DIAMOND DRILLING

TOWNSHIP: Carscallen REPORT NO.: 27

WORK PERFORMED BY: Cleyo Resources Inc.

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P 649961	BM-1	191	Nov/83	(1) (2)
	BM-2	193	Nov/83	(1) (2)
	BM-3	215	Nov/83	(1) (2)
	BM-4	197	Nov/83	(1) (2)
P 649960	BM-5	167	Nov/83	(1) (2)
	BM-6	177	Nov/83	(1) (2)
	BM-7	196	Nov/83	(1) (2)
	BM-8	196	Nov/83	(1) (2)
P 649961	BM-9	198	Nov/83	(1) (2)
	BM-10	138	Dec/83	(1) (2)

NOTES:
(1) #30-84
(2) OMEP Submittal: OM83-5-C-75

020

SUMMARY OF 1983 DRILL RESULTS FOR CLEYO RESOURCES INC. ON THEIR BIG MARSH PROPERTY CARSCALLEN TOWNSHIP PORCUPINE MINING DISTRICT, ONTARIO

January 16, 1984

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I. INTRODUCTION

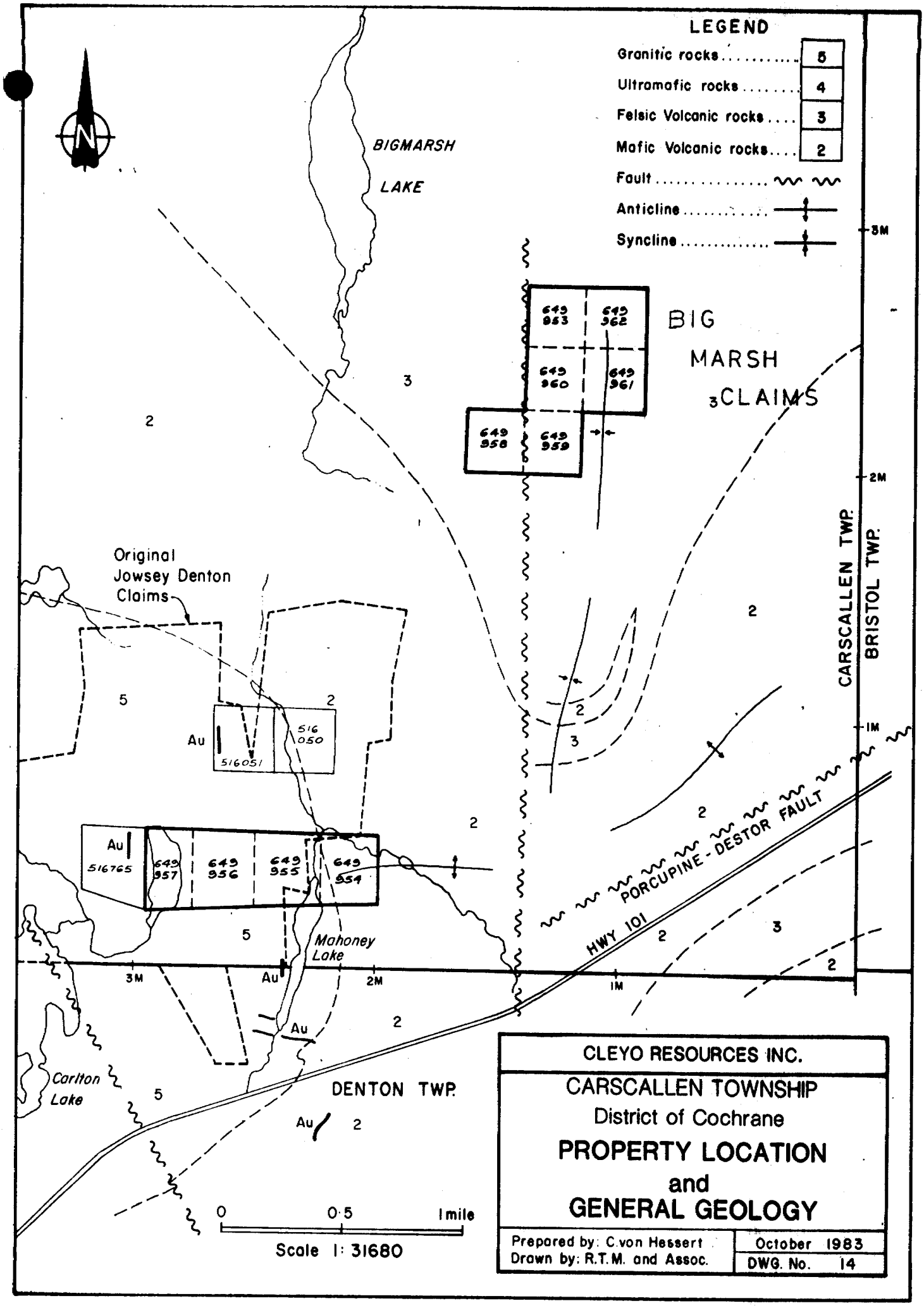
As a result of an extensive exploration program carried out by Cleyo Resources on their Carscallen Township properties during the summer months of 1983, a diamond drilling program was undertaken on their Big Marsh claim group. Hole locations were selected on the basis of ground magnetic and EM (VLF, Max-Min) surveys as well as inferred structure.

II. SUMMARY

During the period November 15 - December 7, 1983, ten BQ diamond drill holes were completed by Dominik Drilling of Timmins in a program totalling 1,868 feet. These holes were drilled in pairs from a single set-up; the first hole at -45°, the second at -55° angle. This was done to ascertain the dip of rock units encountered and to test the same unit for potential gold mineralization at depth. All the holes were planned so that the initial 45° hole should intersect a target within one hundred and fifty feet. The targets were usually combined VLF and Max-Min anomalies. In some cases, however, drilling was also designed to test inferred cross-faulting (see Map 13).

In all but one hole, BM-6, the intended target was intersected. The majority of the rock intersected was of sedimentary origin, with the EM responses being attributed to graphitic shales. However, in holes BM-5 and BM-6 drilled on the shoulder of a magnetic high (see Map 13), volcanic rocks were encountered.

The highest assay recovered was Ø.Ø2 ounces gold per ton. This result was obtained from a pyritic metasediment encountered in



CLEYO RESOURCES INC.

CARSCALLEN TOWNSHIP
District of Cochrane

PROPERTY LOCATION and GENERAL GEOLOGY

Prepared by: C.von Hessert
Drawn by: R.T.M. and Assoc.

October 1983
DWG. No. 14

hole BM-2.

Despite the encouraging appearance of pyritic carbonate and vuggy quartz intersected in several holes, gold assays were disappointing and can at best be described as anomalous.

No further work is recommended for the Big Marsh claim group at this time.

III. DRILL RESULTS

Hole Number BM-1 — Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 118N 42+00E
Inclination:	-45°
Azimuth:	230°
Total Depth:	191 feet

Target: Horizontal loop EM anomaly and inferred fault

Country Rock: Metamorphosed sediments

Target Lithologies Intersected: Graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton):

1 @ 0.005 ounces gold/ton over 2 feet

Comments: Assay results from this hole were discouraging considering the presence of potentially good host rock (carbonate altered pyritic quartz) in-filling sheared areas.

Hole Number BM-2 Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 118N 42+00E
Inclination:	-55°
Azimuth:	230°
Total Depth:	193 feet

Target: Horizontal loop EM anomaly and inferred fault

Country Rock: Silicified shales, graphitic shales and cherty metamorphosed sediments

Target Lithologies Intersected: Graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton):

1 @ 0.02 and 1 @ 0.01 ounces gold/ton. Each sample was over a 2 foot interval of pyritic sugary quartz and carbonate

Comments: Correlation of lithological units between this hole and hole BM-1 is not possible. For this reason it was assumed that: 1) the bedding must be dipping to the southwest not the northeast as interpreted from geophysics; or 2) that a fault interpreted from the geophysics data had been intersected.

To test these assumptions, holes BM-3 and BM-4 were spotted to intersect the target from the opposite direction.

Hole Number BM-3 Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 116+75N 42+50E
Inclination:	55°
Azimuth:	230°
Total Depth:	215 feet

Target: Horizontal loop EM anomaly and an inferred fault

Country Rock: Chloritized clay altered metamorphosed sediments and graphitic pyritic shales.

Target Lithologies Intersected: Graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton): None

Comments: The EM conductor was once again intersected but correlation with holes BM-1, 2 is still not positive.

Hole Number BM-4 Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 116+75N 42+50E
Inclination:	45°
Azimuth:	50°
Total Depth:	197 feet

Target: Horizontal loop EM anomaly and inferred fault

Country Rock: Interbedded shales and quartz carbonate altered metasediments.

Target Lithologies Intersected: Graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton): None

Comments: Upon completion of this hole the only similar rock found in all four holes (BM-1, 2, 3 & 4) was a graphitic pyritic shale. It is, therefore, assumed that these holes must have penetrated the inferred fault zone interpreted from the geophysical data.

Hole Number BM-5 Carscallen Township

Location:

Claim #:	P649960
Grid Co-ordinates:	Line 119N 35+25E
Inclination:	45°
Azimuth:	230°
Total Depth:	167 feet

Target: Horizontal loop EM conductor and a magnetic high
Country Rock: Felsic to intermediate volcanics
Target Lithologies Intersected: Cherty banded iron formation
Significant Assays (>0.002 ounces gold/ton): None

Comments: The iron formation has not been altered significantly. Pyrite (<1%) appears as disseminated blebs up to 1/2 inch across or as euhedral cubes 1/8 inch across.

Hole Number BM-6 Carscallen Township

Location:

Claim #:	P649960
Grid Co-ordinates:	Line 119N 35+25E
Inclination:	55°
Azimuth:	230°
Total Depth:	177 feet

Target: Horizontal loop EM conductor and a magnetic high
Country Rock: Felsic to intermediate volcanics
Target Lithologies Intersected: Target not intersected
Significant Assays (>0.002 ounces gold/ton): None

Comments: The results of drilling on this set-up (holes BM-5 & BM-6) confirmed the possibility that the first four holes were drilled into an area of faulting and that the dip of the rocks in this area is to the west.

Hole Number BM-7 Carscallen Township

Location:

Claim #:	P649960
Grid Co-ordinates:	Line 111+75N 38+00E
Inclination:	45°
Azimuth:	50°
Total Depth:	196 feet

Target: Combined horizonal loop and VLF EM conductor

Country Rock: Porous and carbonate altered metamorphosed sediments separated by and interbedded with shale units.

Target Lithologies Intersected: Graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton):

1 @ 0.005 ounces gold/ton returned from a 2 foot section of quartz carbonate

Comments: Other than defining the EM conductor, this hole was not particularly encouraging.

Hole Number BM-8 Carscallen Township

Location:

Claim #:	P649960
Grid Co-ordinates:	Line 111+75N 38+00E
Inclination:	-55°
Azimuth:	50°
Total Depth:	196 feet

Target: Down dip extension of EM conductor intersected in hole BM-7

Country Rock: Vuggy, weakly carbonate altered metasediments interbedded with shales.

Target Lithologies Intersected: Graphitic pyritic shale

Significant Assays (>0.002 ounces gold/ton): None

Comments: The rock recovered from this hole did not show the extent of alteration usually found with gold mineralization in the Timmins area.

Hole Number BM-9 Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 10+75N 43+50E
Inclination:	-45°
Azimuth:	50°
Total Depth:	198 feet

Target: VLF and strong horizontal loop EM conductor

Country Rock: Medium to fine-grained metamorphosed sediments

Target Lithologies Intersected: Varying thicknesses of graphitic pyritic shales

Significant Assays (>0.002 ounces gold/ton): None

Comments: The first thirty feet of core recovered from this hole is highly fractured and clay altered. The remaining rock is relatively undisturbed.

Graphitic pyritic shales which would act as an EM conductor where intersected, however, nothing unusual was noted that would explain the strong EM response.

Hole Number BM-10 Carscallen Township

Location:

Claim #:	P649961
Grid Co-ordinates:	Line 108+75N 43+50E
Inclination:	-55°
Azimuth:	50°
Total Depth:	138 feet

Target: VLF and strong horizontal loop EM conductor

Country Rock: Relatively undisturbed shaley quartz carbonate and graphitic pyritic shale

Target Lithologies Intersected: Graphitic pyritic shale

Significant Assays (>0.002 ounces gold/ton): None

Comments: Though the rock recovered from this hole did not show significant alteration, of the seven samples taken for assay, six returned anomalous values (0.002 ounces gold/ton).

Again a conductive rock unit was intersected, however, no reason was found to explain the extra strong horizontal loop EM response.

This hole was abandoned at 138 feet after the drill rods became stuck in a sand layer. All equipment was eventually recovered from the hole.

IV. CONCLUSIONS

Electromagnetic conductors in the area are the result of graphitic shales. Pyrite, though present everywhere in varying amounts, is not often in grain to grain contact and therefore is not considered to be the cause of the EM anomalies.

Carbonate alteration typical of gold mineralization in the Timmins area was found in all but two of the ten holes drilled. Anomalous though sub-economic gold mineralization was encountered in all the holes that intersected this pyritic quartz carbonate rock.

Magnetic highs on the property are attributed to magnetite rich banded iron formation. The iron formation intersected was contained within felsic to intermediate volcanics and had very little pyrite associated with it.

V. RECOMMENDATIONS

Since all geophysical anomalies explored by the diamond drilling program returned only sub-economic gold assays from what appeared to be good host rock, no further work is proposed on this property at this time. However, because the anomalous gold values were returned and because previous exploration on adjacent properties has revealed sporadic but high grade occurrences of gold (Jowsey-Denton claims), there remains a potential for a gold discovery on the Big Marsh claims.

January 16, 1984

Rick Sproule
Geologist

VI. APPENDIX

Sample descriptions may be obtained by referring to the drill logs.

Individual sample descriptions made at the time of sample collection are not included with the logs because they are redundant.

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-1 LENGTH 191

LOCATION LN 118 + 00N 42+00E

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 230° DIP 45°

STARTED November 17/83 FINISHED November 19, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0'	45°	230°			
191'	51°	-			

HOLE NO. BM-1 SHEET NO. 1 of 2

REMARKS Target EM & fault intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ/TON
0	70	Overburden									
70	81.5	Quartz vein primarily white in colour, with irregularly spaced intervals up to 1.5 ft. thick of a banded rock composed of dark grey fine grained (silts) and light grey medium grained (sandstone) meta sediments. Pyrite is found averaging 2% and is concentrated in rusty bands and in some of the more porous quartz intervals. The rock is cut by numerous hairline fractures which trend 10°, 60° and 130° to the core axis.	1437	1%+	70	72	2'			nil	
			1438	"	72	74	2'			nil	
			1439	"	74	76	6"			nil	
			1440	"	76	78	2'			nil	nil
			1441	"	78	80	2'			nil	check
			1442	"	80	82	2'			nil	
81.5	97	Dark grey to brown highly altered rock possibly of volcanic origin. Now a pyritic gneiss. Foliation where undisturbed is at 15° T.C.A. (to core axis). Generally the rock is soft and recovery is poor. 92-93.5 feet a band of competent pyritic (20%) rock composed of remobilized quartz. Foliation (bedding) through this interval is 20° T.C.A. 94 3/4-97 feet a zone containing subrounded blebs of quartz averaging 1 inch in diameter. These blebs are found intruding sub-vertical banding. This interval contains 10% disseminated pyrite. The pyrite appears as euhedral cubes up to 1/8 inch across. The quartz blebs also contain disseminated pyrite but very fine-grained.	1443	<1%	82	84	2'			nil	
			1444	1%+	84	86	1.5'			0.002	
			1445	"	86	91	8"			nil	
			1446	2%	91	93	2'			0.002	
			1447	1%	93	95	2'			nil	
			1448	5%+	95	97	1.25'			nil	
97	191	Medium grey pyritic graphitic shales the rock is generally soft and badly broken which results in poor core recovery to 176 feet.	1449	1%	97	107	2'			0.002	
			1450	"	129	131	2'			0.005	0.002 check

DIAMOND DRILL RECORD

NAME OF PROPERTY: Big Marsh

HOLE NO. BM-1 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
97	191	97-137 feet the rock is generally porous. The porosity is probably caused by eroded carbonate, as there is a slight reaction to acid along these porous bands. Bedding, through this interval is variable 0-20° T.C.A. 137-154 feet. Graphitic shale containing 1% pyrite as large ¼ inch cubes irregularly spaced throughout. Bedding through this interval is 10° T.C.A. However, over the last three feet of the zone the bedding is contorted and has many small offsets. At 154 feet there is an abrupt change of the bedding angle to 0° T.C.A. This continues to 159 feet. 159-186 feet. The bedding angle changes again to 20° T.C.A. Pyrite is again found as disseminated cubes up to ¼ inch across, and also as fracture fillings. Within this zone is a competent but soft (easily scratched with a nail) graphite rich zone from 178-183.5. 186-191 feet. Rock is graphite rich, however, it still contains pyrite cubes now up to 1 inch across. The average size of the pyrite is still ¼ inch. The last 2 feet of the unit again show contorted bedding, which has a general trend of 0° T.C.A.	4451	< 1%	189	191	2'			0.002	
	191	End of Hole - Recovery 72 - 76' = 2' 76 - 78' = 1.5' 86 - 97' = 5.5' 97 -107' = 2' 107 -112' = 4.75' 112 -117' = 0.75' 117-137' = 100% 137-147' = 3.25' 147-159' = 100% 159-167' = 7.5' 167-172' = 3' 172-176' = 4.75' 176-179' = 2.75' 179-186 = 6.75' 186-191 = 100%									

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh
HOLE NO. BM-2 LENGTH 193
LOCATION LN118 + 00N 42+00E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 230° DIP 55°
STARTED November 19/83 FINISHED November 20, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55°	230			
190	63.5	-			

HOLE NO. BM-2 SHEET NO. 1 of 2
REMARKS Target: EM & Fault Intersected

LOGGED BY R. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
0	60	Overburden		Py								
60	154	Light grey to brown, silaceous pyritic shale with slatey bands randomly located throughout. The rock is badly corroded to 122 ft. - ¼-2" vuggs are concentrated along old bedding. On whole the unit contains 10% pyrite generally concentrated along bedding planes in the shaley intervals. In the silicified zones it is found finely disseminated. The pyrite found along the bedding is in the form of cubes averaging 1/8 inch across but ranging up to 3/4 inch.	619	<1%	60	62	2'			0.002		
			453	≤1%	67	69	2'			nil		
			454	"	69	71	2'			nil		
			455	"	71	73	2'			0.01		
			456	"	73	75	2'			0.02	0.02	check
			457	"	75	77	2'			0.005		
			458	"	77	80	3'			0.002		
			618	"	82	84	2'			0.002		
			620	"	84	86	2'			nil		
			621	"	86	88	2'			0.002		
			622	"	88	89	1'			nil		
		From 127 - 154 feet the rock is 90% quartz and 10% fine 1/16 inch slatey bands. This zone also contains pyrite along bedding as well as very fine grained filling of hairline fractures which cut the core in a random fashio	459	5%	89	91	2'			nil		
			460	1-5%	91	94	3'			0.002		
			461	1%	94	97	3'			0.005		
			623	1%	97	99	2'			0.002		
			624	"	99	101	2'			nil		
			625	"	101	103	2'			0.005		
			626	"	103	105	2'			0.005		
			627	5%	105	107	2'			0.02		
			628	1%	107	109	2'			0.002		
			629	"	109	111	2'			nil		
			630	"	111	113	2'			0.005		
			631	"	113	115	2'			0.01	0.005	check
			632	"	115	117	2'			nil		
			633	"	117	118	1'			0.002		
154	188	Dark grey banded graphitic pyritic shales. The pyrite is present in amounts of approximately 1% as irregularly spaced 3/4 inch cubes. Throughout this interval the banding, bedding is 0° T.C.A.	462	"	118	120	2'			0.002		
			463	"	120	122	2'			0.005	0.005	check
			464	"	122	124	2'			0.002		
			465	2%	124	126	2'			0.002		
			466	1%	126	128	2'			0.005		
			467	"	128	130	2'			0.002		
188	193	Light grey quartz rich metasediment. It appears as tho' the rock might once have been a siltstone but now is quartz flooded. Irregular shaped blebs of quartz are scattered throughout the unit. Pyrite mineralization throughout is spotty, usually as small disseminated euhedral grains concentrated along the contacts with what must have been shale bands.										

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-2 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
	193	End of Hole
		RECOVERY
		60 - 84 = 75%
		84 - 156 = 100%
		156 - 180 = 75%
		180 - 193 = 100%
		BEDDING ANGLES T.C.A.
		60-65 ft 0°
		65-85 ft 10°
		85-95 ft 0°
		95-105 ft 20°
		105-145 ft 0-10° weak
		145-154 ft 40°
		154-188 ft 0°
		188-193 ft weak @ 30°

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ TON
	Py							
4468	4-5%	130	132	2'			0.005	
4469	"	132	134	2'			0.005	
4470	"	134	136	2'			0.005	
4471	2%	136	138	2'			0.005	
4475	5%	138	140	2'			0.002	
4476	2-5%	140	142	2'			0.002	
4477	"	142	144	2'			0.002	
4478	"	144	146	2'			0.005	0.005
4479	1%	146	148	2'			0.005	check
4480	2-5%	148	150	2'			0.005	
4481	"	150	152	2'			0.005	
4482	2%	152	154	2'			0.002	
4483	< 1%	154	156	2'			0.005	
4484	< 1%	156	158	2'			0.005	0.005 check

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh
HOLE NO. BM-3 LENGTH 215.5 feet
LOCATION 116+75N 42+00E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 230° DIP 55°
STARTED November 19/83 FINISHED November 20, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55°	230			
190	63.5	-			

HOLE NO. BM-3 SHEET NO. 1 of 2
REMARKS EM Target Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS Gold OZ/TON
0	64.5	OVERBURDEN									
64.5	134	Light grey-green chloritized highly altered rock probably a metasediment. Quartz has been remobilized and appears as irregular blebs smeared along bedding, foliation. Pyrite 1% is found disseminated in short 1-6 inch sections from 71 to 81 feet. The light green chlorite disappears from the rock by 71 feet but appears again by 91 feet. A zone from 77-79 feet is rubbly and contains a large amount (10-15%) of graphite. 124 - 134 - Poor recovery. The rock that is recovered is rubbly, quartz rich and has <1% graphite on some of the broken surfaces.									
134	213	Medium grey to black graphitic pyritic shale. Except for the areas noted below. The pyrite appears as very fine disseminated grains in amounts <1%. However, from 154-159 Pyrite = 2%, and is concentrated along bedding. 184 - 187. Pyrite found as disseminated cubes less than 1/4 inch across. Below 195 the pyrite appears as large euhedral cubes up to 1" across and in amounts <1%. From 134 - 178 the rock is crumbly and recovery is poor. The rock is a carbonate altered sugary quartz with <1% pyrite. The highest graphite concentration (10-20%) is found from 185 - 200 feet.	4485 4487 4486	2% 1% 1%	157 164 176	160± 167 177.5	3± 3 2.5			0.002 nil 0.006	

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-3 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ TON
213	215.5	Light grey silicified metasediments which contain <1% fine grained disseminated pyrite. The rock is tight (i.e. no porosity) and massive but retains a remnant bedding which is variable running 0-20° to the core axis. This bedding feature is highlighted by whisps of graphite.	4488	1%	210	213.5	3.5			nil	
			4489	1%	213.5	215.5				nil	
	215.5	End of hole.									

RECOVERY

66 - 71 = 100%
71 - 75 ft = 3 ft
75 - 79 ft = 3 ft
79 - 111 ft = 100%
111 - 117 ft = 2 ft
117 - 120 ft = 2 ft
120 - 124 ft = 100%
124 - 135 ft = 5 ft
172 - 215 ft = 100%
134 - 147 ft = 6 ft
147 - 157 ft = 6 ft
157 - 167 ft = 5.5 ft
167 - 172 ft = 4.5 ft

BEDDING OR FOLIATION ANGLE TO CORE AXIS

70 - 97 ft 25-30°
97 - 101 ft 0°
101 - 119 ft 25°
119 - 125 ft 40°
125 - 150 ft 20-25°
150 - 165 ft ?
165 - 178 ft 40°
178 - 188 ft 25°
188 - 204 ft 15-20°
204 - 210 ft 0°
210 - 215 ft 0-20°

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh
HOLE NO. BM-4 LENGTH 197 feet
LOCATION 116+75N @ 40+50E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 50° DIP 45°
STARTED November 22/83 FINISHED November 23, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45	50			
197	52	-			

HOLE NO. BM-4 SHEET NO. 1 of 2
REMARKS EM Conductor Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold oz/ton	ASSAYS oz/ton
				Py							
0	71	OVERBURDEN	4490	1	71	74	3			nil	
71	90	Light grey to white carbonate altered sugary quartz with 1-6 inch interbedded shale bands. The core is blocky with minor amounts (<1%) of pyrite found disseminated through the quartz sections. Recovery is fair. Bedding varies from 15-20° to the core axis.	4491	1	74	78	4±			nil	
			4492	"	78	80	2			nil	
			4493	"	80	82	2			nil	
			4494	"	82	84	2			nil	
			4495	"	84	87	1.5			nil	
90	97	Medium grey-buff non-descript metasediment									
97	116	Medium to dark grey interbedded shales and metasediment. Very minor amounts of pyrite are found as subhedral cubes concentrated in but disseminated through the shale.	4496	1	97	99	2			0.002	
			4497	2	99	101	2			nil	
			4498	"	101	103	2			nil	
			4499	1	105	107	2			nil	
			4500	2	107	109	2			0.002	0.002 check
		100-101 Irregular shaped blebs of quartz are found displacing the bedding	613	1	109	111	2			nil	
		102-107 Entirely quartzose metasediment	614	1	118	120	2			0.002	
		115-116 Corroded cherty zone. The quartz has solution vuggs ranging from pin-point to 1 x ½ inch	615	1	120	121	1			nil	
			616	1	121	123	2			0.002	
			617	1	128	130	1			nil	
116	190.5	Dark grey graphitic pyritic shales with rare interbedded meta-sandstone bands ¼-12 inches in thickness.	634	2-5	167	169	2			nil	
		116-121 Pyrite through this zone averages 2% and is found as euhedral cubes (1/8 inch) concentrated along bedding planes.									
		166.5-169 An interval of carbonate altered, sugary, white, quartz carrying approximately 2% fine-grained disseminated pyrite.									
		169-192.5 A zone of increased graphite content. Pyrite through this interval is found as disseminated ¼-1 inch cubes in amounts of ≤1%.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-4 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON
116 (continued)	190.5	At 187 feet there is an abrupt change from shale to sandy metased. The contact between the two is sharp and at 90° to the core axis. 163+-166 An interval of intercalated shale and meta-sandstone (ribbon-like).									
190.5	197	Medium grey corroded fractured quartz (chert) containing approximately 2% fine grained disseminated pyrite. The last foot of this unit is less silicified, with quartz showing primarily as elongated blebs. This remobilized quartz appears with the elongated axis parallel to the foliation planes.	635	1	187	190	3			nil	
			636	1	190	192	2			nil	
			637	1	192	194	2			nil	
			638	1	194	195	1			nil	
	197	End of Hole.									

RECOVERY

71 - 78 ft = 100%	156 - 164 ft = 5 ft
78 - 87 ft = 7.5 ft	164 - 171 ft = 100%
87 - 97 ft = 7 ft	171 - 176 ft = 3.5 ft
97 - 138 ft = 100%	176 - 187 ft = 100%
138 - 147 ft = 3.5 ft	187 - 190 ft = 2.5 ft
147 - 156 ft = 3 ft	190 - 197 ft = 100%

BEDDING OR FOLIATION ANGLES TO CORE AXIS

71 - 86 ft	15-20°	160 ft	40°
86 - 97 ft	30-35°	165 ft	35°
97 - 105 ft	20°	170 ft	25°
105 - 119 ft	30°	175 ft	0-20°
119 - 132 ft	38-42°	180 ft	15°
132 - 143 ft	?	185 ft	0-10°
143 - 147 ft	20°	190 ft	?
147 - 157 ft	?	195 ft	40°

DIAMOND DRILL RECORD

NAME OF PROPERTY: Big Marsh
HOLE NO. BM-5 LENGTH 167 feet
LOCATION 119+00N 35+25E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 230° DIP 45°
STARTED November 24/83 FINISHED November 25, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45°	230°			
167	53	-			

HOLE NO. BM-5 SHEET NO. 1 of 2
REMARKS Mag and EM Target Intersected
LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	54	OVERBURDEN										
54	110.75	Tan, chloritized kaolinitized felsic to intermediate volcanic flow?. The origin of the rock is difficult to determine because of the degree of alteration. The core is however competent with few fractures and good recovery. Quartz filled hairline fractures cut the core at 40°, 20° and 70° to the core axis. These features appear on average at the rate of two per foot, with the most common being the 20°-40° set. 103 - 108 feet A coarse grained interval with strong foliation @ 20° to the core axis. Pyrite averages 1% throughout this interval, however, from 103 - 105.5, the average approaches 6%.										
110.75	167	Dark grey to black banded iron formation. The magnetite bands range from 1 inch to 1 foot true thickness and are separated by bands of chert or fine grained siliceous pyritic bands (pyrite 1%). Generally the magnetite bands are pyritic, with the pyrite appearing as euhedral cubes 1/8 inch across, or as amorphous concentrations up to 1/2 inch across. The banding cuts the core at 10-30° to the core axis. The 30° angle is found from 159 feet to the end of the hole.	639 640 641	1 2 2-5	126 128 153	128 130 155	2 2 2			nil nil nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-5 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ. TON	
		RECOVERY 54 - 167 ft 100% Angle of Foliation to the Core Axis 110 ft = 10° 115 - 127 = 20-25° 127 - 137 = 10-15° 137 - 142 = 10° 142 - 147 = 10° 147 - 152 = ? 152 - 165 = 30°										

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-6 LENGTH 177 feet

LOCATION 119+00N 35+25E

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH 230° DIP 55°

STARTED November 25/83 FINISHED November 25, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55	230			
177	58.5	—			

HOLE NO. BM-6 SHEET NO. 1 of 1

REMARKS Target not Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	47	OVERBURDEN									
47	177	Tan, chloritic, clay altered intermediate to felsic volcanic flow. The exact origin i.e. volcanic flow is questionable due to the degree of alteration. Throughout the length of the hole the rock is carbonate altered and is also cut by calcite filled vienlets. These veinlets range from 1/8 to 1 inch in thickness and cut the core at 25°, 90° and less frequently 10° to the core axis.	642		57	59	2			nil	
			643		77	79	2			nil	
			644		157	159	2			nil	
		The unit is generally massive except for a zone from 157-177 feet which contains dark green clay clots averaging 1/8 inch in diameter. These clots are assumed to be the result of weathering of a ferro.mag. mineral.									
		NOTE: This hole was drilled from the same site as BM-5. The target for both holes was a magnetic high feature and associated VLF EM conductor. The cause of these geophysical responses was located in hole BM-5. However, no magnetic material or conductive material was located in this hole.									
		The only conclusion that can be drawn from this is that the general dip of the rock is to the southwest.									
	177	END OF HOLE.									
		RECOVERY 100%									
		Foliation, bedding angle to the core axis throughout hole 20°									

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh
HOLE NO. BM-7 LENGTH 196
LOCATION 111+75N @ 38E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 50° DIP 45°
STARTED November 28/83 FINISHED November 29, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45°	50			
196	48.5°	-			

HOLE NO. BM-7 SHEET NO. 1 of 2
REMARKS EM Target Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ/TON	
0	46	OVERBURDEN										
46	133	Medium grey-green silicified medium grained metasediment. Rusty hematite stained zones occur at 86-90, 108-113, 117-118.25 & 122-134 feet. These hematite stained zones are in general even textured and commonly have crumbly zones 8-20 inches in length. The incontinents of the core in these areas is due to a porosity increase. The interval from 86-90 feet is corroded causing a vuggy porosity to be developed. Liesgang banding within the hematite staining is noted from 108-113 feet. The rest of the rock, the grey-green portion, has a large amount of chlorite, minor epidote and blebs of elongated quartz averaging 1 x 3/8 inches.	645	1-2	46	48	2			nil		
			646	1	76	79	3			nil		
			647	1	86	89	3			nil		
			648	1	106	108	2			0.002		
133	168	Black graphitic pyritic shale. This shale contains varying amounts of graphite and pyrite. The pyrite quantity ranges from 1-5% as disseminated euhedral cubes. 135-149 feet is a zone of intercalated shales and fine grained siliceous metasediments with intervals up to 6 inches long of hematite staining. 164-168 feet is a brecciated zone. This zone is still primarily clay, however, the regular foliation is missing and the rock is cut by calcite veinlets. Calcite filled vuggs are also common through this area.	649	1	134	136	2			0.005	0.002	check
			650	1	157	159	2			nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-7 SHEET NO. 2 of 2

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ/TON
168	196	A light grey fine to medium grained siliceous metasediment. Remnant bedding is at 25° to the core axis and is enhanced by intercalated thin shale bands. These shale bands are common to 179 feet. The rock is carbonate altered containing 1%+ $CaCO_3$ and spotty pyrite mineralization. The pyrite appears as subhedral cubes in amounts of <1%. The core is randomly cut by quartz veins up to 2 inches thick but average ¼ inch. These veins are, however, rare, irregularly spaced and cut the core at 45°.	651	2	177	179	2			nil	
	196	END OF HOLE.									

RECOVERY

46 - 56 ft = 6.5 ft	76 - 86 ft = 9 ft
56 - 66 ft = 3.5 ft	86 - 168 ft = 100%
66 - 76 ft = 8 ft	168 - 171 ft = 2.5 ft
	171 - 196 ft = 100%

BEDDING (BANDING) ANGLES TO THE CORE AXIS

50 ft 45°	125 ft 30°
55 ft 47°	130 ft 40°
60 ft 25°	135 ft 46°
65 ft 50°	140 ft 35°
70 ft 35°	145 ft 40°
75 ft 48°	150 ft 42°
80 ft massive	155 ft 42°
85-105 ft = 30-32°	160 ft 35°
110 ft 45°	165 ft 25?
115 ft 45°	170-195 ft = 20-25°
120 ft 50°	

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh
HOLE NO. BM-8 LENGTH 196 feet
LOCATION 111+75N @ 38E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 50° DIP 55°
STARTED November 29/83 FINISHED November 30, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55	50			
191	60°	-			

HOLE NO. BM-8 SHEET NO. 1 of 3
REMARKS EM Target Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold oz/ton	ASSAYS oz/ton
0	37	OVERBURDEN									
37	125	Light grey medium to coarse grained metased (sandstone). The quartz has been remobilized and is found as elongated blebs parallel to the bedding. These quartz blebs range in size from ¼ x 1/32 to 2 x ½ inch.	652	1	62	64	2			0.002	
			653	1	123	125	2			0.002	
		The rock is badly broken to 64 feet, however, recovery is fair (73%). From 60-63 feet the rock is clay rich with contorted bedding. A 1-foot interval within this zone has shale and quartz rich bands of equal thickness (3/4 inch).									
		71-108 feet. A zone of rusty hematite stained carbonate altered, generally porous rock.									
		In two zones at 82-84 and 92-98 feet, a vuggy porosity is developed within the rock. At 85-86 and 91-93 feet, the rock is badly broken, being nothing more than rubble within the box, however, recovery is good over these zones.									
		94.5-96.5 the rock is badly corroded, that is most of the carbonate has been solutioned out of the rock leaving large vugs. This zone is also hematite stained.									
		108-125 feet the rock is stained by a rusty coloured hematite, however, there is no reaction with acid, as found in other hematite stained zones.									

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-8 SHEET NO. 2 of 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
37	125	Except for a 2-inch band of euhedral pyrite cubes found at 124.5 feet, pyrite throughout this unit is found in concentrations of less than 1% as fine-grained disseminated grains. (continued)										
125	155	Light grey fine-grained massive quartzite. Dark bands within the rock indicate remnant bedding at 38 to 48° to the core axis. The change from the oxidized rock above to this unit is abrupt. Pyrite is very fine-grained and very rare <1%. 153-155 feet is a clayey zone with approximately 1% disseminated pyrite.										
159	186	Medium grey medium grained metased. The rock is slightly carbonate altered. The remnant bedding is contorted throughout the unit. A 181 feet there is micro-faulting causing displacement of up to 1 inch in the bedding. To 181 feet thin wisps of organic rich material area found. Then from 181-186 feet this organic material becomes more concentrated making up as much as 40-50% of the rock. Through this interval the organic material forms as oblong ½ by 1/16-¼ inch concentrations with the layers running parallel to the bedding. Pyrite throughout the unit averages 1% and appears as disseminated blebs and sub-rounded grains 1/32-1/4 inch across.	654	1	172	174	2			nil		

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-8 SHEET NO. 3 of 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ TON	
186	192.5	Black pyritic graphitic shales, cut by calcite veinlets 1/16 inch thick. Also cutting the shale are irregularly spaced dark grey bands of carbonate altered metased. These bands average 1/4 inch in thickness. Pyrite in amounts up to 2% is found as disseminated subhedral grains and blebs.										
192.5	196	Medium grey fine-grained carbonate altered metasediment with thin bands of organic material found every 1/4 to 1/2 inch. Less than 1% disseminated pyrite is found throughout the unit.	655	2-5	189	191	2			nil		
	196	END OF HOLE.										

RECOVERY

39 - 42 ft = 2 ft	78 - 86 ft = 100%
42 - 48 ft = 1 ft	86 - 93 ft = 5.5 ft
48 - 52 ft = 2.5 ft	93 - 106 ft = 100%
51 - 63 ft = 100%	106 - 116 ft = 5 ft
63 - 64 ft = .5 ft	116 - 124 ft = 7.5 ft
64 - 71 ft = 100%	124 - 196 ft = 100%
71 - 74 ft = 2.5 ft	
74 - 78 ft = 2 ft	

BEDDING ANGLES

40 - 59 ft	18-25°	105 - 125 ft	25°
60 ft	40°	128 - 165 ft	48-35°
70 ft	35°	165 - 175 ft	contorted
80 ft	28°	175 - 185 ft	30°
90 ft	25°	185 - 196 ft	20°
100 ft	35°		

DIAMOND DRILL RECORD

NAME OF PROPERTY: Big Marsh
HOLE NO. BM-9 LENGTH 198 feet
LOCATION Carscallen Twp. 108+75N @ 43+50E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 50° DIP 45°
STARTED November 30/83 FINISHED December 1/83

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	45°	50°			
198	53.5	-			

HOLE NO. BM-9 SHEET NO. 1 of 3
REMARKS Target Strong Max-Min Conductor Intersected

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	62	OVERBURDEN									
62	95±	Medium grey medium to fine-grained metasediment. The rock through the interval is badly broken. 69 - 83.5 Graphitic pyritic shale bands ranging from 1-12 inches in thickness occur irregularly spaced throughout this interval. The pyrite 1-2% appears as disseminated euhedral cubes 1/16-3/8 inch across. 83.5 - 95 Grey-green medium grained clay altered metasediment. The rock is easily scratched with a steel and chlorite flakes are seen throughout.									
95	106	Black graphitic pyritic shale. Approximately 2% euhedral pyrite is found disseminated throughout. Thin (1/2 inch) light coloured bands of siliceous material as well as cherty blebs are found irregularly spaced within the unit.	656	2	102	104	2				
106	132	Grey carbonate altered massive metasediment with randomly spaced intervals of rusty hematite staining. The unit averages 1% disseminated pyrite. The hematite stained bands occur @ 106-107, 108-108.5, 115-118.5, 125.9-130 and 131-131.5 feet.	657	1	130	132	2			nil	

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-9 SHEET NO. 2 of 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ/TON
132	179	Black graphitic pyritic shale. The core is badly broken but recovery is good throughout the unit. Thin bands up to 1 inch thick of sugary white quartz cut the core at irregularly spaced intervals. Pyrite ranges from 1-5% as (1/16 inch) disseminated cubes, generally concentrated in the shales. The last five feet of the unit have the bedding contorted. A four foot interval (171-175 feet) is made up of a medium grey chloritic metasediment. This zone contains 1% disseminated pyrite.	658	1	132	134	2			nil	
			659	1	134	136	2			0.002	
179	198	Light grey to medium grey metasediment. An interval from 186-192 feet contains a few shaley bands less than 1 inch thick separating white sugary quartz intervals. This zone contains 2-5% pyrite. 192-198 Medium grey metasediment zone with dark blebs (1 inch x ¼ inch) of remobilized quartz.	660	1	186	191	3			nil	
			661	1	191	193	2			nil	
	198	End of hole. RECOVERY 62 - 66 ft = 1.5 ft 66 - 76 ft = 5 ft 76 - 198 ft = 100%									

DIAMOND DRILL RECORD

NAME OF PROPERTY Big Marsh

HOLE NO. BM-9 SHEET NO. 3 of 3

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		Bedding Angles to the Core Axis 62 - 84 ft = 30° 84 - 95 ft = massive 95 - 100 ft = 35° 100 - 135 ft = weak to massive 135 - 145 ft = 30° 145 - 162 ft = variable 162 - 171 ft = 45° 171 - 175 ft = 28° 175 - 180 ft = contorted 180 - 198 ft = 40°										

DIAMOND DRILL RECORD

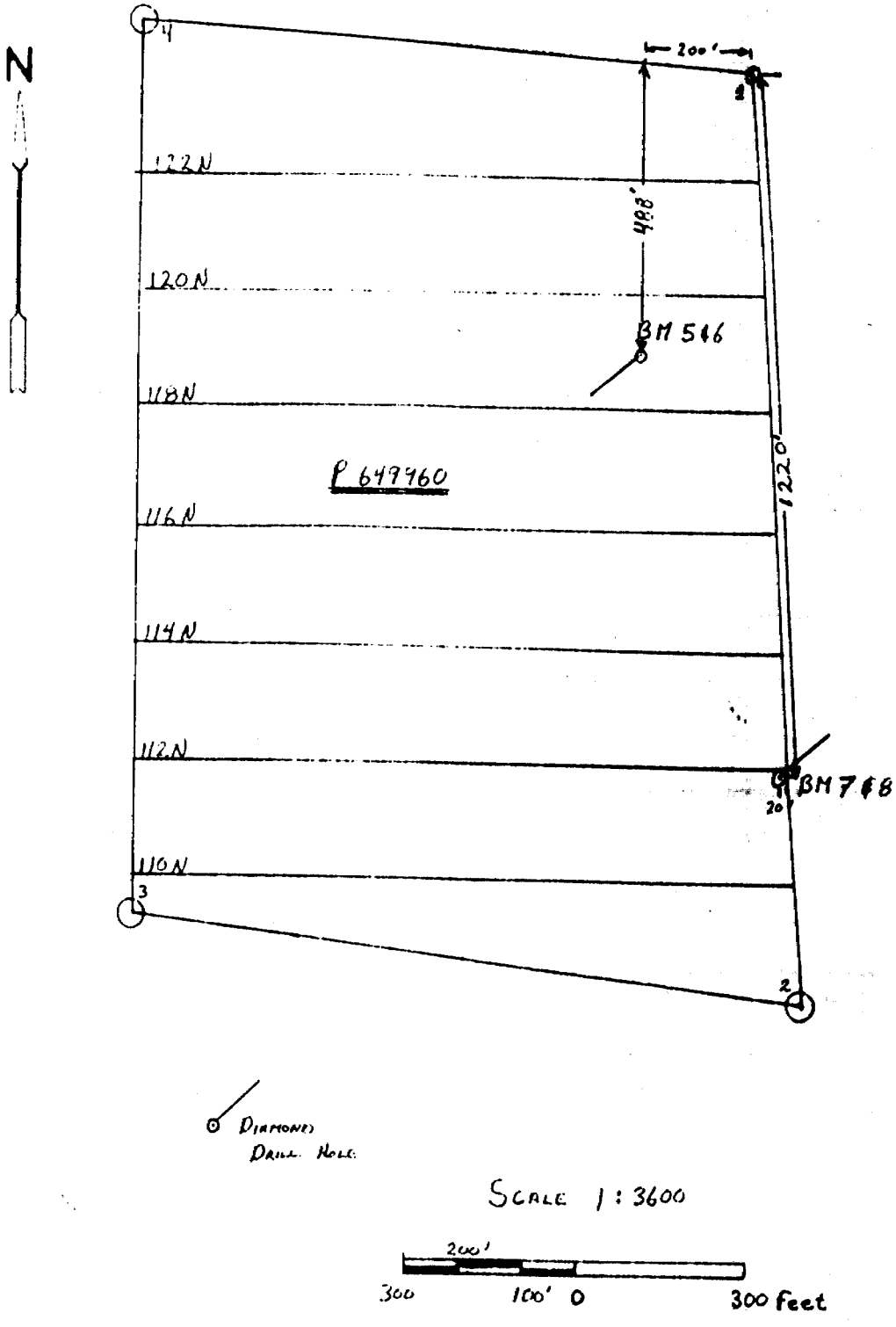
NAME OF PROPERTY Big Marsh
HOLE NO. BM-10 LENGTH 138 feet
LOCATION Carscallen Twp 108+75N @ 43+50E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 50 DIP 55°
STARTED December 1/83 FINISHED December 3, 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	55	50			
130	60	-			

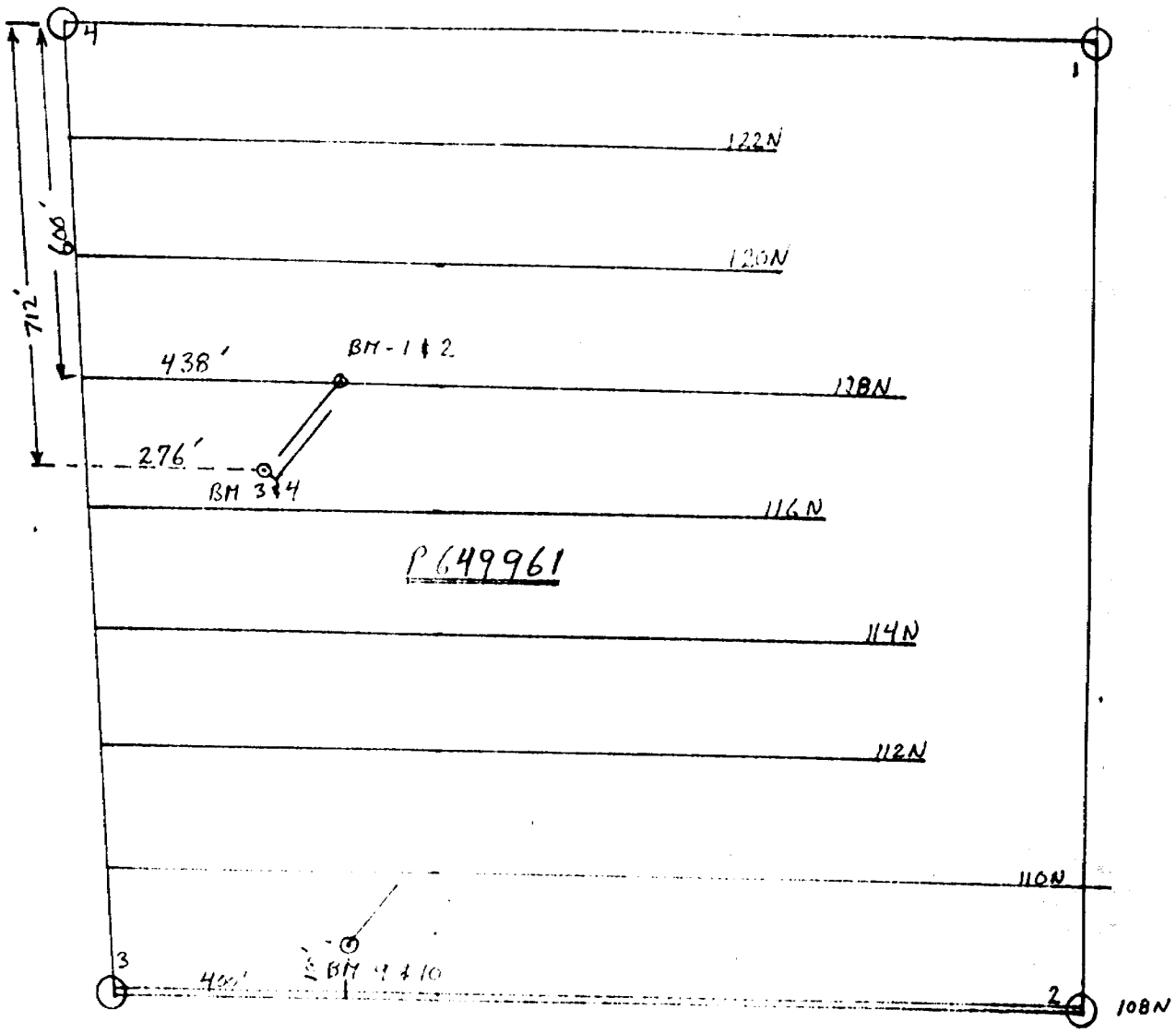
HOLE NO. BM-10 SHEET NO. 1 of 1
REMARKS Target Strong Max-Min Conductor Intersected?

LOGGED BY R.M. Sproule

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Gold OZ/TON	ASSAYS OZ/TON	
0	53	OVERBURDEN										
53	116	Banded light and dark grey metasediment. The angle of the banding is 0-20° to the core axis. The light bands are composed of sugary quartz while the dark bands are shaley and in some instances contain graphite. The sugary quartz zones are in places boudinaged. From 110-116 feet the rock is heavily fractured though recovery is good.	662	1	100	102	2			nil		
			663	"	102	104	2			0.002	0.005	check
			664	2-5	104	106	2			0.002		
			665	1	106	108	2			0.002		
			666	2	108	110	2			0.002		
116	138	Dark grey graphitic pyritic (1-3%) shale separated by 1-6 inch bands of sugary white quartz. The angle of the bedding is 35° from 116 feet to the end of the hole The core continues to be heavily fractured to a depth of 122 feet. 127 - 131 - Well developed vuggy porosity. The vugs average 3/4 inch across. 116 - 138 - Pyrite is found concentrated along bedding with only a small (≪1%) amount disseminated.	667	1	128	130	2			0.002		
	138	END OF HOLE. However, the hole had to be abandoned at this depth because the rods sanded in. After retrieving the rods, an unsuccessful attempt was made at getting through the sand layer. Recovery 100%										



K.R. Sproule Dec 16/84



N

Diamond Drill Hole

Scale 1:3600

200 300 100 0 300 ft.

Ray Lavoie Jan 16/84

Ministry of Natural Resources
Ontario

Report of Work

#30/84

Instructions – Supply required data on a separate form for each type of work to be recorded (see table below).

The Minin

Name and Postal Address of Recorded Holder

CLEYO RESOURCES INC, CLEO CLEMENT (C

1165 McLEAN DR. TIMMINS ONT

42A05NE0331 27 CARSCALLEN

900

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed ~~1068~~ 1701

for Performance of the following work. (Check one only)

- ☐ Manual Work
- ☐ Shaft Sinking Drifting or other Lateral Work.
- ☐ Compressed Air, other Power driven or mechanical equip.
- ☐ Power Stripping
- ☑ Diamond or other Core drilling
- ☐ Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
P	649958	~~341~~ 283						
[redacted]	649959	~~341~~ 283	[redacted]			[redacted]		
	649960	~~341~~ 283						
	649961	~~341~~ 283						
	649962	~~341~~ 283						
	649963	~~341~~ 283						

All the work was performed on Mining Claim(s):

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

SEE INCLUDED REPORTS.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
MAR 15 1984
RECEIVED

PORCUPINE MINING DIVISION
RECEIVED
JAN 18 1984
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

RECORDED
JAN 18 1984
Receipt No. [illegible]

Date of Report	Recorded Holder or Agent (Signature)
JAN 16/84	R.M. Sproule

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

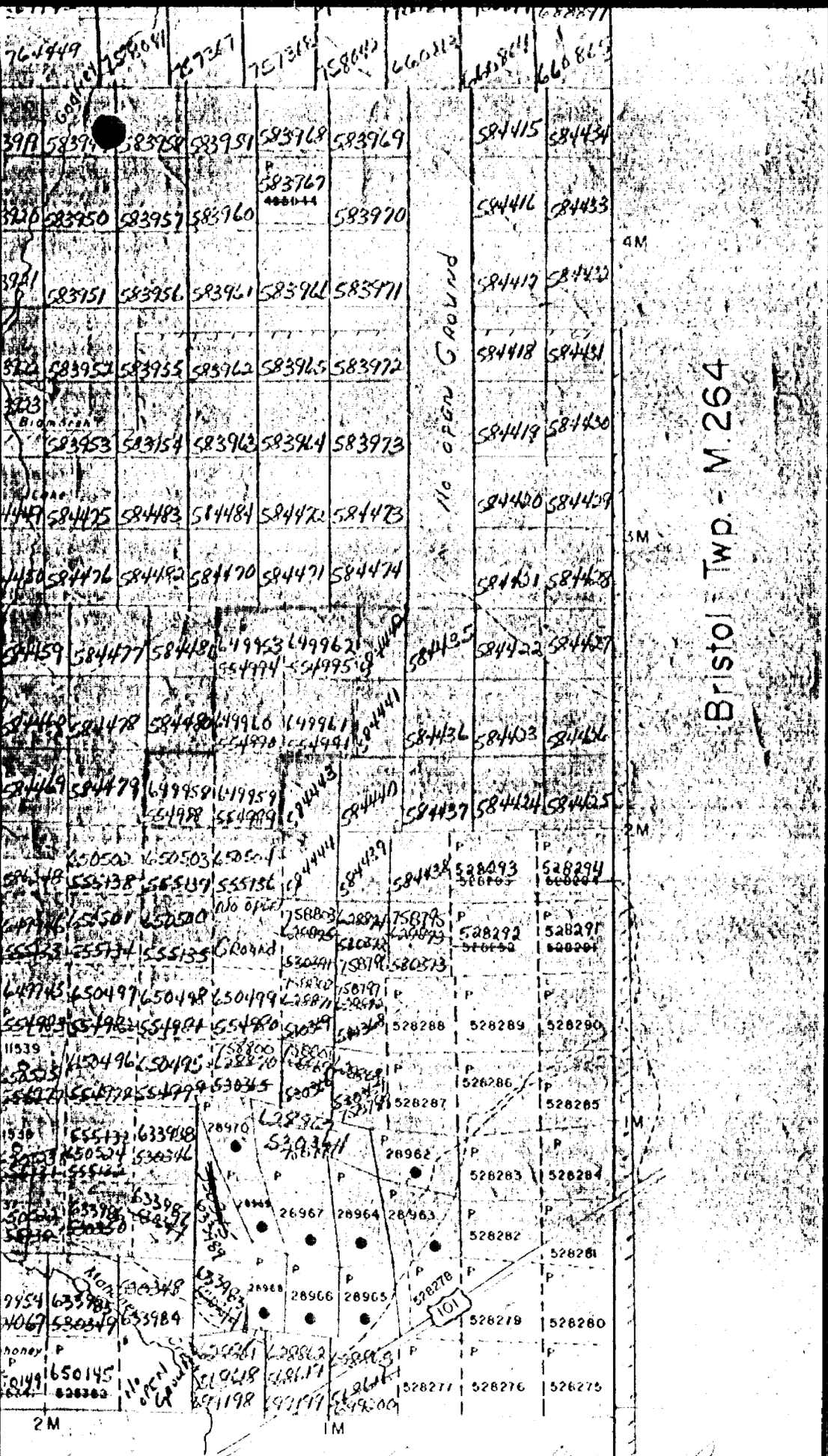
RICHARD M. SPROULE % C. VON HESSERT & ASSOCIATES LTD. 49 WELLINGTON ST. E.
TORONTO ONT M5E. 1C9

Date Certified	Certified by (Signature)
Jan 16/84	R.M. Sproule

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work; Shaft Sinking, Drifting or Other Lateral Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyer.	Nil	Nil

0168 (81/3)



DISPOSITION OF CR

PATENT, SURFACE AND MINI
" , SURFACE RIGHTS
" , MINING RIGHTS O
LEASE, SURFACE AND MINI
" , SURFACE RIGHTS
" , MINING RIGHTS
LICENCE OF OCCUPATION

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

NOTES

400' Surface Rights Rese
the shores of all lakes an

This township lies within th
the CITY of TIMMINS.

AREAS WITHDRAWN

S.R. - SURFACE RIGHTS

Section	Order No	File	D
(R1) Sec 42 (R.S.O. '60)		171506	
(R2)		171506	

(R3) Area of Site Prepara

(R4) Area of Site
Apr. 15

(R5) Mining Rights Withdrawn at such time as M.R. Revert to crown

Revoked as to [illegible]

PLAN NO. M.

ONTARIO
MINISTRY OF NATURA
SURVEYS AND MAPPIN

0 B.L.
5 E
10 E
15 E
20 E
25 E
30 E
T. L. 34 E
40 E
45 E
50 E
55 E

132 N
130 N
128 N
126 N
124 N
122 N
120 N
118 N
116 N
114 N
112 N
110 N
108 N
106 N
104 N
102 N
100 N
98 N
96 N
94 N

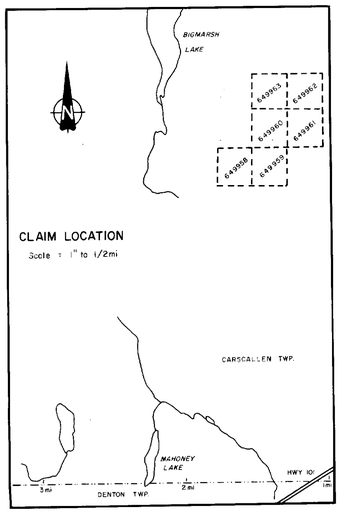
649963
649962
649960
649961
649958
649959

BM5&6
BM1
BM2
BM3&4
BM7&8
BM9&10

Mafic Intrusion ?

LEGEND

- H.L.E.M. Conductor Axis with Indicated Dip
- V.L.F. Anomaly Axis
- Magnetic Iron Formation
- Diabase Dyke
- Interpreted Fault
- Diamond drill hole



CLAIM LOCATION
Scale = 1" to 1/2mi

M.N.

N

CARSCALLEN TP DDR #27

CLEYO RESOURCES INC.

BIG MARSH PROPERTY
Carscallen Twp., District of Cochrane, Ont.

GEOPHYSICAL COMPILATION
(After Boniwell)

0 200 400 600'

SCALE 1: 2400

Prepared by: R.Sproule, C. von Hessert & Assoc.	September 1983
Drawn by: R.T. Marcroft & Assoc.	Dwg. No.: 13

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