	27.00			
171.7	178.3	6.6	9.52	27.01			Bottom of manganiferous banded hematite @ 175.8 ft.
Total		88.0	12.12	27.86			Core recovery - 99.4%
178.3	185.6	7.3	3.12	13.98			
185.6	199.4	13.8	5.08	27.24			Manganiferous
199.4	208.5	9.1	3.94	13.10			interbedded
208.5	219.3	10.8	9.92	20.05			hematitic
219.3	232.0	12.7	9.93	17.73			and
232.0	234.7	2.7	6.56	18.92			green slate
Total		56.4	6.73	19.33			Top of green slate @ 234.7 ft.
234.7	247.0						Core recovery - 81.6%
Total Core Sampled		233.2					Green slate
							Core recovery - 92.1%

TABLE 5 - Analyses of diamond drill cores

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
0.0	5.0						Overburden
5.0	9.4	4.4	4.12	9.60			Manganiferous purple and red slate Core recovery - 97.7%
9.4	11.1	1.7	11.20	27.12			
11.1	13.7	2.6	8.71	30.72			
13.7	18.1	4.4	2.28	6.00			
18.1	20.6	2.5	13.68	18.08			Manganiferous
20.6	24.2	3.6	15.12	26.96			
24.2	25.8	1.6	20.43	20.80			purple
25.8	29.6	3.8	3.71	5.12			
29.6	31.2	1.6	7.00	35.20			and
31.2	34.8	3.6	4.04	15.36			
34.8	38.9	4.1	3.95	8.48			red
38.9	40.3	1.4	7.11	37.12			
40.3	45.3	5.0	4.68	6.40			slate
45.3	47.9	2.6	14.27	9.04			
47.9	51.1	3.2	9.43	27.84			
51.1	55.0	3.9	3.56	5.76			
55.0	57.0	2.0	7.03	7.28			
57.0	58.5	1.5	12.36	18.48			
58.5	59.2	.7	2.67	2.24			
59.2	63.8	4.6	6.87	9.92			
63.8	68.6	4.8	6.68	8.48	6.23	13.47	
68.6	69.7	1.1	2.71	5.43			
69.7	79.7	10.0	4.28	5.28	2.91	12.98	
79.7	82.1	2.4	5.75	12.16			
82.1	85.6	3.5	2.40	5.60			Top of manganiferous banded hematite @ 85.6 ft.
Total		76.2			6.48	13.82	Core recovery - 87.9%
85.6	90.8	5.2	10.00	21.44			
90.8	94.5	3.7	8.04	17.60			
94.5	96.8	2.3	12.56	30.08	10.41	34.98	
96.8	99.1	2.3	11.51	29.12			Manganiferous
99.1	101.4	2.3	10.56	28.80			
101.4	104.2	2.8	6.83	10.24			banded
104.2	107.9	3.7	11.52	24.80			
107.9	108.9	1.0	2.43	4.56			hematite
108.9	113.0	4.1	13.56	31.20			
113.0	114.8	1.8	8.08	36.24			
114.8	119.1	4.3	15.68	27.20			
119.1	121.2	2.1	15.80	29.84			
121.2	124.3	3.1	12.28	29.43	13.90	29.88	
124.3	128.6	4.3	10.40	36.80			
128.6	133.8	5.2	12.60	27.28			
133.8	135.6	1.8	1.92	18.32			
135.6	136.1	.5	2.60	5.84			
136.1	140.2	4.1	10.00	30.72			
140.2	142.8	2.6	16.68	23.20			
142.8	144.0	1.2	16.72	28.80			
144.0	145.2	1.2	6.84	38.16			
145.2	148.1	2.9	10.28	30.08			
148.1	152.0	3.9	10.92	28.72			
152.0	157.0	5.0	14.80	22.40			
157.0	158.2	1.2	8.84	29.92			
158.2	161.3	3.1	4.12	25.76			
161.3	166.3	5.0	8.80	24.16			
166.3	170.9	4.6	13.36	23.68			
170.9	176.0	5.1	8.42	30.40			
176.0	180.7	4.7	11.68	28.56			
180.7	182.8	2.1	12.72	24.00			
Total		97.2			10.92	26.58	Core recovery - 94.2%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 14 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
182.2	186.0	3.2	7.00	17.43			
186.0	188.8	2.8	9.00	32.96	9.94	29.81	Bottom of manganiferous banded hematite @ 188.8 ft.
188.8	193.0	4.2	7.52	20.32			Manganiferous
193.0	194.4	1.4	7.76	27.52			interbedded
194.4	199.4	5.0	2.60	13.12			
199.4	204.4	5.0	4.44	17.12			
204.4	206.9	2.5	5.48	21.43			hematitic
206.9	210.8	3.9	5.36	28.24			
210.8	214.0	3.2	6.08	26.56			and
214.0	218.3	4.3	5.88	31.20			
218.3	220.2	1.9	6.88	30.96			green
220.2	224.9	4.7	3.72	16.40			
224.9	231.1	6.2	3.88	13.43			slate
231.1	234.2	3.1	7.24	28.32	7.94	27.81	
234.2	236.4	2.2	9.00	15.43			
236.4	239.7	3.3	11.20	23.04	11.14	19.52	
239.7	245.8	6.1	8.84	26.24			
245.8	249.8	4.0	7.04	28.40	7.71	27.93	
249.8	254.5	4.7	7.60	24.16			
254.5	257.7	3.2	8.48	29.43			Top of green slate @ 257.7 ft.
257.7	262.7	5.0	5.00	16.40			
Total		79.9			6.45	22.06	Core recovery - 94.2%
262.7	267.0	4.3	3.84	16.32			
267.0	270.0	3.0	2.60	9.43			Green slate
Total		7.3	3.33	13.49			Core recovery - 100.0%
Total Core Sampled		265.0					Core recovery - 91.7%

Diamond Drill Hole 15

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.6						Overburden
3.6	7.2	3.6	3.12	8.87			
7.2	10.2	3.0	3.95	11.13			
10.2	13.0	2.8	13.07	16.69			Manganiferous
13.0	16.2	3.2	3.68	5.89			
16.2	20.5	4.3	2.71	3.39			purple
20.5	22.8	2.3	8.15	11.61			
22.8	25.5	2.7	1.08	11.45			and
25.5	29.5	4.0	1.68	5.32			
29.5	33.8	4.3	2.27	5.31			red
33.8	35.5	1.7	4.67	25.32			
35.5	40.5	5.0	2.72	21.37			slate
40.5	45.5	5.0	2.91	9.03			
Total		41.9	3.75	10.55			Core recovery - 89.5%
45.5	50.0	4.5	9.40	30.16			Manganiferous
50.0	55.0	5.0	9.39	9.35			
55.0	60.2	5.2	11.68	18.30			purple and
60.2	70.0	9.8	11.16	20.97	12.21	19.21	
70.0	75.0	5.0	.20	2.66			red slate
75.0	78.2	3.2	2.67	12.74			Top of manganiferous banded hematite @ 77.1 ft.
78.2	81.6	3.4	16.48	23.06			
81.6	86.0	4.4	7.40	36.29			
Total		40.5			9.08	18.72	Core recovery - 86.9%
86.0	91.0	5.0	11.59	32.90			Manganiferous
91.0	94.7	3.7	16.03	15.16			banded
94.7	98.2	3.5	18.60	29.19			hematite

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 14 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
182.2	186.0	3.2	7.00	17.43			
186.0	188.8	2.8	9.00	32.96	9.94	29.81	Bottom of manganiferous banded hematite @ 188.8 ft.
188.8	193.0	4.2	7.52	20.32			Manganiferous
193.0	194.4	1.4	7.76	27.52			
194.4	199.4	5.0	2.60	13.12			interbedded
199.4	204.4	5.0	4.44	17.12			
204.4	206.9	2.5	5.48	21.43			hematitic
206.9	210.8	3.9	5.36	28.24			
210.8	214.0	3.2	6.08	26.56			and
214.0	218.3	4.3	5.88	31.20			
218.3	220.2	1.9	6.88	30.96			green
220.2	224.9	4.7	3.72	16.40			
224.9	231.1	6.2	3.88	13.43			slate
231.1	234.2	3.1	7.24	28.32	7.94	27.81	
234.2	236.4	2.2	9.00	15.43			
236.4	239.7	3.3	11.20	23.04	11.14	19.52	
239.7	245.8	6.1	8.84	26.24			
245.8	249.8	4.0	7.04	28.40	7.71	27.93	
249.8	254.5	4.7	7.60	24.16			
254.5	257.7	3.2	8.48	29.43			Top of green slate @ 257.7 ft.
257.7	262.7	5.0	5.00	16.40			
Total		79.9			6.45	22.06	Core recovery - 94.2%
262.7	267.0	4.3	3.84	16.32			
267.0	270.0	3.0	2.60	9.43			Green slate
Total		7.3	3.33	13.49			Core recovery - 100.0%
Total Core Sampled		265.0					Core recovery - 91.7%

Diamond Drill Hole 15

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.6						Overburden
3.6	7.2	3.6	3.12	8.87			
7.2	10.2	3.0	3.95	11.13			
10.2	13.0	2.8	13.07	16.69			Manganiferous
13.0	16.2	3.2	3.68	5.89			
16.2	20.5	4.3	2.71	3.39			purple
20.5	22.8	2.3	8.15	11.61			
22.8	25.5	2.7	1.08	11.45			and
25.5	29.5	4.0	1.68	5.32			
29.5	33.8	4.3	2.27	5.31			red
33.8	35.5	1.7	4.67	25.32			
35.5	40.5	5.0	2.72	21.37			slate
40.5	45.5	5.0	2.91	9.03			
Total		41.9	3.75	10.55			Core recovery - 89.5%
45.5	50.0	4.5	9.40	30.16			Manganiferous
50.0	55.0	5.0	9.39	9.35			
55.0	60.2	5.2	11.68	18.30			purple and
60.2	70.0	9.8	11.16	20.97	12.21	19.21	
70.0	75.0	5.0	.20	2.66			red slate
75.0	78.2	3.2	2.67	12.74			Top of manganiferous banded hematite @ 77.1 ft.
78.2	81.6	3.4	16.48	23.06			
81.6	86.0	4.4	7.40	36.29			
Total		40.5			9.08	18.72	Core recovery - 86.9%
86.0	91.0	5.0	11.59	32.90			Manganiferous
91.0	94.7	3.7	16.03	15.16			banded
94.7	98.2	3.5	18.60	29.19			hematite

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 15 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
98.2	102.2	4.0	11.87	26.94			
102.2	106.9	4.7	10.43	22.74			
106.9	110.5	3.6	11.08	36.13			
110.5	114.8	4.3	14.47	18.55			
114.8	120.0	5.2	13.71	26.29			
120.0	122.0	2.0	7.20	18.71			
122.0	127.7	5.7	14.03	27.10	14.16	26.71	
127.7	132.7	5.0	8.71	28.87			
132.7	137.8	5.1	12.16	31.29			
137.8	142.0	4.2	11.68	28.39			
142.0	147.2	5.2	17.28	20.97	12.10	27.67	
147.2	151.4	4.2	11.03	31.94	9.65	25.68	
Total		65.4			12.32	26.74	Core recovery - 87.8%
151.4	156.5	5.1	7.67	28.39			
156.5	158.8	2.3	3.40	31.13	5.47	31.83	
158.8	161.2	2.4	5.47	14.92			
161.2	166.0	4.8	10.28	28.71	11.54	25.64	Bottom of manganiferous banded hematite @ 200.3 ft.
166.0	169.2	3.2	4.23	32.90	4.70	30.20	
169.2	171.2	2.0	8.28	37.34			
171.2	174.3	3.1	12.87	21.61			
174.3	177.7	3.4	19.28	22.50			
177.7	181.6	3.9	12.36	32.90			
181.6	182.5	.9	6.00	23.79			
182.5	186.8	4.3	5.67	34.03			Manganiferous interbedded hematitic and green slate
186.8	189.8	3.0	14.83	24.84			
189.8	192.0	2.2	7.08	36.21			
192.0	196.3	4.3	17.95	16.57			
196.3	200.3	4.0	9.87	32.50			
200.3	205.3	5.0	5.92	25.74			
205.3	206.7	1.4	9.43	10.94			
206.7	210.4	3.7	4.15	21.80			
210.4	213.2	2.8	2.08	9.01			
213.2	215.7	2.5	4.80	17.54			
215.7	218.3	2.6	6.23	28.64			
218.3	221.0	2.7	6.01	30.65			
221.0	226.8	5.8	5.40	22.69			
226.8	232.8	6.0	6.60	24.46			
232.8	237.0	4.2	2.59	6.76			
237.0	238.9	1.9	1.61	7.88			
238.9	239.5	.6	3.27	34.27			
239.5	241.0	1.5	1.52	5.95			
241.0	245.5	4.5	9.87	26.23			
245.5	250.3	4.8	9.51	21.96			
250.3	255.3	5.0	10.51	21.80			
255.3	261.0	5.7	9.20	23.01			
261.0	266.0	5.0	6.87	15.61			Top of green slate @ 261.0 ft.
266.0	270.0	4.0	7.60	17.38			
270.0	274.7	4.7	7.43	22.85			
274.7	279.0	4.3	7.80	23.57			
Total		127.6			8.13	23.24	Core recovery - 95.1%
Total Core Sampled		275.4					Core recovery - 91.3%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 16

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.0						
5.0	10.0	5.0	1.26	4.35			Overburden
10.0	20.0	10.0	4.60	14.27			Manganiferous purple and red slate
Total		15.0	3.49	10.96			Core recovery - 92.0%
20.0	24.8	4.8	11.08	25.48			
24.8	30.0	5.2	15.00	23.39			Top of manganiferous banded hematite @ 24.8 ft.
30.0	40.0	10.0	7.43	20.32			
40.0	50.0	10.0	8.63	36.29			
50.0	60.0	10.0	16.40	24.52			
60.0	71.8	11.8	14.71	28.23	14.30	28.00	Manganiferous
71.8	81.3	9.5	11.72	26.13	10.13	32.78	banded
81.3	90.0	8.7	11.39	35.49			hematite
90.0	99.8	9.8	9.64	31.94			
99.8	110.9	11.1	10.43	19.36	9.75	29.77	
110.9	118.0	7.1	11.19	34.52	10.24	35.96	
118.0	127.1	9.1	10.87	31.03	10.97	31.11	
127.1	133.5	6.4	13.51	21.94	11.95	25.18	
133.5	140.0	6.5	12.63	18.31			
140.0	150.0	10.0	13.39	28.23			
150.0	160.0	10.0	11.12	34.03			
160.0	169.8	9.8	10.40	30.65			
169.8	175.4	5.6	18.79	37.98	14.94	35.96	
175.4	180.0	4.6	20.00	20.24			
180.0	190.0	10.0	17.39	21.13			
190.0	200.0	10.0	14.59	29.92			
200.0	210.0	10.0	11.20	32.74			
210.0	220.0	10.0	9.24	28.79			
220.0	230.0	10.0	13.08	20.16			
230.0	240.7	10.7	10.32	28.55	10.40	27.22	
240.7	246.3	5.6	8.12	25.65	9.44	27.56	
246.3	252.9	6.6	7.52	26.76	8.49	32.01	
252.9	263.2	10.3	12.00	27.26	10.32	27.32	
263.2	270.0	6.8	14.56	24.60			
Total		250.0			11.83	28.47	Core recovery - 84.1%
270.0	277.9	7.9	6.80	26.13			Bottom of manganiferous banded hematite @ 273.1 ft.
277.9	290.0	12.1	3.68	17.74			Manganiferous
290.0	300.0	10.0	5.20	28.07			interbedded
300.0	310.0	10.0	3.44	24.92			hematitic
310.0	320.0	10.0	6.84	30.48			and
320.0	330.0	10.0	8.20	24.84			green
330.0	340.0	10.0	6.56	27.34			slate
340.0	347.8	7.8	6.24	24.19			Top of green slate @ 347.8 ft.
Total		77.8	6.03	25.27			Core recovery - 97.3%
347.8	350.0	2.2	4.64	13.71			
350.0	360.0	10.0	2.12	10.00			Green slate
360.0	370.0	10.0	4.44	6.69			
Total		22.2	1.61	8.87			Core recovery - 90.5%
370.0	380.0						Green slate
Total Core Sampled		365.0					Core recovery - 87.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 17

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.0						Overburden
4.0	30.0						Gray-green slate
30.0	40.0	10.0	0.48	5.97			
40.0	44.7	4.7	.32	5.32			
44.7	50.0	5.3	.48	5.00			Bottom of gray-green slate @ 44.7 ft.
50.0	60.0	10.0	.49	5.16			
60.0	70.0	10.0	1.92	8.06			
70.0	80.0	10.0	1.88	8.55			Manganiferous purple and red slate
80.0	90.3	10.3	1.40	5.40			
Total		60.3	1.10	6.38			Core recovery - 99.3%
90.3	97.0	6.7	10.64	13.39			Top of manganiferous banded hematite @ 90.3 ft.
97.0	100.0	3.0	10.96	13.47			Manganiferous
100.0	110.0	10.0	12.92	21.29			
110.0	120.0	10.0	11.76	25.81			banded
120.0	130.0	10.0	7.76	16.77			
130.0	140.0	10.0	10.08	15.00			hematite
140.0	150.0	10.0	9.84	19.11			
150.0	160.0	10.0	10.12	27.18			Fault (?) @ 149 ft.
160.0	170.0	10.0	13.84	28.23			
170.0	176.8	6.8	13.72	30.89			
176.8	183.0	6.2	10.52	27.58	11.52	28.83	
Total		92.7			11.13	22.14	Core recovery - 95.3%
183.0	192.0	9.0	8.64	26.61	8.76	26.38	Bottom of manganiferous banded hematite @ 223.0 ft.
192.0	202.0	10.0	8.88	29.52	9.46	28.56	Manganiferous interbedded
202.0	213.7	11.7	10.28	24.19	9.17	28.94	hematitic and
213.7	223.0	9.3	8.52	26.94	8.13	28.83	green slate
223.0	236.0	13.0	4.80	22.66	4.21	24.37	
236.0	245.0	9.0	6.28	29.44	5.55	25.86	Top of green slate @ 245.0 ft.
245.0	251.8	6.8	8.40	18.87	7.11	20.99	
Total		68.8			7.40	26.48	Core recovery - 45.1%
251.8	260.5	8.7	0.76	5.97	0.97	8.09	Green slate Core recovery - 41.4%
260.5	283.0						Green slate
Total Core Sampled		230.5					Core recovery - 79.3%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 18

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
		Mn	Fe	Mn	Fe		
0.0	5.0					Overburden	
5.0	10.0	5.0	12.48	26.29			
10.0	20.0	10.0	4.12	15.00			
20.0	30.0	10.0	7.40	14.19		Manganiferous	
30.0	40.0	10.0	4.61	8.87		purple	
40.0	48.2	8.2	2.08	8.88		and red slate	
Total	43.2	5.57	13.54			Core recovery - 96.1%	
48.2	50.0	1.8	10.20	24.19			
50.0	60.0	10.0	11.36	22.74	10.64	22.98	Top of manganiferous banded hematite @ 48.2 ft.
60.0	70.0	10.0	15.32	24.19			
70.0	75.4	5.4	8.84	25.97		Manganiferous	
75.4	85.3	9.9	7.60	18.23	8.77	23.92	banded
85.3	90.1	4.8	14.16	22.58			
90.1	93.0	2.0	12.00	28.23			
93.0	100.2	7.2	10.40	29.36	9.80	29.02	hematite
100.2	110.8	10.6	9.76	23.39	10.86	23.23	
110.8	121.7	10.9	9.52	26.29	8.20	29.96	
121.7	130.0	8.3	12.20	28.71			
130.0	140.0	10.0	8.40	28.23			
140.0	149.2	9.2	13.12	20.48			Bottom of manganiferous banded hematite @ 149.2 ft.
Total	101.0				10.85	25.48	Core recovery - 87.2%
149.2	160.0	10.8	4.60	16.13			
160.0	170.0	10.0	3.24	12.42			Manganiferous
170.0	180.0	10.0	4.80	14.84			interbedded
180.0	190.0	10.0	4.88	26.53			
190.0	200.0	10.0	5.28	25.32			hematitic
200.0	210.0	10.0	3.80	12.42			
210.0	220.0	10.0	5.96	12.41			and green slate
220.0	232.4	12.4	9.72	15.97			
232.4	238.0	5.6	7.56	19.84			
238.0	250.0	12.0	7.48	20.97			
250.0	252.6	2.6	8.92	20.32			Top of green slate @ 252.6 ft.
Total	103.4	5.85	17.67				Core recovery - 98.9%
252.6	260.0	7.4	1.60	8.30			
260.0	270.0	10.0	.52	7.26			Green slate
Total	17.4	0.98	7.70				Core recovery - 98.9%
270.0	298.0						Green slate
Total Core Sampled	265.0						Core recovery - 94.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 19

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
		Mn	Fe	Mn	Fe		
0.0	8.0					Overburden	
8.0	60.0					Gray - green slate	
60.0	65.0	5.0	0.88	4.80		Gray - green slate Core recovery - 100.0%	
65.0	70.0	5.0	2.64	8.48		Bottom of gray - green slate @ 65.0 ft.	
70.0	80.0	10.0	1.44	6.88			
80.0	90.0	10.0	3.00	8.56		Manganiferous purple and red slate (partially recrystallized)	
90.0	100.0	10.0	3.84	8.00			
100.0	110.0	10.0	4.64	10.40			
110.0	113.5	3.5	4.40	13.28			
113.5	118.6	5.1	4.48	11.20			
Total	53.6	3.37	9.04			Core recovery - 99.4%	
118.6	131.6	13.0	8.88	12.13	8.11	13.95	
131.6	140.0	8.4	2.20	7.82			
140.0	150.0	10.0	6.16	21.63			
150.0	152.0	2.0	5.72	15.16			
152.0	160.0	8.0	10.08	29.53			Top of manganiferous banded hematite @ 152.0 ft.
160.0	170.0	10.0	8.08	23.62			
170.0	180.0	10.0	9.04	22.66			Manganiferous banded hematite (partially recrystallized)
180.0	190.0	10.0	9.00	27.29			
190.0	195.5	5.5	12.04	18.67			
195.5	200.0	4.5	5.60	16.36			Bottom of manganiferous banded hematite @ 195.5 ft.
Total	81.4				7.74	20.17	Core recovery - 94.3%
200.0	210.0	10.0	3.20	12.13			Manganiferous interbedded hematitic and green slate (partially recrystallized)
210.0	214.9	4.9	4.84	22.26			
214.9	220.0	5.1	3.68	11.89			
220.0	230.0	10.0	3.36	15.80	3.96	17.80	Top of green slate @ 214.9 ft.
Total	30.0				3.80	15.63	Core recovery - 91.7%
230.0	275.0						Green slate
Total Core Sampled	170.0						Core recovery - 95.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 20							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	180.0						Gray-green slate
180.0	190.0	10.0	0.84	5.00			
190.0	192.7	2.7	.88	4.84			
192.7	200.0	7.3	4.12	8.06			
200.0	210.0	10.0	4.32	9.52			Bottom of gray-green slate @ 194.5 ft.
210.0	220.0	10.0	3.60	7.74			Manganiferous purple and red slate (partially recrystallized)
Total		40.0	3.00	7.36			Core recovery - 100.0%
220.0	230.0	10.0	8.88	11.94			
230.0	240.0	10.0	9.40	17.42			Top of manganiferous banded hematite
240.0	250.0	10.0	4.48	13.71			
250.0	260.0	10.0	3.80	14.84			Manganiferous banded hematite (partially recrystallized)
260.0	270.0	10.0	4.92	13.71			
270.0	280.0	10.0	4.52	18.06			Bottom of manganiferous banded hematite @ 254.7 ft.
280.0	290.0	10.0	5.40	13.39			
290.0	301.0	11.0	7.60	15.48			Manganiferous interbedded hematite & green slate (partially recrystallized)
Total		81.0	6.14	14.83			Core recovery - 100.0%
301.0	310.0	9.0	0.72	6.45			
310.0	320.0	10.0	.76	6.13			Top of green slate @ 301.0 ft. Green slate
Total		19.0	0.74	6.28			Core recovery - 100.0%
320.0	359.0						Green slate
Total Core Sampled		140.0					Core recovery - 100.0%

Diamond Drill Hole 21							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	100.0						Gray-green slate
100.0	110.0	10.0	0.64	5.03			
110.0	120.0	10.0	.92	5.68			Gray-green slate Bottom of gray-green slate @ 106.0 ft.
Total		20.0	0.78	5.36			Core recovery - 100.0%
120.0	130.0	10.0	2.08	5.85			
130.0	140.0	10.0	3.43	8.69			
140.0	150.0	10.0	6.31	17.54			Manganiferous
150.0	160.0	10.0	4.40	12.98			
160.0	170.0	10.0	1.15	5.60			purple
170.0	180.0	10.0	1.12	5.36			
180.0	190.0	10.0	1.95	8.28			
190.0	200.0	10.0	.96	5.35			and
200.0	210.0	10.0	.95	5.20			
210.0	220.0	10.0	1.08	7.15			red slate
220.0	230.0	10.0	.84	5.68			
230.0	240.0	10.0	.63	5.52			(partially recrystallized)
240.0	250.0	10.0	3.71	6.82			
250.0	260.0	10.0	2.48	6.50			
260.0	270.0	10.0	2.47	6.51			
270.0	280.0	10.0	4.75	9.74			
280.0	290.0	10.0	4.43	10.23			
Total		170.0	2.51	7.82			Core recovery - 99.5%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 20							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	180.0						Gray-green slate
180.0	190.0	10.0	0.84	5.00			
190.0	192.7	2.7	.88	4.84			
192.7	200.0	7.3	4.12	8.06			
200.0	210.0	10.0	4.32	9.52			Bottom of gray-green slate @ 194.5 ft.
210.0	220.0	10.0	3.60	7.74			Manganiferous purple and red slate (partially recrystallized)
Total		40.0	3.00	7.36			Core recovery - 100.0%
220.0	230.0	10.0	8.88	11.94			
230.0	240.0	10.0	9.40	17.42			Top of manganiferous banded hematite
240.0	250.0	10.0	4.48	13.71			
250.0	260.0	10.0	3.80	14.84			Manganiferous banded hematite (partially recrystallized)
260.0	270.0	10.0	4.92	13.71			
270.0	280.0	10.0	4.52	18.06			Bottom of manganiferous banded hematite @ 254.7 ft.
280.0	290.0	10.0	5.40	13.39			
290.0	301.0	11.0	7.60	15.48			Manganiferous interbedded hematite & green slate (partially recrystallized)
Total		81.0	6.14	14.83			Core recovery - 100.0%
301.0	310.0	9.0	0.72	6.45			
310.0	320.0	10.0	.76	6.13			Top of green slate @ 301.0 ft. Green slate
Total		19.0	0.74	6.28			Core recovery - 100.0%
320.0	359.0						Green slate
Total Core Sampled		140.0					Core recovery - 100.0%

Diamond Drill Hole 21							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	100.0						Gray-green slate
100.0	110.0	10.0	0.64	5.03			
110.0	120.0	10.0	.92	5.68			Gray-green slate Bottom of gray-green slate @ 106.0 ft.
Total		20.0	0.78	5.36			Core recovery - 100.0%
120.0	130.0	10.0	2.08	5.85			
130.0	140.0	10.0	3.43	8.69			
140.0	150.0	10.0	6.31	17.54			Manganiferous
150.0	160.0	10.0	4.40	12.98			
160.0	170.0	10.0	1.15	5.60			purple
170.0	180.0	10.0	1.12	5.36			
180.0	190.0	10.0	1.95	8.28			
190.0	200.0	10.0	.96	5.35			and
200.0	210.0	10.0	.95	5.20			
210.0	220.0	10.0	1.08	7.15			red slate
220.0	230.0	10.0	.84	5.68			
230.0	240.0	10.0	.63	5.52			(partially recrystallized)
240.0	250.0	10.0	3.71	6.82			
250.0	260.0	10.0	2.48	6.50			
260.0	270.0	10.0	2.47	6.51			
270.0	280.0	10.0	4.75	9.74			
280.0	290.0	10.0	4.43	10.23			
Total		170.0	2.51	7.82			Core recovery - 99.5%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 21 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
290.0	300.0	10.0	5.16	11.45			Top of manganiferous banded hematite @ 297.8 ft. ; bottom @ 311 ft. (Zone partially recrystallized)
300.0	313.3	13.3	7.67	16.00			
Total		23.3	6.85	14.01			Core recovery - 97.0%
313.3	320.0	6.7	1.08	6.58			Manganiferous interbedded hematite & green slate (partially recrystallized). Top of green slate @ 315.8'
320.0	330.0	10.0	.64	5.68			
Total		16.7	0.82	6.04			Core recovery - 98.2%
Total Core Sampled		230.0					Core recovery - 99.2%

Diamond Drill Hole 22

Footage From-	Footage To	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
			Mn	Fe	Mn	Fe		
0.0	8.0						Overburden	
8.0	10.0	2.0	0.72	8.06			Bottom of gray-green slate @ 10 ft. Manganiferous purple & red slate (partially re- crystallized)	
10.0	20.0	10.0	1.28	8.22				
Total		12.0	1.19	8.19			Core recovery - 48.3%	
20.0	30.0	10.0	8.32	11.29			Manganiferous purple and red slate (partially re- crystallized)	
30.0	40.0	10.0	4.24	14.43				
40.0	50.0	10.0	6.80	11.94			Top of manganiferous banded hematite @ 59.2 ft.	
50.0	59.2	9.2	4.32	13.55				
Total		39.2	5.95	12.79			Core recovery - 97.2%	
59.2	70.0	10.8	10.40	27.66			Manganiferous banded hematite (partially recrystallized)	
70.0	80.0	10.0	10.41	26.37				
80.0	90.0	10.0	10.20	26.53				
Total		30.8	10.34	26.87			Core recovery - 99.4%	
90.0	100.0	10.0	8.12	20.16			Manganiferous banded hematite (partially recrystallized)	
100.0	110.0	10.0	9.68	26.45				
110.0	120.0	10.0	10.60	21.29				
Total		30.0	9.46	22.63			Core recovery - 100.0%	
120.0	130.0	10.0	3.48	11.29			Bottom of manganiferous banded hematite @ 120 ft. Manganiferous interbedded hematitic and green slate (partially recrystallized)	
130.0	140.0	10.0	2.72	11.28				
140.0	150.0	10.0	4.84	18.71			Top of green slate @ 207.0 ft.	
150.0	160.0	10.0	3.00	13.39				
160.0	170.0	10.0	7.68	20.00				
170.0	180.0	10.0	8.72	16.53				
180.0	190.0	10.0	6.80	16.13				
190.0	200.0	10.0	7.64	17.90				
200.0	207.0	7.0	5.44	14.35				
207.0	210.0	3.0	6.12	16.94				
210.0	220.0	10.0	5.00	15.00				
Total		100.0	5.55	15.53				Core recovery - 98.9%
220.0	229.0	9.0	1.40	5.08				Green slate
Total Core Sampled		221.0						Core recovery - 95.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 21 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
290.0	300.0	10.0	5.16	11.45			Top of manganiferous banded hematite @ 297.8 ft. ; bottom @ 311 ft. (Zone partially recrystallized)
300.0	313.3	13.3	7.67	16.00			
Total		23.3	6.85	14.01			Core recovery - 97.0%
313.3	320.0	6.7	1.08	6.58			Manganiferous interbedded hematite & green slate (partially recrystallized). Top of green slate @ 315.8'
320.0	330.0	10.0	.64	5.68			
Total		16.7	0.82	6.04			Core recovery - 98.2%
Total Core Sampled		230.0					Core recovery - 99.2%

Diamond Drill Hole 22

Footage From-	Footage To	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
			Mn	Fe	Mn	Fe		
0.0	8.0						Overburden	
8.0	10.0	2.0	0.72	8.06			Bottom of gray-green slate @ 10 ft. Manganiferous purple & red slate (partially re- crystallized)	
10.0	20.0	10.0	1.28	8.22				
Total		12.0	1.19	8.19			Core recovery - 48.3%	
20.0	30.0	10.0	8.32	11.29			Manganiferous purple and red slate (partially re- crystallized)	
30.0	40.0	10.0	4.24	14.43				
40.0	50.0	10.0	6.80	11.94			Top of manganiferous banded hematite @ 59.2 ft.	
50.0	59.2	9.2	4.32	13.55				
Total		39.2	5.95	12.79			Core recovery - 97.2%	
59.2	70.0	10.8	10.40	27.66			Manganiferous banded hematite (partially recrystallized)	
70.0	80.0	10.0	10.41	26.37				
80.0	90.0	10.0	10.20	26.53				
Total		30.8	10.34	26.87			Core recovery - 99.4%	
90.0	100.0	10.0	8.12	20.16			Manganiferous banded hematite (partially recrystallized)	
100.0	110.0	10.0	9.68	26.45				
110.0	120.0	10.0	10.60	21.29				
Total		30.0	9.46	22.63			Core recovery - 100.0%	
120.0	130.0	10.0	3.48	11.29			Bottom of manganiferous banded hematite @ 120 ft. Manganiferous interbedded hematitic and green slate (partially recrystallized)	
130.0	140.0	10.0	2.72	11.28				
140.0	150.0	10.0	4.84	18.71			Top of green slate @ 207.0 ft.	
150.0	160.0	10.0	3.00	13.39				
160.0	170.0	10.0	7.68	20.00				
170.0	180.0	10.0	8.72	16.53				
180.0	190.0	10.0	6.80	16.13				
190.0	200.0	10.0	7.64	17.90				
200.0	207.0	7.0	5.44	14.35				
207.0	210.0	3.0	6.12	16.94				
210.0	220.0	10.0	5.00	15.00				
Total		100.0	5.55	15.53				Core recovery - 98.9%
220.0	229.0	9.0	1.40	5.08				Green slate
Total Core Sampled		221.0						Core recovery - 95.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 23

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	130.0						Gray-green slate
130.0	141.0	11.0	0.64	4.55	0.55	5.14	
141.0	150.0	9.0	3.23	8.12			
150.0	160.0	10.0	1.40	7.06			Bottom of gray-green slate @ 141.0 ft.
160.0	165.0	5.0	4.75	7.15			Manganiferous purple and red slate (partially recrystallized)
Total		35.0			2.08	6.74	Core recovery - 91.1%
165.0	170.0	5.0	10.80	13.32			
170.0	180.0	10.0	6.20	16.56			
180.0	190.0	10.0	5.12	10.88			Manganiferous purple and red slate (partially recrystallized)
190.0	200.0	10.0	2.31	7.80			
200.0	210.0	10.0	6.95	9.74			
210.0	220.0	10.0	6.39	15.10			Top of manganiferous banded hematite @ 210.0 ft.
Total		55.0	5.89	12.13			Core recovery - 98.2%
220.0	230.0	10.0	10.40	24.36			Manganiferous banded hematite (partially recrystallized)
230.0	240.0	10.0	4.80	17.86			
240.0	250.0	10.0	2.60	10.09			
250.0	261.0	11.0	4.68	16.93			Bottom of manganiferous banded hematite @ 261.0 ft.
261.0	270.0	9.0	4.88	25.07			Manganiferous interbedded hematitic and green slate (partially recrystallized)
270.0	275.0	5.0	12.56	21.98			
275.0	285.0	10.0	6.24	29.14			
285.0	290.0	5.0	5.52	26.37	6.05	24.28	
Total		60.0			5.41	20.23	Core recovery - 94.3%
Total Core sampled		160.0					Core recovery - 95.3%

Diamond Drill Hole 24

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	16.0						Overburden
16.0	570.0						Gray-green slate
570.0	580.0	10.0	0.68	5.00			
580.0	585.0	5.0	1.08	4.52			
585.0	590.0	5.0	1.40	6.61			Bottom of gray-green slate @ 585.0 ft.
590.0	600.0	10.0	1.43	9.68			Manganiferous purple and red slate
600.0	610.0	10.0	2.20	5.97			
610.0	620.0	10.0	1.00	6.45			
620.0	630.0	10.0	1.20	6.61			
630.0	640.0	10.0	1.28	7.18			
640.0	650.0	10.0	4.20	8.06			
Total		80.0	1.65	6.81			Core recovery - 97.1%
650.0	660.0	10.0	9.60	26.45	8.88	23.79	
660.0	670.0	10.0	5.38	28.87			
670.0	680.0	10.0	8.47	18.47			Manganiferous purple and red slate
680.0	690.0	10.0	9.08	26.85	7.70	26.27	
690.0	700.0	10.0	3.46	13.95			Top of manganiferous banded hematite @ 700.5 ft.
700.0	705.5	5.5	5.60	35.97			
705.5	710.0	4.5	8.04	31.37			
710.0	720.0	10.0	12.28	24.27			
720.0	730.0	10.0	3.84	22.34			
Total		80.0			7.09	23.98	Core recovery - 90.1%
730.0	740.0	10.0	11.68	25.00			
740.0	750.0	10.0	12.75	23.63			
750.0	760.0	10.0	12.12	27.90			Manganiferous banded Hematite
760.0	770.0	10.0	6.80	21.94			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 23

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	130.0						Gray-green slate
130.0	141.0	11.0	0.64	4.55	0.55	5.14	
141.0	150.0	9.0	3.23	8.12			
150.0	160.0	10.0	1.40	7.06			Bottom of gray-green slate @ 141.0 ft.
160.0	165.0	5.0	4.75	7.15			Manganiferous purple and red slate (partially recrystallized)
Total		35.0			2.08	6.74	Core recovery - 91.1%
165.0	170.0	5.0	10.80	13.32			
170.0	180.0	10.0	6.20	16.56			
180.0	190.0	10.0	5.12	10.88			Manganiferous purple and red slate (partially recrystallized)
190.0	200.0	10.0	2.31	7.80			
200.0	210.0	10.0	6.95	9.74			
210.0	220.0	10.0	6.39	15.10			Top of manganiferous banded hematite @ 210.0 ft.
Total		55.0	5.89	12.13			Core recovery - 98.2%
220.0	230.0	10.0	10.40	24.36			Manganiferous banded hematite (partially recrystallized)
230.0	240.0	10.0	4.80	17.86			Core recovery - 100.0%
240.0	250.0	10.0	2.60	10.09			
250.0	261.0	11.0	4.68	16.93			Bottom of manganiferous banded hematite @ 261.0 ft.
261.0	270.0	9.0	4.88	25.07			Manganiferous interbedded hematitic and green slate (partially recrystallized)
270.0	275.0	5.0	12.56	21.98			
275.0	285.0	10.0	6.24	29.14			
285.0	290.0	5.0	5.52	26.37	6.05	24.28	
Total		60.0			5.41	20.23	Core recovery - 94.3%
Total Core sampled	160.0						Core recovery - 95.3%

Diamond Drill Hole 24

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	16.0						Overburden
16.0	570.0						Gray-green slate
570.0	580.0	10.0	0.68	5.00			
580.0	585.0	5.0	1.08	4.52			
585.0	590.0	5.0	1.40	6.61			Bottom of gray-green slate @ 585.0 ft.
590.0	600.0	10.0	1.43	9.68			Manganiferous purple and red slate
600.0	610.0	10.0	2.20	5.97			
610.0	620.0	10.0	1.00	6.45			
620.0	630.0	10.0	1.20	6.61			
630.0	640.0	10.0	1.28	7.18			
640.0	650.0	10.0	4.20	8.06			
Total		80.0	1.65	6.81			Core recovery - 97.1%
650.0	660.0	10.0	9.60	26.45	8.88	23.79	
660.0	670.0	10.0	5.38	28.87			
670.0	680.0	10.0	8.47	18.47			Manganiferous purple and red slate
680.0	690.0	10.0	9.08	26.85	7.70	26.27	Top of manganiferous banded hematite @ 700.5 ft.
690.0	700.0	10.0	3.46	13.95			
700.0	705.5	5.5	5.60	35.97			
705.5	710.0	4.5	8.04	31.37			
710.0	720.0	10.0	12.28	24.27			
720.0	730.0	10.0	3.84	22.34			
Total		80.0			7.09	23.98	Core recovery - 90.1%
730.0	740.0	10.0	11.68	25.00			
740.0	750.0	10.0	12.75	23.63			
750.0	760.0	10.0	12.12	27.90			Manganiferous banded Hematite
760.0	770.0	10.0	6.80	21.94			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 24 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
770.0	780.0	10.0	10.20	32.50	12.05	29.45	
780.0	790.0	10.0	13.51	20.24	15.82	19.21	
790.0	800.0	10.0	13.67	26.00			
800.0	810.0	10.0	11.15	25.03	11.33	24.09	
810.0	820.0	10.0	8.56	22.93	14.80	23.77	
820.0	830.0	10.0	10.55	33.11	12.24	28.28	
830.0	840.0	10.0	12.68	29.07			
840.0	848.1	8.1	8.67	26.49			Top of manganiferous banded hematite @ 848.1 ft. repeated by overturning
Total		118.1			12.11	25.39	Core recovery - 76.7%
848.1	860.0	11.9	1.72	9.37			Manganiferous purple and red slate
860.0	870.0	10.0	2.28	9.21			
Total		21.9	1.97	9.29			Core recovery - 96.8%
870.0	880.0	10.0	6.11	6.46	6.60	15.26	Manganiferous purple and red slate
880.0	890.0	10.0	9.15	13.97			
890.0	900.0	10.0	9.20	33.91			
Total		30.0			8.32	21.05	Core recovery - 88.7%
900.0	910.0	10.0	1.80	21.72			
910.0	920.0	10.0	1.48	14.37			
920.0	930.0	10.0	1.81	12.60			
930.0	940.0	10.0	2.20	9.04			
940.0	950.0	10.0	1.79	6.30			
950.0	960.0	10.0	1.52	8.72			
960.0	969.3	9.3	2.80	7.59			Top of manganiferous banded hematite @ 969.3 ft.
Total		69.3	1.91	11.52			Core recovery - 97.3%
969.3	980.0	10.7	10.00	23.34			Manganiferous banded hematite
980.0	990.0	10.0	6.00	21.40			
990.0	1000.0	10.0	12.63	28.83			
1000.0	1010.0	10.0	16.56	32.14			
1010.0	1020.0	10.0	19.75	23.90			
1020.0	1030.0	10.0	14.40	31.65			
1030.0	1040.0	10.0	10.28	32.14			
1040.0	1050.0	10.0	9.20	34.64			
1050.0	1060.0	10.0	13.08	26.65			
1060.0	1070.0	10.0	12.60	25.68			
1070.0	1080.0	10.0	14.12	24.71	10.70	26.39	
1080.0	1090.0	10.0	12.20	26.40	11.33	27.02	
1090.0	1100.0	10.0	8.60	24.23			
1100.0	1110.0	10.0	10.00	27.53			
1110.0	1120.0	10.0	11.83	19.94	10.36	24.16	Bottom of manganiferous banded hematite @ 1120.0 ft.
Total		150.7			11.77	27.21	Core recovery - 90.6%
1120.0	1131.3	11.3	1.91	9.12			Manganiferous interbedded hematitic and green slate
1131.3	1140.0	8.7	1.04	5.89			
1140.0	1150.0	10.0	.96	6.62			Top of green slate at 1131.3 ft.
1150.0	1160.0	10.0	.68	5.57			
Total		40.0	1.18	6.90			Core recovery - 94.8%
1160.0	1217.0						Green slate
Total Core Sampled		590.0					Core recovery - 89.8%

TABIE 5 - Analyses of diamond drill cores

Diamond Drill Hole 25

Footage From-	Footage To-	Sample Interval Feet	Core Mn	Assay, % Fe	Combined Core and Sludge Mn	Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	10.0						
10.0	330.0						Overburden Gray-green slate
330.0	340.0	10.0	1.04	5.43			
340.0	350.0	10.0	3.32	6.64			
350.0	355.5	5.5	2.16	5.67			
355.5	360.0	4.5	3.29	8.75			Bottom of gray-green slate @ 355.5 ft.
360.0	370.0	10.0	3.92	6.07			
370.0	380.0	10.0	3.20	7.94			Manganiferous purple and red slate
Total		50.0	2.83	6.63			Core recovery - 92.4%
380.0	390.0	10.0	6.24	8.59			
390.0	400.0	10.0	6.76	13.93	6.56	16.89	Manganiferous purple and red slate
400.0	410.0	10.0	10.60	17.82			
410.0	420.0	10.0	3.64	13.83			
420.0	430.0	10.0	7.68	10.04			
430.0	440.0	10.0	3.44	11.10			
440.0	444.0	4.0	4.08	15.55			Top of manganiferous banded hematite @ 444.0 ft.
Total		64.0			6.22	13.20	Core recovery - 93.8%
444.0	450.0	6.0	12.80	19.44			
450.0	460.0	10.0	8.48	17.98			
460.0	470.0	10.0	14.26	25.11			Manganiferous banded hematite
470.0	480.0	10.0	10.22	25.00			
480.0	490.0	10.0	8.96	25.81	10.30	25.37	
490.0	500.0	10.0	11.92	24.84			
500.0	510.0	10.0	9.08	24.43			
510.0	520.0	10.0	12.20	24.84			
520.0	530.0	10.0	11.96	28.39			
530.0	540.0	10.0	15.56	18.87			
Total		96.0			11.63	23.59	Core recovery - 95.3%
540.0	548.5	8.5	6.80	24.19			Bottom of manganiferous banded hematite @ 548.5 ft.
548.5	560.0	11.5	2.68	12.90			
560.0	570.0	10.0	5.24	18.79			Manganiferous interbedded hematitic and green slate
570.0	580.0	10.0	5.80	25.21			
580.0	590.0	10.0	5.92	17.90			
Total		50.0	5.16	15.86			Core recovery - 99.0%
590.0	600.0	10.0	1.84	6.93			Green slate (belongs to manganiferous interbedded hematitic and green slate unit)
600.0	603.5	3.5	2.68	5.64			Core recovery - 100.0%
Total		13.5	2.06	6.60			
603.5	610.0	6.5	11.96	24.03			Bottom of manganiferous banded hematite @ 603.5 ft. repeated by overturning
610.0	620.0	10.0	10.20	15.00			
620.0	630.0	10.0	11.47	22.10			
630.0	640.0	10.0	13.20	21.77			
640.0	650.0	10.0	11.03	26.77			
650.0	660.0	10.0	12.40	24.19			
660.0	670.0	10.0	9.63	13.39			Manganiferous banded hematite
Total		66.5	11.38	20.88			Core recovery - 100.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 25 (cont'd.)

Footage		Sample Interval Feet	Core Assay, %		Combined core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
670.0	680.0	10.0	4.80	32.26			Manganiferous banded hematite
680.0	691.0	11.0	5.28	32.26			
691.0	700.0	9.0	2.51	6.45			
700.0	703.0	3.0	3.31	6.45			Bottom of manganiferous banded hematite @ 710.0 ft.
703.0	710.0	7.0	4.80	22.58			
Total		40.0	4.31	22.82			Core recovery - 100.0%
710.0	720.0	10.0	10.60	22.74			Manganiferous interbedded hematitic and green slate
720.0	730.0	10.0	10.56	17.74			
730.0	740.0	10.0	9.43	24.68			
740.0	750.0	10.0	10.00	25.81			
750.0	756.5	6.5	8.92	14.19			Core recovery - 100.0%
Total		46.5	9.98	21.55			
756.5	760.0	3.5	2.63	7.90			Top of green slate @ 756.5 ft.
760.0	770.0	10.0	2.87	9.35			Green slate
770.0	780.0	10.0	4.80	10.81			
Total		23.5	3.66	9.76			Core recovery - 100.0%
780.0	821.0						Green slate
Total Core Sampled		450.0					Core recovery - 97.2%

Diamond Drill Hole 26

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
0.0	7.0						Overburden
7.0	145.1						Gray-green slate; bottom of this unit @ 126.4 ft.
145.1	150.0	4.9	5.04	9.60			
150.0	160.0	10.0	1.32	6.29			
160.0	170.0	10.0	2.04	7.42	4.52	10.21	Manganiferous purple and red slate
Total		24.9			3.34	8.52	Core recovery - 72.7%
170.0	180.0	10.0	11.28	18.23	10.66	16.06	Top of manganiferous banded hematite @ 183.4 ft.
180.0	183.4	3.4	7.76	15.48			
183.4	190.0	6.6	15.16	20.73	12.23	20.34	
190.0	200.0	10.0	6.48	16.61	7.52	16.14	
200.0	210.0	10.0	4.48	10.16			
210.0	220.0	10.0	8.96	20.89	9.09	19.48	Manganiferous banded hematite
220.0	225.0	5.0	8.52	21.61			Core recovery - 77.3%
Total		55.0			8.49	16.61	
225.0	235.0	10.0	13.64	22.58	10.92	21.62	Manganiferous banded hematite
235.0	245.0	10.0	9.44	20.65	10.20	21.86	
245.0	250.0	5.0	6.16	14.82			
250.0	260.0	10.0	14.00	24.89			
260.0	270.0	10.0	11.16	27.39			
Total		45.0			10.97	22.93	Core recovery - 84.0%
270.0	280.0	10.0	6.44	18.53			Manganiferous banded hematite
280.0	290.0	10.0	8.32	31.01			
290.0	300.0	10.0	11.72	20.46			
300.0	310.0	10.0	6.80	28.59	8.72	24.97	
310.0	320.0	10.0	7.92	25.46	8.55	22.03	Bottom of manganiferous banded hematite @ 332.0 ft.

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 26 (cont'd.)							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
320.0	332.0	12.0	9.44	29.00	9.46	24.81	
Total		62.0			9.37	23.67	Core recovery - 82.7%
332.0	335.0	3.5	4.64	26.25			Manganiferous interbedded hematitic and green slate Top of green slate @ 355.5 ft. Core recovery - 95.4%
335.0	340.0	4.5	2.80	20.14			
340.0	350.0	10.0	5.32	29.64			
350.0	355.5	5.5	.32	19.73			
355.5	360.0	4.5	3.76	6.60			
Total		28.0	3.60	22.04			
360.0	370.0	10.0	1.04	5.96			Green slate Core recovery - 84.5%
370.0	380.0	10.0	.40	4.83			
Total		20.0	0.72	5.40			
Total Core Sampled		234.9					Core recovery - 82.3%

Diamond Drill Hole 27							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	21.3						
21.3	30.0	8.7	6.68	13.29	4.19	9.25	
30.0	40.0	10.0	9.28	9.02	5.60	12.44	
40.0	50.0	10.0	4.20	10.63	4.49	13.69	Manganiferous purple and red slate
50.0	60.0	10.0	5.43	15.30	6.68	18.57	
60.0	70.0	10.0	11.20	26.58	8.78	25.05	Top of manganiferous banded hematite @ 60.5 ft. Core recovery - 63.9%
Total		48.7			5.99	15.97	
70.0	80.0	10.0	9.60	24.81			Manganiferous banded hematite Bottom of manganiferous banded hematite @ 134.0 ft. Core recovery - 97.2%
80.0	90.0	10.0	9.39	31.09			
90.0	100.0	10.0	11.51	28.62			
100.0	110.0	10.0	10.23	20.94			
110.0	120.0	10.0	12.08	23.39			
120.0	130.0	10.0	14.91	18.93			
Total		60.0	11.29	24.63			
130.0	134.0	4.0	5.60	28.19			Manganiferous interbedded hematitic and green slate Top of green slate @ 227.0 ft.
134.0	140.0	6.0	6.91	11.12			
140.0	150.0	10.0	3.35	12.08			
150.0	160.0	10.0	3.36	15.63	4.22	18.28	
160.0	170.0	10.0	5.20	22.31			
170.0	180.0	10.0	5.64	23.52			
180.0	190.0	10.0	5.83	12.81			
190.0	200.0	10.0	10.52	15.14	11.95	17.59	
200.0	210.0	10.0	7.71	12.56			
210.0	220.0	10.0	7.03	17.96			
220.0	227.0	7.0	7.23	18.04			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 26 (cont'd.)							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
320.0	332.0	12.0	9.44	29.00	9.46	24.81	
Total		62.0			9.37	23.67	Core recovery - 82.7%
332.0	335.0	3.5	4.64	26.25			Manganiferous interbedded hematitic and green slate Top of green slate @ 355.5 ft. Core recovery - 95.4%
335.0	340.0	4.5	2.80	20.14			
340.0	350.0	10.0	5.32	29.64			
350.0	355.5	5.5	.32	19.73			
355.5	360.0	4.5	3.76	6.60			
Total		28.0	3.60	22.04			
360.0	370.0	10.0	1.04	5.96			Green slate Core recovery - 84.5%
370.0	380.0	10.0	.40	4.83			
Total		20.0	0.72	5.40			
Total Core Sampled		234.9					Core recovery - 82.3%

Diamond Drill Hole 27							
Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	21.3						
21.3	30.0	8.7	6.68	13.29	4.19	9.25	
30.0	40.0	10.0	9.28	9.02	5.60	12.44	
40.0	50.0	10.0	4.20	10.63	4.49	13.69	Manganiferous purple and red slate
50.0	60.0	10.0	5.43	15.30	6.68	18.57	
60.0	70.0	10.0	11.20	26.58	8.78	25.05	Top of manganiferous banded hematite @ 60.5 ft. Core recovery - 63.9%
Total		48.7			5.99	15.97	
70.0	80.0	10.0	9.60	24.81			Manganiferous banded hematite Bottom of manganiferous banded hematite @ 134.0 ft. Core recovery - 97.2%
80.0	90.0	10.0	9.39	31.09			
90.0	100.0	10.0	11.51	28.62			
100.0	110.0	10.0	10.23	20.94			
110.0	120.0	10.0	12.08	23.39			
120.0	130.0	10.0	14.91	18.93			
Total		60.0	11.29	24.63			
130.0	134.0	4.0	5.60	28.19			Manganiferous interbedded hematitic and green slate Top of green slate @ 227.0 ft.
134.0	140.0	6.0	6.91	11.12			
140.0	150.0	10.0	3.35	12.08			
150.0	160.0	10.0	3.36	15.63	4.22	18.28	
160.0	170.0	10.0	5.20	22.31			
170.0	180.0	10.0	5.64	23.52			
180.0	190.0	10.0	5.83	12.81			
190.0	200.0	10.0	10.52	15.14	11.95	17.59	
200.0	210.0	10.0	7.71	12.56			
210.0	220.0	10.0	7.03	17.96			
220.0	227.0	7.0	7.23	18.04			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 27 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
227.0	234.0	7.0	5.31	10.47			
Total		104.0			6.36	16.83	Core recovery - 89.9%
234.0	240.0	6.0	1.00	5.16			Green slate
240.0	280.0						Green slate
Total Core Sampled		218.7					Core recovery - 86.4%

Diamond Drill Hole 28

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.0						Overburden
7.0	80.0						Gray-green slate
80.0	90.0	10.0	0.45	5.15			Gray-green slate
90.0	97.5	7.5	.85	4.34			Bottom of gray-green slate @ 97.5 ft.
Total		17.5	0.62	4.80			Core recovery - 100.0%
97.5	100.0	2.5	4.55	10.66			Manganiferous purple and red slate
100.0	110.0	10.0	2.50	7.56			
110.0	120.0	10.0	2.51	6.44			
120.0	130.0	10.0	.75	5.15			
130.0	140.0	10.0	.74	5.79			
140.0	150.0	10.0	.62	4.74	3.04	9.30	
150.0	160.0	10.0	5.34	8.53			
160.0	170.0	10.0	4.88	6.44	5.69	8.78	
170.0	173.2	3.2	1.93	5.47			
Total		75.7			2.95	7.40	
173.2	180.0	6.8	10.74	21.96			Manganiferous purple and red slate
180.0	189.5	9.5	8.31	22.39	6.03	20.17	
189.5	196.5	7.0	3.60	7.09			
Total		23.3			6.67	16.76	Core recovery - 83.3%
196.5	200.0	3.5	11.12	15.79			Manganiferous banded hematite interbeds in manganiferous purple and red slate
200.0	210.0	10.0	12.40	28.19			
Total		13.5	12.07	24.97			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 27 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
227.0	234.0	7.0	5.31	10.47			
Total		104.0			6.36	16.83	Core recovery - 89.9%
234.0	240.0	6.0	1.00	5.16			Green slate
240.0	280.0						Green slate
Total Core Sampled		218.7					Core recovery - 86.4%

Diamond Drill Hole 28

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.0						Overburden
7.0	80.0						Gray-green slate
80.0	90.0	10.0	0.45	5.15			Gray-green slate
90.0	97.5	7.5	.85	4.34			Bottom of gray-green slate @ 97.5 ft.
Total		17.5	0.62	4.80			Core recovery - 100.0%
97.5	100.0	2.5	4.55	10.66			Manganiferous purple and red slate
100.0	110.0	10.0	2.50	7.56			
110.0	120.0	10.0	2.51	6.44			
120.0	130.0	10.0	.75	5.15			
130.0	140.0	10.0	.74	5.79			
140.0	150.0	10.0	.62	4.74	3.04	9.30	
150.0	160.0	10.0	5.34	8.53			
160.0	170.0	10.0	4.88	6.44	5.69	8.78	
170.0	173.2	3.2	1.93	5.47			
Total		75.7			2.95	7.40	
173.2	180.0	6.8	10.74	21.96			Manganiferous purple and red slate
180.0	189.5	9.5	8.31	22.39	6.03	20.17	
189.5	196.5	7.0	3.60	7.09			
Total		23.3			6.67	16.76	Core recovery - 83.3%
196.5	200.0	3.5	11.12	15.79			Manganiferous banded hematite interbeds in manganiferous purple and red slate
200.0	210.0	10.0	12.40	28.19			
Total		13.5	12.07	24.97			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 28 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
210.0	218.0	8.0	5.12	20.78			Manganiferous
218.0	220.0	2.0	1.88	7.41			purple
220.0	230.0	10.0	2.71	6.68	3.16	15.23	and
230.0	240.0	10.0	8.75	12.00	8.01	18.84	red slate
240.0	250.0	10.0	5.95	8.62			
250.0	254.5	4.5	2.03	3.38			Top of manganiferous banded hematite @ 254.0 ft.
254.5	260.0	5.5	2.80	5.07			
260.0	270.0	10.0	8.68	20.62			
Total		60.0			5.45	14.29	Core recovery - 91.2%
270.0	280.0	10.0	10.20	22.23			Manganiferous
280.0	290.0	10.0	11.15	29.00			banded
290.0	300.0	10.0	15.16	23.60			
300.0	310.0	10.0	16.44	25.29			hematite
310.0	320.0	10.0	11.69	29.52			
320.0	330.0	10.0	11.43	21.75			
Total		60.0	12.67	25.23			Core recovery - 90.5%
330.0	340.0	10.0	9.12	23.60	6.67	27.36	Manganiferous
340.0	350.0	10.0	9.80	24.08			banded
350.0	360.0	10.0	9.20	22.80			hematite
360.0	370.0	10.0	8.60	23.68	9.59	26.13	
370.0	380.0	10.0	11.63	15.30			Bottom of manganiferous banded hematite @ 381.0 ft.
Total		50.0			9.38	23.13	Core recovery - 82.4%
380.0	390.0	10.0	2.12	9.10	6.07	17.42	Manganiferous interbedded
390.0	400.0	10.0	6.20	22.04	5.52	22.30	hematitic and
400.0	410.0	10.0	2.40	5.47	6.32	15.30	green slate
410.0	420.0	10.0	11.64	17.86	9.26	20.84	
420.0	429.0	9.0	9.36	20.76			
Total		49.0			7.26	19.29	Core recovery - 55.3%
429.0	440.0	11.0	2.68	8.20			Top of green slate @ 429.0 ft.
440.0	450.0	10.0	1.20	5.15			
450.0	460.0	10.0	1.04	5.47			Green
460.0	468.0	8.0	.64	4.99			slate
Total		39.0	1.46	6.06			Core recovery - 92.8%
Total Core Sampled		388.0					Core recovery - 85.1%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 29

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
0.0-	8.0						Overburden
8.0	230.0						Gray-green slate
230.0	237.7	7.7	0.16	5.70			Bottom of gray-green slate @ 237.7 ft.
237.7	250.0	12.3	1.60	6.30			
250.0	260.0	10.0	2.76	8.25			Manganiferous
260.0	270.0	10.0	1.68	8.47			purple
270.0	280.0	10.0	.56	6.47			and
280.0	290.0	10.0	.68	5.34			red
290.0	300.0	10.0	3.84	6.46			slate
300.0	310.0	10.0	4.72	8.73			
Total		80.0	2.04	6.98			Core recovery - 99.4%
310.0	320.0	10.0	7.48	14.71			Manganiferous
320.0	330.0	10.0	7.20	13.58			
330.0	340.0	10.0	6.96	18.03			purple
340.0	350.0	10.0	2.62	13.42			
350.0	360.0	10.0	6.16	14.39			and
360.0	370.0	10.0	2.88	9.86			
370.0	380.0	10.0	3.24	10.02			red slate
380.0	383.0	3.0	3.56	7.76			
383.0	390.0	7.0	15.44	15.04			Top of manganiferous banded hematite @ 383.0 ft.
390.0	400.0	10.0	13.88	19.24			
400.0	405.0	5.0	10.64	24.58			
405.0	410.0	5.0	2.04	7.11			
410.0	420.0	10.0	2.52	6.63			
420.0	427.6	7.6	1.40	4.28			
427.6	430.0	2.4	1.38	14.07			
Total		120.0	6.04	12.93			Core recovery - 99.0%
430.0	440.0	10.0	10.80	32.82			
440.0	450.0	10.0	11.96	24.98			Manganiferous
450.0	460.0	10.0	8.28	22.23	8.84	20.39	banded
460.0	470.0	10.0	10.32	26.52	10.62	26.92	hematite
470.0	480.0	10.0	10.00	14.23	8.98	22.27	
480.0	490.0	10.0	14.20	16.33	10.92	19.07	
Total		60.0			10.35	24.41	Core recovery - 78.8%
490.0	497.0	7.0	10.44	22.31	6.72	24.19	Bottom of manganiferous banded hematite @ 497.0 ft.
497.0	500.0	3.0	2.24	6.47			Manganiferous
500.0	510.0	10.0	4.00	13.82			interbedded
510.0	520.0	10.0	5.16	14.71			hematitic and
520.0	530.0	10.0	5.64	26.03			green
530.0	540.0	10.0	6.28	18.59			slate
Total		50.0			5.29	18.40	Core recovery - 86.2%
540.0	550.0	10.0	1.00	5.17			Manganiferous
550.0	560.0	10.0	5.20	16.82			interbedded
560.0	570.0	10.0	1.72	9.13			hematitic and
570.0	581.2	11.2	7.80	12.13			green slate
581.2	590.0	8.8	2.84	7.60			Top of green slate at 581.2 ft.
590.0	599.2	9.2	1.96	6.47			
Total		59.2	3.54	9.69			Core recovery - 98.0%
Total Core Sampled		369.2					Core recovery - 93.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 30

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.6						Overburden
6.6	245.0						Gray-green slate
245.0	255.0	10.0	0.80	4.51			
255.0	260.0	5.0	1.51	5.64			
260.0	270.0	10.0	4.83	9.98			Bottom of gray-green slate @ 255.0 ft.
270.0	280.0	10.0	2.71	7.81			Manganiferous
280.0	290.0	10.0	.75	4.99			purple
290.0	300.0	10.0	1.35	6.12			and
300.0	310.0	10.0	1.03	7.09			red slate (partially recrystallized)
310.0	320.0	10.0	2.00	7.73			
Total		75.0	1.90	6.81			Core recovery - 100.0%
320.0	330.0	10.0	5.51	9.58			Manganiferous
330.0	340.0	10.0	7.31	9.42			purple
340.0	350.0	10.0	4.84	10.95			and
350.0	360.0	10.0	4.68	11.43			red slate
360.0	371.0	11.0	5.92	17.72			(partially recrystallized)
Total		51.0	5.66	11.94			Core recovery - 99.0%
371.0	380.0	9.0	2.16	8.08			Manganiferous
380.0	390.0	10.0	3.40	6.85			purple and
390.0	400.0	10.0	4.88	6.60			red slate
400.0	405.0	5.0	1.36	6.43			(partially recrystallized)
405.0	410.0	5.0	1.20	6.36			
410.0	420.0	10.0	1.24	6.35			
Total		49.0	2.60	6.83			Core recovery - 94.5%
420.0	430.0	10.0	4.96	6.83			Manganiferous
430.0	440.0	10.0	5.68	12.08			purple and
440.0	450.0	10.0	3.04	8.54			red slate
450.0	456.3	6.3	3.80	7.09	3.61	9.40	(partially recrystallized)
Total		36.3			4.40	9.71	Core recovery - 90.9%
456.3	460.0	3.7	15.96	14.18			Top of manganiferous banded hematite @ 456.3 ft.
460.0	470.0	10.0	9.32	13.37			
470.0	480.0	10.0	12.08	17.08			
480.0	490.0	10.0	5.80	11.45			
490.0	500.0	10.0	10.44	15.47			Manganiferous banded hematite
500.0	510.0	10.0	13.72	14.98			(partially recrystallized)
Total		53.7	10.66	14.45			Core recovery - 100.0%
510.0	515.5	5.5	9.68	11.12			Bottom of manganiferous banded hematite @ 515.5 ft.
515.5	520.0	4.5	4.28	9.18			Manganiferous
520.0	530.0	10.0	5.12	11.28			
530.0	540.0	10.0	4.80	16.91			interbedded
540.0	550.0	10.0	4.88	14.50			
550.0	560.0	10.0	4.40	10.79			hematitic and
560.0	570.0	10.0	10.00	15.63			
570.0	580.0	10.0	7.88	20.62			green slate
580.0	585.7	5.7	9.00	14.02			(partially recrystallized)
Total		75.7	6.53	14.26			Core recovery - 99.5%
585.7	590.0	4.3	1.32	7.00			Top of green slate @ 585.7 ft.
590.0	600.5	10.5	1.41	7.49			Green slate
600.5	610.0	9.5	0.72	5.54			
610.0	617.3	7.3	1.00	5.05			
Total		31.3	0.94	5.47			Core recovery - 100.0%
Total Core Sampled		372.3					Core recovery - 98.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 31

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.0						Overburden
5.0	10.0	5.0	0.88	4.34			Manganiferous purple and red slate
10.0	20.0	10.0	3.52	3.78			
Total		15.0	1.97	3.96			Core recovery - 90.0%
20.0	30.0	10.0	5.48	8.37			Manganiferous purple and red slate. Partial recrystallization @ 64.8 ft. - 68.4 ft.
30.0	39.4	9.4	7.32	13.35			
39.4	44.5	5.1	14.44	23.41			
44.5	50.0	5.5	2.76	10.46			
50.0	60.0	10.0	5.20	8.20			
60.0	70.0	10.0	4.56	8.49	4.36	10.51	
70.0	75.0	5.0	11.16	18.66			Top of manganiferous banded hematite @ 75.5 ft. Recrystallized magnetite- chlorite rock @ 75.5 - 95.0 ft.
75.0	80.0	5.0	8.64	21.24			
80.0	90.0	10.0	11.80	31.53			
90.0	95.0	5.0	2.88	8.20			
95.0	100.0	5.0	8.64	22.04			
100.0	110.0	10.0	12.84	25.26	11.70	26.63	
110.0	120.0	10.0	3.04	19.47			
Total		100.0			7.30	17.00	Core recovery - 88.4%
120.0	130.0	10.0	16.20	14.64	13.68	21.91	Manganiferous banded hematite Bottom of manganiferous banded hematite @ 141.7 ft.
130.0	141.7	11.7	12.43	25.10	9.18	24.67	
141.7	150.0	8.3	12.56	27.35			
Total		30.0			11.62	24.49	Core recovery - 54.0%
150.0	160.0	10.0	5.08	17.05			Manganiferous Interbedded hematitic and green slate
160.0	168.7	8.7	5.67	23.33			
168.7	173.9	5.2	1.64	5.95			
173.9	180.0	6.1	8.87	17.30			
180.0	185.0	5.0	10.00	19.63			
185.0	190.0	5.0	9.80	14.88			
190.0	200.0	10.0	5.36	16.25			Recrystallized magnetite-chlorite rock @ 185' - 207.0'
200.0	207.0	7.0	10.51	20.11			
Total		57.0	6.92	17.29			Core recovery - 97.5%
207.0	212.0	5.0	3.00	10.14			Top of green slate @ 207.0 ft. Green slate
212.0	220.0	8.0	2.71	6.44			
Total		13.0	2.82	7.86			Core recovery - 92.3%
220.0	254.0						Green slate
Total Core Sampled		215.0					Core recovery - 86.4%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 32

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
		Mn	Fe	Mn	Fe	
0.0 9.0						Overburden
9.0 150.0						Gray-green slate
150.0 159.0	9.0	0.43	6.14			Bottom of gray-green slate @ 159.0 ft.
159.0 160.0	1.0	.40	11.16			
160.0 170.0	10.0	.48	5.82			Manganiferous
170.0 180.0	10.0	.56	5.42			
180.0 190.0	10.0	.41	4.85			purple
190.0 200.0	10.0	2.72	9.70			
200.0 210.0	10.0	2.68	8.89			and
210.0 220.0	10.0	1.00	5.98			
220.0 230.0	10.0	2.51	12.94			red
230.0 240.0	10.0	2.28	11.15	2.41	14.17	
240.0 250.0	10.0	2.40	7.19			slate
Total	100.0			1.56	8.16	Core recovery - 95.6%
250.0 260.0	10.0	12.68	11.96			
260.0 270.0	10.0	9.16	17.30			Manganiferous purple and
270.0 280.0	10.0	11.92	24.09			
280.0 290.0	10.0	10.84	21.83	8.71	19.14	red slate
290.0 300.0	10.0	3.96	15.52	5.50	19.91	
300.0 312.0	12.0	9.20	13.02			Top of manganiferous banded
312.0 317.5	5.5	1.84	10.10			hematite @ 317.5 ft.
317.5 330.0	12.5	7.80	21.34			
330.0 335.6	5.6	8.00	29.11			
335.6 350.0	14.4	13.68	27.49	13.42	26.04	Manganiferous banded
350.0 355.7	5.7	11.44	29.43			hematite
355.7 360.0	4.3	10.12	36.87			
360.0 365.0	5.0	19.16	17.14			Recrystallized magnetite-
365.0 370.0	5.0	13.32	29.91			chlorite rock @ 355.7'-382.0'
370.0 379.5	9.5	11.16	27.49			
379.5 382.0	2.5	10.08	31.69			
382.0 390.0	8.0	9.12	25.98			
390.0 400.0	10.0	11.48	24.38			Bottom of manganiferous
400.0 410.0	10.0	10.48	26.63			banded hematite @ 410.0 ft.
Total	160.0			10.19	22.26	Core recovery - 81.5%
410.0 420.0	10.0	4.52	23.01	5.75	24.48	
420.0 430.0	10.0	4.44	27.19			Manganiferous interbedded
430.0 440.0	10.0	5.32	26.39	5.22	27.42	hematitic and green
Total	30.0			5.14	26.46	slate
Total	30.0			5.14	26.46	Core recovery - 67.0%
440.0 449.0	9.0	4.80	28.56	4.39	21.23	Top of green slate @ 449.0 ft.
449.0 460.0	11.0	.60	8.04	2.17	13.72	
460.0 470.0	10.0	1.92	4.83	2.06	10.97	Green slate
470.0 480.0	10.0	1.60	6.44			
480.0 485.6	5.6	1.44	6.27			
Total	45.6			2.37	12.09	Core recovery - 55.5%
Total Core Sampled	335.6					Core recovery - 80.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 33

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
			Mn	Fe	Mn	Fe		
0.0	20.8						Overburden Gray-green slate Gray-green slate Bottom of gray-green slate @ 1106.0 ft.	
20.8	1100.0							
1100.0	1106.0	6.0	0.72	4.58				
1106.0	1110.0	4.0	.80	5.30				
Total		10.0	0.75	4.87			Core recovery - 97.0%	
1110.0	1120.0	10.0	3.28	7.39			Manganiferous purple and red slate	
1120.0	1130.0	10.0	3.00	7.87				
1130.0	1140.0	10.0	1.31	6.02				
1140.0	1150.0	10.0	4.35	8.18				
1150.0	1160.0	10.0	.87	3.53				
1160.0	1170.0	10.0	2.03	7.14				
1170.0	1180.0	10.0	2.83	6.74				
Total		70.0	2.52	6.69				Core recovery - 99.0%
1180.0	1190.0	10.0	6.35	6.26				Manganiferous purple and red slate
1190.0	1200.0	10.0	6.51	8.17				
1200.0	1210.0	10.0	5.68	14.12				
1210.0	1220.0	10.0	5.36	11.20				
1220.0	1230.0	10.0	8.67	12.60				
Total		50.0	6.51	11.07			Core recovery - 99.2%	
1230.0	1240.0	10.0	1.24	10.03			Manganiferous purple and red slate	
1240.0	1250.0	10.0	1.60	8.26				
1250.0	1260.0	10.0	3.32	11.71				
Total		30.0	2.05	10.00			Core recovery - 100.0%	
1260.0	1270.0	10.0	6.28	12.68			Manganiferous purple and red slate	
1270.0	1280.0	10.0	8.40	13.32				
1280.0	1290.0	10.0	4.75	5.29				
1290.0	1300.0	10.0	8.04	12.84				
1300.0	1310.0	10.0	5.51	8.26				
1310.0	1320.0	10.0	3.40	8.98				
Total		60.0	6.06	10.23				Core recovery - 99.7%
1320.0	1330.0	10.0	1.52	5.37				Manganiferous purple and red slate
1330.0	1340.0	10.0	1.32	7.70				
1340.0	1350.0	10.0	1.51	4.57				
1350.0	1360.0	10.0	3.03	9.95				
Total		40.0	1.85	6.90			Core recovery - 98.3%	
1360.0	1370.0	10.0	8.67	12.76			Manganiferous purple and red slate	
1370.0	1380.2	10.2	4.12	8.34				
Total		20.2	6.37	10.53			Core recovery - 98.5%	
1380.2	1390.0	9.8	11.72	17.17			Top of manganiferous banded hematite @ 1380.2' Manganiferous banded hematite	
1390.0	1400.0	10.0	10.84	13.48				
1400.0	1410.0	10.0	6.24	13.35				
1410.0	1420.0	10.0	14.00	18.07				
1420.0	1430.0	10.0	11.32	27.35				
1430.0	1436.7	6.7	11.32	26.78				
Total		56.5	10.88	18.94				Core recovery - 94.0%
Total Core Sampled		336.7						Core recovery - 98.2%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 34

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.0						Overburden
5.0	170.0						Gray-green slate
170.0	180.0	10.0	0.44	5.00			
180.0	187.4	7.4	.72	5.00			Gray-green slate
Total		17.4	0.56	5.00			Core recovery - 100.0%
187.4	200.0	12.6	6.76	11.06			Bottom of gray-green slate @ 187.4 ft.
200.0	210.0	10.0	9.76	10.82			Manganiferous
210.0	220.0	10.0	6.04	12.11			
220.0	235.3	15.3	4.96	11.79			purple and
235.3	240.0	4.7	2.32	6.78			
240.0	250.0	10.0	5.80	9.37			red slate
250.0	260.0	10.0	6.00	9.53			
260.0	267.4	7.4	3.24	9.77			
267.4	270.0	2.6	6.72	16.31			(Rocks become magnetic below 250 ft.)
270.0	280.0	10.0	6.08	12.76			
280.0	290.0	10.0	5.96	11.30			Between 235.4 ft. through 267.4 ft. a
290.0	300.0	10.0	7.00	10.34			zone of undifferentiated green and
300.0	309.1	9.1	6.24	10.17			hematitic slate
Total		121.7	6.05	10.85			Core recovery - 97.7%
309.1	320.0	10.9	0.80	5.49			
320.0	330.0	10.0	.52	5.58			Gray-green slate
330.0	340.0	10.0	.56	5.42			
340.0	350.0	10.0	.44	5.09			
350.0	360.0	10.0	.52	4.77			
360.0	362.6	2.6	.80	5.34			
Total		53.5	0.59	5.28			Core recovery - 97.2%
362.6	370.0	7.4	7.96	11.16			Manganiferous purple and
370.0	375.7	5.7	6.84	14.55			red slate (?)
Total		13.1	7.47	12.64			Core recovery - 100.0%
375.7	380.0	4.3	0.76	4.85			Fault @ 375.7 ft.
380.0	390.0	10.0	.44	5.17			
390.0	400.0	10.0	.44	4.20			
400.0	410.0	10.0	.81	5.16			Green slate
410.0	420.0	10.0	.48	4.93			
420.0	430.0	10.0	.32	4.85			
430.0	440.0	10.0	.36	5.58			
440.0	450.0	10.0	.48	5.17			
450.0	460.0	10.0	1.04	6.47			
460.0	466.0	6.0	.88	5.01			
Total		90.3	0.58	5.16			Core recovery - 97.5%
466.0	470.0	4.0	7.40	11.88			Manganiferous hematitic slate
470.0	474.0	4.0	9.84	17.38			and green slate
474.0	480.0	6.0	7.16	13.90			Recrystallization to magnetite-
480.0	488.6	8.6	2.92	9.86			chlorite rock from 488.6'-513.6'
488.6	500.0	11.4	5.04	19.04			This sequence is believed to be a lens
500.0	510.0	10.0	6.40	14.88			within the green slate
510.0	513.6	3.6	8.40	16.25			
Total		47.6	6.07	14.99			Core recovery - 100.0%
513.6	520.0	6.4	3.56	8.65			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 34 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
520.0	533.0	13.0	1.24	5.90			Green slate
Total		19.4	2.01	6.81			Core recovery - 100.0%
Total Core Sampled		363.0					Core recovery - 98.2%

Diamond Drill Hole 35

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	20.0						Overburden
20.0	300.0						Gray-green slate
300.0	310.0	10.0	0.34	5.13			
310.0	320.0	10.0	.50	5.21			
320.0	323.3	3.3	.54	5.05			Bottom of gray-green slate @ 323.2 ft.
323.3	330.0	6.7	1.30	4.88			
330.0	340.0	10.0	1.81	6.19	2.16	6.90	Manganiferous interbedded purple and red slate
340.0	350.0	10.0	1.01	3.91	4.98	12.31	Top of manganiferous banded hematite @ 355.0 ft.
350.0	355.0	5.0	.54	5.05			
Total		55.0			1.69	6.73	Core recovery - 71.6%
355.0	360.0	5.0	11.89	14.81			Manganiferous banded hematite
360.0	370.0	10.0	10.16	9.12	9.50	12.65	
370.0	380.0	10.0	9.79	25.91	10.25	22.48	
Total		25.0			10.28	17.01	Core recovery - 80.8%
380.0	390.0	10.0	7.22	16.76			Manganiferous banded hematite
390.0	400.0	10.0	8.99	13.19			
400.0	410.0	10.0	6.85	13.02			
Total		30.0	7.69	14.32			Core recovery - 91.7%
410.0	412.2	2.2	13.27	19.94			Manganiferous banded hematite
412.2	420.0	7.8	10.21	25.07			
420.0	422.8	2.8	15.16	31.09			Recrystallized magnetite- chlorite rock @ 412.2'- 422.8', 455'-468'
422.8	430.0	7.2	11.52	29.14			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 35(cont'd.)							
Footage From-	Footage To-	Interval Sample Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
430.0	440.0	10.0	10.80	22.47			
440.0	450.0	10.0	10.52	27.26			
450.0	455.0	5.0	7.08	26.86			
455.0	460.0	5.0	11.00	32.31			
460.0	468.5	8.5	10.76	28.33			Bottom of manganiferous banded hematite @ 468.5 ft.
Total		58.5	10.76	26.84			Core recovery - 96.4%
468.5	475.0	6.5	2.64	24.01			Manganiferous interbedded
475.0	481.5	6.5	4.92	31.01			hematite and green slate
481.5	489.5	8.0	6.80	30.52			Recrystallized magnetite-
489.5	498.0	8.5	4.00	23.12			chlorite rock @ 468.5'-481.5',
498.0	507.5	9.5	6.72	26.86			490'-491', 495'-498'
Total		39.0	5.16	27.01			Core recovery - 100.0%
507.5	515.0	7.5	1.44	9.61			Top of green slate @ 507.5 ft.
515.0	520.0	5.0	.48	5.54			Green slate
520.0	530.0	10.0	1.08	5.37			
Total		22.5	1.07	6.82			Core recovery - 96.9%
530.0	546.0						Green slate
Total Core Sampled		230.0					Core recovery - 88.9%

Diamond Drill Hole 36

No samples sent for assaying because hole did not intersect
the ore zone

Diamond Drill Hole 37

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	2.0						Overburden
2.0	20.0						Gray-green slate
20.0	30.0	10.0	1.42	6.15			Bottom of green slate @ 45.0 ft.
30.0	40.0	10.0	.72	4.42			Manganiferous
40.0	45.0	5.0	12.24	28.21			purple
45.0	50.0	5.0	2.64	7.85			and
50.0	60.0	10.0	4.00	8.49			red
60.0	70.0	10.0	1.48	7.70			slate
Total		50.0	3.01	8.96			Core recovery - 100.0%
70.0	80.0	10.0	8.04	12.40			
80.0	90.0	10.0	7.98	10.10			
90.0	100.0	10.0	9.31	15.84			Manganiferous
100.0	110.0	10.0	11.42	21.16			
110.0	120.0	10.0	4.20	13.22			purple and
120.0	130.0	10.0	7.53	12.03			
130.0	140.0	10.0	4.44	14.11			red slate
140.0	147.5	7.5	8.50	15.84			Top of manganiferous banded hematite @ 147.5 ft.
Total		77.5	7.92	14.29			Core recovery - 100.0%
147.5	150.0	2.5	13.01	29.89			
150.0	160.0	10.0	14.92	25.54			Manganiferous
160.0	170.0	10.0	10.46	29.04			
170.0	180.0	10.0	9.47	20.76			banded
180.0	190.0	10.0	.92	4.94			
190.0	200.0	10.0	10.00	24.17			hematite
200.0	210.0	10.0	11.13	28.30			
210.0	220.0	10.0	13.55	21.67			
220.0	222.0	2.0	10.22	31.59			Bottom of manganiferous banded hematite @ 222.0 ft.
Total		74.5	10.17	22.58			Core recovery - 100.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 37 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
222.0	230.0	8.0	6.67	22.58			Manganiferous
230.0	240.0	10.0	5.28	21.56			
240.0	250.0	10.0	5.30	14.94			interbedded
250.0	260.0	10.0	11.11	21.83			
260.0	270.0	10.0	8.60	23.26			hematitic
270.0	280.0	10.0	7.63	19.56			and green slate
Total		58.0	7.46	20.55			Core recovery - 100.0%
280.0	290.0	10.0	3.04	11.64			Manganiferous
290.0	300.0	10.0	4.00	12.39			interbedded
300.0	308.0	8.0	3.15	11.32			hematitic and green slate
308.0	310.0	2.0	3.60	7.04			Top of green slate @ 308.0 ft.
Total		30.0	3.43	11.50			Core recovery - 100.0%
310.0	320.0	10.0	1.08	4.42			Green
320.0	330.0	10.0	1.88	6.47			slate
Total		20.0	1.48	5.44			Core recovery - 100.0%
330.0	353.0						Green slate
Total Core sampled		310.0					Core recovery - 100.0%

Diamond Drill Hole 38

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	130.0						Gray-green slate
130.0	140.0	10.0	0.76	3.72			
140.0	150.0	10.0	.92	4.04			Gray-
150.0	152.7	2.7	.72	3.23			green slate
152.7	160.0	7.3	.80	4.69			Bottom of gray-green slate @ 152.5 ft.
Total		30.0	0.83	4.01			Core recovery - 100.0%
160.0	170.0	10.0	1.36	5.98			Manganiferous
170.0	180.0	10.0	2.40	5.66			purple
180.0	190.0	10.0	3.92	8.25			and
190.0	196.0	6.0	1.56	7.11			red slate
Total		36.0	2.39	6.72			Core recovery - 99.4%
196.0	200.0	4.0	11.08	19.40			Top of manganiferous banded hematite @ 196.0 ft.
200.0	210.0	10.0	9.00	10.67			
210.0	220.0	10.0	8.28	12.61			
220.0	230.0	10.0	7.05	17.77			Manganiferous
230.0	240.0	10.0	9.00	14.07			banded
240.0	250.4	10.4	9.40	16.57			hematite
Total		54.4	8.96	14.73			Core recovery - 95.0%
250.4	260.0	9.6	11.84	25.63			Manganiferous
260.0	270.2	10.2	10.00	29.43			banded
270.2	280.0	9.8	11.64	22.15			hematite
Total		29.6	11.14	25.79			Core recovery - 99.3%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Holes 38 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
280.0	290.0	10.0	8.76	25.30			Manganiferous banded hematite Bottom of manganiferous banded hematite @ 312.2 ft.
290.0	300.0	10.0	6.80	26.52			
300.0	310.0	10.0	10.56	22.48			
310.0	312.2	2.2	9.36	25.22			
Total		32.2	8.75	24.48			Core recovery - 100.0%
312.2	320.0	7.8	2.60	18.11			Manganiferous interbedded hematitic and green slate Core recovery - 98.8%
320.0	330.0	10.0	5.00	22.96			
330.0	340.0	10.0	3.04	15.68			
340.0	344.2	4.2	4.48	27.97			
Total		32.0	3.71	20.16			
344.2	350.0	5.8	1.24	4.36		Top of green slate @ 344.5 ft.	Green slate Core recovery - 96.9%
350.0	360.0	10.0	.64	2.75			
360.0	370.0	10.0	.56	3.56			
370.0	380.0	10.0	.60	3.54			
Total		35.8	0.70	3.46			
Total Core Sampled		250.0					Core recovery - 98.2%

Diamond Drill Hole 39

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)	
			Mn	Fe	Mn	Fe		
0.0	6.9						Overburden Gray-green slate - Bottom of gray-green slate @ 1559'	
6.9	1560.0							
1560.0	1570.0	10.0	0.80	5.05			Manganiferous purple and red slate Core recovery - 95.6%	
1570.0	1580.0	10.0	3.12	7.19				
1580.0	1590.0	10.0	2.56	7.59				
1590.0	1600.0	10.0	.72	4.33				
1600.0	1610.0	10.0	7.36	11.67				
1610.0	1620.0	10.0	1.04	5.72				
1620.0	1630.0	10.0	3.12	6.70				
Total		70.0	21.67	6.89				
1630.0	1640.0	10.0	11.64	23.27	6.12	13.06	Manganiferous purple and red slate Top of manganiferous banded hematite @ 1731 ft. Core recovery - 76.1%	
1640.0	1650.0	10.0	8.28	10.20	6.51	9.61		
1650.0	1660.0	10.0	5.80	16.74				
1660.0	1670.0	10.0	12.28	19.87	7.72	19.83		
1670.0	1680.0	10.0	7.80	20.03				
1680.0	1690.0	10.0	3.16	6.97				
1690.0	1700.0	10.0	9.16	10.14				
1700.0	1710.0	10.0	3.24	6.97				
1710.0	1720.0	10.0	4.60	10.62				
1720.0	1728.0	8.0	10.32	19.38				
1728.0	1731.0	3.0	.76	3.81				
Total		101.0			6.20	12.93		
1731.0	1739.5	8.5	12.28	29.28				Manganiferous banded hematite
1739.5	1743.0	3.5	19.44	26.19				
1743.0	1746.0	3.0	9.24	20.92				
1746.0	1748.0	2.0	13.68	30.82				

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 39 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
1748.0	1750.0	2.0	7.68	34.39			
1750.0	1752.0	2.0	9.88	8.43			
1752.0	1755.0	3.0	11.28	31.47			
Total		24.0	12.35	26.88			Core recovery - 99.2%
Total Core Sampled		195.0					Core recovery - 85.9%

Diamond Drill Hole 40

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	10.0						Overburden
10.0	70.0						Gray-green slate
70.0	80.0	10.0	0.56	2.11			Gray-green slate
80.0	91.3	11.3	.60	4.54			Bottom of gray-green slate @ 91.3 ft.
Total		21.3	0.58	3.40			Core recovery - 97.2%
91.3	100.0	8.7	2.56	5.98			Manganiferous purple and red slate
100.0	110.0	10.0	4.63	7.61			
Total		18.7	3.67	6.85			Core recovery - 99.5%
110.0	120.0	10.0	8.87	12.96			Manganiferous purple and red slate
120.0	130.0	10.0	10.56	11.66			
130.0	140.0	10.0	8.75	13.12			
140.0	144.5	4.5	6.91	9.23			Top of manganiferous banded hematite @ 144.5 ft.
Total		34.5	9.07	12.14			Core recovery - 95.1%
144.5	150.0	5.5	12.48	19.93			Manganiferous
150.0	160.0	10.0	11.80	26.08			
160.0	170.0	10.0	9.51	22.43			banded
170.0	180.0	10.0	12.80	23.65			
180.0	190.0	10.0	10.00	26.63			hematite
190.0	200.0	10.0	9.48	29.73			Bottom of manganiferous banded hematite @ 200.0 ft.
Total		55.5	10.89	25.13			Core recovery - 94.6%
200.0	210.0	10.0	3.52	19.03			Manganiferous interbedded hematitic & green slate
210.0	220.0	10.0	5.80	19.36			
220.0	223.0	3.0	5.04	20.09			Top of green slate @ 223.0 ft.
Total		23.0	4.71	19.31			Core recovery - 100.0%
223.0	230.0	7.0	1.00	6.64			Green slate
230.0	237.0	7.0	.84	4.05			
Total		14.0	0.92	5.35			Core recovery - 100.0%
Total Core Sampled		167.0					Core recovery - 96.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 39 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
1748.0	1750.0	2.0	7.68	34.39			
1750.0	1752.0	2.0	9.88	8.43			
1752.0	1755.0	3.0	11.28	31.47			
Total		24.0	12.35	26.88			Core recovery - 99.2%
Total Core Sampled		195.0					Core recovery - 85.9%

Diamond Drill Hole 40

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	10.0						Overburden
10.0	70.0						Gray-green slate
70.0	80.0	10.0	0.56	2.11			Gray-green slate
80.0	91.3	11.3	.60	4.54			Bottom of gray-green slate @ 91.3 ft.
Total		21.3	0.58	3.40			Core recovery - 97.2%
91.3	100.0	8.7	2.56	5.98			Manganiferous purple
100.0	110.0	10.0	4.63	7.61			and red slate
Total		18.7	3.67	6.85			Core recovery - 99.5%
110.0	120.0	10.0	8.87	12.96			Manganiferous
120.0	130.0	10.0	10.56	11.66			purple and
130.0	140.0	10.0	8.75	13.12			red slate
140.0	144.5	4.5	6.91	9.23			Top of manganiferous banded hematite @ 144.5 ft.
Total		34.5	9.07	12.14			Core recovery - 95.1%
144.5	150.0	5.5	12.48	19.93			Manganiferous
150.0	160.0	10.0	11.80	26.08			
160.0	170.0	10.0	9.51	22.43			banded
170.0	180.0	10.0	12.80	23.65			
180.0	190.0	10.0	10.00	26.63			hematite
190.0	200.0	10.0	9.48	29.73			Bottom of manganiferous banded hematite @ 200.0 ft.
Total		55.5	10.89	25.13			Core recovery - 94.6%
200.0	210.0	10.0	3.52	19.03			Manganiferous interbedded hematitic & green slate
210.0	220.0	10.0	5.80	19.36			Top of green slate @ 223.0 ft.
220.0	223.0	3.0	5.04	20.09			
Total		23.0	4.71	19.31			Core recovery - 100.0%
223.0	230.0	7.0	1.00	6.64			Green
230.0	237.0	7.0	.84	4.05			slate
Total		14.0	0.92	5.35			Core recovery - 100.0%
Total Core Sampled		167.0					Core recovery - 96.8%

TABLE 5 - Diamond drill core analyses

Diamond Drill Hole 41

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
0.0	4.5						Overburden
4.5	60.0						Gray-green slate
60.0	70.0	10.0	0.52	4.86			Gray-
70.0	78.8	8.8	.64	4.86			green slate
78.8	90.0	11.2	3.72	8.11			Bottom of gray-green slate @ 78.8 ft.
Total		30.0	1.75	6.07			Core recovery - 100.0%
90.0	100.0	10.0	0.36	5.68			Manganiferous
100.0	110.0	10.0	.52	10.22			purple and
110.0	120.0	10.0	.92	3.89			red slate
120.0	130.0	10.0	3.52	9.73			
130.0	140.0	10.0	1.84	7.78			
140.0	144.0	4.0	2.03	5.34			
Total		54.0	1.48	7.30			Core recovery - 97.6%
144.0	150.0	6.0	13.28	24.74			Manganiferous banded
150.0	160.0	10.0	9.63	12.29			hematite interbeds in
160.0	170.0	10.0	10.51	18.43			manganiferous purple
170.0	180.0	10.0	10.72	22.15			and red slate
Total		36.0	10.79	18.81			Core recovery - 100.0%
180.0	190.0	10.0	5.20	14.47			Manganiferous purple
190.0	200.0	10.0	9.80	12.94			and
200.0	206.6	6.6	1.28	8.41			red slate
206.6	210.0	3.4	4.31	9.70			Top of manganiferous banded hematite @ 210.0 ft.
Total		30.0	5.77	12.08			Core recovery - 98.3%
210.0	220.0	10.0	10.20	19.48			Manganiferous
220.0	230.0	10.0	12.80	26.84			banded
230.0	240.0	10.0	11.87	26.52			hematite
240.0	250.0	10.0	9.91	24.25			
250.0	260.0	10.0	11.60	27.89			
260.0	270.0	10.0	11.20	21.34			
270.0	280.0	10.0	13.51	25.87			
280.0	290.0	10.0	9.35	30.64			
290.0	300.0	10.0	12.43	21.02			
300.0	302.0	2.0	10.60	24.09			Bottom of manganiferous banded hematite @ 302.0 ft.
Total		92.0	11.41	24.85			Core recovery - 96.6%
302.0	310.0	8.0	3.40	16.33			Manganiferous
310.0	320.0	10.0	6.08	27.41			interbedded
320.0	330.0	10.0	5.68	11.96			hematitic
330.0	340.0	10.0	10.92	18.92			and green slate
340.0	350.0	10.0	8.28	22.80			
350.0	360.0	10.0	8.95	23.69			
Total		58.0	7.35	20.32			Core recovery - 96.4%
360.0	366.0	6.0	3.83	12.61			Top of green slate @ 366.0 ft.
366.0	370.0	4.0	1.48	6.14			Green
370.0	380.0	10.0	.80	6.63			slate
380.0	390.0	10.0	.87	4.04			
Total		30.0	1.52	6.90			Core recovery - 100.0%
390.0	408.0						Green slate
Total Core Sampled		330.0					Core recovery - 97.9%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 43

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.0						Overburden
5.0	765.0						Gray-green slate
765.0	770.0	5.0	2.72	13.96			Bottom of gray-green slate @ 765.0 ft.
770.0	780.0	10.0	.80	4.90			
780.0	790.0	10.0	4.08	9.39			
790.0	800.0	10.0	.76	4.90			Manganiferous
800.0	810.0	10.0	2.20	10.69			purple
810.0	820.0	10.0	1.60	6.70			
820.0	830.0	10.0	1.28	8.33			and
830.0	840.0	10.0	.56	5.88			red
840.0	850.0	10.0	.72	6.61			slate
850.0	860.0	10.0	.76	5.39			
860.0	870.0	10.0	.68	4.74			
870.0	880.0	10.0	3.90	8.08			
Total		115.0	1.63	7.18			Core recovery - 99.2%
880.0	890.0	10.0	12.02	14.12			
890.0	900.0	10.0	10.36	24.98			Manganiferous banded hematite
900.0	910.0	10.0	13.32	28.09			interbedded in manganiferous
910.0	920.0	10.0	19.52	21.23			purple and red slate
920.0	930.0	10.0	13.96	16.49			
930.0	940.0	10.0	12.62	15.84	9.14	15.47	
Total		60.0			13.05	20.06	Core recovery - 87.0%
940.0	950.0	10.0	2.48	6.04			
950.0	960.0	10.0	2.26	8.90			Manganiferous purple
							and red slate
Total		20.0	2.37	7.47			Core recovery - 95.5%
960.0	970.0	10.0	6.48	10.29			
970.0	980.0	10.0	5.32	6.37			Manganiferous
980.0	990.0	10.0	9.36	19.11			purple
990.0	1000.0	10.0	9.84	16.08			
1000.0	1010.0	10.0	3.68	15.02			and
1010.0	1020.0	10.0	4.20	7.07	3.63	8.96	red slate
1020.0	1030.0	10.0	11.72	27.76	8.32	21.55	
1030.0	1040.0	10.0	8.24	16.00			
1040.0	1050.0	10.0	1.68	5.96			
Total		90.0			6.28	13.26	Core recovery - 94.4%
1050.0	1060.0	10.0	12.36	18.13			
1060.0	1070.0	10.0	14.96	25.88			Manganiferous banded
							hematite inberbeds in
							manganiferous purple & red slate
Total		20.0	13.66	22.00			Core recovery - 97.5%
1070.0	1080.0	10.0	6.40	5.72			
1080.0	1090.0	10.0	2.00	10.29			Manganiferous
1090.0	1100.0	10.0	1.60	37.97	4.52	16.96	purple and
1100.0	1110.0	10.0	1.64	14.70	2.15	13.97	red slate
1110.0	1120.0	10.0	2.40	6.53			
Total		50.0			3.49	10.69	Core recovery - 78.6%
1120.0	1130.0	10.0	5.40	17.15			
1130.0	1140.0	10.0	9.00	15.84	5.05	14.51	Manganiferous purple
1140.0	1150.0	10.0	9.40	10.94			and red slate
1150.0	1160.0	10.0	6.92	5.72			
Total		40.0			6.69	12.08	Core Recovery - 95.3%

TABLE 5 - Analyses of diamond drill cores

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
1160.0	1170.0	10.0	2.80	7.43	4.15	11.84	Manganiferous purple and red slate
1170.0	1180.0	10.0	1.48	7.59			
1180.0	1190.0	10.0	2.28	4.57			
1190.0	1200.0	10.0	2.96	7.43			
1200.0	1210.0	10.0	3.52	8.00			
Total		50.0			2.88	7.89	Core recovery - 93.6%
1210.0	1220.0	10.0	9.40	21.39			Manganiferous banded hematite interbeds in manganiferous purple and red slate
1220.0	1230.0	10.0	13.60	20.90			
Total		20.0	11.50	21.14			Core recovery - 91.0%
1230.0	1240.0	10.0	4.76	11.92			Manganiferous purple and red slate
1240.0	1250.0	10.0	1.04	11.67	2.85	14.59	
1250.0	1260.0	10.0	1.64	1.96	2.61	16.94	
1260.0	1264.6	4.6	2.56	13.39			
1264.6	1266.0	1.4	0	0 (lost core-no sludge)			
Total		36.0			3.17	13.78	Core recovery - 62.2%
1266.0	1270.0	4.0	13.56	31.11			Manganiferous banded hematite
1270.0	1280.0	10.0	8.20	33.97			
1280.0	1290.0	10.0	15.68	22.13			
Total		24.0	12.21	28.56			Core recovery - 96.7%
1290.0	1299.0	9.0	7.44	34.86	6.05	28.67	Red and gray slate interbeds in manganiferous banded hematite
1299.0	1308.5	9.5	1.72	4.74			
Total		18.5			3.83	16.38	Core recovery - 85.4%
1308.5	1320.0	11.5	11.24	28.49			Manganiferous banded hematite
1320.0	1330.0	10.0	15.16	24.00			
1330.0	1340.0	10.0	11.00	30.05			
1340.0	1350.0	10.0	12.84	22.45			
Total		41.5	12.51	26.32			Core recovery - 100.0%
Total Core Sampled		585.0					Core recovery - 91.5%

TABLE 5 - Analyses of diamond drill cores

Footage		Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
From-	To-		Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	260.0						Gray-green slate
260.0	275.5	15.5	1.12	4.50			Gray-green slate
Total		15.5	1.12	4.50			Core recovery - 31.0%
275.5	280.0	4.5	8.96	14.48			Bottom of gray-green slate @ 275.5 ft. Manganiferous purple and red slate (Partially recrystallized) @ 345' contact between above and undifferentiated manganiferous banded magnetite-chlorite rock and interbedded magnetite slate and dark green chloritic slate
280.0	290.0	10.0	5.52	9.33			
290.0	300.5	10.5	8.56	14.00			
300.5	310.0	9.5	5.52	10.94			
310.0	320.0	10.0	4.64	11.74			
320.0	330.0	10.0	3.64	8.03			
330.0	340.0	10.0	5.88	16.09			
340.0	350.0	10.0	6.60	13.52			
350.0	360.0	10.0	7.68	11.88			
360.0	370.0	10.0	9.84	14.32			
370.0	380.0	10.0	4.96	14.87			
380.0	390.0	10.0	10.32	19.48			
390.0	400.0	10.0	9.44	21.32			
400.0	410.0	10.0	5.84	19.15			
410.0	420.0	10.0	6.08	15.69			
420.0	430.0	10.0	5.40	11.97			
Total		154.5	6.74	14.17			Core recovery - 97.8%
430.0	440.0	10.0	10.48	16.71			Undifferentiated manganiferous rocks as above but with more banded magnetite-chlorite rock
440.0	450.0	10.0	11.00	19.60			
450.0	460.0	10.0	10.16	22.42			
Total		30.0	10.55	19.58			Core recovery - 95.0%
460.0	470.0	10.0	7.80	18.48			Undifferentiated manganiferous banded magnetite-chlorite rock and interbedded magnetite slate and dark green chlorite slate
470.0	480.0	10.0	7.68	14.38			
480.0	490.0	10.0	7.12	18.32			
490.0	500.0	10.0	9.20	21.53			
500.0	510.0	10.0	5.96	13.98			
510.0	520.0	10.0	6.88	12.86			
520.0	526.5	6.5	8.84	15.99			
Total		66.5	7.58	16.53			
526.5	530.0	3.5	2.56	7.55			Green slate
530.0	540.0	10.0	.92	4.98			
Total		13.5	1.35	5.65			Core recovery - 98.6%
540.0	610.0						Green slate Fault @ 574'
610.0	618.5	8.5	1.00	6.42			Core recovery - 51.8% Green slate
618.5	630.0	11.5	9.20	16.23			Manganiferous hematitic slate and green slate. Recrystallized to magnetite-chlorite rock from 651.5-661.5' and 668-697.5'. This sequence is believed to be a lens within the green slate
630.0	640.0	10.0	5.68	15.91			
640.0	650.0	10.0	9.92	21.93			
650.0	660.0	10.0	8.12	20.08			
660.0	670.0	10.0	9.40	18.64			
670.0	680.0	10.0	5.56	15.59			
680.0	690.0	10.0	8.12	15.35			
690.0	697.5	7.5	8.00	21.20			
Total		79.0	8.02	17.98			Core recovery - 99.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 44(cont'd.)

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
		Mn	Fe	Mn	Fe	
697.5	710.0	12.5	2.32	7.23		Core recovery - 97.6% Green slate
710.0	733.5					Green slate
Total Core Sampled	380.0					Core recovery - 94.2%

Diamond Drill Hole 45

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
		Mn	Fe	Mn	Fe	
0.0	40.0					Gray-green slate
40.0	50.0	10.0	0.48	4.55		Bottom of gray-green slate @ 81.0 ft.
50.0	60.0	10.0	.40	3.25		Manganiferous
60.0	70.0	10.0	.47	4.06		
70.0	81.0	11.0	2.23	7.63		purple and
81.0	90.0	9.0	1.12	6.98		
90.0	100.0	10.0	0.92	6.01		red slate
100.0	110.0	10.0	1.43	4.22		
Total	70.0	1.02	5.25			Core recovery - 91.9%
110.0	120.0	10.0	11.65	14.78		
120.0	130.0	10.0	1.52	5.52		
130.0	140.0	10.0	6.40	6.98		
140.0	150.0	10.0	6.39	15.27		Manganiferous
150.0	160.0	10.0	7.08	13.64		
160.0	170.0	10.0	5.67	9.74		purple
170.0	180.0	10.0	5.12	8.36		
180.0	190.0	10.0	5.95	9.26		and
190.0	200.0	10.0	1.92	6.33		
200.0	210.0	10.0	8.48	13.97		red slate
210.0	220.0	10.0	4.28	8.04		
220.0	230.0	10.0	2.16	5.85		
230.0	240.0	10.0	8.88	14.29		
240.0	243.7	3.7	2.56	6.09		Top of manganiferous banded hematite @ 243.7 ft.
Total	133.7	5.71	10.04			Core recovery - 99.6%
243.7	250.0	6.3	13.04	16.24		Manganiferous
250.0	260.0	10.0	10.04	25.09		
260.0	270.0	10.0	9.44	15.10		banded
270.0	280.0	10.0	12.20	21.27		
280.0	290.0	10.0	8.00	18.84		hematite
290.0	300.0	10.0	14.80	16.56		
Total	56.3	11.14	19.02			Core recovery - 98.2%
300.0	304.0	4.0	7.60	24.36		Bottom of manganiferous banded hematite @ 304.5 ft.
304.0	308.3	4.3	5.51	8.85		Manganiferous interbedded hematitic and green slate - Fault @ 308.3 ft.
Total	8.3	6.52	16.32			Core recovery - 96.4%
308.3	309.2	0.9	0.64	1.61		Gray-
309.2	320.0	10.8	.60	4.50		green
320.0	330.0	10.0	.79	3.86		slate
Total	21.7	0.69	4.09			Core recovery - 97.7%
330.0	352.0					Gray-green slate - Fault @ 340.0 ft.
Total Core Sampled	290.0					Core recovery - 97.2%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 44(cont'd.)

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
		Mn	Fe	Mn	Fe	
697.5	710.0	12.5	2.32	7.23		Core recovery - 97.6% Green slate
710.0	733.5					Green slate
Total Core Sampled	380.0					Core recovery - 94.2%

Diamond Drill Hole 45

Footage From- To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
		Mn	Fe	Mn	Fe	
0.0	40.0					Gray-green slate
40.0	50.0	10.0	0.48	4.55		Bottom of gray-green slate @ 81.0 ft.
50.0	60.0	10.0	.40	3.25		Manganiferous
60.0	70.0	10.0	.47	4.06		
70.0	81.0	11.0	2.23	7.63		purple and
81.0	90.0	9.0	1.12	6.98		
90.0	100.0	10.0	0.92	6.01		red slate
100.0	110.0	10.0	1.43	4.22		
Total	70.0	1.02	5.25			Core recovery - 91.9%
110.0	120.0	10.0	11.65	14.78		
120.0	130.0	10.0	1.52	5.52		
130.0	140.0	10.0	6.40	6.98		
140.0	150.0	10.0	6.39	15.27		Manganiferous
150.0	160.0	10.0	7.08	13.64		
160.0	170.0	10.0	5.67	9.74		purple
170.0	180.0	10.0	5.12	8.36		
180.0	190.0	10.0	5.95	9.26		and
190.0	200.0	10.0	1.92	6.33		
200.0	210.0	10.0	8.48	13.97		red slate
210.0	220.0	10.0	4.28	8.04		
220.0	230.0	10.0	2.16	5.85		
230.0	240.0	10.0	8.88	14.29		
240.0	243.7	3.7	2.56	6.09		Top of manganiferous banded hematite @ 243.7 ft.
Total	133.7	5.71	10.04			Core recovery - 99.6%
243.7	250.0	6.3	13.04	16.24		Manganiferous
250.0	260.0	10.0	10.04	25.09		
260.0	270.0	10.0	9.44	15.10		banded
270.0	280.0	10.0	12.20	21.27		
280.0	290.0	10.0	8.00	18.84		hematite
290.0	300.0	10.0	14.80	16.56		
Total	56.3	11.14	19.02			Core recovery - 98.2%
300.0	304.0	4.0	7.60	24.36		Bottom of manganiferous banded hematite @ 304.5 ft.
304.0	308.3	4.3	5.51	8.85		Manganiferous interbedded hematitic and green slate - Fault @ 308.3 ft.
Total	8.3	6.52	16.32			Core recovery - 96.4%
308.3	309.2	0.9	0.64	1.61		Gray-
309.2	320.0	10.8	.60	4.50		green
320.0	330.0	10.0	.79	3.86		slate
Total	21.7	0.69	4.09			Core recovery - 97.7%
330.0	352.0					Gray-green slate - Fault @ 340.0 ft.
Total Core Sampled	290.0					Core recovery - 97.2%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 46

Footage From-	To-	Sample Interval Feet	Core Assay,%		Combined Core and Sludge Assay,%		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						Overburden
3.0	30.0						Gray-green slate - Bottom of gray-green slate @ 28'
30.0	40.0	10.0	5.40	11.09			Recrystallized manganiferous
40.0	43.5	3.5	4.00	9.48			purple and red slate
43.5	50.0	6.5	4.52	9.32			abundant magnetite
50.0	60.0	10.0	4.16	9.96			
Total		30.0	4.63	10.14			Core recovery - 87.3%
60.0	70.0	10.0	5.16	9.24			Recrystallized
70.0	80.0	10.0	8.16	12.21			Manganiferous purple
80.0	90.0	10.0	2.04	6.91			and red slate,
90.0	100.0	10.0	5.76	12.69			abundant
100.0	110.0	10.0	6.92	15.89			magnetite
110.0	114.0	4.0	6.96	16.38			
Total		54.0	5.71	11.76			Core recovery - 95.7%
114.0	120.0	6.0	12.56	27.74			Recrystallized manganiferous banded
120.0	130.0	10.0	10.20	27.01			hematite; abundant magnetite
Total		16.0	11.09	27.28			Core recovery - 100.0%
130.0	140.0	10.0	8.92	19.63			Recrystallized manganiferous banded
140.0	150.0	10.0	7.28	16.95			hematite (?); abundant
150.0	160.0	10.0	7.08	14.11			magnetite
160.0	170.0	10.0	6.84	13.70			
170.0	180.0	10.0	7.04	19.46			
Total		50.0	7.43	16.77			Core recovery - 99.2%
180.0	190.0	10.0	10.40	28.22			Recrystallized manganiferous
190.0	200.0	10.0	10.84	24.82			banded hematite, abundant
200.0	210.0	10.0	11.12	26.11			magnetite
Total		30.0	10.79	26.38			Core recovery - 98.0%
210.0	220.0	10.0	7.24	20.84			Recrystallized manganiferous banded
220.0	230.0	10.0	5.16	19.14			hematite, abundant magnetite
230.0	240.0	10.0	9.96	14.92			
240.0	245.5	5.5	5.40	18.98			Bottom of this unit @ 245.5 ft.
Total		35.5	7.14	18.41			Core recovery - 94.3%
245.5	250.0	4.5	3.08	7.38			Recrystallized manganiferous
250.0	260.0	10.0	1.40	6.40			interbedded hematitic and
260.0	270.0	10.0	.96	5.84			green slate; abundant
270.0	280.0	10.0	1.08	5.76			magnetite
Total		34.5	1.40	6.18			Core recovery - 87.8%
280.0	290.0	10.0	0.56	3.81			Top of green slate @ 235.0 ft.
290.0	300.0	10.0	.68	5.68			
300.0	312.5	12.5	.64	3.73			Green
312.5	320.0	7.5	.52	3.81			slate
320.0	330.0	10.0	.68	3.81			
330.0	340.0	10.0	1.08	4.86			
Total		60.0	0.70	4.28			Core recovery - 78.8%
340.0	422.0						Green slate
Total Core Sampled		310.0					Core recovery - 91.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 47

Footage From-	to-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	5.0						Overburden
5.0	40.0						Gray-green slate
40.0	50.0	10.0	2.60	4.82			
50.0	60.0	10.0	1.04	4.80			Gray-
60.0	70.0	10.0	.48	4.74			green
70.0	80.0	10.0	0.60	4.26			slate
80.0	84.0	4.0	1.60	4.34			Bottom of gray-green slate @ 84 ft.
Total		44.0	1.22	4.63			Core recovery - 77.0%
84.0	90.0	6.0	7.72	13.82			Recrystallized
90.0	100.0	10.0	4.48	8.03			Manganiferous
100.0	110.0	10.0	6.60	10.44			purple and red slate; abundant
110.0	120.0	10.0	4.96	12.53			magnetite
120.0	125.0	5.0	7.35	8.84			Lower contact of this
125.0	130.0	5.0	7.07	18.40			unit @ 125'
Total		46.0	6.06	11.50			Core recovery - 96.5%
130.0	140.0	10.0	12.00	22.42			Recrystallized
140.0	150.0	10.0	10.92	25.63			Manganiferous
150.0	160.0	10.0	4.28	14.30			banded hematite;
160.0	170.0	10.0	10.80	17.27			abundant magnetite
170.0	180.0	10.0	11.63	17.52			
180.0	191.5	11.5	10.68	17.22			Bottom of this unit @ 191.5'
Total		61.5	10.07	19.02			Core recovery - 99.3%
191.5	200.0	8.5	3.00	7.24			Recrystallized manganiferous
200.0	210.0	10.0	1.32	5.95			interbedded hematitic and
210.0	220.0	10.0	3.08	10.14			green slate
Total		28.5	2.44	7.80			Core recovery - 98.9%
220.0	230.0	10.0	0.60	4.83			
230.0	240.0	10.0	.56	5.15			
240.0	242.0	2.0	.64	5.16			Top of green slate @ 242'
242.0	250.0	8.0	.64	4.18			
250.0	260.0	10.0	.65	4.26			Green
260.0	270.0	10.0	.57	4.34			slate
270.0	275.0	5.0	.64	5.17			
275.0	280.0	5.0	.76	4.58			
280.0	290.0	10.0	.56	4.02			
290.0	300.0	10.0	.88	4.58			
Total		80.0	0.65	4.55			Core recovery - 97.4%
300.0	498.0						Green slate
Total Core Sampled		260.0					Core recovery - 94.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 48

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	30.0						
30.0	40.0	10.0	1.13	6.38			Gray-green slate
40.0	50.0	10.0	.56	5.66			Gray-green slate
50.0	61.0	11.0	2.40	6.14			Bottom of gray-green slate @ 61'
Total		31.0	1.40	6.06			Core recovery - 94.2%
61.0	70.0	9.0	6.80	11.07			
70.0	80.0	10.0	3.72	11.40			Recrystallized
80.0	90.0	10.0	4.48	7.27			manganiferous
90.0	100.0	10.0	6.08	13.44			purple and
100.0	110.0	10.0	5.86	11.37			red slate
110.0	114.5	4.5	8.64	19.68			
Total		53.5	5.63	11.64			Bottom of the unit @ 114.5'
							Core recovery - 98.5%
114.5	120.0	5.5	10.04	24.16			
120.0	130.0	10.0	11.22	24.00			Recrystallized
130.0	140.0	10.0	11.84	23.85			manganiferous
140.0	150.0	10.0	9.45	21.58			banded
Total		35.5	10.71	23.30			hematite
							Core recovery - 98.0%
150.0	155.0	5.0	8.52	21.83			
155.0	160.0	5.0	7.92	10.61			Recrystallized
160.0	170.0	10.0	4.28	12.96			manganiferous
170.0	180.0	10.0	8.08	17.95			interbedded
180.0	190.0	10.0	10.28	18.27			hematitic and
190.0	200.0	10.0	7.64	18.67			green slate
200.0	210.0	10.0	9.00	12.85			
210.0	220.0	10.0	6.88	11.56			
220.0	230.0	10.0	12.60	12.29			Fault @ 280.0'
230.0	240.0	10.0	7.60	18.43			
240.0	250.0	10.0	5.80	11.46			
250.0	260.0	10.0	4.08	7.27			
260.0	270.0	10.0	5.40	9.21			
270.0	280.0	10.0	4.84	9.94			
Total		130.0	7.28	13.62			Core recovery - 97.9%
280.0	287.0	7.0	3.08	7.00			
287.0	290.0	3.0	1.88	7.27			
290.0	300.0	10.0	1.68	7.26			Gray-green slate
300.0	307.5	7.5	2.28	6.63			
307.5	310.0	2.5	2.32	10.59			Bottom of gray-green slate @ 307.5'
310.0	320.0	10.0	2.40	6.79			
Total		40.0	2.27	6.97			Core recovery - 96.5%
320.0	322.2	2.2	6.92	9.46			
322.2	330.0	7.8	5.20	9.21			Recrystallized
330.0	340.0	10.0	9.31	11.32			manganiferous
340.0	350.0	10.0	3.68	6.95			purple and
350.0	356.5	6.5	4.43	9.20			red slate
Total		36.5	5.88	9.18			Core recovery - 100.0%
356.5	360.0	3.5	15.20	10.02			
360.0	370.0	10.0	11.40	11.88			Recrystallized manganiferous
							purple and red slate

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 48 (cont'd.).

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
370.0	377.5	7.5	9.80	15.28			
Total		21.0	11.46	12.78			Core recovery - 98.1%
377.5	380.0	2.5	3.12	7.92			Recrystallized manganiferous purple and red slate
380.0	390.0	10.0	6.80	8.73			
390.0	400.0	10.0	3.00	6.63			
400.0	410.0	10.0	3.52	7.84			
410.0	420.0	10.0	2.12	6.22			
420.0	430.0	10.0	1.48	6.30			
430.0	437.5	7.5	4.20	7.27			
Total		60.0	3.47	7.19			Core recovery - 97.7%
437.5	440.0	2.5	8.80	8.25			Recrystallized manganiferous purple and red slate
440.0	450.0	10.0	11.08	12.85			
450.0	455.0	5.0	7.87	16.01			
455.0	460.0	5.0	7.15	19.73			
460.0	470.0	10.0	7.95	13.58			
470.0	474.2	4.2	11.56	12.61			
Total		36.7	9.15	14.08			Core recovery - 99.5%
474.2	480.0	5.8	2.83	10.67			Recrystallized manganiferous purple and red slate
480.0	490.0	10.0	5.35	21.34			
490.0	496.3	6.3	4.24	10.83			
Total		22.1	4.37	15.54			Core recovery - 100.0%
496.3	500.0	3.7	1.20	6.06			Top of green slate @ 496.3' Green slate
500.0	510.0	10.0	1.04	6.63			
510.0	515.0	5.0	.80	7.27			
Total		18.7	1.00	6.69			Core recovery - 94.1%
Total Core Sampled		485.0					Core recovery - 98.1%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 49

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	100.0						Gray-green slate
100.0	110.0	10.0	0.48	3.16			
110.0	120.0	10.0	.44	4.38			Gray-
120.0	130.0	10.0	.56	4.86			green slate
130.0	136.0	6.0	1.48	4.85			Bottom of gray-green slate @ 136.0'
Total		36.0	0.66	4.25			Core recovery - 99.2%
136.0	140.0	4.0	4.28	10.38			Recrystallized manganiferous purple and red slate
Total							Core recovery - 90.0%
140.0	150.0	10.0	6.72	5.68			Recrystallized manganiferous
150.0	160.0	10.0	7.20	9.81			purple and
160.0	170.0	10.0	6.36	18.00			red slate
Total		30.0	6.76	11.16			Core recovery - 97.75%
170.0	180.0	10.0	11.24	20.30			Manganiferous banded magnetite-chlorite rock in re-
Total							crystallized manganiferous purple and red slate
Total							Core recovery - 100.0%
180.0	192.0	12.0	2.72	6.81			Quartz-calcite veinlets with abundant
192.0	200.0	8.0	3.20	6.32			chloritic inclusions
Total		20.0	2.91	6.61			Core recovery - 97.0%
200.0	210.0	10.0	1.04	4.46			From 192'-217' recrystallized manganiferous
210.0	217.0	7.0	.88	5.51			purple and red slate
217.0	220.0	3.0	1.56	4.54			Top of gray-green slate @ 217.0'
220.0	230.0	10.0	.84	5.35			Fault @ 221.5' (?)
230.0	240.0	10.0	0.80	4.86			
240.0	250.0	10.0	1.20	5.84			
Total		50.0	0.99	5.15			Core recovery - 97.0%
250.0	333.0						Green slate 0° - 28°; fault at 315.0'
Total Core Sampled		150.0					Core recovery - 97.7%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 50

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	7.5						Overburden
7.5	90.0						Green slate
90.0	100.0	10.0	0.84	7.61			Green slate
100.0	110.0	10.0	1.00	4.70			Contact @ 121.0'
110.0	121.0	11.0	1.40	5.51			
Total		31.0	1.09	5.93			Core recovery - 99.0%
121.0	130.0	9.0	9.36	20.25			Manganiferous interbedded
130.0	140.0	10.0	5.56	17.01			hematitic and green slate
140.0	152.0	12.0	6.92	19.28			
Total		31.0	7.19	18.83			Core recovery - 98.7%
152.0	160.0	8.0	9.80	27.70			Manganiferous banded
160.0	170.0	10.0	10.60	29.16			hematite
170.0	180.0	10.0	11.00	27.22			
180.0	190.0	10.0	10.08	26.41			
190.0	200.0	10.0	12.92	18.63			
Total		48.0	10.93	25.75			Core recovery - 100.0%
200.0	203.0	3.0	7.92	10.04			Manganiferous interbedded hematitic and green slate Core recovery - 100.0%
203.0	210.0	7.0	2.88	6.48			Contact @ 203.0'
210.0	217.9	7.9	3.16	6.16			Above manganiferous rocks comprise a lens in green slate
217.9	220.0	2.1	.72	5.99			Green slate
220.0	230.0	10.0	.76	5.18			
Total		27.0	2.01	5.87			Core recovery - 100.0%
230.0	246.0						Green slate
Total Core Sampled		140.0					Core recovery - 99.5%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 51

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	75.0						
75.0	80.0	5.0	0.84	6.44			Green slate
80.0	90.0	10.0	.83	6.11			Green
90.0	99.5	9.5	1.60	6.52			slate
Total		24.5	1.13	6.34			Contact @ 99.5'
Core recovery - 100.0%							
99.5	110.0	10.5	4.31	18.50			
110.0	113.0	3.0	4.95	18.90			Manganiferous interbedded hematitic and green slate
Total		13.5	4.45	18.59			
Core recovery - 100.0%							
113.0	120.0	7.0	12.23	21.32			
120.0	130.0	10.0	11.51	24.54			Manganiferous
130.0	140.0	10.0	9.24	25.42			banded
140.0	150.0	10.0	12.08	26.95			hematite
Total		37.0	11.18	24.82			
Core recovery - 97.6%							
150.0	159.0	9.0	8.67	20.11			
159.0	166.0	7.0	4.07	7.88			Manganiferous interbedded hematitic and green slate
166.0	170.0	4.0	5.28	7.08			Contact @ 166.0'
Total		20.0	6.38	13.22			
Core recovery - 98.5%							
170.0	180.0	10.0	2.15	5.31			
180.0	190.0	10.0	.96	5.87			Above manganiferous rocks comprise a lens in green slate
Total		20.0	1.55	5.59			Green slate
Core recovery - 97.5%							
190.0	216.0						Green slate
Core recovery - 98.5%							
Total Core Sampled		115.0					

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 52 (cont'd.)

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig.3)
			Mn	Fe	Mn	Fe	
230.0	240.0	10.0	2.08	6.80			
240.0	245.0	5.0	.56	6.49			
245.0	250.0	5.0	1.04	6.16			
Total		110.0	1.25	6.56			Core recovery - 98.7%
250.0	261.6	11.6	5.00	10.78			Manganiferous chlorite-carbonate rock; (a lens in green slate)
261.6	270.0	8.4	9.60	20.27			
270.0	280.0	10.0	5.80	12.97			
Total		30.0	6.55	14.17			Core recovery - 100.0%
280.0	287.5	7.5	1.88	6.97			
287.5	290.0	2.5	.68	3.48			
290.0	300.0	10.0	.64	5.84			Green slate
300.0	310.0	10.0	.60	5.19			
310.0	320.0	10.0	.52	6.32			
320.0	330.0	10.0	.36	4.78			Limestone breccia @ 401'-409'
330.0	340.0	10.0	.68	4.70			
340.0	350.0	10.0	.48	3.40			
350.0	360.0	10.0	.84	4.46			
360.0	370.0	10.0	.60	3.97			
370.0	380.0	10.0	1.40	3.89			
380.0	390.0	10.0	2.28	5.35			
390.0	401.0	11.0	.96	3.89			
Total		121.0	0.91	4.82			Core recovery - 94.6%
401.0	488.0						Green calcareous slate
Total Core Sampled		381.0					Core recovery - 97.5%
0.0	20.0						Green slate
20.0	30.0	10.0	0.60	6.97			Green slate
30.0	40.0	10.0	.96	6.48			Contact @ 44.0'
40.0	44.0	4.0	1.55	7.45			
Total		24.0	0.91	6.85			Core recovery - 96.3%
44.0	50.0	6.0	7.25	15.39			Manganiferous interbedded hematitic and green slate
50.0	60.0	10.0	9.73	24.30			
60.0	70.0	10.0	9.35	23.33			
70.0	80.0	10.0	9.87	22.11			These manganiferous rocks comprise a lens in green slate
80.0	90.0	10.0	9.72	21.55			
90.0	100.0	10.0	8.48	20.25			
100.0	110.0	10.0	6.04	20.57			
110.0	112.0	2.0	15.87	17.01			
112.0	120.0	8.0	6.00	20.09			
120.0	130.0	10.0	5.20	12.96			Contact @ 140.0'
130.0	140.0	10.0	8.60	15.71			
Total		96.0	8.26	19.80			Core recovery - 99.3%
140.0	150.2	10.2	2.71	9.96			
150.2	160.0	9.8	.95	7.94			Green slate
160.0	168.0	8.0	.44	5.51			
168.0	180.0	12.0	.68	5.91			
180.0	190.0	10.0	2.95	9.56			
190.0	200.0	10.0	.48	6.48			
200.0	210.0	10.0	.56	5.67			
210.0	220.0	10.0	.84	4.70			Fault @ 210.0'
220.0	230.0	10.0	1.16	6.16			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 53							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.0						
4.0	510.0						Overburden
510.0	520.0	10.0	0.60	4.50			Gray-green slate
520.0	530.4	10.4	.88	4.34			
530.4	540.0	9.6	1.04	9.96			
540.0	550.0	10.0	2.81	8.03			Bottom of gray-green slate @ 530.4'
550.0	560.0	10.0	.88	5.06			
560.0	570.0	10.0	2.92	8.68			
570.0	580.0	10.0	.88	4.50			Manganiferous
580.0	590.0	10.0	1.44	5.46			
590.0	601.8	11.8	4.32	9.92			purple
601.8	610.0	8.2	2.64	6.42			
610.0	620.0	10.0	1.52	6.10			and
620.0	630.0	10.0	.64	4.82			
630.0	640.0	10.0	1.84	7.71			red
640.0	650.0	10.0	1.04	7.87			
650.0	660.0	10.0	.96	4.98			slate
660.0	670.0	10.0	1.52	5.46			
670.0	680.0	10.0	1.16	6.26			
680.0	690.0	10.0	1.64	4.82			
690.0	700.0	10.0	.96	4.82			
700.0	710.0	10.0	.92	5.30			
710.0	720.0	10.0	1.32	6.42			
720.0	730.0	10.0	1.36	8.84			
730.0	740.0	10.0	.84	6.10			
740.0	750.0	10.0	.68	6.26			
Total	240.0		1.44	5.93			Core recovery - 99.8%

Diamond Drill Hole 54							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	24.2						
24.2	30.0	5.8	3.92	14.46			Manganiferous purple and red slate
30.0	40.0	10.0	9.60	13.50			Core recovery - 100.0%
40.0	50.0	10.0	3.36	9.48			Manganiferous purple and
50.0	54.0	4.0	4.52	6.59			red slate
Total	24.0		6.15	10.67			Core recovery - 95.8%
54.0	60.0	6.0	12.40	20.24			
60.0	70.0	10.0	8.12	27.40			Top of manganiferous banded hematite @ 54.0'
70.0	80.0	10.0	10.72	26.03			
80.0	90.0	10.0	10.64	23.94			
90.0	100.0	10.0	12.20	24.83			
100.0	110.0	10.0	10.20	24.91			Manganiferous banded hematite
110.0	120.0	10.0	10.84	27.80			
120.0	131.5	11.5	10.76	20.41			Bottom of manganiferous banded hematite @ 131.5'
Total	77.5		10.65	24.58			Core recovery - 99.5%
131.5	140.0	8.5	2.16	14.78			
140.0	150.0	10.0	5.84	22.50			Manganiferous interbedded
150.0	160.0	10.0	5.88	24.75			hematitic and green slate
160.0	166.0	6.0	3.32	6.59			
Total	34.5		4.50	18.48			Core recovery - 100.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 53

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.0						
4.0	510.0						Overburden
510.0	520.0	10.0	0.60	4.50			Gray-green slate
520.0	530.4	10.4	.88	4.34			
530.4	540.0	9.6	1.04	9.96			
540.0	550.0	10.0	2.81	8.03			Bottom of gray-green slate @ 530.4'
550.0	560.0	10.0	.88	5.06			
560.0	570.0	10.0	2.92	8.68			
570.0	580.0	10.0	.88	4.50			Manganiferous
580.0	590.0	10.0	1.44	5.46			
590.0	601.8	11.8	4.32	9.92			purple
601.8	610.0	8.2	2.64	6.42			
610.0	620.0	10.0	1.52	6.10			and
620.0	630.0	10.0	.64	4.82			
630.0	640.0	10.0	1.84	7.71			red
640.0	650.0	10.0	1.04	7.87			
650.0	660.0	10.0	.96	4.98			slate
660.0	670.0	10.0	1.52	5.46			
670.0	680.0	10.0	1.16	6.26			
680.0	690.0	10.0	1.64	4.82			
690.0	700.0	10.0	.96	4.82			
700.0	710.0	10.0	.92	5.30			
710.0	720.0	10.0	1.32	6.42			
720.0	730.0	10.0	1.36	8.84			
730.0	740.0	10.0	.84	6.10			
740.0	750.0	10.0	.68	6.26			
Total		240.0	1.44	5.93			Core recovery - 99.8%

Diamond Drill Hole 54

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	24.2						
24.2	30.0	5.8	3.92	14.46			Manganiferous purple and red slate
							Core recovery - 100.0%
30.0	40.0	10.0	9.60	13.50			
40.0	50.0	10.0	3.36	9.48			Manganiferous purple and
50.0	54.0	4.0	4.52	6.59			red slate
Total		24.0	6.15	10.67			Core recovery - 95.8%
54.0	60.0	6.0	12.40	20.24			
60.0	70.0	10.0	8.12	27.40			Top of manganiferous banded hematite @ 54.0'
70.0	80.0	10.0	10.72	26.03			
80.0	90.0	10.0	10.64	23.94			
90.0	100.0	10.0	12.20	24.83			
100.0	110.0	10.0	10.20	24.91			Manganiferous banded hematite
110.0	120.0	10.0	10.84	27.80			
120.0	131.5	11.5	10.76	20.41			Bottom of manganiferous banded hematite @ 131.5'
Total		77.5	10.65	24.58			Core recovery - 99.5%
131.5	140.0	8.5	2.16	14.78			
140.0	150.0	10.0	5.84	22.50			Manganiferous interbedded
150.0	160.0	10.0	5.88	24.75			hematitic and green slate
160.0	166.0	6.0	3.32	6.59			
Total		34.5	4.50	18.48			Core recovery - 100.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 54 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
166.0	170.0	4.0	10.76	20.89			Manganiferous banded hematite interbeds in the manganiferous interbedded hematitic and green slate unit
170.0	180.0	10.0	11.12	19.60			
180.0	187.0	7.0	8.72	20.89			
187.0	190.0	3.0	8.96	20.73			
190.0	194.0	4.0	10.00	18.48			
194.0	200.0	6.0	10.16	27.16			
200.0	204.8	4.8	11.60	23.78			
Total		38.8	10.29	21.62			Core recovery - 97.9%
Top of green slate @ 204.8'							
204.8	210.0	5.2	4.52	14.14			Green slate (Occasional hematitic interbeds between 204.8'-229.0')
210.0	220.0	10.0	1.64	9.64			
220.0	229.0	9.0	3.48	11.49			
229.0	240.0	11.0	2.80	6.10			
240.0	250.0	10.0	2.32	6.10			
Total		45.2	2.71	8.88			Core recovery - 99.8%
Green slate							
250.0	271.0						
Total Core Sampled		225.8					Core recovery - 99.0%

Diamond Drill Hole 55

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.5						Overburden Gray-green slate Gray-green slate Contact @ 105.3'
6.5	90.0						
90.0	100.0	10.0	0.88	5.95			
100.0	105.3	5.3	2.28	8.24			
Total		15.3	1.36	6.74			Core recovery - 98.0%
105.3	110.0	4.7	8.00	21.53			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	8.00	17.37			
120.0	129.3	9.3	5.32	14.92			
Total		24.0	6.96	17.24			Core recovery - 93.3%
129.3	140.0	10.7	10.28	19.41			Manganiferous banded hematite contact @ 140.0' Core recovery - 99.1%
140.0	151.0	11.0	2.40	6.93			
Total		21.7	12.68	26.34			Above manganiferous rocks comprise a lens in green slate - Green slate Core recovery - 94.5%
151.0	160.0	9.0	0.72	4.73			Green slate
160.0	170.0	10.0	.32	5.38			
Total		19.0	0.51	5.07			Core recovery - 100.0%
Green slate							
170.0	185.0						
Total Core Sampled		80.0					Core recovery - 96.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 54 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
166.0	170.0	4.0	10.76	20.89			Manganiferous banded hematite interbeds in the manganiferous interbedded hematitic and green slate unit
170.0	180.0	10.0	11.12	19.60			
180.0	187.0	7.0	8.72	20.89			
187.0	190.0	3.0	8.96	20.73			
190.0	194.0	4.0	10.00	18.48			
194.0	200.0	6.0	10.16	27.16			
200.0	204.8	4.8	11.60	23.78			
Total		38.8	10.29	21.62			Core recovery - 97.9%
Top of green slate @ 204.8'							
204.8	210.0	5.2	4.52	14.14			Green slate (Occasional hematitic interbeds between 204.8'-229.0')
210.0	220.0	10.0	1.64	9.64			
220.0	229.0	9.0	3.48	11.49			
229.0	240.0	11.0	2.80	6.10			
240.0	250.0	10.0	2.32	6.10			
Total		45.2	2.71	8.88			Core recovery - 99.8%
Green slate							
250.0	271.0						
Total Core Sampled		225.8					Core recovery - 99.0%

Diamond Drill Hole 55

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.5						Overburden Gray-green slate Gray-green slate Contact @ 105.3'
6.5	90.0						
90.0	100.0	10.0	0.88	5.95			
100.0	105.3	5.3	2.28	8.24			
Total		15.3	1.36	6.74			Core recovery - 98.0%
105.3	110.0	4.7	8.00	21.53			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	8.00	17.37			
120.0	129.3	9.3	5.32	14.92			
Total		24.0	6.96	17.24			Core recovery - 93.3%
129.3	140.0	10.7	10.28	19.41			Manganiferous banded hematite contact @ 140.0' Core recovery - 99.1%
140.0	151.0	11.0	2.40	6.93			
Total		21.7	12.68	26.34			Above manganiferous rocks comprise a lens in green slate - Green slate Core recovery - 94.5%
151.0	160.0	9.0	0.72	4.73			Green slate
160.0	170.0	10.0	.32	5.38			
Total		19.0	0.51	5.07			Core recovery - 100.0%
Green slate							
170.0	185.0						
Total Core Sampled		80.0					Core recovery - 96.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 56							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						
3.0	70.0						Overburden
70.0	80.0	10.0	1.88	8.92			Gray-green slate
80.0	89.0	9.0	1.04	5.84			
89.0	95.5	6.5	2.48	6.97			Gray-green slate
Total		25.5	1.74	7.34			Contact @ Core recovery - 89.4%
95.5	100.0	4.5	15.08	15.08			
100.0	110.0	10.0	6.76	23.43			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	6.08	16.79			
Total		24.5	8.01	19.18			Core recovery - 98.0%
120.0	130.0	10.0	11.16	24.17			Manganiferous banded hematite Core recovery - 93.0%
130.0	136.5	6.5	6.52	19.46			
136.5	144.0	7.5	11.51	27.82			Manganiferous interbedded hematitic and green slate
144.0	148.6	4.6	5.60	7.22			Contact @ 144.8'
Total		18.6	8.30	19.80			Core recovery - 97.3%
148.6	160.0	11.4	0.68	3.89			
160.0	170.0	10.0	.52	5.68			Above manganiferous rocks comprise a lens in green slate Green slate
Total		21.4	0.61	4.73			Core recovery - 96.3%
170.0	194.5						Green slate
Total Core Sampled		100.0					Core recovery - 94.8%

Diamond Drill Hole 57							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.0						
6.0	10.0	4.0	17.95	12.77			Overburden
10.0	20.0	10.0	9.51	26.03			Green slate; contact @ 10.0'
Total		14.0	11.92	22.24			Manganiferous interbedded hematitic & green slate Core recovery - 24.3%
20.0	22.5	2.5	4.24	17.14			
22.5	30.0	7.5	9.43	21.02			Recrystallized manganiferous interbedded hematitic and green slate
30.0	40.0	10.0	9.80	28.78	12.15	22.55	
40.0	42.5	2.5	4.60	21.34			
42.5	50.0	7.5	13.48	10.35			
50.0	60.0	10.0	7.23	13.58			
60.0	70.0	10.0	5.56	20.86			
70.0	80.0	10.0	6.15	22.64			
80.0	90.0	10.0	3.36	14.31			
90.0	92.0	2.0	4.43	18.76			
92.0	100.0	8.0	12.47	22.64			
100.0	110.0	10.0	9.07	23.33			
110.0	120.0	10.0	4.20	22.18			
Total		100.0			7.80	19.43	Core recovery - 95.5%
120.0	130.0	10.0	11.00	23.77			
130.0	132.5	2.5	10.43	15.84			Recrystallized Manganiferous banded hematite Contact @ 132.5'
Total		12.5	10.89	22.18			Core recovery - 100.0%
132.5	140.0	7.5	5.47	5.98			Above manganiferous rocks comprise a lens in green slate Green slate

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 56							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						
3.0	70.0						Overburden
70.0	80.0	10.0	1.88	8.92			Gray-green slate
80.0	89.0	9.0	1.04	5.84			
89.0	95.5	6.5	2.48	6.97			Gray-green slate
Total		25.5	1.74	7.34			Contact @ Core recovery - 89.4%
95.5	100.0	4.5	15.08	15.08			
100.0	110.0	10.0	6.76	23.43			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	6.08	16.79			
Total		24.5	8.01	19.18			Core recovery - 98.0%
120.0	130.0	10.0	11.16	24.17			Manganiferous banded hematite Core recovery - 93.0%
130.0	136.5	6.5	6.52	19.46			
136.5	144.0	7.5	11.51	27.82			Manganiferous interbedded hematitic and green slate
144.0	148.6	4.6	5.60	7.22			Contact @ 144.8'
Total		18.6	8.30	19.80			Core recovery - 97.3%
148.6	160.0	11.4	0.68	3.89			
160.0	170.0	10.0	.52	5.68			Above manganiferous rocks comprise a lens in green slate Green slate
Total		21.4	0.61	4.73			Core recovery - 96.3%
170.0	194.5						Green slate
Total Core Sampled		100.0					Core recovery - 94.8%

Diamond Drill Hole 57							
Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	6.0						
6.0	10.0	4.0	17.95	12.77			Overburden
10.0	20.0	10.0	9.51	26.03			Green slate; contact @ 10.0'
Total		14.0	11.92	22.24			Manganiferous interbedded hematitic & green slate Core recovery - 24.3%
20.0	22.5	2.5	4.24	17.14			
22.5	30.0	7.5	9.43	21.02			Recrystallized manganiferous interbedded hematitic and green slate
30.0	40.0	10.0	9.80	28.78	12.15	22.55	
40.0	42.5	2.5	4.60	21.34			
42.5	50.0	7.5	13.48	10.35			
50.0	60.0	10.0	7.23	13.58			
60.0	70.0	10.0	5.56	20.86			
70.0	80.0	10.0	6.15	22.64			
80.0	90.0	10.0	3.36	14.31			
90.0	92.0	2.0	4.43	18.76			
92.0	100.0	8.0	12.47	22.64			
100.0	110.0	10.0	9.07	23.33			
110.0	120.0	10.0	4.20	22.18			
Total		100.0			7.80	19.43	Core recovery - 95.5%
120.0	130.0	10.0	11.00	23.77			
130.0	132.5	2.5	10.43	15.84			Recrystallized Manganiferous banded hematite Contact @ 132.5'
Total		12.5	10.89	22.18			Core recovery - 100.0%
132.5	140.0	7.5	5.47	5.98			Above manganiferous rocks comprise a lens in green slate Green slate

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 57 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
140.0	150.0	10.0	0.95	5.17			Green slate Core recovery - 100.0%
150.0	189.0						Green slate 52° - 82° Faults at 155' - 170'
Total Core Sampled		144.0					Core recovery - 89.4%

Diamond Drill Holes 58

Footage From-	Footage To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	3.0						Overburden
3.0	50.0						Gray-green slate
50.0	60.0	10.0	0.68	5.94			
60.0	71.2	11.2	1.52	8.30			Gray-green slate
Total		21.2	1.12	7.19			Core recovery - 98.6%
71.2	78.0	6.8	5.40	10.01			Dark Green slate - Contact @ 78.0' Core recovery - 100.0%
78.0	81.0	3.0	9.72	26.05			
81.0	90.0	9.0	11.56	17.05			Recrystallized manganiferous interbedded hematitic and green slate
Total		12.0	11.10	19.30			Core recovery - 100.0%
90.0	100.0	10.0	7.76	16.77			
100.0	110.0	10.0	5.52	24.01			
110.0	120.0	10.0	4.68	20.84			Recrystallized manganiferous, interbedded
120.0	124.5	4.5	6.08	24.99			hematitic and green slate
124.5	134.0	9.5	7.80	28.65			
134.0	140.0	6.0	8.24	12.86			
140.0	150.0	10.0	7.16	15.55			
Total		60.0	6.70	20.72			Core recovery - 97.3%
150.0	160.0	10.0	11.60	16.93			Recrystallized manganiferous interbedded hematitic and green slate Core recovery - 100.0%
160.0	170.0	10.0	8.96	11.31			Recrystallized manganiferous interbedded hematitic and green slate
170.0	172.5	2.5	4.72	15.47			Contact @ 172.5'
Total		12.5	8.11	12.14			Core recovery - 100.0%
172.5	180.0	7.5	1.08	6.67			Above manganiferous rocks comprise a lens in green slate
180.0	190.0	10.0	1.16	6.76			Green slate
Total		17.5	1.13	6.72			Core recovery - 100.0%
190.0	196.0						Green slate
Total Core Sampled		140.0					Core recovery - 98.6%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 59

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.5						Overburden
4.5	110.0						Gray-green slate
110.0	120.0	10.0	0.80	5.83			Gray-green slate
120.0	126.4	6.4	.64	6.48			Contact @ 126.4'
Total		16.4	0.74	6.08			Core recovery - 100.0%
126.4	134.0	7.6	9.56	18.47			Recrystallized manganiferous banded hematite
134.0	140.0	6.0	11.32	22.52			
Total		13.6	10.34	20.26			Core recovery - 100.0%
140.0	150.0	10.0	7.36	14.42			Recrystallized manganiferous interbedded hematitic and green slate
150.0	160.0	10.0	8.56	19.60			
160.0	170.0	10.0	5.52	15.55			
Total		30.0	7.15	16.52			Core recovery - 100.0%
170.0	180.0	10.0	9.12	22.76			Recrystallized Manganiferous banded hematite
180.0	190.0	10.0	10.84	21.14			
190.0	201.8	11.8	11.56	25.68			
Total		31.8	10.57	23.33			Core recovery - 100.0%
201.8	208.0	6.2	5.24	15.71			Recrystallized manganiferous interbedded hematitic and green slate - contact @ 208.0'
							Core recovery - 100.0%
208.0	220.0	12.0	0.56	5.18			Above manganiferous rocks comprise a lens in green slate
220.0	230.0	10.0	.68	5.67			
Total		22.0	0.61	5.40			Core recovery - 100.0%
230.0	243.0						Green slate - 32° - 42°
Total Core Sampled		120.0					Core recovery - 100.0%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 60

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks & Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	4.5						Overburden
4.5	40.0						Gray-green slate
40.0	50.0	10.0	0.60	5.14			
50.0	57.0	7.0	.72	4.66			Gray-green slate
57.0	68.0	11.0	2.12	7.55			contact @ 77.0'
68.0	77.0	9.0	2.36	6.67			
Total		37.0	1.52	6.14			Core recovery - 100.0%
77.0	80.0	3.0	8.00	13.82			Manganiferous
80.0	90.0	10.0	13.52	12.69			
90.0	100.0	10.0	11.80	19.76			banded
100.0	110.0	10.0	8.44	15.91			
110.0	120.0	10.0	10.44	17.76			hematite
120.0	130.0	10.0	10.64	22.66			
130.0	138.0	8.0	12.44	20.24			
Total		61.0	11.02	17.89			Core recovery - 98.4%
138.0	140.0	2.0	3.68	16.63			Manganiferous interbedded hematitic and green slate - contact @ 155'.
140.0	150.0	10.0	7.52	19.28			The above manganiferous rocks comprise a lens in green slate
150.0	155.0	5.0	1.20	6.75			Green slate
155.0	166.0	11.0	7.43	18.08			
Total		28.0	6.10	16.38			Core recovery - 100.0%
Total Core Sampled		126.0					Core recovery - 99.2%

Diamond Drill Hole 61

Footage From-	To-	Sample Interval Feet	Core Assay, %		Combined Core and Sludge Assay, %		Remarks and Lithology (See Explanation, Fig. 3)
			Mn	Fe	Mn	Fe	
0.0	8.0						Overburden
8.0	228.5						Gray-green slate
228.5	332.0						Gray-green slate
332.0	340.0	8.0	0.84	4.02			Gray-
340.0	350.0	10.0	2.20	8.03			green slate
350.0	361.0	11.0	1.96	5.78			contact @ 361'
Total		29.0	1.73	6.07			Core recovery - 99.3%
361.0	370.0	9.0	7.72	19.04			Manganiferous interbedded
370.0	380.0	10.0	9.44	16.87			hematitic and
380.0	390.0	10.0	3.24	10.28			green slate
390.0	400.0	10.0	7.76	13.82			contact @ 409.2'
400.0	409.2	9.2	8.88	15.91			
Total		48.2	7.38	15.09			Core recovery - 98.5%
409.2	420.0	10.8	2.20	4.90			The above manganiferous rocks comprise a lens in green slate
420.0	430.0	10.0	3.40	4.98			Green slate
Total		20.8	2.78	4.94			Core recovery - 98.1%
Total Core Sampled		98.0					Core recovery - 98.7%

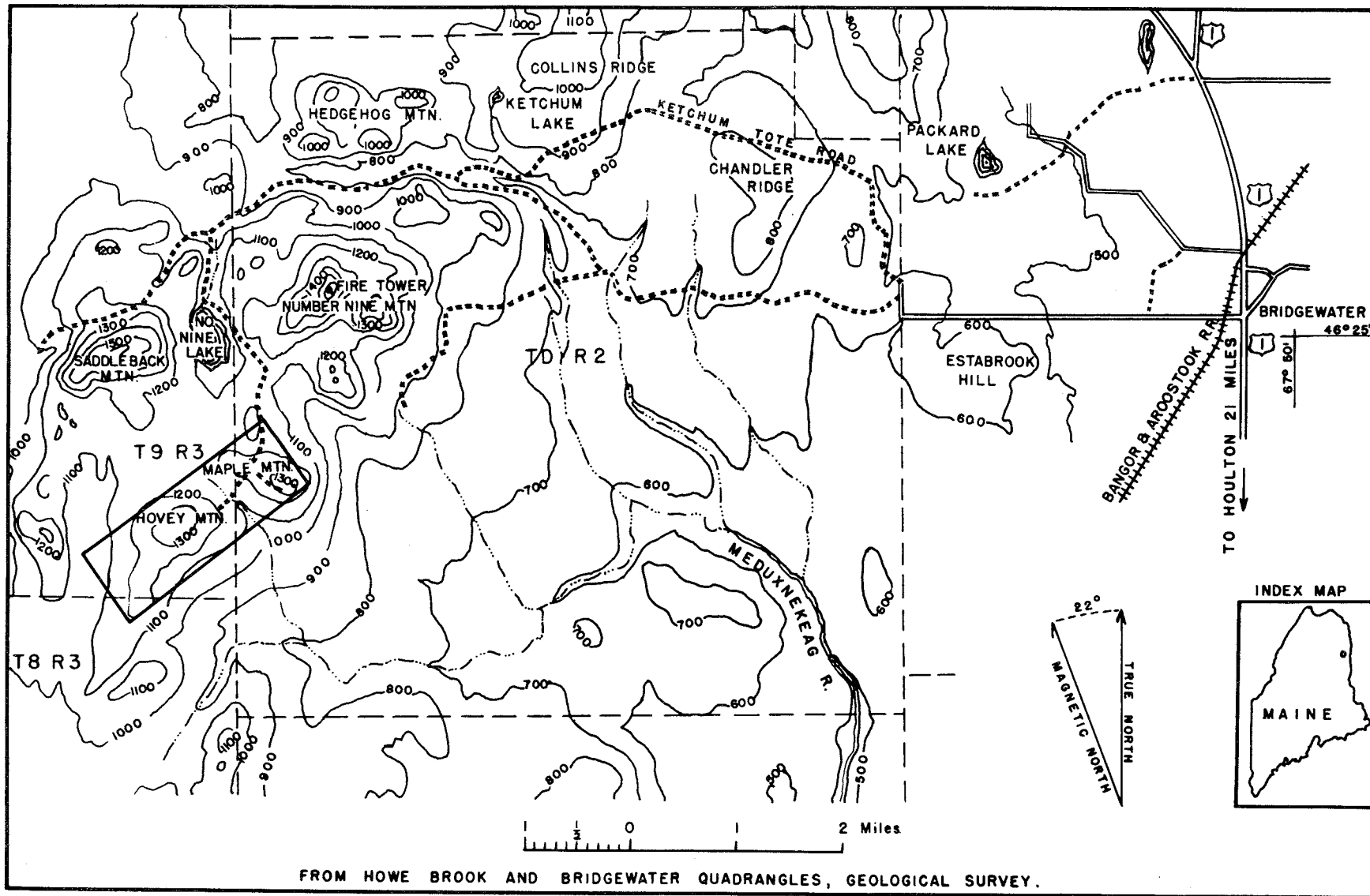
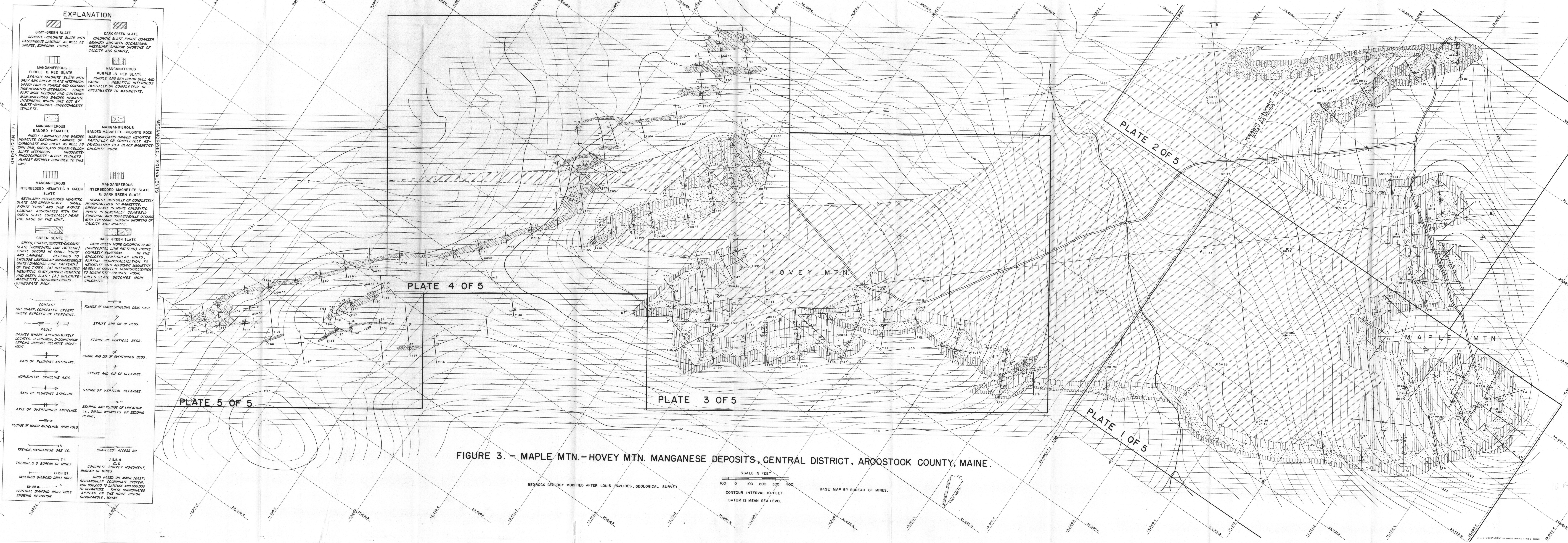


Figure 2. - Location map, Maple Mountain-Hovey Mountain manganese deposit, Aroostook County, Maine.



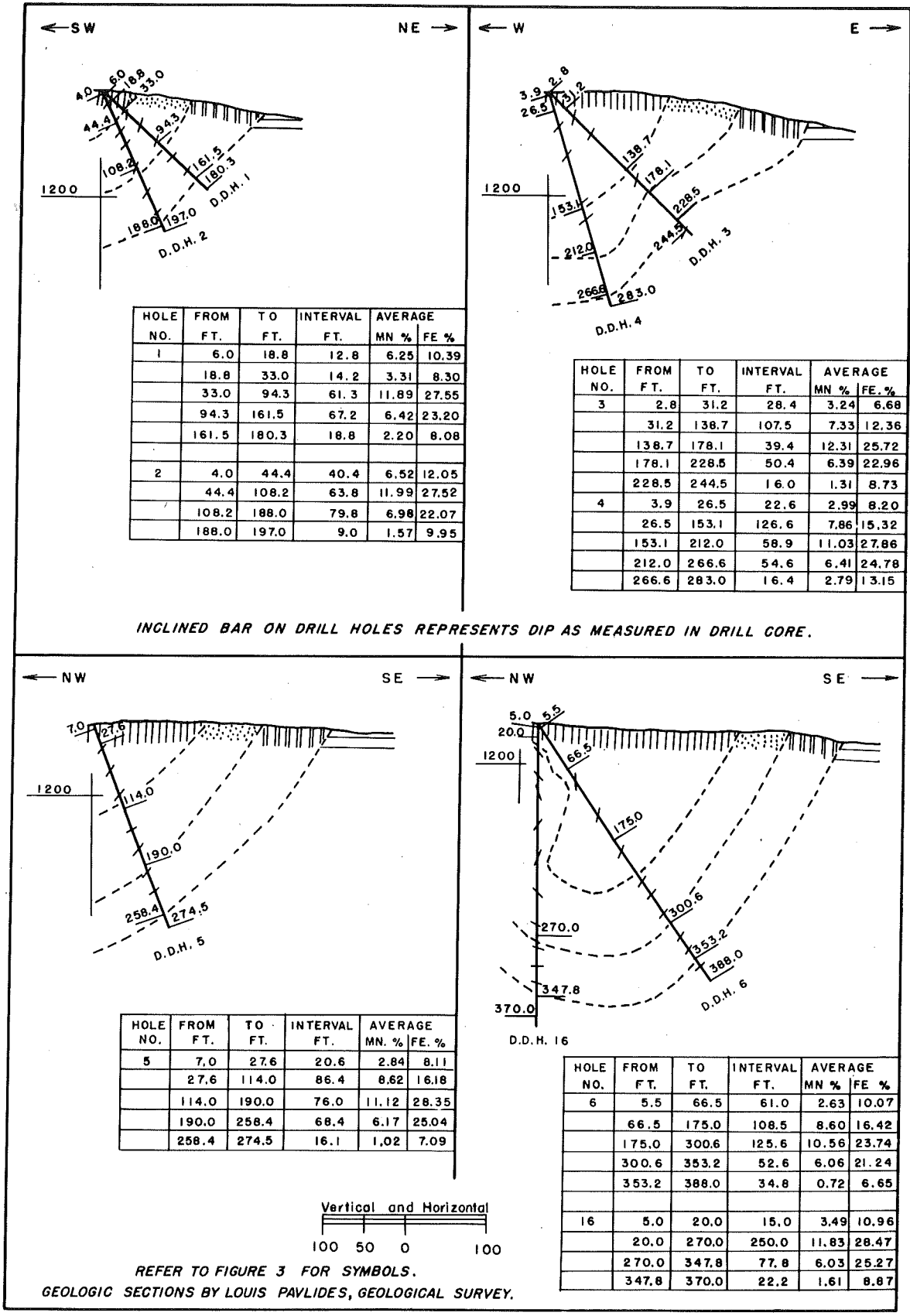
EXPLANATION	
	GRAY-GREEN SLATE SERICITE-CHLORITE SLATE WITH CALCAREOUS LAMINAE AS WELL AS SPARSE, EDGED PYRITE.
	DARK GREEN SLATE CHLORITIC SLATE, PYRITE COARSELY GRAINED AND WITH OCCASIONAL PRESSURE SHADOW GROWTHS OF CALCITE AND QUARTZ.
	MANGANIFEROUS PURPLE & RED SLATE SERICITE-CHLORITE SLATE WITH GRAY AND GREEN SLATE INTERBEDS. UPPER PART IS PURPLE AND CONTAINS THIN HEMATITE INTERBEDS. LOWER PART MORE REDDISH AND CONTAINS MANGANIFEROUS BANDED HEMATITE INTERBEDS, WHICH ARE CUT BY ALBITE-RHODONITE-RHODOCHROSITE VEINLETS.
	MANGANIFEROUS PURPLE & RED SLATE PURPLE AND RED COLOR DULL AND VAGUE. HEMATITE INTERBEDS PARTIALLY OR COMPLETELY RE- CRYSTALLIZED TO MAGNETITE.
	MANGANIFEROUS BANDED HEMATITE FINELY LAMINATED AND BANDED HEMATITE CONTAINING LAMINAE OF CARBONATE AND CHERT AS WELL AS THIN GRAY, GREEN, AND CREAM-YELLOW SLATE INTERBEDS. RHODONITE- RHODOCHROSITE-ALBITE VEINLETS ALMOST ENTIRELY CONFINED TO THIS UNIT.
	MANGANIFEROUS BANDED MAGNETITE-CHLORITE ROCK MANGANIFEROUS BANDED HEMATITE PARTIALLY OR COMPLETELY RE- CRYSTALLIZED TO A BLACK MAGNETITE CHLORITE ROCK.
	MANGANIFEROUS INTERBEDDED HEMATITE & GREEN SLATE REGULARLY INTERBEDDED HEMATITE SLATE AND GREEN SLATE. SMALL PYRITE "PODS" AND THIN PYRITE LAMINAE ASSOCIATED WITH THE GREEN SLATE ESPECIALLY NEAR THE BASE OF THE UNIT.
	MANGANIFEROUS INTERBEDDED MAGNETITE SLATE & DARK GREEN SLATE HEMATITE PARTIALLY OR COMPLETELY RECRYSTALLIZED TO MAGNETITE. GREEN SLATE IS MORE CHLORITIC. PYRITE IS GENERALLY COARSELY EDGED AND OCCASIONALLY OCCURS WITH PRESSURE SHADOW GROWTHS OF CALCITE AND QUARTZ.
	GREEN SLATE GREEN, PYRITIC, SERICITE-CHLORITE SLATE (HORIZONTAL LINE PATTERN). PYRITE OCCURS IN SMALL "PODS" AND LAMINAE. BELIEVED TO ENCLOSE LENTICULAR MANGANIFEROUS UNITS (DIAGONAL LINE PATTERN) OF TWO TYPES: (a) INTERBEDDED HEMATITE SLATE, BANDED HEMATITE AND GREEN SLATE; (b) CHLORITIC MAGNETITE MANGANIFEROUS CARBONATE ROCK.
	DARK GREEN SLATE DARK GREEN MORE CHLORITIC SLATE (HORIZONTAL LINE PATTERN). PYRITE COARSELY GRAINED IN THE ENCLOSED LENTICULAR UNITS. PARTIAL RECRYSTALLIZATION TO HEMATITE WITH ABUNDANT MAGNETITE AS WELL AS COMPLETE RECRYSTALLIZATION TO MAGNETITE-CHLORITE ROCK. GREEN SLATE BECOMES MORE CHLORITIC.
	CONTACT NOT SHARP, CONCEALED EXCEPT WHERE EXPOSED BY TRENCHING.
	FAULT DASHED WHERE APPROXIMATELY LOCATED. U-UPTHROW, D-DOWNTHROW ARROWS INDICATE RELATIVE MOVE- MENT.
	AXIS OF PLUNGING ANTICLINE.
	HORIZONTAL SYNCLINE AXIS.
	AXIS OF PLUNGING SYNCLINE.
	AXIS OF OVERTURNED ANTICLINE. i.e., SMALL WRINKLES OF BEDDING PLANE.
	PLUNGE OF MINOR ANTICLINAL DRAG FOLD.
	PLUNGE OF MINOR SYNCLINAL DRAG FOLD.
	STRIKE AND DIP OF BEDS.
	STRIKE AND DIP OF VERTICAL BEDS.
	STRIKE AND DIP OF OVERTURNED BEDS.
	STRIKE AND DIP OF CLEAVAGE.
	STRIKE AND DIP OF VERTICAL CLEAVAGE.
	BEARING AND PLUNGE OF LINEATION i.e., SMALL WRINKLES OF BEDDING PLANE.
	TRENCH, MANGANESE ORE CO.
	TRENCH, U.S. BUREAU OF MINES.
	INCLINED DIAMOND DRILL HOLE.
	VERTICAL DIAMOND DRILL HOLE SHOWING DEVIATION.
	GRAVELED ACCESS RD.
	U.S.B.M. CONCRETE SURVEY MONUMENT, BUREAU OF MINES.
	GRID BASED ON MAINE (EAST) RECTANGULAR COORDINATE SYSTEM 400 000,000 TO LATITUDE AND 800,000 TO DEPARTURE. THESE COORDINATES APPEAR ON THE HOWE BROOK QUADRANGLE, MAINE.

FIGURE 3. - MAPLE MTN.-HOVEY MTN. MANGANESE DEPOSITS, CENTRAL DISTRICT, AROOSTOOK COUNTY, MAINE.

SCALE IN FEET
0 100 200 300 400
CONTOUR INTERVAL 10 FEET.
DATUM IS MEAN SEA LEVEL.

BASE MAP BY BUREAU OF MINES.

BEDROCK GEOLOGY MODIFIED AFTER LOUIS PAVLIDES, GEOLOGICAL SURVEY.



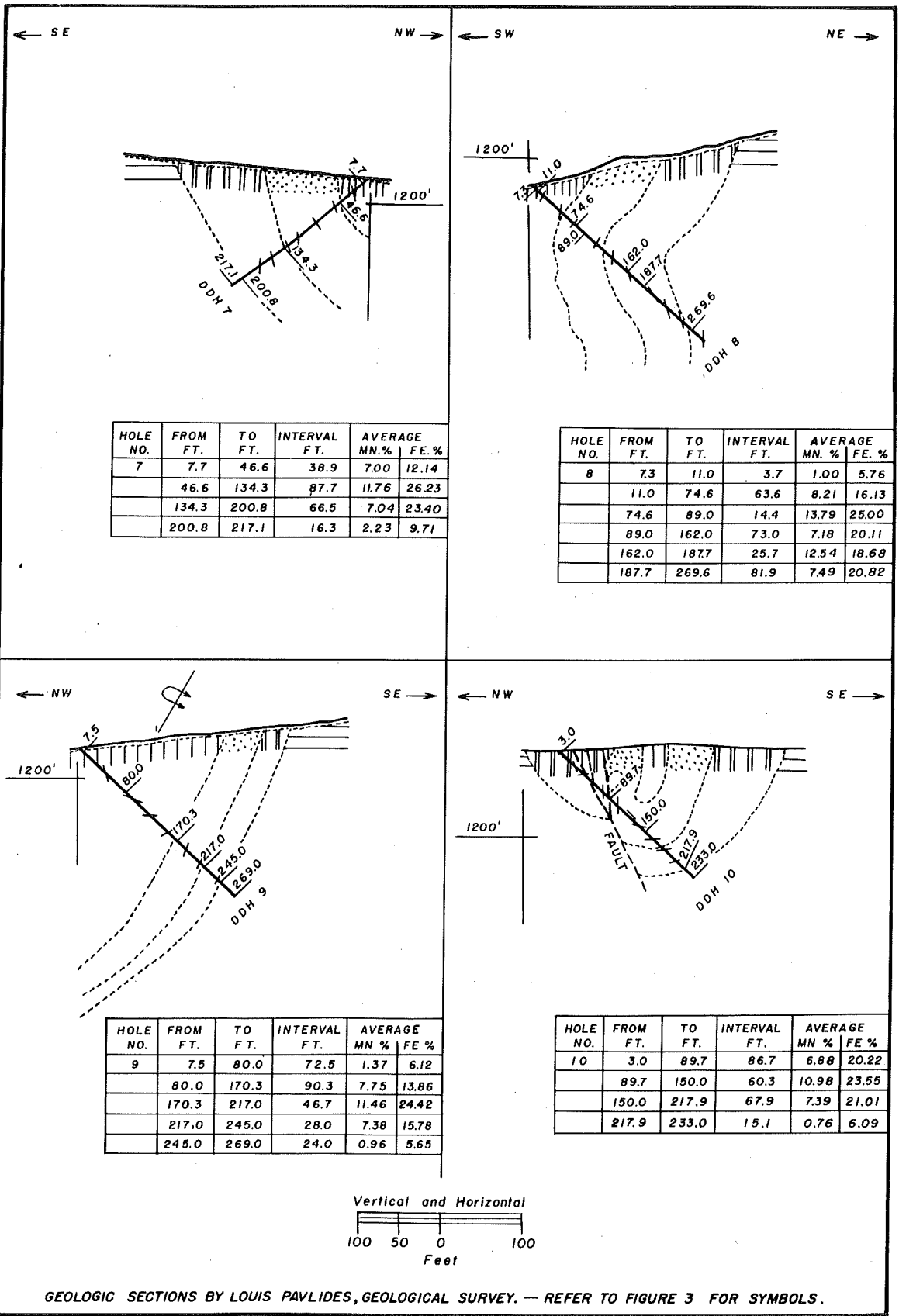
HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE	
				MN %	FE %
1	6.0	18.8	12.8	6.25	10.39
	18.8	33.0	14.2	3.31	8.30
	33.0	94.3	61.3	11.89	27.55
	94.3	161.5	67.2	6.42	23.20
2	4.0	44.4	40.4	6.52	12.05
	44.4	108.2	63.8	11.99	27.52
	108.2	188.0	79.8	6.98	22.07
	188.0	197.0	9.0	1.57	9.95

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE	
				MN %	FE %
3	2.8	31.2	28.4	3.24	6.68
	31.2	138.7	107.5	7.33	12.36
	138.7	178.1	39.4	12.31	25.72
	178.1	228.5	50.4	6.39	22.96
4	3.9	26.5	22.6	2.99	8.20
	26.5	153.1	126.6	7.86	15.32
	153.1	212.0	58.9	11.03	27.86
	212.0	266.6	54.6	6.41	24.78
	266.6	283.0	16.4	2.79	13.15

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE	
				MN %	FE %
5	7.0	27.6	20.6	2.84	8.11
	27.6	114.0	86.4	8.62	16.18
	114.0	190.0	76.0	11.12	28.35
	190.0	258.4	68.4	6.17	25.04
	258.4	274.5	16.1	1.02	7.09

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE	
				MN %	FE %
6	5.5	66.5	61.0	2.63	10.07
	66.5	175.0	108.5	8.60	16.42
	175.0	300.6	125.6	10.56	23.74
	300.6	353.2	52.6	6.06	21.24
16	5.0	20.0	15.0	3.49	10.96
	20.0	270.0	250.0	11.83	28.47
	270.0	347.8	77.8	6.03	25.27
	347.8	370.0	22.2	1.61	8.87

Figure 16. - Vertical assay sections through drill holes 1, 2, 3, 4, 5, 6, and 16.



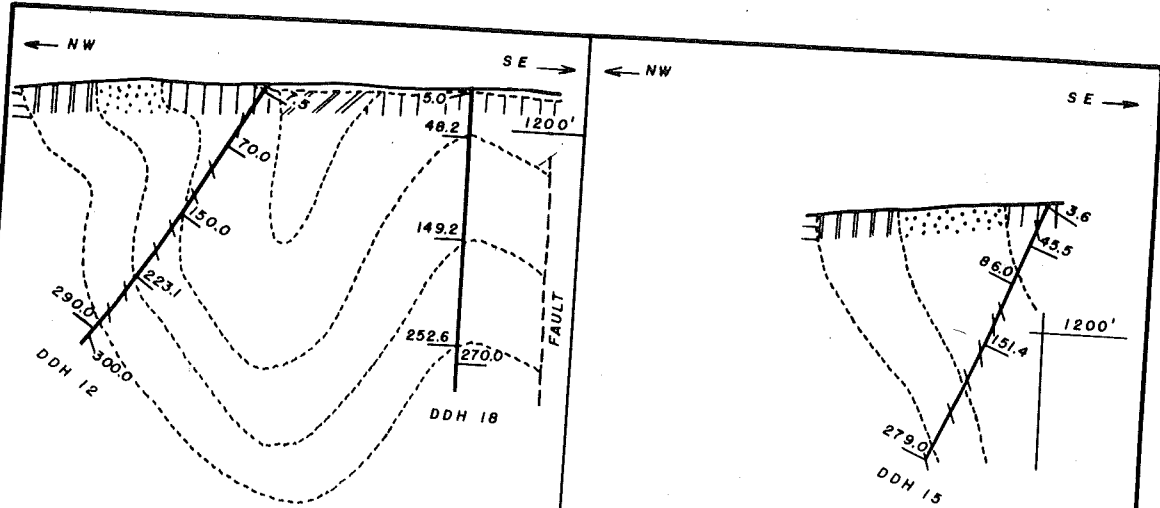
HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN. %	FE. %
7	7.7	46.6	38.9	7.00	12.14
	46.6	134.3	87.7	11.76	26.23
	134.3	200.8	66.5	7.04	23.40
	200.8	217.1	16.3	2.23	9.71

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN. %	FE. %
8	7.3	11.0	3.7	1.00	5.76
	11.0	74.6	63.6	8.21	16.13
	74.6	89.0	14.4	13.79	25.00
	89.0	162.0	73.0	7.18	20.11
	162.0	187.7	25.7	12.54	18.68
	187.7	269.6	81.9	7.49	20.82

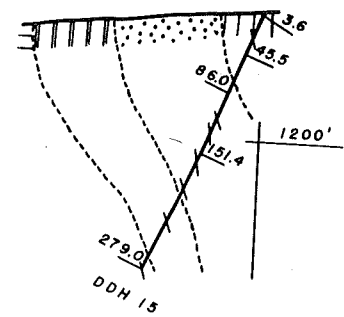
HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN. %	FE. %
9	7.5	80.0	72.5	1.37	6.12
	80.0	170.3	90.3	7.75	13.86
	170.3	217.0	46.7	11.46	24.42
	217.0	245.0	28.0	7.38	15.78
	245.0	269.0	24.0	0.96	5.65

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN. %	FE. %
10	3.0	89.7	86.7	6.88	20.22
	89.7	150.0	60.3	10.98	23.55
	150.0	217.9	67.9	7.39	21.01
	217.9	233.0	15.1	0.76	6.09

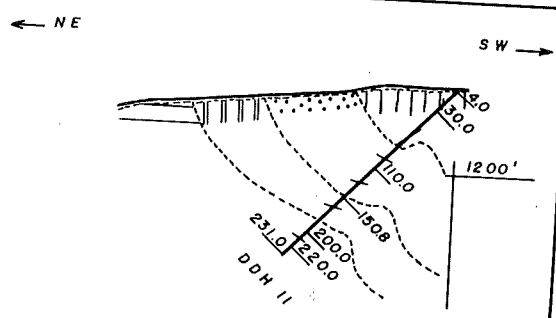
Figure 17. - Vertical assay sections through drill holes 7, 8, 9, and 10.



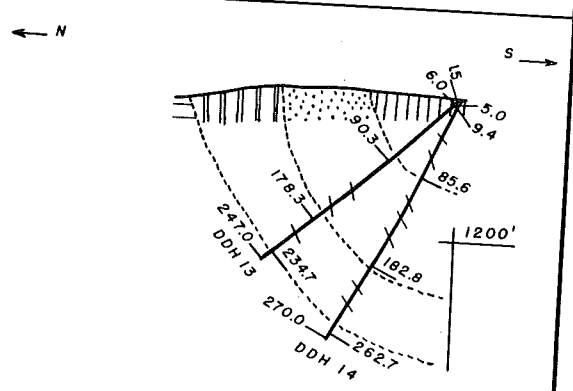
HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN %	FE %
12	7.5	70.0	62.5	0.47	6.16
	70.0	150.0	80.0	6.04	15.79
	150.0	223.1	73.1	11.18	26.53
	223.1	290.0	66.9	6.36	18.29
	290.0	300.0	10.0	1.48	7.74
18	5.0	48.2	43.2	5.57	13.54
	48.2	149.2	101.0	10.85	25.48
	149.2	252.6	103.4	5.85	17.67
	252.6	270.0	17.4	0.98	7.70



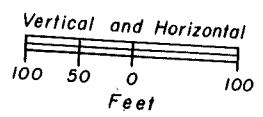
HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN %	FE %
15	3.6	45.5	41.9	3.75	10.55
	45.5	86.0	40.5	9.08	18.72
	86.0	151.4	65.4	12.32	26.74
	151.4	279.0	127.6	8.13	23.24



HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN %	FE %
11	4.0	30.0	26.0	0.58	4.48
	30.0	110.0	80.0	5.97	14.23
	110.0	150.8	40.8	10.39	27.18
	150.8	200.0	49.2	6.49	16.06
	220.0	231.0	11.0	1.52	5.01



HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN %	FE %
13	1.5	6.0	4.5	1.85	17.54
	6.0	90.3	84.3	6.29	11.93
	90.3	178.3	88.0	12.12	27.86
	178.3	234.7	56.4	6.73	19.33
14	5.0	9.4	4.4	4.12	9.60
	9.4	85.6	76.2	6.48	13.82
	85.6	182.8	97.2	10.92	26.58
	182.8	262.7	79.9	6.45	22.06
	262.7	270.0	7.3	3.33	13.49



GEOLOGIC SECTIONS BY LOUIS PAVLIDES, GEOLOGICAL SURVEY. - REFER TO FIGURE 3 FOR SYMBOLS.

Figure 18. - Vertical assay sections through drill holes 11, 12, 13, 14, 15, and 18.

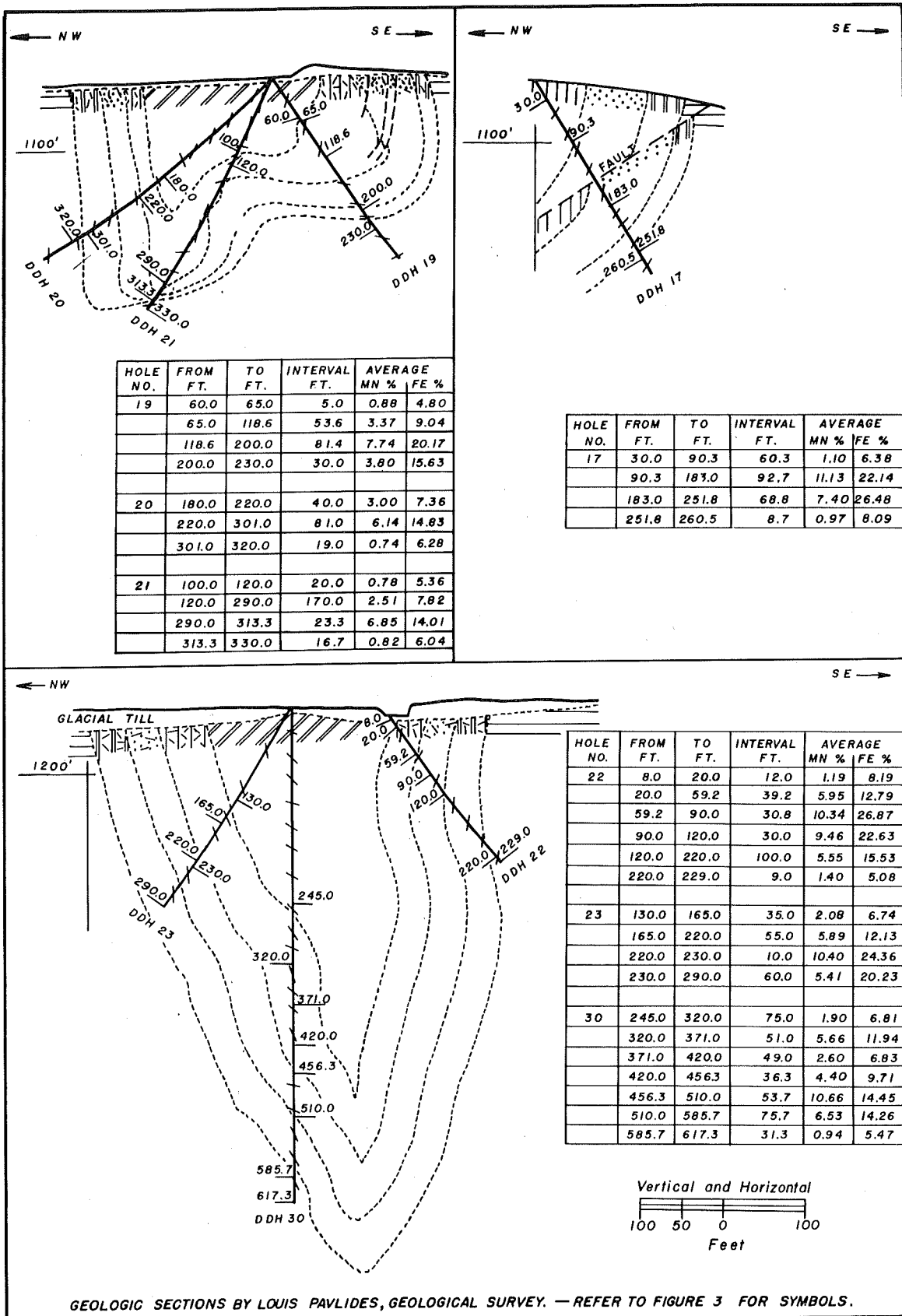


Figure 19. - Vertical assay sections through drill holes 17, 19, 20, 21, 22, 23, and 30.

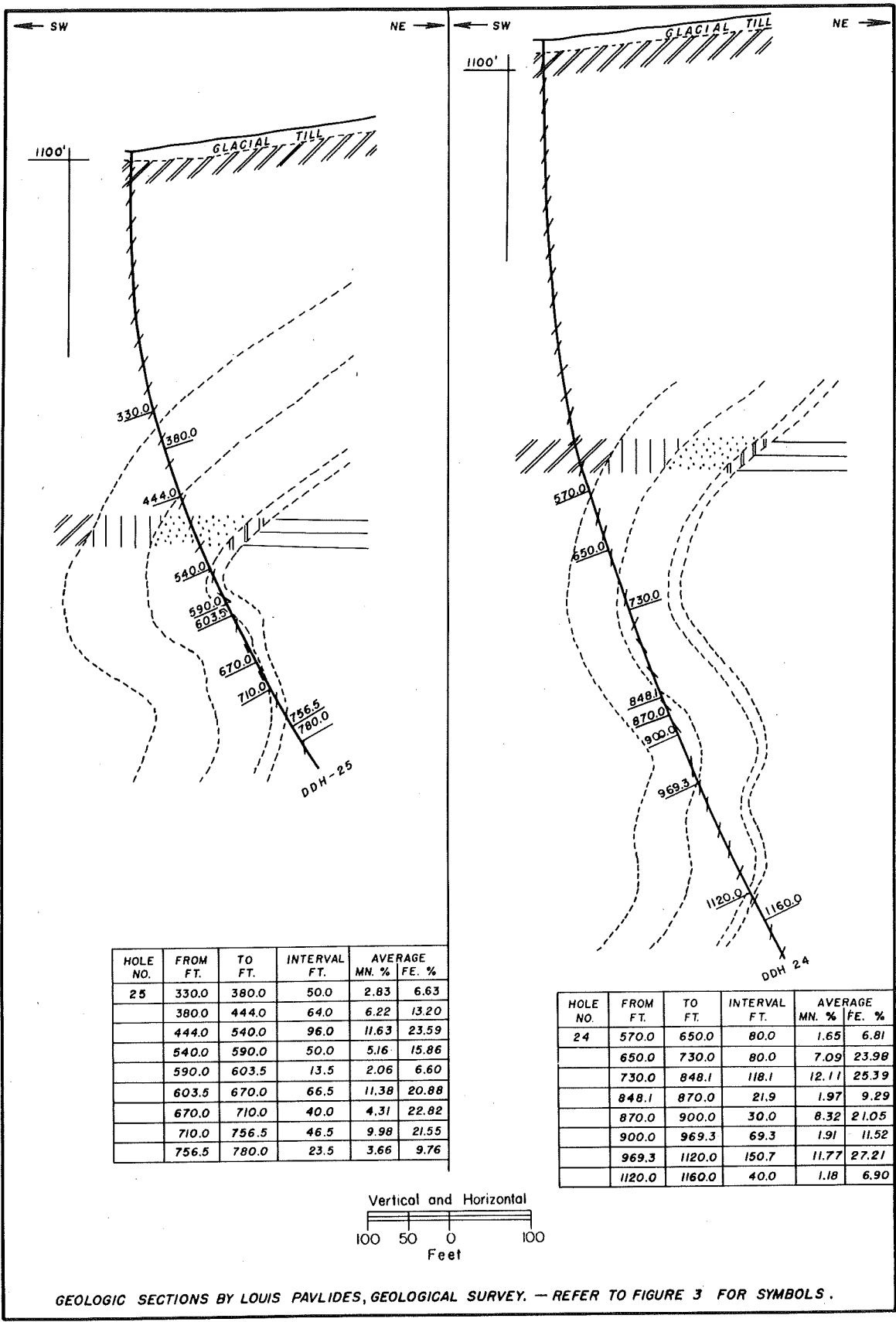


Figure 20. - Vertical assay sections through drill holes 24 and 25.

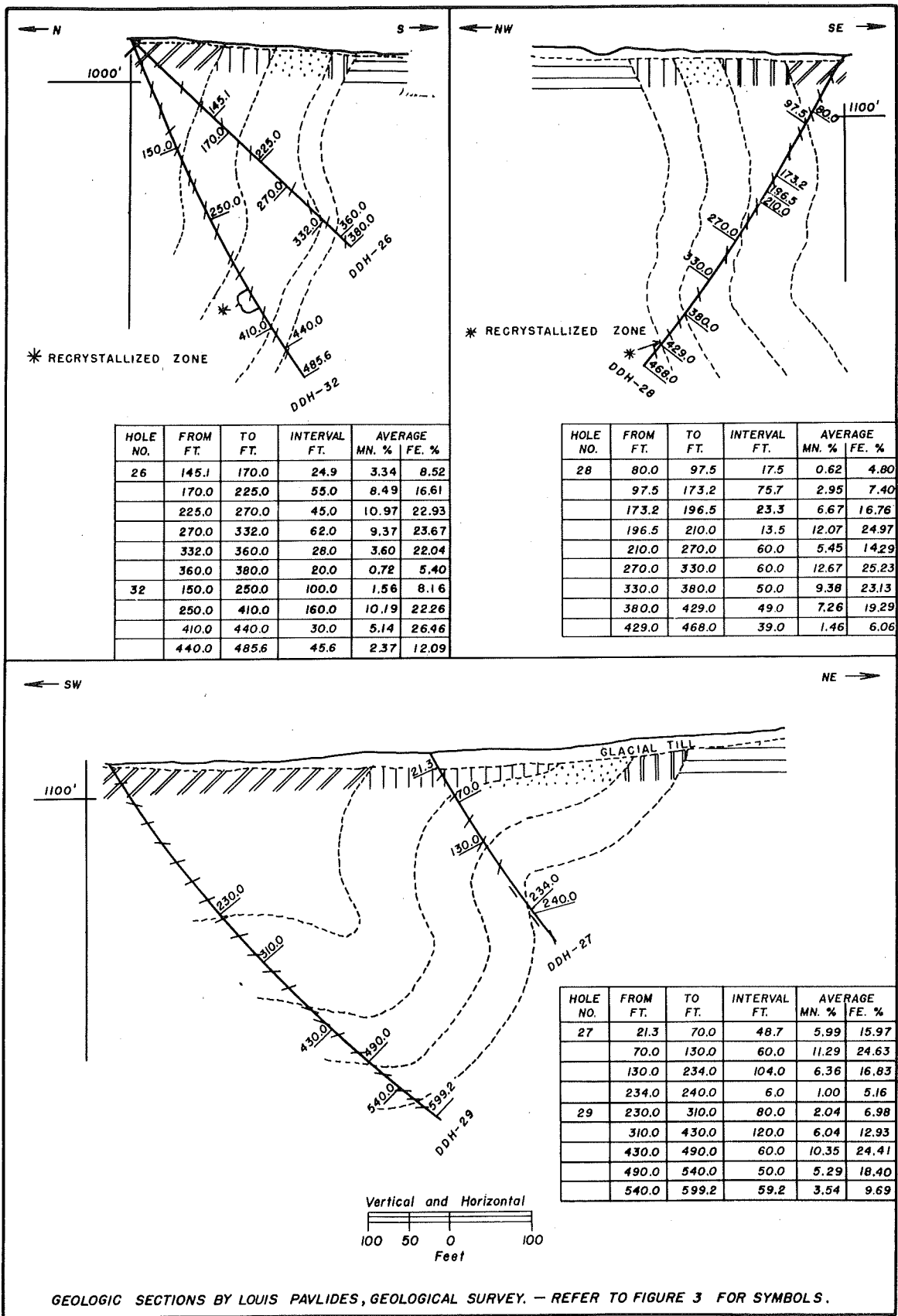


Figure 21. - Vertical assay sections through drill holes 26, 27, 28, 29, and 32.

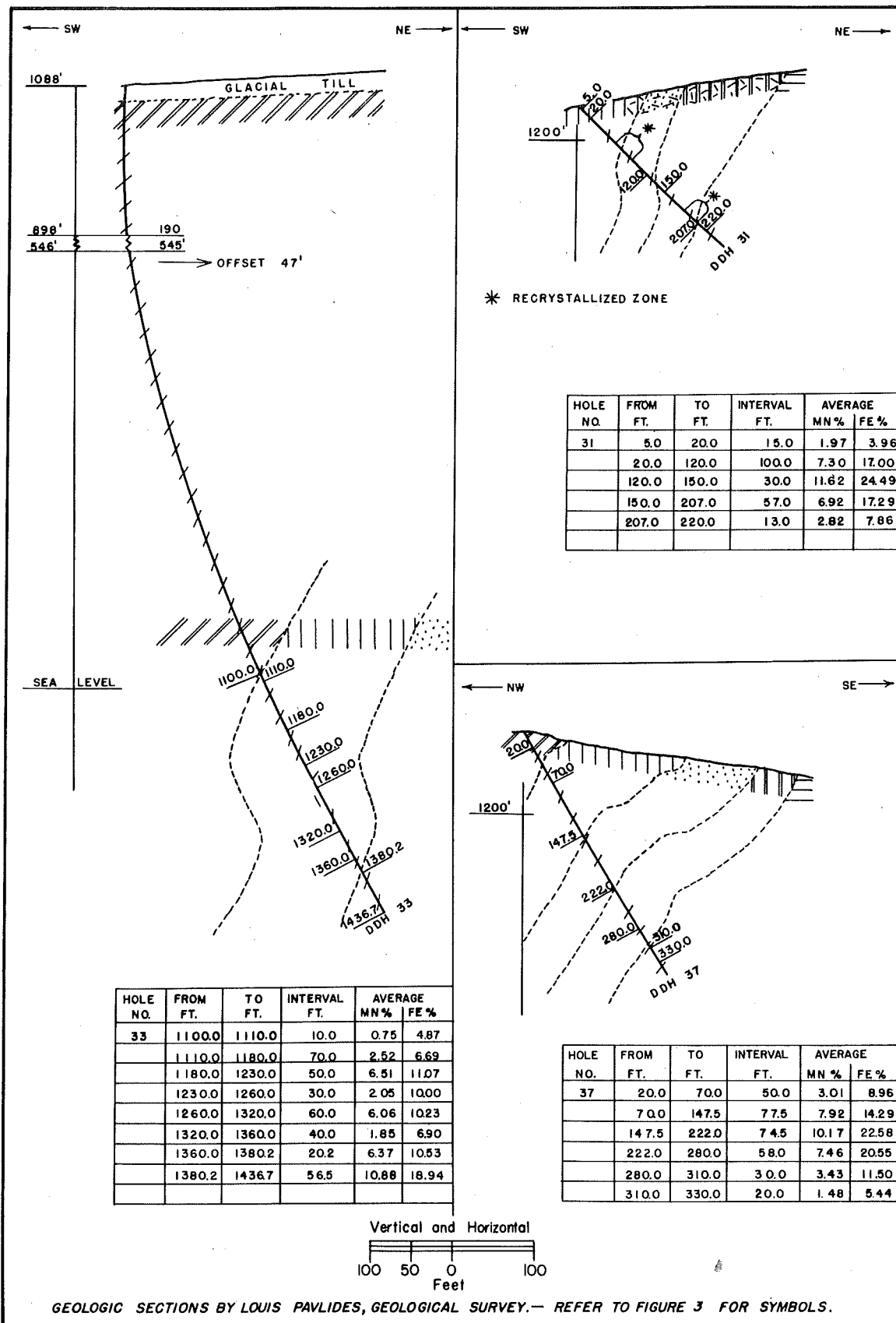


Figure 22. - Vertical assay sections through drill holes 31, 33, and 37.

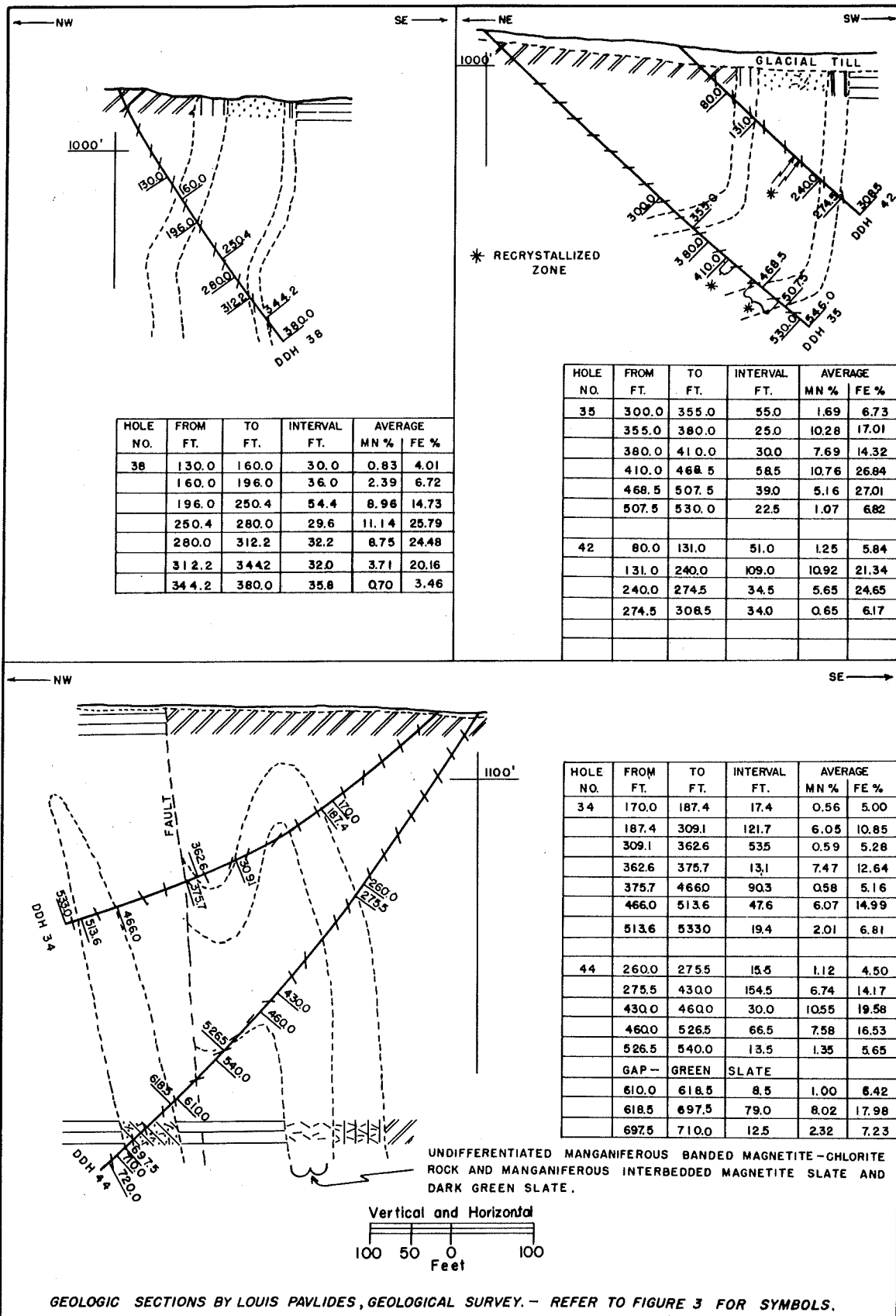


Figure 23. - Vertical assay sections through drill holes 34, 35, 38, 42, and 44.

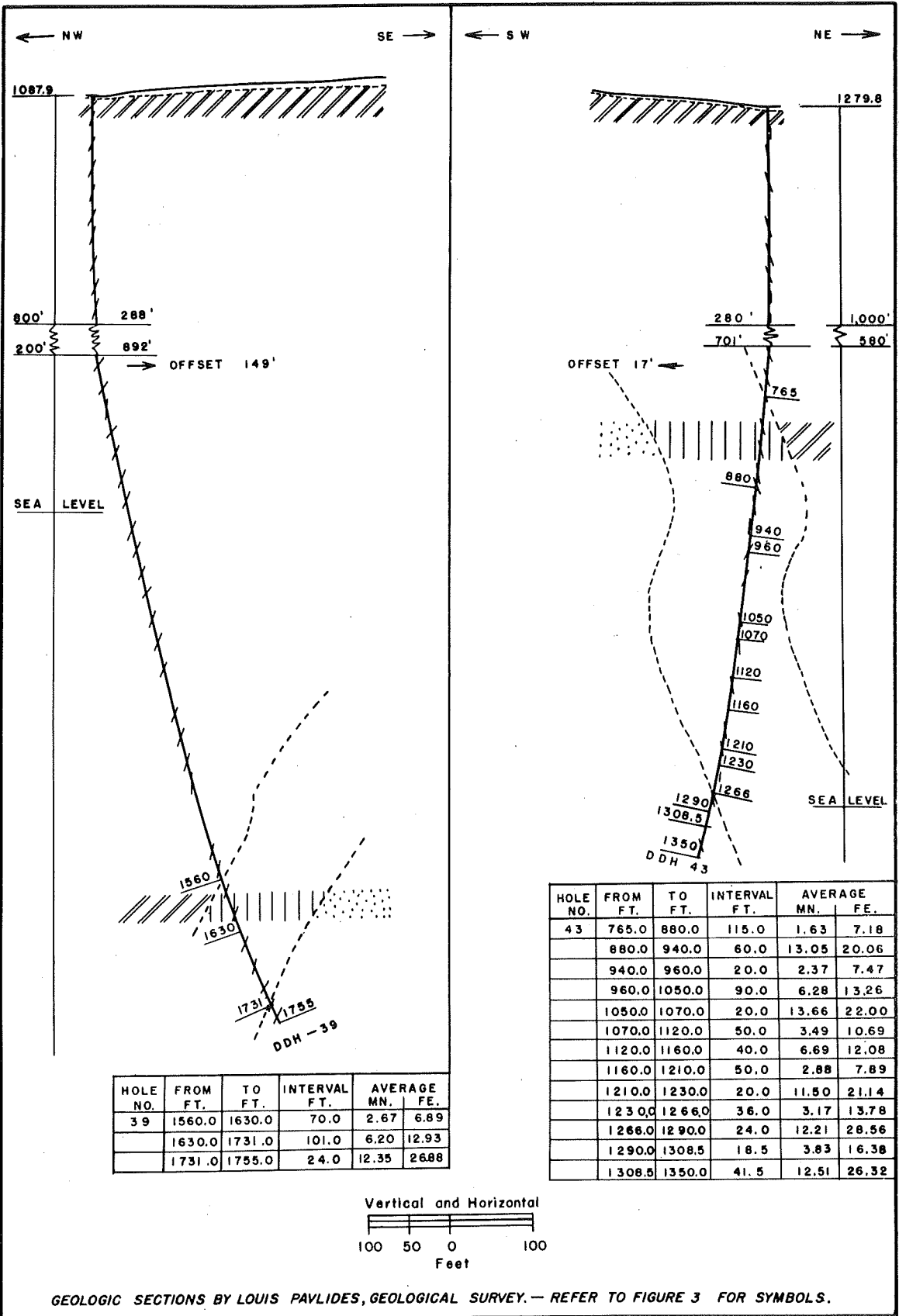


Figure 24. - Vertical assay sections through drill holes 39 and 43.

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN.	FE.
39	1560.0	1630.0	70.0	2.67	6.89
	1630.0	1731.0	101.0	6.20	12.93
	1731.0	1755.0	24.0	12.35	26.88

HOLE NO.	FROM FT.	TO FT.	INTERVAL FT.	AVERAGE MN.	FE.
43	765.0	880.0	115.0	1.63	7.18
	880.0	940.0	60.0	13.05	20.06
	940.0	960.0	20.0	2.37	7.47
	960.0	1050.0	90.0	6.28	13.26
	1050.0	1070.0	20.0	13.66	22.00
	1070.0	1120.0	50.0	3.49	10.69
	1120.0	1160.0	40.0	6.69	12.08
	1160.0	1210.0	50.0	2.88	7.89
	1210.0	1230.0	20.0	11.50	21.14
	1230.0	1266.0	36.0	3.17	13.78
	1266.0	1290.0	24.0	12.21	28.56
	1290.0	1308.5	18.5	3.83	16.38
	1308.5	1350.0	41.5	12.51	26.32

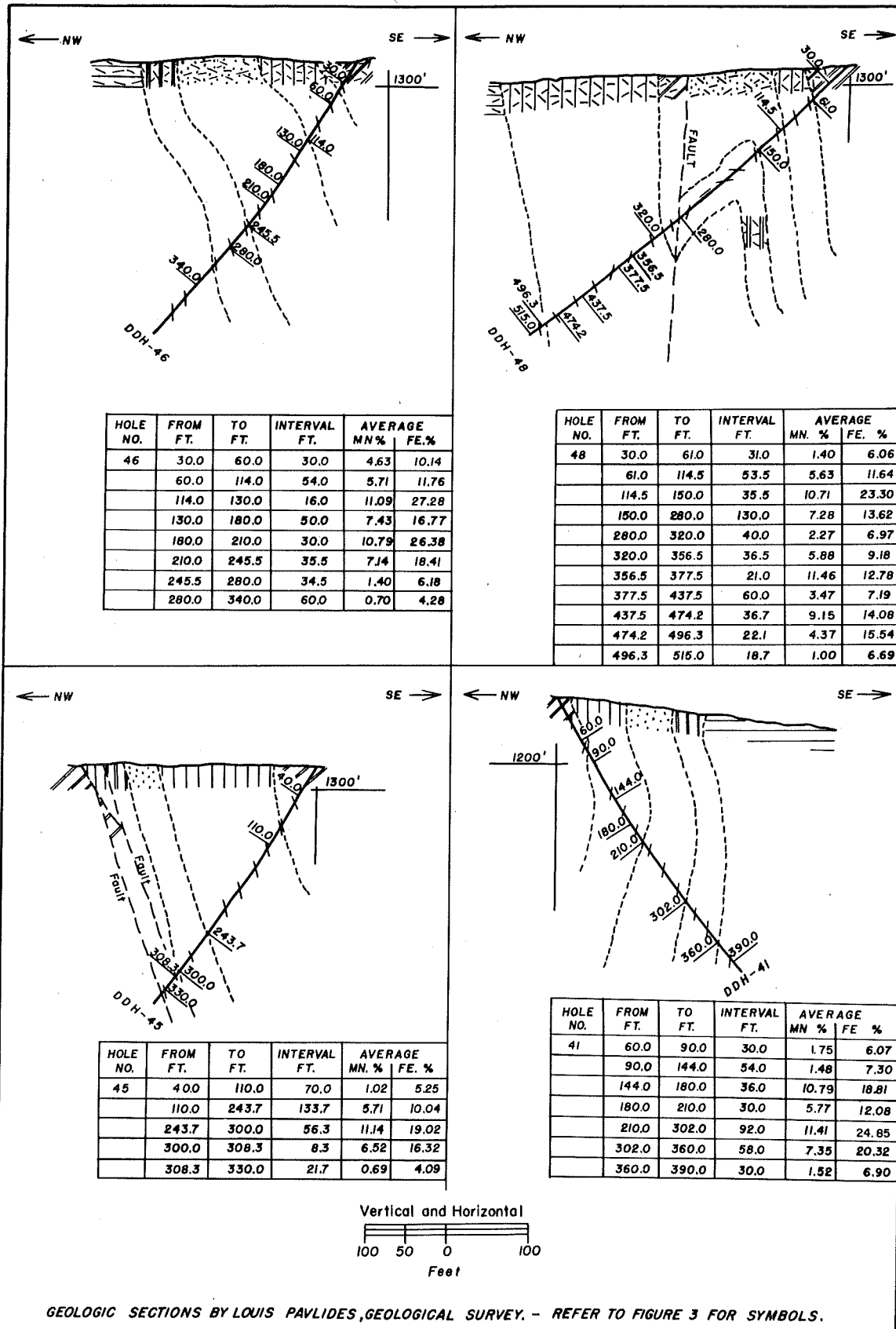


Figure 25. - Vertical assay sections through drill holes 41, 45, 46, and 48.

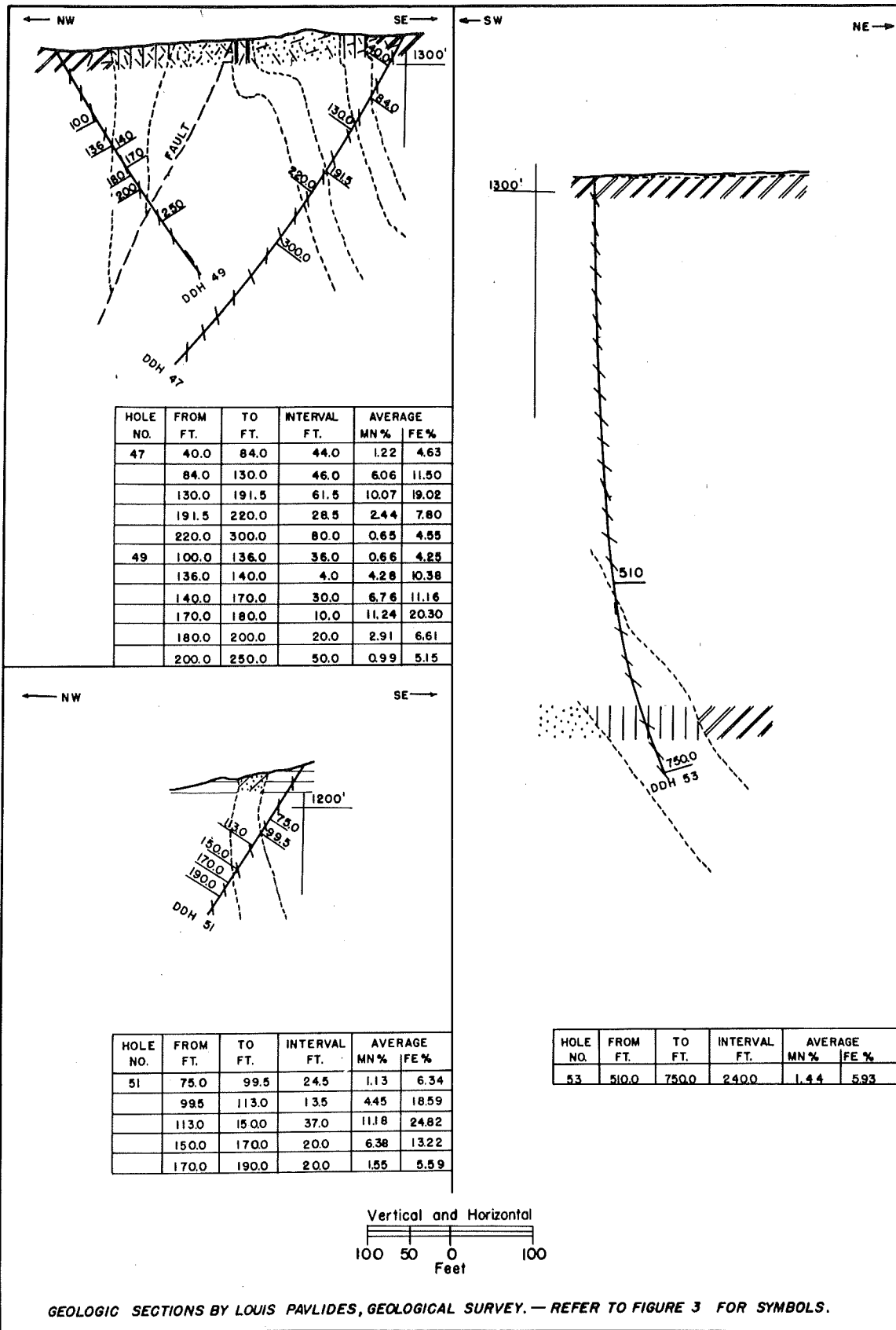


Figure 26. - Vertical assay sections through drill holes 47, 49, 51, and 53.

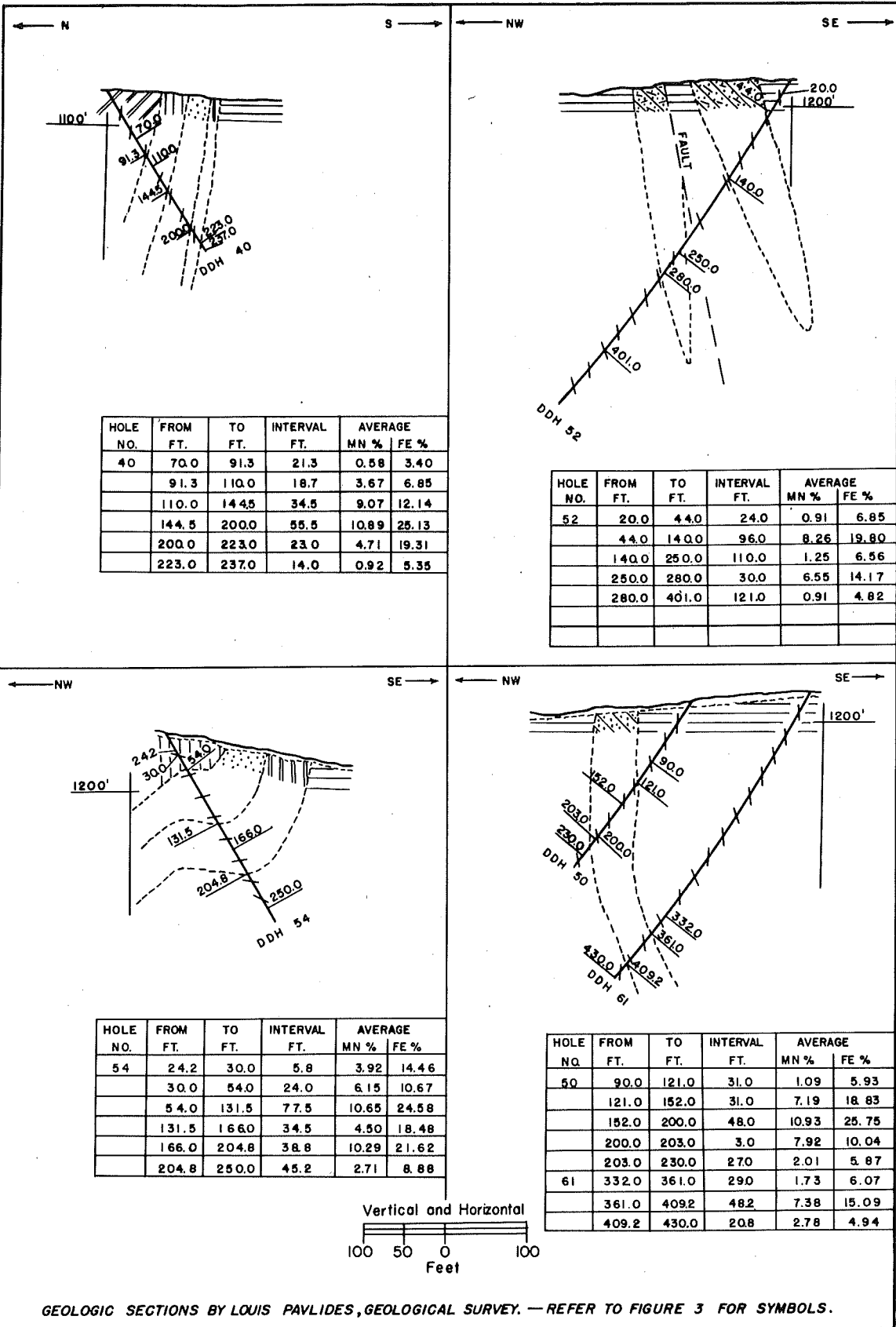


Figure 27. - Vertical assay sections through drill holes 40, 50, 52, 54, and 61.

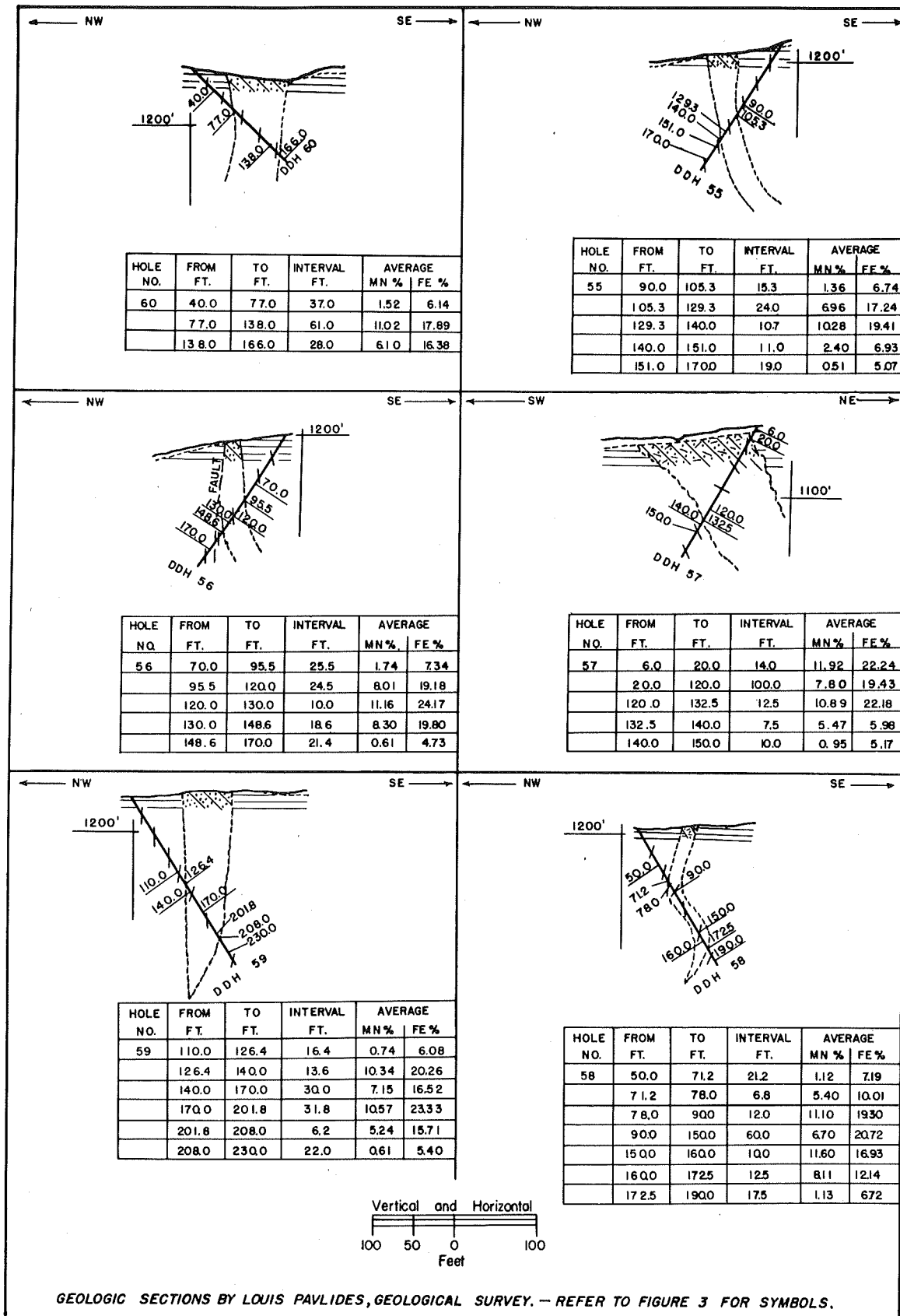


Figure 28. - Vertical assay sections through drill holes 55, 56, 57, 58, 59, and 60.