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 34

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	170.0						Gray-green slate
170.0	180.0	10.0	0.44	5.00			
180.0	187.4	7.4	.72	5.00			Gray-green slate
Total		17.4	0.56	5.00			Core recovery - 100.0%
187.4	200.0	12.6	6.76	11.06			Bottom of gray-green slate @ 187.4 ft.
200.0	210.0	10.0	9.76	10.82			Manganiferous
210.0	220.0	10.0	6.04	12.11			
220.0	235.3	15.3	4.96	11.79			purple and
235.3	240.0	4.7	2.32	6.78			
240.0	250.0	10.0	5.80	9.37			red slate
250.0	260.0	10.0	6.00	9.53			
260.0	267.4	7.4	3.24	9.77			
267.4	270.0	2.6	6.72	16.31			(Rocks become magnetic below 250 ft.)
270.0	280.0	10.0	6.08	12.76			
280.0	290.0	10.0	5.96	11.30			Between 235.4 ft. through 267.4 ft. a
290.0	300.0	10.0	7.00	10.34			zone of undifferentiated green and
300.0	309.1	9.1	6.24	10.17			hematitic slate
Total		121.7	6.05	10.85			Core recovery - 97.7%
309.1	320.0	10.9	0.80	5.49			
320.0	330.0	10.0	.52	5.58			Gray-green slate
330.0	340.0	10.0	.56	5.42			
340.0	350.0	10.0	.44	5.09			
350.0	360.0	10.0	.52	4.77			
360.0	362.6	2.6	.80	5.34			
Total		53.5	0.59	5.28			Core recovery - 97.2%
362.6	370.0	7.4	7.96	11.16			Manganiferous purple and
370.0	375.7	5.7	6.84	14.55			red slate (?)
Total		13.1	7.47	12.64			Core recovery - 100.0%
375.7	380.0	4.3	0.76	4.85			Fault @ 375.7 ft.
380.0	390.0	10.0	.44	5.17			
390.0	400.0	10.0	.44	4.20			
400.0	410.0	10.0	.84	5.16			Green slate
410.0	420.0	10.0	.48	4.93			
420.0	430.0	10.0	.32	4.85			
430.0	440.0	10.0	.36	5.58			
440.0	450.0	10.0	.48	5.17			
450.0	460.0	10.0	1.04	6.47			
460.0	466.0	6.0	.88	5.01			
Total		90.3	0.58	5.16			Core recovery - 97.5%
466.0	470.0	4.0	7.40	11.88			Manganiferous hematitic slate
470.0	474.0	4.0	9.84	17.38			and green slate
474.0	480.0	6.0	7.16	13.90			Recrystallization to magnetite-
480.0	488.6	8.6	2.92	9.86			chlorite rock from 488.6'-513.6'
488.6	500.0	11.4	5.04	19.04			This sequence is believed to be a lens
500.0	510.0	10.0	6.40	14.88			within the green slate
510.0	513.6	3.6	8.40	16.25			
Total		47.6	6.07	14.99			Core recovery - 100.0%
513.6	520.0	6.4	3.56	8.65			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 34 (cont'd.)

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% 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 39 (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)
1748.0	1750.0	2.0	7.68	34.39			
1750.0	1752.0	2.0	9.88	8.43			
1752.0	1755.0	3.0	11.28	31.47			
Total		24.0	12.35	26.88			Core recovery - 99.2%
Total Core Sampled		195.0					Core recovery - 85.9%

Diamond Drill Hole 40

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

TABLE 5 - Diamond drill core analyses

Diamond Drill Hole 41

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 43

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 43 (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)
1160.0	1170.0	10.0	2.80	7.43	4.15	11.84	Manganiferous purple and red slate
1170.0	1180.0	10.0	1.48	7.59			
1180.0	1190.0	10.0	2.28	4.57			
1190.0	1200.0	10.0	2.96	7.43			
1200.0	1210.0	10.0	3.52	8.00			
Total		50.0			2.88	7.89	Core recovery - 93.6%
1210.0	1220.0	10.0	9.40	21.39			Manganiferous banded hematite interbeds in manganiferous purple and red slate
1220.0	1230.0	10.0	13.60	20.90			
Total		20.0	11.50	21.14			Core recovery - 91.0%
1230.0	1240.0	10.0	4.76	11.92			Manganiferous purple and red slate
1240.0	1250.0	10.0	1.04	11.67	2.85	14.59	
1250.0	1260.0	10.0	1.64	1.96	2.61	16.94	
1260.0	1264.6	4.6	2.56	13.39			
1264.6	1266.0	1.4	0	0	(lost core-no sludge)		Top of manganiferous banded hematite @ 1266.0'
Total		36.0			3.17	13.78	Core recovery - 62.2%
1266.0	1270.0	4.0	13.56	31.11			Manganiferous banded hematite
1270.0	1280.0	10.0	8.20	33.97			
1280.0	1290.0	10.0	15.68	22.13			
Total		24.0	12.21	28.56			Core recovery - 96.7%
1290.0	1299.0	9.0	7.44	34.86	6.05	28.67	Red and gray slate interbeds in manganiferous banded hematite
1299.0	1308.5	9.5	1.72	4.74			
Total		18.5			3.83	16.38	Core recovery - 85.4%
1308.5	1320.0	11.5	11.24	28.49			Manganiferous banded hematite
1320.0	1330.0	10.0	15.16	24.00			
1330.0	1340.0	10.0	11.00	30.05			
1340.0	1350.0	10.0	12.84	22.45			
Total		41.5	12.51	26.32			Core recovery - 100.0%
Total Core Sampled		585.0					Core recovery - 91.5%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 44

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 44(cont'd.)

Footage From-	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)
							Core recovery - 97.6%
697.5	710.0	12.5	2.32	7.23			Green slate
710.0	733.5						Green slate
Total Core Sampled		380.0					Core recovery - 94.2%

Diamond Drill Hole 45

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 46

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 47

Footage From-	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	40.0						Gray-green slate
40.0	50.0	10.0	2.60	4.82			
50.0	60.0	10.0	1.04	4.80			Gray-
60.0	70.0	10.0	.48	4.74			green
70.0	80.0	10.0	0.60	4.26			slate
80.0	84.0	4.0	1.60	4.34			Bottom of gray-green slate @ 84 ft.
Total		44.0	1.22	4.63			Core recovery - 77.0%
84.0	90.0	6.0	7.72	13.82			Recrystallized
90.0	100.0	10.0	4.48	8.03			Manganiferous
100.0	110.0	10.0	6.60	10.44			purple and red slate; abundant
110.0	120.0	10.0	4.96	12.53			magnetite
120.0	125.0	5.0	7.35	8.84			Lower contact of this
125.0	130.0	5.0	7.07	18.40			unit @ 125'
Total		46.0	6.06	11.50			Core recovery - 98.5%
130.0	140.0	10.0	12.00	22.42			Recrystallized
140.0	150.0	10.0	10.92	25.63			Manganiferous
150.0	160.0	10.0	4.28	14.30			banded hematite;
160.0	170.0	10.0	10.80	17.27			abundant magnetite
170.0	180.0	10.0	11.63	17.52			
180.0	191.5	11.5	10.68	17.22			Bottom of this unit @ 191.5'
Total		61.5	10.07	19.02			Core recovery - 99.3%
191.5	200.0	8.5	3.00	7.24			Recrystallized manganiferous
200.0	210.0	10.0	1.32	5.95			interbedded hematitic and green slate
210.0	220.0	10.0	3.08	10.14			
Total		28.5	2.44	7.80			Core recovery - 98.9%
220.0	230.0	10.0	0.60	4.83			
230.0	240.0	10.0	.56	5.15			
240.0	242.0	2.0	.64	5.16			Top of green slate @ 242'
242.0	250.0	8.0	.64	4.18			
250.0	260.0	10.0	.65	4.26			Green
260.0	270.0	10.0	.57	4.34			
270.0	275.0	5.0	.64	5.17			slate
275.0	280.0	5.0	.76	4.58			
280.0	290.0	10.0	.56	4.02			
290.0	300.0	10.0	.88	4.58			
Total		80.0	0.65	4.55			Core recovery - 97.4%
300.0	498.0						Green slate
Total Core Sampled		260.0					Core recovery - 94.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 48

Footage From-	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	30.0						
30.0	40.0	10.0	1.13	6.38			Gray-green slate
40.0	50.0	10.0	.56	5.66			
50.0	61.0	11.0	2.40	6.14			Gray-green slate
Total		31.0	1.40	6.06			Bottom of gray-green slate @ 61'
							Core recovery - 94.2%
61.0	70.0	9.0	6.80	11.07			
70.0	80.0	10.0	3.72	11.40			Recrystallized manganiferous purple and red slate
80.0	90.0	10.0	4.48	7.27			
90.0	100.0	10.0	6.08	13.44			
100.0	110.0	10.0	5.86	11.37			
110.0	114.5	4.5	8.64	19.68			
Total		53.5	5.63	11.64			Bottom of the unit @ 114.5'
							Core recovery - 98.5%
114.5	120.0	5.5	10.04	24.16			
120.0	130.0	10.0	11.22	24.00			Recrystallized manganiferous banded hematite
130.0	140.0	10.0	11.84	23.85			
140.0	150.0	10.0	9.45	21.58			
Total		35.5	10.71	23.30			Core recovery - 98.0%
150.0	155.0	5.0	8.52	21.83			
155.0	160.0	5.0	7.92	10.64			Recrystallized manganiferous interbedded hematitic and green slate
160.0	170.0	10.0	4.28	12.96			
170.0	180.0	10.0	8.08	17.95			
180.0	190.0	10.0	10.28	18.27			
190.0	200.0	10.0	7.64	18.67			
200.0	210.0	10.0	9.00	12.85			
210.0	220.0	10.0	6.88	11.56			Fault @ 280.0'
220.0	230.0	10.0	12.60	12.29			
230.0	240.0	10.0	7.60	18.43			
240.0	250.0	10.0	5.80	11.46			
250.0	260.0	10.0	4.08	7.27			
260.0	270.0	10.0	5.40	9.21			
270.0	280.0	10.0	4.84	9.94			
Total		130.0	7.28	13.62			Core recovery - 97.9%
280.0	287.0	7.0	3.08	7.00			
287.0	290.0	3.0	1.88	7.27			Gray-green slate
290.0	300.0	10.0	1.68	7.26			
300.0	307.5	7.5	2.28	6.63			Bottom of gray-green slate @ 307.5'
307.5	310.0	2.5	2.32	10.59			
310.0	320.0	10.0	2.40	6.79			
Total		40.0	2.27	6.97			Core recovery - 96.5%
320.0	322.2	2.2	6.92	9.46			
322.2	330.0	7.8	5.20	9.21			Recrystallized manganiferous purple and red slate
330.0	340.0	10.0	9.31	11.32			
340.0	350.0	10.0	3.68	6.95			
350.0	356.5	6.5	4.43	9.20			
Total		36.5	5.88	9.18			Core recovery - 100.0%
356.5	360.0	3.5	15.20	10.02			
360.0	370.0	10.0	11.40	11.88			Recrystallized manganiferous purple and red slate

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 48 (cont'd.).

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 49

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 50

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 51

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 52 (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)
230.0	240.0	10.0	2.08	6.80			
240.0	245.0	5.0	.56	6.49			
245.0	250.0	5.0	1.04	6.16			
Total		110.0	1.25	6.56			Core recovery - 98.7%
250.0	261.6	11.6	5.00	10.78			Manganiferous chlorite-carbonate rock; (a lens in green slate)
261.6	270.0	8.4	9.60	20.27			
270.0	280.0	10.0	5.80	12.97			
Total		30.0	6.55	14.17			Core recovery - 100.0%
280.0	287.5	7.5	1.88	6.97			
287.5	290.0	2.5	.68	3.48			
290.0	300.0	10.0	.64	5.84			Green slate
300.0	310.0	10.0	.60	5.19			
310.0	320.0	10.0	.52	6.32			Limestone breccia @ 401'-409'
320.0	330.0	10.0	.36	4.78			
330.0	340.0	10.0	.68	4.70			
340.0	350.0	10.0	.48	3.40			
350.0	360.0	10.0	.84	4.46			
360.0	370.0	10.0	.60	3.97			
370.0	380.0	10.0	1.40	3.89			
380.0	390.0	10.0	2.28	5.35			
390.0	401.0	11.0	.96	3.89			
Total		121.0	0.91	4.82			Core recovery - 94.6%
401.0	488.0						Green calcareous slate
Total Core Sampled		381.0					Core recovery - 97.5%
0.0	20.0						Green slate
20.0	30.0	10.0	0.60	6.97			Green slate
30.0	40.0	10.0	.96	6.48			Contact @ 41.0'
40.0	44.0	4.0	1.55	7.45			
Total		24.0	0.91	6.85			Core recovery - 96.3%
44.0	50.0	6.0	7.25	15.39			Manganiferous interbedded hematitic and green slate
50.0	60.0	10.0	9.73	24.30			
60.0	70.0	10.0	9.35	23.33			
70.0	80.0	10.0	9.87	22.11			
80.0	90.0	10.0	9.72	21.55			These manganiferous rocks comprise a lens in green slate
90.0	100.0	10.0	8.48	20.25			
100.0	110.0	10.0	6.04	20.57			
110.0	112.0	2.0	15.87	17.01			
112.0	120.0	8.0	6.00	20.09			
120.0	130.0	10.0	5.20	12.96			Contact @ 140.0'
130.0	140.0	10.0	8.60	15.71			
Total		96.0	8.26	19.80			Core recovery - 99.3%
140.0	150.2	10.2	2.71	9.96			
150.2	160.0	9.8	.95	7.94			Green slate
160.0	168.0	8.0	.44	5.51			
168.0	180.0	12.0	.68	5.91			
180.0	190.0	10.0	2.95	9.56			
190.0	200.0	10.0	.48	6.48			
200.0	210.0	10.0	.56	5.67			Fault @ 210.0'
210.0	220.0	10.0	.84	4.70			
220.0	230.0	10.0	1.16	6.16			

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 53

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

Diamond Drill Hole 54

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 54 (cont'd.)

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

Diamond Drill Hole 55

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	6.5						Overburden
6.5	90.0						Gray-green slate
90.0	100.0	10.0	0.88	5.95			Gray-green slate
100.0	105.3	5.3	2.28	8.24			Contact @ 105.3'
Total		15.3	1.36	6.74			Core recovery - 98.0%
105.3	110.0	4.7	8.00	21.53			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	8.00	17.37			
120.0	129.3	9.3	5.32	14.92			
Total		24.0	6.96	17.24			Core recovery - 93.3%
129.3	140.0	10.7	10.28	19.41			Manganiferous banded hematite contact @ 140.0' Core recovery - 99.1%
140.0	151.0	11.0	2.40	6.93			Above manganiferous rocks comprise a lens in green slate - Green slate Core recovery - 94.5%
151.0	160.0	9.0	0.72	4.73			Green slate
160.0	170.0	10.0	.32	5.38			
Total		19.0	0.51	5.07			Core recovery - 100.0%
170.0	185.0						Green slate
Total Core Sampled		80.0					Core recovery - 96.8%

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 56

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						
3.0	70.0						Overburden
70.0	80.0	10.0	1.88	8.92			Gray-green slate
80.0	89.0	9.0	1.04	5.84			
89.0	95.5	6.5	2.48	6.97			Gray-green slate Contact @
Total		25.5	1.74	7.34			Core recovery - 89.4%
95.5	100.0	4.5	15.08	15.08			
100.0	110.0	10.0	6.76	23.43			Manganiferous interbedded hematitic and green slate
110.0	120.0	10.0	6.08	16.79			
Total		24.5	8.01	19.18			Core recovery - 98.0%
120.0	130.0	10.0	11.16	24.17			Manganiferous banded hematite Core recovery - 93.0%
130.0	136.5	6.5	6.52	19.46			
136.5	144.0	7.5	11.51	27.82			Manganiferous interbedded hematitic and green slate Contact @ 144.8'
144.0	148.6	4.6	5.60	7.22			
Total		18.6	8.30	19.80			Core recovery - 97.3%
148.6	160.0	11.4	0.68	3.89			Above manganiferous rocks comprise a lens in green slate
160.0	170.0	10.0	.52	5.68			Green slate
Total		21.4	0.61	4.73			Core recovery - 96.3%
170.0	194.5						Green slate
Total Core Sampled		100.0					Core recovery - 94.8%

Diamond Drill Hole 57

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 57 (cont'd.)

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

Diamond Drill Holes 58

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 59

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

TABLE 5 - Analyses of diamond drill cores

Diamond Drill Hole 60

Footage From-	Footage To-	Sample Interval Feet	Core Assay,% Mn	Core Assay,% Fe	Combined Core and Sludge Assay,% Mn	Combined Core and Sludge Assay,% Fe	Remarks & Lithology (See Explanation, Fig. 3)
0.0	4.5						Overburden
4.5	40.0						Gray-green slate
40.0	50.0	10.0	0.60	5.14			Gray-green slate
50.0	57.0	7.0	.72	4.66			
57.0	68.0	11.0	2.12	7.55			contact @ 77.0'
68.0	77.0	9.0	2.36	6.67			
Total		37.0	1.52	6.14			Core recovery - 100.0%
77.0	80.0	3.0	8.00	13.82			Manganiferous
80.0	90.0	10.0	13.52	12.69			
90.0	100.0	10.0	11.80	19.76			banded
100.0	110.0	10.0	8.44	15.91			
110.0	120.0	10.0	10.44	17.76			hematite
120.0	130.0	10.0	10.64	22.66			
130.0	138.0	8.0	12.44	20.24			
Total		61.0	11.02	17.89			Core recovery - 98.4%
138.0	140.0	2.0	3.68	16.63			Manganiferous interbedded hematitic and green slate - contact @ 155'.
140.0	150.0	10.0	7.52	19.28			The above manganiferous rocks comprise
150.0	155.0	5.0	1.20	6.75			a lens in green slate
155.0	166.0	11.0	7.48	18.08			Green slate
Total		28.0	6.10	16.38			Core recovery - 100.0%
Total Core Sampled		126.0					Core recovery - 99.2%

Diamond Drill Hole 61

Footage From-	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	228.5						Gray-green slate
228.5	332.0						Gray-green slate
332.0	340.0	8.0	0.84	4.02			Gray-
340.0	350.0	10.0	2.20	8.03			green slate
350.0	361.0	11.0	1.96	5.78			contact @ 361'
Total		29.0	1.73	6.07			Core recovery - 99.3%
361.0	370.0	9.0	7.72	19.04			Manganiferous interbedded
370.0	380.0	10.0	9.44	16.87			hematitic and
380.0	390.0	10.0	3.24	10.28			green slate
390.0	400.0	10.0	7.76	13.82			contact @ 409.2'
400.0	409.2	9.2	8.88	15.91			
Total		48.2	7.38	15.09			Core recovery - 98.5%
409.2	420.0	10.8	2.20	4.90			The above manganiferous rocks comprise a lens in green slate
420.0	430.0	10.0	3.40	4.98			Green slate
Total		20.8	2.78	4.94			Core recovery - 98.1%
Total Core Sampled		98.0					Core recovery - 98.7%

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

Property DIAMOND Sec. MH-4-1 T 9 R 3 State Me Drill Hole No. MH-4-1 Sheet 1 of 5

Scale 1" = 10' Coord. N ~~14.25~~ E E _____ Bearing NW Dip 55° Collar Elev _____

Logged by RJR 8-87 14.25E 13.5S @ N60°W

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Number	SAMPLE	ASSAY
0 - 25' OVERBURDEN								
Mixture of Rocks: medium grained Intermediate volc., fine grained tan tuff(?), grey aphan. sediment, → Probably boulders and not bedrock ←								
32.7 Grey fine grained tuffecious Shale with minor py. <1% strings of white calcite	py <1%							
	CA ~30°							
dark grey shale in lighter tuffacious matrix	pyrite in wisps in laminations 2-4%							
	mislatch							

10 20 30 40 50 60 70 80 90

CHEVRON RESOURCES

Property _____ Sec. ____ T ____ R ____ State _____ Drill Hole No. MH-4-1 Sheet 2 of 5

Scale 1" = ____ Coord. N _____ E _____ Bearing _____ Dip ____ Collar Elev _____

Logged by _____

Rock Type & Structures		Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Number	SAMPLE	ASSAY

160
110
120

30° CA

Dark Grey Shale
fine grained weakly conductive
becomes more graphitic (conductive) and more pyritic with depth most conductive at ~400' depth

pyrite in strings and wisps along cleavage & fractures ≤ .1 inch thick probably averages 3% over section

30
40

Bedding (?) @ ~20° CA

50

ubiquitous pyrite in strings wisps & dissem. 2-4%

160
170
180
190
200

CHEVRON RESOURCES

Property _____ Sec. ____ T ____ R ____ State _____ Drill Hole No. MH-4-1 Sheet 3 of 5

Scale 1" = ____ Coord. N _____ E _____ Bearing _____ Dip ____ Collar Elev _____

Logged by

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Sample Number	Assay
200							
203.4' DARK GREY Shale (moderately conductive)	Limey breccia 1' with 7-10% Py Lapilli sized frags. CA ~15°						
210							
220	CA ~20°						
230							
240							
250							
260	Py in veins concordant and on fractures 5%						26
270	CA 35° - Bedding Limey with fragments and swirled appearance						271
							276
280	1' Limey Breccia - LS. upto 1"						286
290							
300	ACID TEST @ 300' Read 50° Actual = ?						

CHEVRON RESOURCES

Property _____ Sec. ____ T ____ R ____ State _____ Drill Hole No. MH-4-1 Sheet 4 of 5

Scale 1" = ____ Coord. N _____ E _____ Bearing ____ Dip ____ Collar Elev _____

Logged by

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Sample Number	Assay
300							
Dark grey to black GRAPHITIC Shale							
310							
320							
330	Limey Breccia						
	40° CA Limey Breccia with black cherty section scattered clasts of pyrite						337.5
340							5
							343
							345
	pyrite in bands and individual grains and clasts up to 7%						
350							
							355
360							
370							
380							
390							390
State is very conductive in this area - "pencil lead"							
400							400

CHEVRON RESOURCES

Property _____ Sec. ____ T ____ R ____ State _____ Drill Hole No MH-4-1 Sheet 5 of 5

Scale 1" = ____ Coord. N _____ E _____ Bearing _____ Dip ____ Collar Elev _____

Logged by

Rock Type & Structures	Mineralization and Alteration	Hole Depth	% Rec.	Interval	Rec. ftg.	Sample Number	Assay
Dark grey/Black conductive Shale							
440' POLYMICTIC BRECCIA/CONGLOMERATE in dark fine grained shale(?) matrix. Fragments are shale, light fine grained volcanic (DACITE) Lt grey chert, intrusive DIORITE. Rounded to sub angular pieces up to 4" or more partly matrix supported	.1' Breccia lapilli size frags. 60° CA						
	Py & po appear in the matrix and as clasts through unit						

400 410 420 430 440 450 460 470 480 490 500

BO HO @ 503'

Acid Test @ 503'