TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 1

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	6.0						Overburden
6.0	10.0	4.0	4.70	11.80			Manganiferous purple and red slate
10.0	13.7	3.7	7.98	10.35			
13.7	16.0	2.3	4.75	5.50			
16.0	18.8	2.8	7.43	12.45			
Total		12.8	6.25	10.39			Core recovery - 82.8%
18.8	23.8	5.0	3.15	6.30			Manganiferous purple and red slate
23.8	27.0	3.2	2.86	3.56			
27.0	32.2	5.2	3.91	13.58			
32.2	33.0	.8	2.14	5.51			
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 banded hematite
50.0	54.8	4.8	13.02	28.78			
54.8	59.7	4.9	8.15	21.83			
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 purple and red slate
10.0	13.7	3.7	7.98	10.35			
13.7	16.0	2.3	4.75	5.50			
16.0	18.8	2.8	7.43	12.45			
Total		12.8	6.25	10.39			Core recovery - 82.8%
18.8	23.8	5.0	3.15	6.30			Manganiferous purple and red slate
23.8	27.0	3.2	2.86	3.56			
27.0	32.2	5.2	3.91	13.58			
32.2	33.0	.8	2.14	5.51			
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 banded hematite
50.0	54.8	4.8	13.02	28.78			
54.8	59.7	4.9	8.15	21.83			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Manganiferous interbedded hematitic and green slate
112.1	116.8	4.7	5.25	28.46			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig.3)
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			Manganiferous purple and red slate
12.0	16.0	4.0	8.12	12.27			
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 banded hematite
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	
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, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
108.2	114.0	5.8	9.16	31.13	9.69	30.69	
114.0	118.0	4.0	8.76	18.87			Bottom of manganiferous banded hematite @ 118 ft.
118.0	121.4	3.4	3.20	13.06			Manganiferous
121.4	125.7	4.3	4.48	18.39			
125.7	128.4	2.7	3.20	12.10			interbedded
128.4	131.0	2.6	6.24	18.87			
131.0	136.0	5.0	6.04	29.19			hematitic
136.0	141.0	5.0	5.64	26.94			
141.0	145.0	4.0	8.72	30.24			and
145.0	150.2	5.2	4.80	14.19			
150.2	154.4	4.2	1.44	6.61			green
154.4	157.1	2.7	11.12	28.23			
157.1	161.2	4.1	9.40	21.77			slate
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			Top of green slate @ 188 ft.
Total		79.8			6.98	22.07	Core Recovery - 89.6%
188.0	193.0	5.0	2.32	12.10			Green
193.0	197.0	4.0	.64	7.26			slate
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, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	2.8						Overburden
2.8	6.7	3.9	1.11	6.47			Manganiferous
6.7	11.3	4.6	1.12	5.50			purple
11.3	18.6	7.3	7.26	7.92			and
18.6	23.6	5.0	1.39	7.91			red
23.6	31.2	7.6	2.99	5.49			slate
Total		28.4	3.24	6.68			Core Recovery - 88.7%
31.2	34.3	3.1	17.63	14.47			
34.3	37.9	3.6	10.09	10.19			Manganiferous
37.9	52.0	14.1	4.84	7.18			
52.0	55.0	3.0	3.28	6.22			purple
55.0	61.8	6.8	18.33	11.40			
61.8	69.6	7.8	8.57	16.82			and
69.6	74.2	4.6	14.76	19.24			
74.2	83.1	8.9	8.52	23.61			red
83.1	87.9	4.8	7.68	12.59			
87.9	96.5	8.6	2.16	13.90			slate
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
148.4	155.1	6.7	11.60	27.81			banded
155.1	162.8	7.7	13.16	27.00			hematite
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
181.7	190.9	9.2	3.53	19.08			interbedded
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			hematitic & green slate
215.1	228.5	13.4	8.52	25.87			
Total		50.4	6.39	22.96			Core Recovery - 100.0%
							Core Recovery - 100.0%
228.5	244.5	16.0	1.31	8.73			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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	3.9						Overburden
3.9	8.2	4.3	1.24	3.41			Manganiferous
8.2	13.0	4.8	7.88	20.46			purple
13.0	18.0	5.0	1.76	4.95			and
18.0	23.0	5.0	1.44	5.68			red
23.0	26.5	3.5	2.44	5.52			slate
Total		22.6	2.99	8.20			Core recovery - 92.0%
26.5	29.8	3.3	12.12	11.37			
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			Manganiferous
38.3	41.5	3.2	14.68	19.16			
41.5	45.3	3.8	11.04	7.80			purple
45.3	48.1	2.8	5.04	9.26			
48.1	53.0	4.9	13.36	21.76			and
53.0	54.8	1.8	8.20	22.74			
54.8	59.1	4.3	3.08	12.26	5.80	17.53	red
59.1	62.0	2.9	16.04	28.01			
62.0	66.0	4.0	2.44	6.82			slate
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 Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % 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			
168.9	173.0	4.1	11.60	29.47			Manganiferous
173.0	177.7	4.7	8.44	21.52			Banded
177.7	182.8	5.1	14.00	26.23			
182.8	187.2	4.4	11.08	27.12			Hematite
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	
229.2	233.1	3.9	5.52	24.68	4.95	27.65	interbedded
233.1	238.6	5.5	6.72	25.41	6.38	29.39	
238.6	246.0	7.4	3.64	13.57	3.11	13.85	hematite
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	and
256.7	258.9	2.2	6.40	29.23			
258.9	261.6	2.7	8.36	24.55	8.19	26.70	green slate
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
45.0	50.0	5.0	12.92	21.00			purple
50.0	53.3	3.3	10.48	22.87			
53.3	57.8	4.5	8.72	17.66			and
57.8	60.3	2.5	15.72	31.42			
60.3	64.6	4.3	4.08	6.51			red
64.6	66.7	2.1	12.68	20.84			
66.7	70.8	4.1	17.20	24.50			slate
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			
129.0	134.2	5.2	11.80	29.79			Banded
134.2	135.3	1.1	1.32	7.16			
135.3	140.3	5.0	13.40	25.64			Hematite
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Slude Assay, % Mn	Combined Core and Slude Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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 interbedded hematitic and green slate
310.0	320.0	10.0	5.20	24.88			
320.0	330.0	10.0	5.92	23.91			
330.0	340.0	10.0	5.60	7.86			
340.0	350.0	10.0	6.72	26.32			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Manganiferous
20.0	25.7	5.7	5.20	14.00			
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			Manganiferous
48.1	51.0	2.9	10.91	17.76			
51.0	55.1	4.1	10.63	27.70			banded
55.1	57.8	2.7	.84	4.24			
57.8	62.9	5.1	11.12	32.31			hematite
62.9	68.0	5.1	14.03	25.92			
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	Manganiferous
138.3	143.9	5.6	3.56	17.76	4.58	20.91	interbedded
143.9	153.3	9.4	5.40	24.64	5.36	26.63	hematitic
153.3	157.7	4.4	6.00	27.76			and
157.7	163.4	5.7	7.67	25.04	6.48	26.78	green
163.4	170.0	6.6	2.40	10.00			slate
170.0	180.0	10.0	10.60	21.60			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
18.4	21.8	3.4	11.63	12.16			Manganiferous
21.8	24.4	2.6	5.91	6.56			
24.4	29.4	5.0	5.43	15.43			Purple
29.4	32.8	3.4	8.08	15.42			
32.8	37.7	4.9	12.91	15.52			and
37.7	40.8	3.1	3.00	14.72			
40.8	44.4	3.6	2.08	8.64			red slate
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			
102.9	107.3	4.4	7.35	30.08			Bottom of manganiferous banded hematite @ 120 ft.
107.3	112.6	5.3	14.39	16.24			
112.6	117.9	5.3	10.40	27.43			Manganiferous
117.9	120.0	2.1	8.80	16.16			
120.0	125.0	5.0	4.00	14.40			interbedded
125.0	130.0	5.0	4.63	15.36			
130.0	134.5	4.5	7.00	16.00			hematitic
134.5	139.5	5.0	4.43	27.36			
139.5	143.4	3.9	5.71	28.08			and
143.4	149.0	5.6	8.20	24.24			
149.0	152.5	3.5	2.40	13.44			green
152.5	157.2	4.7	1.60	5.52			
157.2	162.0	4.8	1.61	6.40			slate
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
90.0	100.0	10.0	9.35	14.56			Manganiferous
100.0	108.0	8.0	6.80	8.80			
108.0	110.0	2.0	5.75	10.72			purple
110.0	114.2	4.2	15.16	14.64			
114.2	120.0	5.8	8.36	13.60			and
120.0	130.0	10.0	9.51	23.52			
130.0	140.0	10.0	9.72	19.04			green
140.0	145.2	5.2	2.80	11.04			
145.2	150.0	4.8	3.28	13.92			slate
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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.
250.0	260.0	10.0	.72	5.44			Green slate
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Manganiferous purple and red slate from 56.8' - 63'
40.0	50.0	10.0	8.39	19.33			
50.0	60.0	10.0	12.51	17.24			
60.0	63.0	3.0	10.56	14.82			Manganiferous interbedded hematitic and green slate from 63' - 89.7'
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
100.0	110.0	10.0	11.28	24.00			
110.0	120.0	10.0	8.27	23.52			banded
120.0	130.0	10.0	9.12	25.61			
130.0	140.0	10.0	13.03	19.65			hematite
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			Manganiferous interbedded hematitic and green slate
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	8.96	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'
220.0	230.0	10.0	.64	5.96			Green slate
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	7.5						Overburden
7.5	10.0	2.5	0.78	6.69			
10.0	20.0	10.0	.43	8.87			Manganiferous
20.0	30.0	10.0	.84	6.93			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			
110.0	120.0	10.0	10.80	21.77	8.89	20.46	and
120.0	128.3	8.3	2.79	17.10			
128.3	137.7	9.4	8.16	13.39	6.35	15.21	red slate
137.7	150.0	12.3	6.20	14.84			Top of manganiferous banded hematite @ 150 ft.
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
29.3	35.4	6.1	2.99	14.07			purple
35.4	44.0	8.6	6.60	12.53			
44.0	53.0	9.0	6.97	8.08			and
53.0	56.0	3.0	2.17	4.36			
56.0	61.4	5.4	11.03	11.64			red
61.4	68.0	6.6	3.65	8.25			
68.0	78.0	10.0	2.76	6.63			slate
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			
110.8	115.8	5.0	13.96	32.82			banded
115.8	124.0	8.2	12.84	27.00			
124.0	128.7	4.7	6.72	26.84			hematite
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			Manganiferous
185.6	199.4	13.8	5.08	27.24			interbedded
199.4	208.5	9.1	3.94	13.10			hematitic
208.5	219.3	10.8	9.92	20.05			and
219.3	232.0	12.7	9.93	17.73			green slate
232.0	234.7	2.7	6.56	18.92			Top of green slate @ 234.7 ft.
Total		56.4	6.73	19.33			Core recovery - 81.6%
234.7	247.0						Green slate
Total Core Sampled		233.2					Core recovery - 92.1%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 14

Footage From-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	5.0						Overburden
							Manganiferous purple and red slate
5.0	9.4	4.4	4.12	9.60			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	38.24			
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
257.7	262.7	5.0	5.00	16.40			Top of green slate @ 257.7 ft.
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Bottom of manganiferous banded hematite @ 200.3 ft.
161.2	166.0	4.8	10.28	28.71	11.54	25.64	
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			Manganiferous interbedded hematitic and green slate
181.6	182.5	.9	6.00	23.79			
182.5	186.8	4.3	5.67	34.03			
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-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined core and Sludge Assay, % Mn	Combined core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	5.0						Overburden
5.0	10.0	5.0	1.26	4.35			Manganiferous purple
10.0	20.0	10.0	4.60	14.27			and red slate
Total		15.0	3.49	10.96			Core recovery - 92.0%
20.0	24.8	4.8	11.08	25.48			Top of manganiferous banded hematite @ 24.8 ft.
24.8	30.0	5.2	15.00	23.39			
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	
81.3	90.0	8.7	11.39	35.49			banded
90.0	99.8	9.8	9.64	31.94			
99.8	110.9	11.1	10.43	19.36	9.75	29.77	hematite
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	.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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
80.0	90.3	10.3	1.40	5.40			and red slate
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-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Manganiferous
20.0	30.0	10.0	7.40	14.19			purple
30.0	40.0	10.0	4.61	8.87			and
40.0	48.2	8.2	2.08	8.88			red slate
Total		43.2	5.57	13.54			Core recovery - 96.1%
48.2	50.0	1.8	10.20	24.19			Top of manganiferous banded hematite @ 48.2 ft.
50.0	60.0	10.0	11.36	22.74	10.64	22.98	
60.0	70.0	10.0	15.32	24.19			Manganiferous
70.0	75.4	5.4	8.84	25.97			
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			hematite
93.0	100.2	7.2	10.40	29.36	9.80	29.02	
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			Manganiferous
160.0	170.0	10.0	3.24	12.42			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
90.0	100.0	10.0	3.84	8.00			purple and
100.0	110.0	10.0	4.64	10.40			red slate (partially recrystallized)
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 magnaniferous 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
210.0	214.9	4.9	4.84	22.26			interbedded hematitic and
214.9	220.0	5.1	3.68	11.89			green slate (partially recrystallized)
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	8.0						
8.0	180.0						Overburden 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			Bottom of gray-green slate @ 194.5 ft.
200.0	210.0	10.0	4.32	9.52			Manganiferous purple and red slate (partially recrystallized)
210.0	220.0	10.0	3.60	7.74			
Total		40.0	3.00	7.36			Core recovery - 100.0%
220.0	230.0	10.0	8.88	11.94			Top of manganiferous banded hematite
230.0	240.0	10.0	9.40	17.42			
240.0	250.0	10.0	4.48	13.71			Manganiferous banded hematite (partially recrystallized)
250.0	260.0	10.0	3.80	14.84			
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			Manganiferous interbedded hematite & green slate (partially recrystallized)
290.0	301.0	11.0	7.60	15.48			
Total		81.0	6.14	14.83			Core recovery - 100.0%
301.0	310.0	9.0	0.72	6.45			Top of green slate @ 301.0 ft.
310.0	320.0	10.0	.76	6.13			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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	8.0						
8.0	100.0						Overburden Gray-green slate
100.0	110.0	10.0	0.64	5.03			Gray-green slate
110.0	120.0	10.0	.92	5.68			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			and
190.0	200.0	10.0	.96	5.35			
200.0	210.0	10.0	.95	5.20			red slate
210.0	220.0	10.0	1.08	7.15			
220.0	230.0	10.0	.84	5.68			(partially recrystallized)
230.0	240.0	10.0	.63	5.52			
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
290.0	300.0	10.0	5.16	11.45			Top of manganiferous banded hematite @ 297.8 ft.;
300.0	313.3	13.3	7.67	16.00			bottom @ 311 ft.(Zone partially recrystallized)
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
320.0	330.0	10.0	.64	5.68			(partially recrystallized).Top of green slate @ 315.8'
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	8.0						Overburden
8.0	10.0	2.0	0.72	8.06			Bottom of gray-green slate @ 10 ft.
10.0	20.0	10.0	1.28	8.22			Manganiferous purple & red slate(partially recrystallized)
Total		12.0	1.19	8.19			Core recovery - 48.3%
20.0	30.0	10.0	8.32	11.29			Manganiferous purple
30.0	40.0	10.0	4.24	14.43			and red slate (partially recrystallized)
40.0	50.0	10.0	6.80	11.94			
50.0	59.2	9.2	4.32	13.55			Top of manganiferous banded hematite @ 59.2 ft.
Total		39.2	5.95	12.79			Core recovery - 97.2%
59.2	70.0	10.8	10.40	27.66			Manganiferous
70.0	80.0	10.0	10.41	26.37			banded
80.0	90.0	10.0	10.20	26.53			hematite (partially recrystallized)
Total		30.8	10.34	26.87			Core recovery - 99.4%
90.0	100.0	10.0	8.12	20.16			Manganiferous
100.0	110.0	10.0	9.68	26.45			banded
110.0	120.0	10.0	10.60	21.29			hematite (partially recrystallized)
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.
130.0	140.0	10.0	2.72	11.28			Manganiferous interbedded hematitic and
140.0	150.0	10.0	4.84	18.71			green slate (partially recrystallized)
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			Top of green slate @ 207.0 ft.
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	8.0						
8.0	130.0						Overburden
							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)
							Core recovery - 100.0%
230.0	240.0	10.0	4.80	17.86			
240.0	250.0	10.0	2.60	10.09			Bottom of manganiferous banded hematite @ 261.0 ft.
250.0	261.0	11.0	4.68	16.93			Manganiferous interbedded hematitic and green slate (partially recrystallized)
261.0	270.0	9.0	4.88	25.07			
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	16.0						
16.0	570.0						Overburden
							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
600.0	610.0	10.0	2.20	5.97			
610.0	620.0	10.0	1.00	6.45			purple and red
620.0	630.0	10.0	1.20	6.61			
630.0	640.0	10.0	1.28	7.18			slate
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 maganiferous 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 24 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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	Top of manganiferous banded hematite @ 848.1 ft.
830.0	840.0	10.0	12.68	29.07			repeated by overturning
840.0	848.1	8.1	8.67	26.49			
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			Manganiferous purple and red slate
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			Top of manganiferous banded hematite @ 969.3 ft.
960.0	969.3	9.3	2.80	7.59			
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%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 25

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	10.0						
10.0	330.0						Overburden
330.0	340.0	10.0	1.04	5.43			Gray-green slate
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			
548.5	560.0	11.5	2.68	12.90			Bottom of manganiferous banded hematite @ 548.5 ft.
560.0	570.0	10.0	5.24	18.79			
570.0	580.0	10.0	5.80	25.21			Manganiferous interbedded hematitic and green slate
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			
600.0	603.5	3.5	2.68	5.64			Green slate (belongs to manganiferous interbedded hematitic and green slate unit)
Total		13.5	2.06	6.60			
							Core recovery - 100.0%
603.5	610.0	6.5	11.96	24.03			
610.0	620.0	10.0	10.20	15.00			Bottom of manganiferous banded hematite @ 603.5 ft. repeated by overturning
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 From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined core and Sludge Assay,% Mn	Combined core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
Total		46.5	9.98	21.55			Core recovery — 100.0%
756.5	760.0	3.5	2.63	7.90			Top of green slate @ 756.5 ft. Green slate
760.0	770.0	10.0	2.87	9.35			
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 From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Manganiferous purple and red slate
160.0	170.0	10.0	2.04	7.42	4.52	10.21	
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			
Total		55.0			8.49	16.61	Core recovery - 77.3%
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	14.72	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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
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			Top of green slate @ 355.5 ft.
Total		28.0	3.60	22.04			Core recovery - 95.4%
360.0	370.0	10.0	1.04	5.96			
370.0	380.0	10.0	.40	4.83			Green slate
Total		20.0	0.72	5.40			Core recovery - 84.5%
Total Core Sampled		234.9					Core recovery - 82.3%

Diamond Drill Hole 27

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
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	Manganiferous purple and red slate
40.0	50.0	10.0	4.20	10.63	4.49	13.69	
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.
Total		48.7			5.99	15.97	Core recovery - 63.9%
70.0	80.0	10.0	9.60	24.81			Manganiferous banded hematite
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			Bottom of manganiferous banded hematite @ 134.0 ft.
Total		60.0	11.29	24.63			Core recovery - 97.2%
130.0	134.0	4.0	5.60	28.19			
134.0	140.0	6.0	6.91	11.12			Manganiferous interbedded hematitic and green slate
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			Top of green slate @ 227.0 Ft.

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 27 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
227.0	234.0	7.0	5.31	10.47			
Total		104.0			6.36	16.83	Core recovery - 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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			
100.0	110.0	10.0	2.50	7.56			Manganiferous
110.0	120.0	10.0	2.51	6.44			
120.0	130.0	10.0	.75	5.15			purple and
130.0	140.0	10.0	.74	5.79			
140.0	150.0	10.0	.62	4.74	3.04	9.30	red slate
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	Core recovery - 88.2%
173.2	180.0	6.8	10.74	21.96			Manganiferous
180.0	189.5	9.5	8.31	22.39	6.03	20.17	purple and
189.5	196.5	7.0	3.60	7.09			red slate
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
200.0	210.0	10.0	12.40	28.19			in manganiferous purple and red slate
Total		13.5	12.07	24.97			Core recovery - 96.3%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 28 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
210.0	218.0	8.0	5.12	20.78			Manganiferous purple and red slate
218.0	220.0	2.0	1.88	7.41			
220.0	230.0	10.0	2.71	6.68	3.16	15.23	
230.0	240.0	10.0	8.75	12.00	8.01	18.84	
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 banded hematite
280.0	290.0	10.0	11.15	29.00			
290.0	300.0	10.0	15.16	23.60			
300.0	310.0	10.0	16.44	25.29			
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 banded hematite
340.0	350.0	10.0	9.80	24.08			
350.0	360.0	10.0	9.20	22.80			
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 hematitic and green slate
390.0	400.0	10.0	6.20	22.04	5.52	22.30	
400.0	410.0	10.0	2.40	5.47	6.32	15.30	
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 slate
460.0	468.0	8.0	.64	4.99			
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 From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
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 purple and red slate
260.0	270.0	10.0	1.68	8.47			
270.0	280.0	10.0	.56	6.47			
280.0	290.0	10.0	.68	5.34			
290.0	300.0	10.0	3.84	6.46			
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 purple and red slate
320.0	330.0	10.0	7.20	13.58			
330.0	340.0	10.0	6.96	18.03			
340.0	350.0	10.0	2.62	13.42			
350.0	360.0	10.0	6.16	14.39			
360.0	370.0	10.0	2.88	9.86			
370.0	380.0	10.0	3.24	10.02			
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			Manganiferous banded hematite
440.0	450.0	10.0	11.96	24.98			
450.0	460.0	10.0	8.28	22.23	8.84	20.39	
460.0	470.0	10.0	10.32	26.52	10.62	26.92	
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 interbedded hematitic and green slate
500.0	510.0	10.0	4.00	13.82			
510.0	520.0	10.0	5.16	14.71			
520.0	530.0	10.0	5.64	26.03			
530.0	540.0	10.0	6.28	18.59			
Total		50.0			5.29	18.40	Core recovery - 86.2%
540.0	550.0	10.0	1.00	5.17			Manganiferous interbedded hematitic and green slate
550.0	560.0	10.0	5.20	16.82			
560.0	570.0	10.0	1.72	9.13			
570.0	581.2	11.2	7.80	12.13			
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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			Bottom of gray-green slate @ 255.0 ft.
260.0	270.0	10.0	4.83	9.98			Manganiferous
270.0	280.0	10.0	2.71	7.81			purple
280.0	290.0	10.0	.75	4.99			and
290.0	300.0	10.0	1.35	6.12			red slate (partially recrystallized)
300.0	310.0	10.0	1.03	7.09			
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-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
130.0	141.7	11.7	12.43	25.10	9.18	24.67	Bottom of manganiferous banded hematite @ 141.7 ft.
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-	Footage To-	Sample Interval Feet	Core Assay, % Mn	Core Assay, % Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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 hematite
350.0	355.7	5.7	11.44	29.43			
355.7	360.0	4.3	10.12	36.87			
360.0	365.0	5.0	19.16	17.14			Recrystallized magnetite-chlorite rock @ 355.7'-382.0'
365.0	370.0	5.0	13.32	29.91			
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 banded hematite @ 410.0 ft.
400.0	410.0	10.0	10.48	26.63			
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	Manganiferous interbedded hematitic and green slate
420.0	430.0	10.0	4.44	27.19			
430.0	440.0	10.0	5.32	26.39	5.22	27.42	
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-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	20.8						
20.8	1100.0						Overburden
1100.0	1106.0	6.0	0.72	4.58			Gray-green slate
1106.0	1110.0	4.0	.80	5.30			Gray-green slate
							Bottom of gray-green slate @ 1106.0 ft.
Total		10.0	0.75	4.87			Core recovery - 97.0%
1110.0	1120.0	10.0	3.28	7.39			Manganiferous
1120.0	1130.0	10.0	3.00	7.87			
1130.0	1140.0	10.0	1.31	6.02			purple
1140.0	1150.0	10.0	4.35	8.18			
1150.0	1160.0	10.0	.87	3.53			and
1160.0	1170.0	10.0	2.03	7.14			
1170.0	1180.0	10.0	2.83	6.74			red slate
Total		70.0	2.52	6.69			Core recovery - 99.0%
1180.0	1190.0	10.0	6.35	6.26			Manganiferous
1190.0	1200.0	10.0	6.51	8.17			purple
1200.0	1210.0	10.0	5.68	14.12			and
1210.0	1220.0	10.0	5.36	14.20			red
1220.0	1230.0	10.0	8.67	12.60			slate
Total		50.0	6.51	11.07			Core recovery - 99.2%
1230.0	1240.0	10.0	1.24	10.03			Manganiferous
1240.0	1250.0	10.0	1.60	8.26			purple and
1250.0	1260.0	10.0	3.32	11.71			red slate
Total		30.0	2.05	10.00			Core recovery - 100.0%
1260.0	1270.0	10.0	6.28	12.68			Manganiferous
1270.0	1280.0	10.0	8.40	13.32			
1280.0	1290.0	10.0	4.75	5.29			purple and
1290.0	1300.0	10.0	8.04	12.84			
1300.0	1310.0	10.0	5.51	8.26			red slate
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
1330.0	1340.0	10.0	1.32	7.70			purple
1340.0	1350.0	10.0	1.51	4.57			and
1350.0	1360.0	10.0	3.03	9.95			red slate
Total		40.0	1.85	6.90			Core recovery - 98.3%
1360.0	1370.0	10.0	8.67	12.76			Manganiferous purple
1370.0	1380.2	10.2	4.12	8.34			and red slate
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'
1390.0	1400.0	10.0	10.84	13.48			
1400.0	1410.0	10.0	6.24	13.35			Manganiferous
1410.0	1420.0	10.0	14.00	18.07			banded
1420.0	1430.0	10.0	11.32	27.35			hematite
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 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay, % Mn	Combined Core and Sludge Assay, % Fe	Remarks and Lithology (See Explanation, Fig. 3)
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
340.0	350.0	10.0	1.01	3.91	4.98	12.31	purple and red slate
350.0	355.0	5.0	.54	5.05			Top of manganiferous banded hematite @ 355.0 ft.
Total		55.0			1.69	6.73	Core recovery - 71.6%
355.0	360.0	5.0	11.89	14.81			Manganiferous
360.0	370.0	10.0	10.16	9.12	9.50	12.65	banded
370.0	380.0	10.0	9.79	25.91	10.25	22.48	hematite
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-
422.8	430.0	7.2	11.52	29.14			chlorite rock @ 412.2'- 422.8', 455'-468'

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 35(cont'd.)

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

Diamond Drill Hole 39

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 42

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks and Lithology (See Explanation, Fig. 3)
0.0	33.0						Overburden
33.0	80.0						Gray-green slate
80.0	94.0	14.0	0.56	5.68			Bottom of gray-green slate @ 94 ft.
94.0	100.0	6.0	1.00	3.89			Manganiferous
100.0	110.0	10.0	1.31	5.19			purple
110.0	120.0	10.0	2.12	7.38			and
120.0	131.0	11.0	1.40	6.32			red slate
Total		51.0	1.25	5.84			Core recovery - 87.3%
131.0	140.0	9.0	13.60	15.65			Top of manganiferous banded hematite @ 131 ft.
140.0	150.0	10.0	9.48	19.30			
150.0	160.0	10.0	10.56	19.71	12.05	22.65	Manganiferous
160.0	170.0	10.0	8.15	17.52			banded
170.0	180.0	10.0	8.04	10.87			hematite
180.0	190.0	10.0	10.72	24.57			
190.0	198.9	8.9	13.68	28.87			
198.9	205.0	6.1	10.67	27.41			Recrystallized, magnetite-chlorite
205.0	210.0	5.0	11.00	24.08			rock @ 198.9'-207'
210.0	220.0	10.0	11.40	28.06			
220.0	230.0	10.0	10.00	27.17			
230.0	240.0	10.0	12.80	13.60			
Total		109.0			10.92	21.34	Core recovery - 96.4%
240.0	243.0	3.0	5.72	30.09			Bottom of manganiferous banded hematite @ 243'
243.0	250.0	7.0	3.36	23.76			
250.0	260.0	10.0	6.08	23.92			Manganiferous interbedded
260.0	270.0	10.0	6.52	22.46			hematitic and green slate
270.0	274.5	4.5	6.31	28.87			
Total		34.5	5.65	24.65			Core recovery - 97.4%
274.5	280.0	5.5	1.52	11.35			Top of green slate @ 274.8 ft.
280.0	290.0	10.0	.36	5.51			Green
290.0	300.0	10.0	.64	4.54			slate
300.0	308.5	8.5	.44	5.35			
Total		34.0	0.65	6.17			Core recovery - 100.0%
Total Core Sampled		228.5					Core recovery - 95.1%

TABLE 6 - Analyses of composite samples from diamond drill cores

Drill Hole No.	Footage From-	Footage To-	Interval feet	Fus.[1] Mn	Total Fe	Total phos.	Fus. HF[2] SiO_2	Fus.[1] Al_2O_3	S	CaO	MgO	Sol. Mn	Sol. Fe	Comparison to calculated assays from table 5: Fus[1] Mn	Comparison to calculated assays from table 5: Total Fe
	(Assays in Percent)														
1	6.0	18.8	12.8	6.15	10.64	0.246	46.18	16.03	0.141	0.57	2.76	5.08	9.56	6.25	10.39
	18.8	33.0	14.2	3.31	8.61	.201	52.37	16.45	.006	.40	2.14	2.60	7.45	3.31	8.30
	33.0	94.3	61.3	12.00	27.62	1.104	22.10	5.68	.008	3.37	1.18	8.32	27.22	11.89	27.55
	94.3	161.5	67.2	6.60	23.06	.894	31.30	9.56	.143	2.42	1.62	6.16	22.68	6.42	23.20
2	4.0	44.4	40.4	6.48	12.10	.345	45.23	14.58	.050	1.10	2.27	4.44	11.02	6.52	12.05
	44.4	108.2	63.8	12.08	26.92	1.014	23.09	4.85	.012	3.37	1.15	11.03	26.16	11.99	27.52
	108.2	188.0	79.8	7.00	22.02	.888	31.90	8.66	.173	2.60	2.03	6.28	21.46	6.98	22.07
8	11.0	74.6	63.6	8.20	16.04	.522	37.21	12.20	.019	2.37	2.34	6.43	15.07	8.21	16.13
	74.6	89.0	14.4	13.56	24.87	1.062	21.19	5.85	.018	4.24	1.61	9.63	24.38	13.79	25.00
	89.0	162.0	73.0	7.28	20.25	.721	33.77	10.66	.211	2.35	2.32	6.28	19.60	7.18	20.11
	162.0	187.7	25.7	12.49	17.74	.570	29.79	9.84	.014	2.37	1.93	9.35	17.09	12.54	18.68
	187.7	269.6	81.9	7.40	21.06	.780	31.08	9.98	.111	2.11	2.32	7.28	20.33	7.49	20.82
12	70.0	150.0	80.0	6.56	15.84	.486	40.54	14.14	.012	1.70	1.43	5.23	13.93	6.04	15.79
	150.0	223.1	73.1	11.46	26.05	1.110	23.64	6.78	.014	3.43	1.53	8.43	25.76	11.18	26.53
	223.1	290.0	66.9	6.57	18.04	.600	36.41	11.60	.201	1.78	1.15	6.31	17.01	6.36	18.29
17	90.3	183.0	92.7	11.43	22.42	.900	26.18	7.99	.024	3.40	2.09	8.60	21.71	11.13	22.14
	183.0	251.8	68.8	7.63	26.45	1.092	25.08	6.87	.279	3.92	1.92	6.88	26.24	7.40	26.48
20	220.0	301.0	81.0	6.20	15.00	.465	36.83	13.67	.252	2.46	1.71	6.18	14.52	6.14	14.83
21	290.0	313.3	23.3	6.95	14.19	.534	36.48	13.55	.412	2.08	1.71	6.72	13.23	6.85	14.01
24	650.0	730.0	80.0	7.40	23.98	.960	28.94	8.84	.034	3.21	1.19	6.01	21.26	7.09	23.98
	730.0	848.1	118.1	11.44	25.88	1.140	21.45	6.38	.030	4.37	1.44	7.90	25.47	12.11	25.39
	870.0	900.0	30.0	8.20	20.00	.738	29.24	11.32	.024	3.32	1.47	5.96	19.48	8.32	21.05
	969.3	1120.0	150.7	12.04	26.62	1.062	19.61	6.64	.052	4.14	1.15	8.91	25.71	11.77	27.21
27	21.3	70.0	48.7	6.80	15.07	.465	41.51	9.69	.015	1.88	2.35	5.00	13.77	5.99	15.97
	70.0	130.0	60.0	11.36	24.38	1.116	24.67	5.01	.016	4.07	1.73	8.04	23.83	11.29	24.63
	130.0	234.0	104.0	6.46	16.78	.578	36.86	11.66	.133	2.20	2.73	6.38	15.96	6.36	16.83
29	310.0	430.0	120.0	6.08	13.20	.390	40.87	10.98	.151	2.32	2.60	5.43	11.74	6.04	12.93
	430.0	490.0	60.0	10.44	23.94	.918	26.30	5.77	.174	3.90	1.76	7.39	23.81	10.35	24.41
	490.0	540.0	50.0	5.32	18.01	.648	37.88	10.88	.185	2.08	2.90	5.04	17.17	5.29	18.40
31	20.0	120.0	100.0	7.60	17.39	.672	33.64	11.55	.019	2.46	1.53	6.60	17.03	7.30	17.00
	120.0	150.0	30.0	12.53	22.43	.316	22.64	8.10	.036	3.10	1.87	9.80	21.98	11.62	24.49
	150.0	207.0	57.0	6.69	17.00	.654	32.71	11.57	.116	2.54	3.33	6.62	16.49	6.92	17.29
35	355.0	380.0	25.0	10.18	16.98	.543	32.00	11.13	.019	3.03	1.90	7.77	16.25	10.28	17.01
	380.0	410.0	30.0	7.88	14.07	.504	35.64	13.72	.024	2.12	1.91	6.02	13.18	7.69	14.32
	410.0	468.5	58.5	10.98	26.69	1.068	22.08	6.32	.034	3.84	1.43	9.96	26.52	10.76	26.84
	468.5	507.5	39.0	5.39	26.79	.960	28.95	8.60	.490	2.90	1.98	5.31	26.50	5.16	27.01

1/ Fusion Method. 2/ Fusion and Hydrofluoric Method

TABLE 6 - Analyses of composite samples from diamond drill cores
(continued)

Drill Hole No.	Footage From-	Footage To-	Interval feet	Fus.[1] Mn	Total Fe	Total phos.	Fus.HF[2] SiO_2	Fus.[1] Al_2O_3	S	CaO	MgO	Sol. Mn	Sol Fe	Comparison to calculated assays from table 5: Fus.[1] Mn	Comparison to calculated assays from table 5: Total Fe
				(Assays in Percent)											
37	70.0	147.5	77.5	7.56	14.03	.468	39.23	13.28	.064	3.12	0.93	5.20	13.34	7.92	14.29
	147.5	222.0	74.5	9.90	22.32	.852	28.80	9.28	.032	5.69	1.41	6.40	21.75	10.17	22.58
	222.0	280.0	58.0	7.29	20.32	.750	32.36	10.71	.120	4.54	1.51	6.08	19.64	7.46	20.55
39	1630.0	1731.0	101.0	6.51	13.30	.384	40.87	13.93	.037	1.94	1.15	4.86	12.43	6.20	12.93
	1731.0	1755.0	24.0	12.36	26.82	1.170	21.82	6.28	.045	2.91	.27	9.90	26.69	12.35	26.88
40	110.0	144.5	34.5	8.88	13.98	.459	38.02	12.93	.054	2.40	2.11	6.96	12.77	9.07	12.14
	144.5	200.0	55.5	11.00	25.47	1.098	20.43	6.56	.053	4.48	1.73	9.45	25.39	10.89	25.13
41	144.0	180.0	36.0	10.66	18.71	.660	27.72	9.71	.025	4.34	1.70	8.09	18.59	10.79	18.81
	180.0	210.0	30.0	5.88	12.27	.420	44.04	15.13	.024	1.59	2.52	4.00	11.21	5.77	12.08
	210.0	302.0	92.0	11.22	24.74	1.038	23.67	7.22	.363	4.07	.76	8.03	24.58	11.41	24.85
	302.0	360.0	58.0	7.21	20.27	.798	33.04	9.92	.200	3.97	2.16	6.88	19.73	7.35	20.32
43	1120.0	1308.5	188.5[3]	6.28	15.06	.522	39.49	14.20	.041	1.80	1.19	4.66	14.19	5.94	14.77
	1308.5	1350.0	41.5	12.64	26.42	1.194	21.68	6.08	.045	2.59	.25	8.20	26.21	12.51	26.32
44	275.5	430.0	154.5	6.69	14.32	.453	38.37	13.87	.160	3.28	1.80	5.75	13.26	6.74	14.17
	430.0	460.0	30.0	10.36	19.87	.624	27.00	11.13	.099	4.21	2.36	8.36	19.64	10.55	19.58
	460.0	526.5	66.5	7.50	16.49	.606	34.10	12.07	.650	4.17	1.69	6.72	15.43	7.58	16.53
	618.5	697.5	79.0	8.08	18.23	.591	32.05	11.51	.110	3.30	1.35	7.22	17.79	8.02	17.98
45	110.0	243.7	133.7	5.83	10.10	.315	43.81	16.25	.110	2.03	2.54	4.16	9.13	5.71	10.04
	243.7	300.0	56.3	11.12	18.76	.684	31.05	10.06	.029	4.13	1.48	7.00	17.38	11.14	19.02
	300.0	308.3	8.3	6.46	16.61	.636	32.72	12.28	.100	5.74	1.71	6.38	15.60	6.52	16.32
46	60.0	114.0	54.0	5.67	11.96	.303	42.53	14.85	.046	2.73	2.08	5.40	10.59	5.71	11.76
	114.0	130.0	16.0	10.96	27.16	.954	19.29	6.54	.017	5.60	.97	10.56	26.84	11.09	27.28
	130.0	180.0	50.0	7.40	16.82	.585	35.08	12.34	.550	3.07	1.79	6.44	16.01	7.43	16.77
	180.0	210.0	30.0	10.84	26.27	.972	19.36	6.98	.130	5.40	1.30	10.64	25.30	10.79	26.38
	210.0	245.5	35.5	7.33	18.29	.648	35.17	10.90	.200	2.61	1.81	7.24	17.54	7.14	18.41
48	61.0	114.5	53.5	5.52	11.39	.370	42.53	14.77	.091	1.68	2.69	5.48	10.67	5.63	11.64
	114.5	150.0	35.5	10.61	23.22	.930	22.70	8.96	.160	4.07	2.23	10.12	23.01	10.71	23.30
	150.0	280.0	130.0	7.38	13.43	.501	37.88	13.41	.300	2.48	2.47	7.36	12.45	7.28	13.62
	320.0	356.5	36.5	5.92	9.07	.306	43.82	16.38	.320	1.77	2.46	5.72	7.92	5.88	9.18
	356.5	377.5	21.0	11.34	12.67	.501	30.44	12.09	.025	3.56	2.77	10.48	11.88	11.46	12.78
	437.5	474.2	36.7	9.08	14.03	.528	33.68	11.21	.170	3.50	1.76	9.02	13.42	9.15	14.08
51	113.0	150.0	37.0	11.20	24.84	.978	19.13	7.36	.029	2.54	5.27	9.74	24.25	11.18	24.82
	150.0	170.0	20.0	6.24	13.39	.438	39.36	14.23	.120	2.65	2.41	5.84	12.61	6.38	13.22
52	44.0	140.0	96.0	8.24	19.93	.732	28.48	11.11	.390	3.28	2.21	8.15	19.90	8.26	19.80
	250.0	280.0	30.0	6.64	14.15	.496	39.00	12.03	.160	3.64	2.62	6.20	13.90	6.55	14.17
55	105.3	129.3	24.0	7.14	17.03	.728	35.00	11.57	.068	3.42	2.02	7.08	16.57	6.96	17.24
	129.3	140.0	10.7	10.20	19.24	.843	26.86	8.74	.085	4.28	1.33	10.10	18.84	10.28	19.41
56	95.5	120.0	24.5	7.86	19.24	.732	31.42	10.63	.290	2.79	2.17	7.40	18.59	8.01	19.18
	120.0	130.0	10.0	10.98	24.17	.920	21.45	6.52	.022	3.88	1.10	9.84	23.93	11.16	24.17
	130.0	148.6	18.6	8.18	20.00	.912	29.51	8.72	.180	3.97	1.63	6.00	19.89	8.30	19.80

1/ Fusion Method. 2/ Fusion and Hydrofluoric Method. 3/ Grouping does not correspond with intervals shown in table 5.

Int. - Bu. of Mines, Pgh., Pa.

CHEVRON RESOURCES

1986

Property GRID MH-1 Sec. ____ T D R 2 State Me. Drill Hole No. MH1-1 Sheet 1 of 7

Scale 1" = 10' Coord. N 205 E 6E Bearing 145° SE Dip -50° Collar Elev ____

Line 205 at 6E -50°

Logged by RAE

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ft.g.	Sample Number	Assay
0-15' Overburden							
15-29 buff F.g. tuffaceous sediment. lt. gray →							
29-190' Sedimentary "fragmental Conglomerate" Clasts and blocks of predominantly metasedS set in black carbonaceous shaley matrix. Frags are subrounded → rounded, flattened and range from 1" → <1". Unit is probably a coarse debris flow. Large blocks are predom greywacke.							
Fol 30-50° CA							
	Kcal 1' piece						

CHEVRON RESOURCES

Property Grid MH-1 Sec. ____ T D R 2 State Me. Drill Hole No. MH1-1 Sheet 2 of 7

Scale 1" = 10' Coord. N 20S E 6E Bearing 145° SE Dip -50° Collar Elev ____

Logged by R Eisenberg

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Sample Interval	Sample Rec. ftg.	Sample Number	Cu	Pb	Zn	Au	Ag	As
100												
150												
	pegmatite vein 3"											
Vesicular frag?	2% Po											
190-207 - "Felsic" Breccia: almost looks like "crackle breccia" frags are more angular < 3cm and mostly volc. matrix is still carbonaceous - maybe altered so that frags → grey	10% Po + mnr graphite in slips; veins "clots"; 3% Po - throughout			Cu Pb Zn Au Ag As			78	6	150	<.005	0.2	2
200												

CHEVRON RESOURCES

Property Gold MH-1 Sec. ____ T D R 2 State Me Drill Hole No. MH1-1 Sheet 3 of 7

Scale 1" = 10' Coord. N 205 E 16E Bearing 145° SE Dip 50° Collar Elev ____

Logged by R Eisenberg

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Sample Interval	Rec. ftg.	Number	Cu	Pb	Zn	Au	Ag	As
200	← Cut 1 pine											
207-306: Black carbonaceous shale and carbonaceous fragmental carg! (as in 100-200') frags are flattened + sheared	1-3% Po + Py											
Black shale co frags	1am of disem 5-10% Py			Cu Pb Zn Au Ag As			34	14	80			
				Cu Pb Zn			34	13	72			
250												
6" Frags of veric. vole												
300												

CHEVRON RESOURCES

Property Grid Mh-1 Sec. ____ T D R B State Me Drill Hole No. MH1-1 Sheet 4 of 7

Scale 1" = 10 Coord. N 205 E 6 Bearing 145° Dip -50° Collar Elev ____

Logged by R Eisenberg

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Sample Interval	Sample Rec. ftg.	Sample Number	Cu	Pb	Zn	Au	Ag	As
300												
306-354 Volc. Fragmental: Fragsare >90% volcanic, subangular and range from 10cm → <1cm. Carbon in matrix is now rare: unit is lighter in color (due to alteration?) than above congl. amt. of matrix <22 - Frags = int. vdc. many frags have relict veiz.												
Veiz vole. Frag 6"	← cut 1 piece											
Chert Frag (white)												
Alt. Vole Frag.	~~massive Po in matrix of fgmtl.~~ 3"			Cu Pb Zn			42	3	97			
				Cu Pb Zn Au As Ag			37	<2	96			
increasing carbon in matrix	Tr cp+Py+ZnS? Qtz veinlets 2" pa-lot"			Cu Pb Zn			39	5	84			
354-389 Black carbonaceous Fgmtl. Fragsare much less clast.	5% py+Po: as dissem veinlets + clasts			Cu Pb Zn			63	22	110			
	1g qtz vein mnr. po+py+cp+ZnS			Cu Pb Zn Au Ag As			73	16	107			
				Cu Pb Zn			68	18	118			
	377-387: 6-8% py abdt: clasts of massive py. lam. of py			Cu Pb Zn			64	17	158			
389-395 Int. vole. Fgmtl. - almost no matrix												
395-412: lt. gray Fg. Int. flow? -												
400												

CHEVRON RESOURCES

Property Mt-1 Sec. ____ T D R 2 State Me Drill Hole No. MH1-1 Sheet 5 of 7

Scale 1" = 10 Coord. N 205 E 6E Bearing 145° Dip -50 Collar Elev ____

Logged by

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Number	Cu	Pb	Zn	Au	Ag	As
400												
fractured												
412-423.5 Siliceous crackle Breccia	5-10% po as veins & matrix fillings and assoc. with veins. Po+Py+tr cp+tr Zns?			Cu Pb Zn	Zn Au, Ag, As		41	4	109	.012	0.3	70
				Cu Pb Zn			39	4	130			
423.5-505 Int. volc. fragmental: some zones are more brecciated & altered; some contain more carbon. Portions look like above crackle breccia	3-6% po as clots-veins veinlets											
				Cu Pb Zn			25	<2	115			
	6" massive po "vein"											
	← cont'd											
	447-453 abdt qtz stockwork Py+po+cp?+Zns.			Cu Pb Zn	Au, Ag, As		47	6	170	.002	<0.1	17
	po clots+veins 3" zone											
				Cu Pb Zn			29	6	127			
crackle Δ												
Higher carbon cement												
500												

CHEVRON RESOURCES

Property MH-1 Sec. ____ T D R 2 State Me Drill Hole No. MH-1 Sheet 6 of 7

Scale 1" = 10 Coord. N 205 E 6 Bearing 145° Dip -50 Collar Elev ____

Logged by

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Sample Number	Cu	Pb	Zn	Au	Ag	As
500												
505-526 Dark gray - Black v.fg massive volc.? could just be mudstone rock is massive, contains veins? has some fragmental zones but shows no bedding	3-5% disem po. + py											
porn vesicles?				Cu Pb Zn Au, As, Ag			17	6	139	.009	<.1	7
526-562 Black carbonaceous, matrix fragmental - Frags are angular white → light gray chert/ver siliceous mudstone proportion of carb. matrix varies Frags are angular < 5cm Abt. graphic	3-5% po + py 2" zone of + 30% py + po in lamin.											
				Cu Pb Zn Au, As, Ag			80	25	174	.009	0.3	10
562 lt. gray - Dark gray sil mudstone with -597 mar. fragmental zones. 35°CA.												
				Cu Pb Zn Au, Ag, As			37	5	25	.003	<0.1	12
597-635 (Bottom) lt. gray fragmental. v.f.g. white → gray cherty frags in carb. matrix. matrix varies from lt to massive carbonaceous zones Frags < 3cm angular - flattened												

CHEVRON RESOURCES

Property MH-1 Sec. ____ T D R 2 State Me Drill Hole No. MH-1 Sheet 7 of 7

Scale 1" = 10' Coord. N 205 E 6E Bearing 145° Dip -50 Collar Elev ____

Logged by R Eisenbery

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Sample Interval	Rec. ftg.	Number	Cu	Pb	Zn	Au	Ag	As
Blackcarb zone												
Blackcarb zone No Frags	3mm massive py lam 40°C.A											
				Cu, Pb, Zn Au, As, Ag			51	13	90	.003	<.1	7
635 - Bo Ho												