

OM84-5-C-96

# 63.4536



42A08NE0404 63.4536 DELORO

010

PUISSANCE CORPORATION

1984

OMEP  
REPORTS

Tom Gledhill PE

**PUISSANCE CORPORATION**  
**SUMMARY OF DIAMOND DRILLING PROGRAM, AND PLUGGER SAMPLING**  
**DEORO TOWNSHIP, TIMMINS, ONTARIO**

**TOM GLEDHILL P.Eng.**  
**June 24, 1985**



42A06NE0404 63.4536 DELORO

010C

INDEX

	<u>Page No.</u>
Summary.....	1
Introduction.....	2
General Geology.....	2
Economic Mineralization.....	2
1984 Plugger Sampling.....	2
1984 Diamond Drill Program.....	3
Conclusion and Recommendations.....	3
Maps - Diamond Drilling 1984	
1"=50 foot sections of D.D.H., P-1 to P-12	
1"=50 foot plan of D.D.H.'s and detail geology	
West ½ - East ½	
Maps - Plugger Dust Testing - 1984	
Area 1 1" 10 feet	
Area 2 1" 10 feet	
Area 3 1" - 10 feet	

PUISSANCE CORPORATION

SUMMARY OF DIAMOND DRILLING PROGRAM , AND PLUGGER SAMPLING

DELORO TOWNSHIP, TIMMINS, ONTARIO

SUMMARY

In an effort to evaluate a carbonate zone that extends 4000 feet across the Deloro property of Puissance the zone was stripped of overburden. Two thousand feet of strike length from the western end was washed down to bedrock and over this area plugger holes were drilled at 5 foot centres on lines 10 feet apart. The dust from this hole was then sent to an assay laboratory for fire assay. Following this program 11 diamond drill holes were drilled in the carbonate zone. One hole, P-12, was drilled into a zone 1600 feet south that was described as porphyritic.

The plugger samples gave erratic high gold values and at the same time an unusual quantity of coarse native gold was observed in quartz veins and fractures within the carbonate. Diamond drilling produced gold assays within this quartz fractured carbonate zone in holes P-1 to P-6, and in hole P-8. At present there is no explanation for the absence of gold in P-7. Holes P-9, P-10 and P-11 do not have gold assays and further work will be required here to confirm that the drill holes intersected the gold bearing quartz-carbonate zone. The values in the drilling are not high usually 0.02 ounces of gold per ton or less, but low values such as this are common when drilling of quartz-carbonate gold zones similar to this on of Puissance property. This zone is characteristic of the carbonate ore at Kerr Addison Virginiatown mine.

Three of the drill holes P-1, P-2, P-4 and P-5 intersected a sulphide phase iron formation. Here a gold intersection ran 0.317 oz/ton over 7.5 feet. This structure is small, and will require some detail drilling to develop a clearer picture.

Considerable work was carried out in evaluating the assay techniques for this coarse gold. This will be the subject of a further report in 1985.

The wide distribution of coarse gold through the main carbonate (quartz-carbonate) zone, both in drilling and observation of out crop, leads to the conclusion that an extensive program of bulk sampling on surface should be undertaken in 1985.

PUISSANCE CORPORATION  
SUMMARY OF DIAMOND DRILLING PROGRAM, AND PLUGGER SAMPLING

DELORO TOWNSHIP, TIMMINS, ONTARIO

INTRODUCTION

In order to map in detail and sample the carbonate zone that traverses the center of the Puissance Deloro property, an exploration program was undertaken during the summer and fall of 1984. Previously the group had been surveyed with a magnetometer and electromagnetic equipment (V.L.F.). This was followed by geologic mapping. This report describes two programs from 1984, the plugger sampling of the carbonate zone and subsequent diamond drilling.

GENERAL GEOLOGY

The major feature of the area, the Procupine - Destor Fault which lies 4000 feet north of the property and strikes northeast.

The rocks are interbedded volcanics tuffs and fragmental rocks. Minor amounts of sulphide phase iron formation were mapped. The formations are intruded by N-S diabase dykes averaging about 30 feet in width. The regional strike is north 70 degrees East with local variations. Seven carbonate horizons were mapped strike conformably across the claim group and the formations are generally north dipping.

ECONOMIC MINERALIZATION

There are many occurrences of coarse gold across the main carbonate zone. The carbonate unit is fractured or brecciated and the quartz veins that fill these fractures carry coarse particals of native gold.

1984 PLUGGER SAMPLING

*Dust samples were collected by drilling through a 5' fallow pit*

The entire main carbonate zone was stripped and cleared. The western portion of the zone was washed down to bedrock. In this latter area plugger holes were drilled at five foot centres on lines 10 feet apart. The depths of these holes were 4 feet or the water table.

These zones were mapped in detail and are shown on the drill plane (1" = 50 feet). The plugger sampling is shown on the plans A, B and C (scale 1" = 10 feet).

The gold assays of the plugger dust tend to be erratic. Evidence indicates that the sample size is too small and this results in erratic gold values. Similar coarse gold occurs at the Virgintown of Kerr Addison. Successful sampling of such gold deposits occurs when the sample is several tons.

### 1984 DIAMOND DRILL PROGRAM

Eleven diamond drill holes, P-1 to P-11 inclusive, were drilled in the main carbonate zones. Hole P-12 was drilled to test a porphyritic zone. The holes P-1 to P-11 total 4373 feet while P-12 was 797 feet.

The results of the holes P-1 to P-8 all intersect the main carbonate zone. P-7 is the only hole to intersect the main carbonate zone and have no gold values. These are all located in the west end of the zone.

The holes P-9, P-10 and P-11 may have intersected the main carbonate zone. They are located 1300 feet east of the other holes. There were no gold values in the extensive assays. Further work is required to determine if these holes did intersect the main carbonate zone and if the proper sections of the holes assayed. The surface outcrops of the main carbonate zone do contain coarse gold similar the western end of the zone.

The holes P-1, P-2, P-3, P-4 and P-5 intersected a sulphide phase of iron formation which usually give repeatable assay values. This is a relatively small structure and it may be possible to develop some economic tonnage with further drilling.

### CONCLUSIONS AND RECOMMENDATIONS

Stripping the zone is useful in identifying the gold bearing unit. Plugger sampling gives values too erratic to employ in determining ore grade. Some of the coarse gold may not have been lifted out of the holes in the sampling routine.

Diamond drilling, like the stripping is useful to determine the size and attitude of the gold bearing structure but again the sample is relatively small.

Bulk sampling has been the only successful approach to testing and grading such an occurrence. A useful program would start with 20-50 ton character samples, perhaps 10 or more. This should then be followed with larger continuous run bulks of 100 to 1000 tons each.

Respectfully submitted,



June 24, 1985

*Tom Gledhill*  
Tom Gledhill, B.A. P.Eng.

SECTION 14+20E

North

South

Surface

27

45°

Corb.

PB

45°

207'

451'

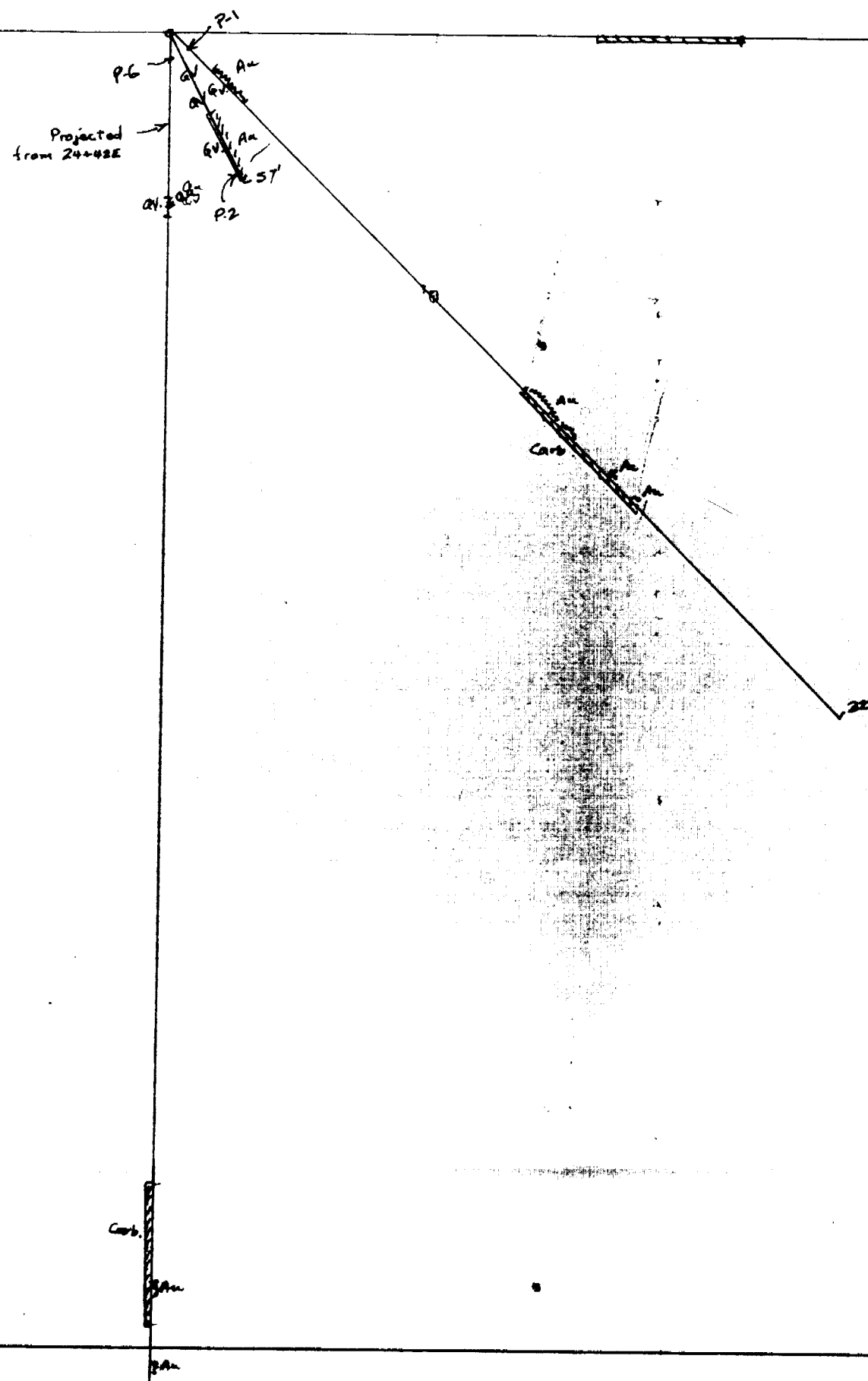
Corb.

← gold assay

PUISSANCE CORPORATION		
TYPE OF SURVEY: DRILL SECTION		
AREA DELORO TWP.		
LOCATION: TIMMINS, ONTARIO		
DRAWN BY:	SCALE 1" = 50ft	DATE 24/6/85
TRACED BY:	MAP No _____	REVISED _____
	NTS REF _____	
TO ACCOMPANY	Report	
BY TRG	DATE 24/6/85	

NORTH  
SURFACE

SECTION 24+70E  
South



PLISSANCE CORPORATION  
TYPE OF SURVEY: DRILL SECTION  
AREA: DELORO TWP.  
LOCATION: TIMMINS, ONTARIO

DRAWN BY:	SCALE 1" = 50ft	DATE: 24/6/85
TRACED BY:	MAP No _____ NTS REF _____	REVISED _____
TO ACCOMPANY: Report		
BY: TRG	DATE 24/6/85	



NORTH

Surface

P-4/460  
P-5/450

Cont.

15' 15'

24

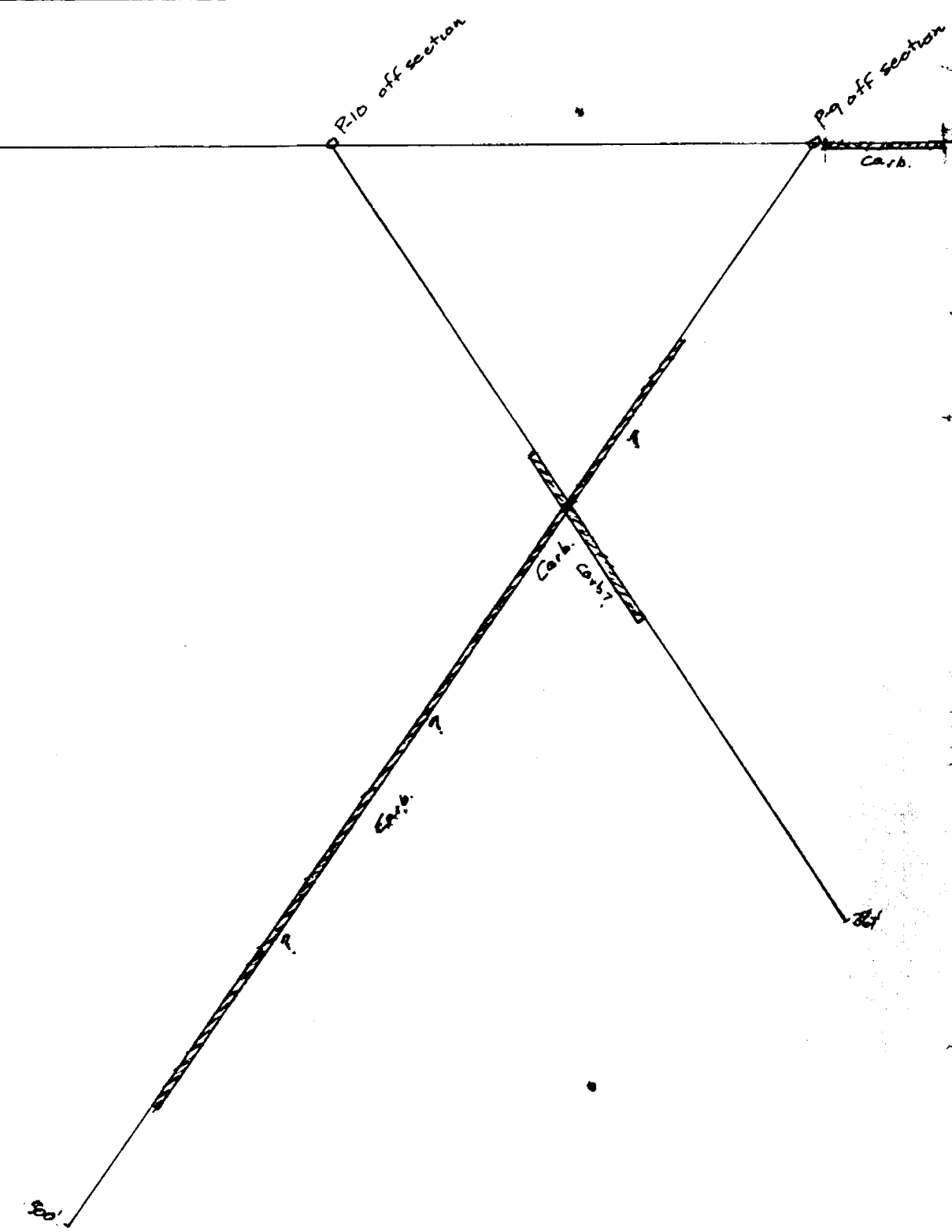
387'

25

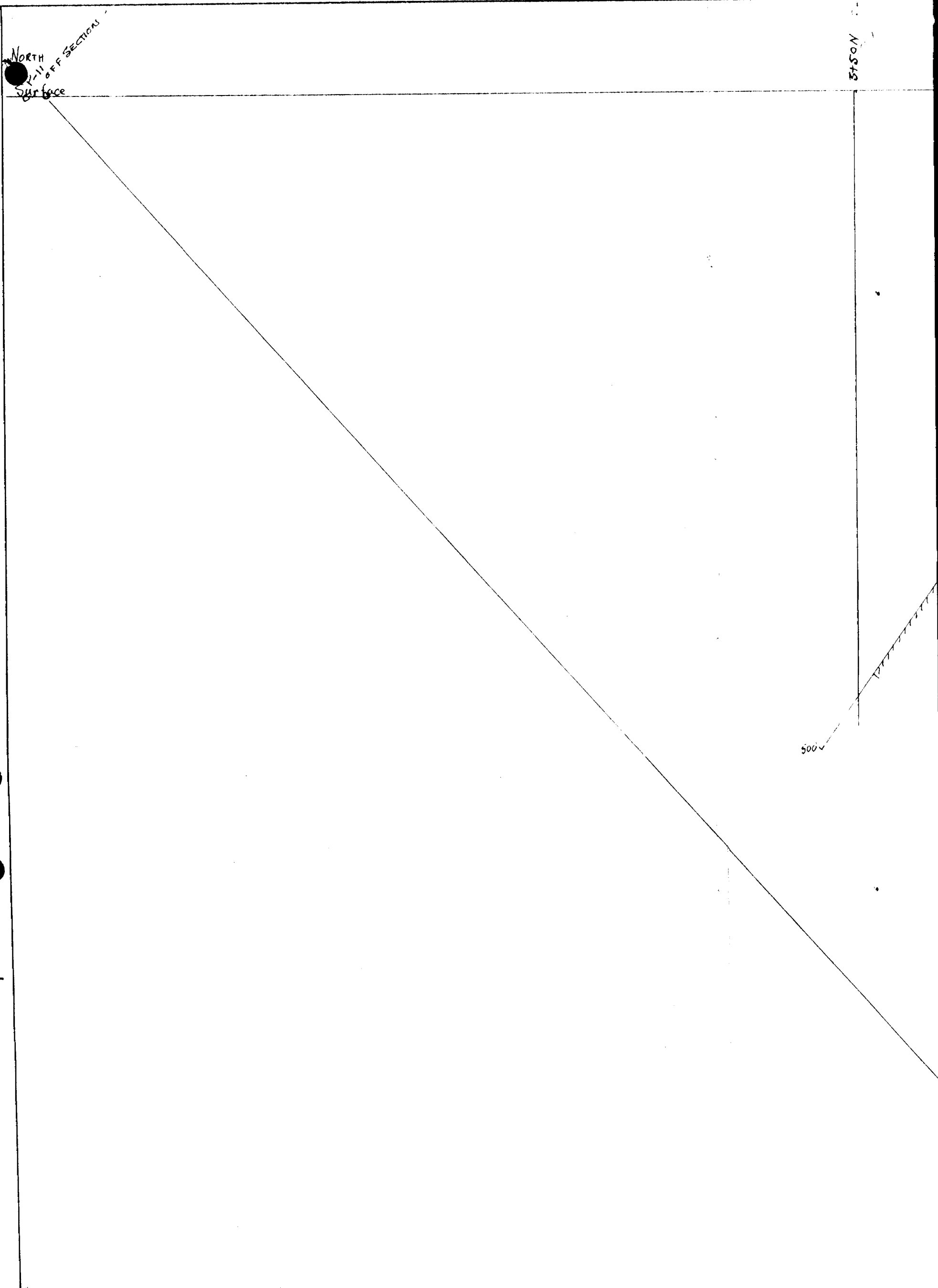
387'

PUSSANCE CORPORATION TYPE OF SURVEY: DRILL SECTION AREA: DELORO TWP. LOCATION: TIMMINS, ONTARIO		
DRAWN BY: _____ TRACED BY: _____	SCALE 1" = 50ft MAP No _____ NTS REF _____	DATE 24/6/85 REVISED _____
TO ACCOMPANY: Report BY: TRG DATE: 24/6/85		

NORTH  
SURFACE



PLISSANCE CORPORATION TYPE OF SURVEY DRILL SECTION AREA DELORO TWP. LOCATION TIMMINS, ONTARIO		
DRAWN BY: _____ TRACED BY: _____	SCALE 1" = 50ft MAP No _____ NTS REF _____	DATE 24/6/85 REVISED _____
TO ACCOMPANY Report BY TRG DATE 24/6/85		



PUSSANCE CORPORATION TYPE OF SURVEY DRILL SECTION AREA DELORO TWP. LOCATION TIMMINS, ONTARIO		
DRAWN BY	SCALE 1" = 50ft	DATE 24/6/05
TRACED BY	MAP No NTS REF	REVISED
TO ACCOMPANY Report		DATE 24/6/05
BY TRG		

SECTION 39+00E  
SOUTH

STATION

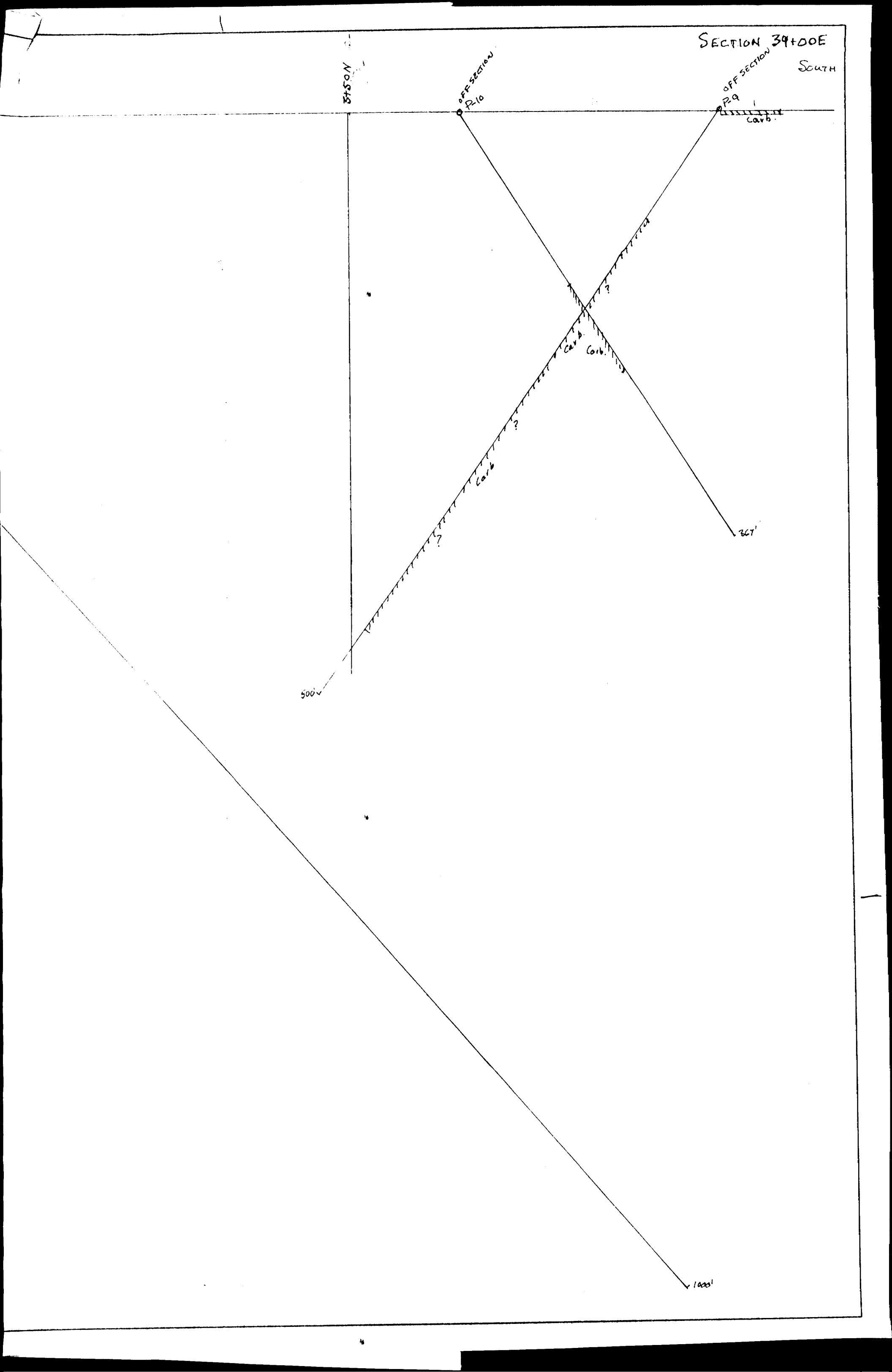
OFF SECTION  
P. 10

OFF SECTION  
P. 29  
Carb.

500'

367'

1000'



NORTHWEST

SECTION ON 150° AZIMUTH SOUTHEAST

P12  
15+00E  
16+00S

45°

Int to Matic Vol.

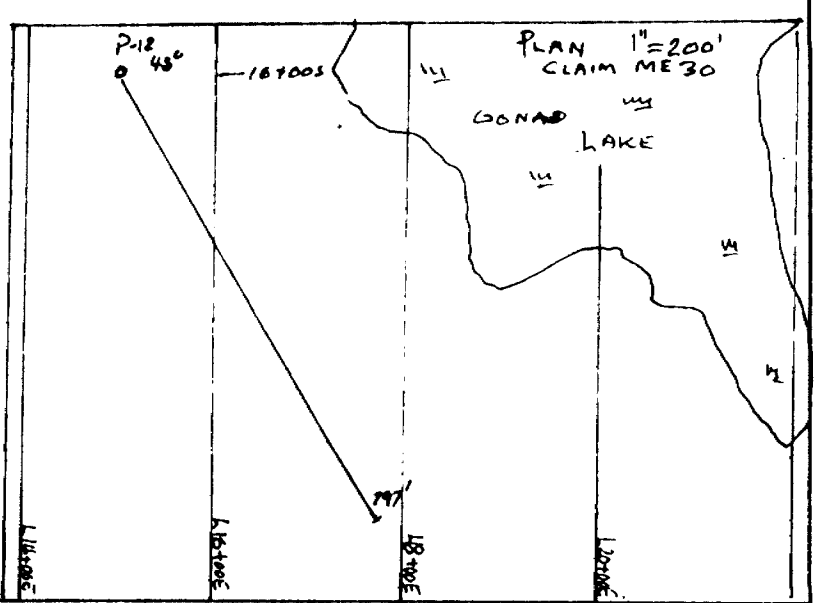
590 Matic Vol.

670'

709

Int. to Matic Vol.

797



PISSANCE CORPORATION TYPE OF SURVEY DRILL SECTION AREA DELORD TWP. LOCATION TIMMINS, ONTARIO	
DRAWN BY	SCALE 1" = 50ft
TRACED BY	DATE 24/6/85
MAP No	REVISED
NTS REF	
TO ACCOMPANY	Report
BY I R G	DATE 24/6/85

Earth Resource Associates  
 P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE 1  
 PROPERTY PUISSANCE  
 HOLE NUMBER P-1/84  
 GRID REFERENCE 24+70E/2+50N  
 TOWNSHIP Deloro CLAIM li, E. 22  
 AZIMUTH 180° DIP ANGLE 50°

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
 CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100' / -47°, 200' / -48°, 300' / -44°  
 LOGGED BY Ken Lapierre DATE November 2, 1984

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Panor	recheck
0'-13'6"	drill casing			
13'6"-- 18'6"	INTERMEDIATE VOLCANIC---Carbonated (calcite) -fine grained -undeterminable contacts -grey green colour -1% Irregular trending calcite stringers -trace fine grained pyrite	13'6"-16'0" B3001	0.002	0.050
16'0"-16'6"	quartz vein-50° to core axis -2% fine grained pyrite -trace tourmaline	16'0"-18'6" B3002	trace	0.011
18'6"-- 28'6"	STRONG QUARTZ VEIN SYSTEM (80%) -gradational contacts -1-2% calcite alteration -5-8% rusty weathered banded material with magnetic qualities -trace chalcopyrite -10-15% fine to medium grained disseminated and coalesced euhedral to subhedral pyrite-local concentration up to 40% -2% magnetite proximal to lower contact	18'6"-21'0" 21'0"-23'6" 23'6"-26'0" 26'0"-28'6" B3003 B3004 B3005 B3005	0.036 0.048 0.509 0.290	0.056 0.013 0.525 0.37

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAY	Gravel
28'6" -- 34'11"	BAILED IRON FORMATION --- Siliceous --- Magnetite --- Sulphide -undeterminable contacts -magnetite bands(25%), 45° to core axis trace to 2% calcite alteration -15% medium grained pyrite/pyrrhotite associated with calcite veinlets -3-5% disseminated, coalesced and stringers of pyrite associated within magnetite bands -2-3% medium grained disseminated pyrite associated with siliceous bands -minor concentration of volcanic material proximal to lower contact	28'6"-31'0" B3007 31'0"-33'6" B3008 33'6"-36'0" B3009	0.159 0.024 0.056	0.122 0.031 0.064
34'11" -- 157'7"	INTERMEDIATE VOLCANIC --- Carbonated (calcite) -contacts: top- 85° to core axis bottom-20° to core axis-FAULT RELATED -pale green colour -fine grained -possible pillow selvages? -1-3% quartz/carbonate filled amygdules -trace calcite veinlets-45° to core axis -2% fine to medium grained disseminated pyrite -moderate to highly carbonated-calcite	36'0"-38'6" B3010 38'6"-41'0" B3011 41'0"-45'0" B3012 45'0"-50'0" B3013 50'0"-55'0" B3014 55'0"-60'0" B3015 60'0"-65'0" B3016 65'0"-70'0" B3017 70'0"-75'0" B3018 75'0"-80'0" B3019 80'0"-85'0" B3020 85'0"-90'0" B3021 90'0"-95'0" B3022 95'0"-100'0" B3023 100'0"-105'0" B3024 105'0"-110'0" B3025 110'0"-115'0" B3026 115'0"-120'0" B3027 120'0"-125'0" B3028 125'0"-130'0" B3029 130'0"-135'0" B3030 135'0"-140'0" B3031 140'0"-145'0" B3032 145'0"-150'0" B3033	trace trace trace 0.020 trace trace trace trace trace 0.080 0.030 trace trace 0.030 trace 0.071 trace trace	0.002 0.001

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: PUISSANCE HOLE NUMBER: P-1/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Pamour
		150'0"-155'0"	B3034 trace
		155'0"-160'0"	B3035 trace
157'7"-- 171'6"	INTERMEDIATE VOLCANIC---Carbonatization (ankerite) -contacts: top-20° to core axis-FAULT RELATED bottom-gradational -green colour -fine to medium grained ankerite grains -trace to 1% quartz/carbonate filled amygdules -trace to 1% fine grained subhedral disseminated pyrite	160'0"-165'0" 165'0"-170'0" 170'0"-175'0"	B3036 trace B3037 trace B3038 trace
171'6"-- 194'5"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE -undeterminable contacts -fine to medium grained ankerite grains -5-10% Irregular trending quartz/carbonate stringers -trace-10% fuchsite alteration associated with stringers -1-2% fine to medium grained disseminated euhedral pyrite  -171'6"-172'11"-quartz/ankerite/chlorite/fuchsite vein -10° to core axis -trace fine to medium grained pyrite associated within vein	175'0"-177'6"	B3039 0.020
	-177'8"-177'10"-quartz veinlet-45° to core axis -non-mineralized	177'6"-180'0"	B3040 0.010
	-178'5"-178'9"-quartz vein-30° to core axis -non-mineralized		
		180'0"-182'6"	B3041 trace
	-182'6"-185'0"-3% fine to medium grained disseminated subhedral to euhedral pyrite	182'6"-185'0"	B3042 0.010
	-185'7"-185'11"-quartz veinlet-25° to core axis 5% calcite/fuchsite alteration associated with both contacts -trace pyrite	185'0"-187'6"	B3043 0.010



EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: PUISSANCE HOLE NUMBER: P-1/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-186'10"-187'1"-quartz vein-30° to core axis -non-mineralized		
		187'5"-190'0" B3044	trace
		190'0"-192'6" B3045	0.010
	-193'6"-194'2"-wall rock characterized by 70% siderite alteration	192'5"-195'0" B3046	trace
	-194'2"-194'5"-quartz vein-30° to core axis -non-mineralized		
194'5"-- 207'9"	INTERMEDIATE VOLCANIC---Carbonatized---Chlorite---Ankerite -undeterminable contacts -fine grained ankerite grains -grey green colour -1-3% irregular trending calcite stringers -no preferred orientation of chlorite grains -trace-1% fine grained subhedral disseminated pyrite	195'0"-197'6" B3047	0.010
		197'6"-200'0" B3048	trace
		200'0"-202'6" B3049	trace
	-202'11"-203'4"-quartz veinlet-25° to core axis -trace fuchsite alteration -non-mineralized	202'6"-205'0" B3050	trace
		205'0"-207'6" B3051	trace
207'9"-- 228'8"	ANKERITE/FUCHSITE/QUARTZ ALTERATION ZONE -undeterminable contacts -grey green to emerald green colour -30% quartz/ankerite/fuchsite stringers with apparent orientation- 70-90° to core axis	207'6"-210'0" B3052	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: PUISSANCE

HOLE NUMBER: P-1/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Pamour
	-207'11"-208'3"-quartz/ankerite vein-30° to core axis -non-mineralized		
	-208'7"-208'9"-quartz/ankerite/fuchsite vein-70° to core axis -trace pyrite		
	-209'5"-209'7"-quartz/fuchsite vein-50° to core axis -non-mineralized		
	-210'11"-211'1"-quartz/fuchsite vein-50° to core axis -trace pyrite associated with both contacts	210'0"-212'6" B3053	trace
	211'5"-211'9" -quartz vein-45° to core AXIS -non-mineralized		
	-212'4"-212'6"-quartz/ankerite/fuchsite vein-50° to core axis -non-mineralized		
	-213'2"-213'3"-quartz/fuchsite veinlet-75° to core axis -non-mineralized	212'6"-215'0" B3054	0.010
	-213'11"-214'3"-quartz/ankerite/fuchsite vein-undeterminable contacts -trace fine grained pyrite associated with both contacts		
	-217'6"-217'8"-quartz/ankerite vein-undeterminable contacts -trace fine grained pyrite associated with both contacts	215'0"-217'6" B3055	trace
	-221'2"-226'4"-alteration zone characterized by ankerite carbonatization -contacts: top-fuchsite/chlorite stringers-FAULT RELATED	217'6"-220'0" D3056	trace
	bottom- " " " " " "	220'0"-222'6" B3057	trace
	-preferred orientation of chlorite blebs-80-85° to core axis	222'6"-225'0" B3058	trace
	-222'0"-222'3"-fuchsite/chlorite stringers-85° to core axis-FAULT RELATED	225'0"-227'6" B3059	0.010

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	PANORAMA	ASSAYS	DEPT. IN.
	-226'7"-228'8"-wallrock characterized by abundant fuchsite alteration(60%) -25% ankerite alteration -2% pyrite stringers and disseminated pyrite	227'6"-230'0"	B3060	0.010	
228'8"-- 327'0"	INTERMEDIATE VOLCANIC---Carbonatized (ankerite) -undeterminable contacts -green to dark green colour -fine grain ankerite grains -1-2% Irregular trending calcite stringers -trace disseminated pyrite				
	-228'8"-250'0"-wall rock characterized by ankerite patches and chlorite blebs	230'0"-235'0"	B3061	0.020	
		" "	K10612		trace
		235'0"-240'0"	B3062	0.320	
		" "	K10613		trace
		240'0"-245'0"	B3063	0.020	
		" "	K10614		trace
		245'0"-250'0"	B3064	0.950	
		" "	K10615		trace
		250'0"-255'0"	B3065	trace	
		" "	K10616		trace
		255'0"-260'0"	B3066	0.010	
		" "	K10617		trace
		260'0"-265'0"	B3067	0.080	
		" "	K10618		trace
		265'0"-270'0"	B3068	0.010	
		" "	K10619		trace
		270'0"-275'0"	B3069	0.010	
		" "	K10620		trace
		275'0"-280'0"	B3070	trace	
		280'0"-285'0"	B3071	0.010	
		285'0"-290'0"	B3072	0.010	
		290'0"-295'0"	B3073	trace	
		295'0"-300'0"	B3074	0.010	

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: PUSSANCE

HOLE NUMBER: P-1/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Parazit
	-304'3"-304'6"-calcite/ankerite/fuchsite vein-45° to core axis -trace fine grained disseminated pyrite	300'0"-305'0" B3075	0.010
		305'0"-310'0" B3076	trace
		310'0"-315'0" B3077	trace
	315'0"-317'0"-ankerite/culorite stringers-45° to core axis-possibly FAULT RELATED	315'0"-320'0" B3078	trace
		320'0"-325'0" B3079	trace
		325'0"-327'0" B3080	trace
	END OF HOLE AT 327 FEET.		

*K. Lapierre*

Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE 1  
PROPERTY PURCHASE  
HOLE NUMBER P-2/84  
GRID REFERENCE 24+70E/2+52H  
TOWNSHIP Deloro CLAIM H.E.22  
AZIMUTH 180° DIP ANGLE -62°

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 57°/60°  
LOGGED BY Ken Lapierre DATE November 6, 1984

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Pamour	Bell
0'-15'0"	-drill casing			
15'0"-- 15'7"	INTERMEDIATE VOLCANIC---Carbonated (calcite) -grounded material -contacts: top-undeterminable bottom-55° to core axis fine to medium grained -grey green colour -2% fine grained disseminated euhedral to subhedral pyrite	15'0"-17'6" " " B3081 K10621	0.020	0.006
15'7"-- 32'6"	MODERATE QUARTZ VEIN SYSTEM (60%) -contacts: top-55° to core axis bottom-60° to core axis -10-15% dolomit/ankerite alteration with preferred orientation-60° to core axis -10-15% volcanic material -5-10% fine to medium grained subhedral to euhedral disseminated and coarsced pyrite associated with carbonate alteration -trace to 2% fine grained euhedral disseminated pyrite within quartz			
	-15'7"-17'6"-Vein system associated with bands of rusty weathered material, locally having magnetic qualities-trending 60-70° to core axis	17'6"-20'0" " " B3082 K10622	0.060	0.072

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: PUISSANCE

HOLE NUMBER: P-2/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Panour	Beil
		20'0"-22'6"	B3083	trace
		" "	K10623	0.002
		22'6"-25'0"	B3084	0.040
		" "	K10624	0.030
	-25'10"-26' "-Vein system associated with magnetite bands-65° to core axis	25'0"-27'6"	B3050	0.020
		" "	K10625	0.040
	-29'0"-31'4"-Vein system characterized by volcanic material-70° to core axis	27'6"- 30'0"	B3086	0.010
	-5% quartz/carbonate filled amygdules	" "	K10626	0.000
	-trace pyrite	30'0"-32'6"	B3087	0.060
		" "	K10627	0.060
32'6" -- 57'0"	INTERMEDIATE VOLCANIC---Sericite---Pillowed?? -contacts: top-60° to core axis bottom-undeterminable grey green to green colour -fine grained -trace-2% quartz/carbonate filled subrounded amygdules -minor amounts of chlorite blebs -trace-1% fine grained disseminated subhedral pyrite			
	-33'0"-37'7"-wall rock characterized by chlorite blebs-80-85° to core axis	32'6"-35'0"	B3088	0.010
	-39'5"-39'7"-quartz/carbonate vein-30° to core axis -non-mineralized	35'0"-40'0"	B3089	trace
	-42'10"-43'3"-quartz/carbonate vein -non-mineralized	40'0"-45'0"	B3090	0.010
		45'0"-50'0"	B3091	0.040
		50'0"-55'0"	B3092	0.020
		55'0"-57'0"	B3093	0.010
	END OF HOLE AT 57 FEET			

*K. Lapierre*

Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

DIAMOND DRILL LOG

PAGE 1  
PROPERTY PUSSANCE  
HOLE NUMBER P-3/84  
GRID REFERENCE 25+37E/2+50N  
TOWNSHIP BELCRO CLAIM #E22  
AZIMUTH 227° DIP ANGLE 45°

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-45°, 200'/-45°, 300'/-44°, 450'/-43°  
LOGGED BY Ken Lapierre DATE November 9 1984.

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
0-5'0"	-drill casing		
5'0"			
45'0"	INTERMEDIATE-MAFIC VOLCANIC---Chlorite---Ankerite		
	contacts: undeterminable	5'0"-10'0" B3094	trace
	-grey green colour	10'0"-15'0" B3095	trace
	-fine-medium grained ankerite grains	15'0"-20'0" B3096	trace
	-chlorite blebs with apparent orientation-45° to core axis		
	-2-3% quartz/carbonate veins-0-45° to core axis		
	-trace-1% fine grained euhedral disseminated pyrite		
	-23'0"-23'3"-quartz/carbonate vein-50° to core axis	20'0"-25'0" B3097	0.030
	-trace pyrite		
	-28'10"-29'2"-quartz/carbonate vein-20° to core axis	25'0"-30'0" B3098	0.020
	-trace pyrite		
	-38'6"-39'0"-quartz vein-80° to core axis	30'0"-35'0" B3099	0.030
	-5% pyrite/pyrrhotite stringers-80° to core axis	35'0"-37'6" B3100	trace
		37'6"-40'0" B3101	0.010
	-40'6"-42'3"-siderite alteration-possibly FAULT RELATED	40'0"-42'6" B3102	0.020

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-3/81

FOOTAGE	DESCRIPTION OF CORE		SAMPLE NUMBER	ASSAYS Bell W.
	-43'0"-45'0"-wall rock characterized by abundant ground -trace-2% disseminated subhedral pyrite	42'6"-45'0"	B3103	0.020
45'0"-				
53'9"	BANDED IRON FORMATION			
	-contacts: top-undeterminable bottom-70° to core axis	45'0"-47'6" 47'6"-50'0"	B3104 B3105	0.010 0.002
	-magnetite bands(35%)-70° to core axis	50'0"-52'6"	B3106	trace
	-siliceous material(50%)	52'6"-55'0"	B3107	0.044
	-carbonate alteration(10%)			
	-5-10% fine-medium grained disseminated/coalesced/ stringers of pyrite associated with magnetite, siliceous material and carbonate alteration			
-53'9"-				
57'7"	STRONG QUARTZ VEIN SYSTEM (75%)	55'0"-57'6"	B3108	0.001
	-contacts: top-70° to core axis bottom-40° to core axis			
	-iron weathered bands with 5% pyrite/pyrrhotite/magnetite			
	-5% carbonate alteration			
57'7"-				
232'0"	INTERMEDIATE VOLCANIC---Calcite---Pillowed???	57'6"-60'0"	B3109	0.018
	-contacts: top-40° to core axis bottom-undeterminable	60'0"-65'0" 65'0"-70'0"	B3110 B3111	trace trace
	-fine-medium grained	70'80"-75'0"	B3112	trace
	-grey green to green	75'0"-80'0"	B3113	trace
	-slightly-highly carbonated	80'0"-85'0"	B3114	trace
	-trace-3% subrounded quartz/carbonate filled amygdules	85'0"-90'0"	B3115	trace
	-trace calcite stringers 45°-90° to core axis	90'0"-95'0"	B3116	trace
	-trace-2% fine-medium grained pyrite	95'0"-100'0"	B3117	trace
		100'0"-105'0"	B3118	trace
		105'0"-110'0"	B3119	trace
		110'0"-115'0"	B3120	0.031
		115'0"-120'0"	B3121	trace
		120'0"-125'0"	B3122	trace



FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BellowsAYS
		125'0"-130'0"	B3123 trace
		130'0"-135'0"	B3124 trace
		135'0"-140'0"	B3125 trace
		140'0"-145'0"	B3126 trace
		145'0"-150'0"	B3127 trace
		150'0"-155'0"	B3128 trace
		155'0"-160'0"	B3129 trace
		160'0"-165'0"	B3130 trace
-165'8"-169'0"	quartz vein-5° to core axis	165'0"-170'0"	B3131 trace
	-2% tourmaline associated with both contacts		
	-trace-2% fuchsite		
	-2-3% pyrite		
		170'0"-175'0"	B3132 trace
		175'0"-180'0"	B3133 trace
		180'0"-185'0"	B3134 trace
		185'0"-190'0"	B3135 0.232
		190'0"-195'0"	B3136 trace
-197'11"-198'0"	FAULT-55° to core axis	195'0"-197'6"	B3137 trace
	-5-10% sulphides associated with both contacts	197'6"-200'0"	B3138 trace
-198'1"-199'0"	quartz vein-20° to core axis		
	-5% carbonate with both contacts		
	-trace fuchsite alteration		
	-3% disseminated medium grained subhedral pyrite		
-208'4"-208'8"	ankerite alteration	200'0"-205'0"	B3139 trace
	-3% quartz/feldspar filled amygdules	205'0"-210'0"	B3140 trace
	-trace amounts of magnetite blebs		
	-trace amounts of fuchsite blebs		
	-trace fine grained disseminated pyrite		
-209'0"-209'6"	ankerite alteration		
	-1% magnetite blebs		
	-trace-1% quartz amygdules		
	-trace pyrite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P-3/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS		
			Bell	W.	
	-211'4"-211'11"-quartz/ankerite veinlet-20° to core axis -trace pyrite	210'0"-215'0"	B3141	trace	
	-215'0"-218'0"-ankerite/dolomite alteration -5% quartz and quartz/feldspar filled amygdules -10% fuchsite blebs -trace-1% magnetite blebs -2% medium grained disseminated pyrite -trace pyrite filled amygdules	215'0"-220'0"	B3142	trace	
	-221'6"-222'7"-abundant calcite/magnetite alteration -trace-2% quartz and quartz/feldspar filled amygdules	220'0"-225'0"	B3143	0.034	
		225'0"-230'0"	B3144	trace	
232'0"- 266'0"	INTERMEDIATE VOLCANIC---Sericite---Ankerite -undeterminable contacts -fine grained green colour -slightly carbonated -minor amounts of chlorite blebs -trace disseminated fine grained subhedral pyrite	230'0"-235'0" 235'0"-240'0" 240'0"-245'0" 245'0"-250'0" 250'0"-255'0" 255'0"-260'0"	B3145 B3146 B3147 B3148 B3149 B3150	trace trace trace trace trace trace	
266'0"- 344'4"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE -contacts: top-25° to core axis-FAULT RELATED bottom-40° to core axis-FAULT RELATED -fine-medium grained ankerite grains -slightly carbonated -5-15% irregular trending quartz/ankerite stringers -fuchsite alteration associated with quartz stringers- generally 50°-60° to core axis -trace-1% fine grained disseminated pyrite -2% fine grained pyrite associated with areas of fuchsite alteration	260'0"-265'0" 265'0"-267'6" 267'6"-270'0" 270'0"-272'6" 272'6"-275'0" 275'0"-277'6" 277'6"-280'0" 280'0"-282'6" 282'6"-285'0" 285'0"-287'6" 287'6"-290'0" 290' -292'6" 292'6"-295'0"	B3151 B3152 B3153 B3154 B3155 B3156 B3157 B3158 B3159 B3160 B3161 B3162 B3163	trace trace 0.015 trace trace trace trace trace trace trace trace trace trace	

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-3/

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-297'3"-297'6"-quartz vein-50° to core axis		Bell #.
	-non-mineralized	295'0"-297'6" B3164	0.010
	-304'7"-305'0"-quartz vein-75° to core axis	297'6"-300'0" B3165	0.040
	-non-mineralized	300'0"-302'6" B3166	0.030
		302'6"-305'0" B3167	0.020
	-306'10"-314'0"-SHEARING-45° to core axis	305'0"-307'6" B3168	trace
	-quartz/ankerite/fuchsite alteration oriented parallel to shearing	307'6"-310'0" B3169	trace
		310'0" 312'6" B3170	trace
	- chlorite/fuchsite alteration associated with both contacts	312'6"-315'0" B3171	trace
	-315'8"-317'0"-preferred orientation of quartz stringers and fuchsite alteration-40° to core axis	315'0"-317'6" B3172	trace
	-317'0"-322'0"-25% quartz stringers with preferred orientation-40° to core axis	317'6"-320'0" B3173	trace
		320'0"-322'6" B3174	0.010
	-322'0"-327'0"-abundant ground	322'6"-325'0" B3175	trace
	-ground characterized by ankerite grains and chlorite alteration-FAULT RELATED	325'0"-327'6" B3176	trace
		327'6"-330'0" B3177	trace
		330'0"-332'6" B3178	trace
		332'6"-335'0" B3179	trace
		335'0"-337'6" B3180	trace
	-338'8"-339'6"-fuchsite alteration	337'6"-340'0" B3181	trace
	-3% fine grained disseminated euhedral pyrite		
339'6"-			
428'0"	INTERMEDIATE VOLCANIC---Ankerite---Fuchsite	340'0"-345'0" B3182	trace
	-contacts: top-40° to core axis	345'0"-350'0" B3183	trace
	bottom-gradational	350'0"-355'0" B3184	trace
	-fine-medium grained ankerite grains	355'0"-360'0" B3185	trace
	-grey green colour		
	-trace-1% fine grained pyrite		

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
-362'0"-364'0"	-abundant fuchsite		Bell W.
		360'0"-365'0"	B3186 trace
-371'1"-372'2"	-abundant fuchsite-FAULT RELATED	365'0"-370'0"	B3187 trace
		370'0"-375'0"	B3188 trace
-372'2"-373'0"	-abundant coarse grained ankerite grains and chlorite alteration-FAULT RELATED		
-376'8"-377'0"	-fuchsite banding-50° to core axis	375'0"-380'0"	B3189 trace
-386'0"-386'4"	-fuchsite banding-35° to core axis	380'0"-385'0"	B3190 trace
		385'0"-390'0"	B3191 trace
-388'8"-389'3"	-fuchsite banding-30° to core axis -quartz stringers associated with both contacts -trace pyrite		
		390'0"-395'0"	B3192 trace
-410'4"-411'0"	-quartz/ankerite/fuchsite vein-30° to core axis	395'0"-400'0"	B3193 0.009
		400'0"-405'0"	B3194 trace
		405'0"-410'0"	B3195 trace
		410'0"-415'0"	B3196 trace
		415'0"-420'0"	B3197 trace
428'0"-		420'0"-425'0"	B3198 trace
450'0"	MAFIC VOLCANIC---Calcite---Chlorite -undeterminable contacts -fine grained -dark green colour -trace-1% fine grained subhedral disseminated pyrite	425'0"-430'0"	B3199 trace
		430'0"-435'0"	B3200 trace
		435'0"-440'0"	B3201 trace
		440'0"-445'0"	B3202 trace
-443'8"-444'3"	-quartz vein-30° to core axis -6 parallel chlorite stringers-30° to core axis -2% fine grained pyrite associated with chlorite stringers	445'0"-450'0"	B3203 trace
END OF HOLE AT 450 FEET November 9, 1984.			

Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

## DIAMOND DRILL LOG

PROPERTY PUISSANCE  
HOLE NUMBER P-4/84  
GRID REFERENCE 25+39E/2+50H  
TOWNSHIP Deloro CLAIM H.E.22  
AZIMUTH 200° DIP ANGLE -45°  
?

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-43°, 200'/43°, 300'/45°, 400'/46°  
LOGGED BY Ken Lapierre DATE November 12, 1984

depth 337'

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
0-5'0"	-drill casing		
5'0"-- 55'3"	INTERMEDIATE VOLCANIC ---Ankerite -undeterminable contacts -fine-medium grained ankerite grains -slightly to moderately carbonated -chlorite blebs present -trace-2% fine to medium grained disseminated pyrite	5'0"-10'0" B3204	trace
	-12'0"-13'0"-abundant ground-possibly FAULT RELATED	10'0"-15'0" B3205	trace
		15'0"-20'0" B3206	trace
	-23'9"-24'1"-wall rock characterized by ankerite carbonatization -1% fuchsite alteration -1% pyrite	20'0"-25'0" B3207	trace
	-26'1"-26'2"-quartz veinlet-65° to core axis abundant siderite alteration -trace pyrite	25'0"-30'0" B3208	trace
	-30'0"-30'11"-quartz veinlet-25° to core axis -minor amounts of ankerite, fuchsite alteration with contacts -2% fine grained euhedral pyrite associated with hanging wall contact	30'0"-35'0" B3209	trace
	-35'8"-36'10"-quartz veinlet-20° to core axis -3% siderite/ankerite alteration -trace chalcopyrite associated within veinlet	35'0"-40'0" B3210	trace

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-5% pyrite associated with hangingwall rock proximal to veinlet		
	-36'8"-37'1"-quartz veinlet-20° to core axis 3% pyrite at and proximal to both contacts of veinlet		
	-37'8"-37'9"-FAULT-60° to core axis		
	-44'0"-44'4"-quartz vein-20° to core axis -1% pyrite associated with both contacts and within vein	40'0"-45'0" B3211	0.008
	-45'9"-46'2"-wall rock characterized by 3% pyrite stringers and 1% disseminated pyrite		
	-47'0"-47'2"-quartz vein-60° to core axis -siderite alteration -2% pyrite -trace chalcopyrite		
	-50'9"-55'3"-wall rock characterized by SHEARED appearance -"stretched" quartz/carbonate filled amygdules-70° to core axis -chlorite alteration -trace-2% medium grained pyrite	45'0"-50'0" B3212	trace
		50'0"-55'0" B3213	trace
55'3"-- 66'8"	BANDED IRON FORMATION---Siliceous---Sulphide -contacts: undeterminable -magnetite bands(20%)-45° to core axis -siliceous material (50%) -5% ankerite/carbonate alteration associated with magnetite contacts -5% pyrite/pyrrhotite alteration associated with magnetite and siliceous bands		
	-55'3"-56'9"-abundant rusty weathered bands-50-60° to core axis	55'0"-57'6" 57'6"-60'0" 60'0"-62'6" 62'6"-65'0" 65'0"-67'6"	B3214 0.070 B3215 0.026 B3216 trace B3217 trace B3218 trace

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
67'8"-- 75'0"	STRONG QUARTZ VEIN SYSTEM (85%) -undeterminable contacts siliceous material (85%) -magnetite bands (4%)-30-50° to core axis -ankerite/carbonate alteration(5%) associated with magnetite bands and with vein material -5% pyrite/pyrrhotite mineralization associated with carbonate material	67'6"-70'0" 83219 70'0"-72'6" 83220 72'6"-75'0" 83221	Beff % trace trace 0.014
75'0"-- 80'0"	BANDED IRON FORMATION---Siliceous---Sulphide -undeterminable contact :top bottom-45° to core axis -magnetite bands(20%)-65° to core axis -smokey grey-green siliceous material(60%) -10% ankerite/carbonate alteration -5-10% pyrite/pyrrhotite associated with magnetite contacts and carbonate alteration	75'0"-77'6" 83222 77'6"-80'0" 83223	trace 0.006
80'0"-- 155'0"	INTERMEDIATE VOLCANIC---Ankerite -contacts: top-45° to core axis bottom- undeterminable -green colour -fine-medium grained ankerite grains -chlorite alteration trace to 2% quartz/carbonate filled amygdules -trace pyrite		
	-81'1"-82'4"-ankerite/quartz vein-50° to core axis -5% chlorite alteration -5% pyrite	80'0"-85'0" 83224	trace
	-82'10"-83'5"-ankerite/quartz vein-undeterminable contacts -5% chlorite alteration -5% pyrite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-4/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	85'0"-102'0"-wall rock characterized by 3% amygdules	85'0"-90'0"	B3225 trace
	-5-10% ankerite grains with apparent orientation-70° to core axis	90'0"-95'0"	B3226 trace
		95'0"-100'0"	B3227 trace
		100'0"-105'0"	B3228 trace
	-107'0"-118'0"-wall rock characterized by calcite alteration	105'0"-110'0"	B3229 trace
		110'0"-115'0"	B3230 0.004
		115'0"-120'0"	B3231 trace
		120'0"-125'0"	B3232 trace
	-129'3"-129'9"-quartz/ankerite vein-undeterminable contacts	125'0"-130'0"	B3233 trace
	-2% chlorite alteration		
	-trace pyrite associated within vein and with both contacts		
		130'0"-135'0"	B3234 trace
		135'0"-140'0"	B3235 0.008
		140'0"-145'0"	B3236 trace
		145'0"-150'0"	B3237 trace
		150'0"-155'0"	B3238 trace
155'0"-- 189'4"	ANKERITE/QUARTZ ALTERATION ZONE		
	-contacts: top-45° to core axis-possibly FAULT RELATED		
	bottom-undeterminable		
	-fine to medium grained ankerite grains		
	-grey green colour		
	-slightly carbonated		
	-5-10% quartz/carbonate stringers with apparent orientation 45-60° to core axis		
	-trace fuchsite alteration locally associated with quartz/carbonate stringers		
	-trace disseminated pyrite		
	-153'6"-158'11"-quartz/tourmaline/carbonate vein-20° to core axis	155'0"-160'0"	B3239 trace
	-non-mineralized		
	-159'8"-160'0"-quartz/carbonate vein-40° to core axis		
	-non-mineralized		
	-162'0"-163'0"-wall rock characterized by abundant siderite	160'0"-165'0"	B3240 trace



EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY:

HOLE NUMBER: P-4/14

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BeI ASSAYS
	-162'6"-163'9"-carbonate/quartz veinlet-15° to core axis -trace fuchsite -2% fine grained disseminated pyrite		
		165'0"-170'0" B3241	trace
	-174'6"-175'0"-carbonate/quartz vein-35° to core axis -trace pyrite	120'0"-175'0" B3242	trace
		175'0"-180'0" B3243	trace
	-183'2"-184'3"-ankerite/quartz/black chlorite veinlet-10° to core axis -abundant fuchsite alteration associated with both contacts -trace pyrite		
		180'0"-185'0" B3244	trace
	-187'4"-187'10"-quartz/ankerite vein-20° to core axis -non-mineralized		
189'4"--			
207'6"	INTERMEDIATE VOLCANIC---Ankerite -undeterminable contacts -fine to medium grained ankerite grains -grey green colour -slightly carbonated -trace pyrite	185'0"-190'0" B3245 190'0"-195'0" B3246 195'0"-200'0" B3247	trace trace trace
	-203'0"-205'4"-wall rock characterized by siderite alteration	200'0"-205'0" B3248 205'0"-207'6" B3249	trace trace
207'6"--			
231'8"	ANKERITE/FUCHSITE/QUARTZ ALTERATION ZONE -contacts: top-50° to core axis-FAULT RELATED bottom-50° to core axis-FAULT RELATED -fine to medium grained ankerite grains-50° to core axis -locally-chlorite blebs-50° to core axis -serpentine chlorite alteration-locally -5-10% Irregular trending quartz and quartz/carbonate stringers -10% fuchsite alteration associated proximal to quartz and quartz/carbonate stringers -trace-1% pyrite -increase in pyrite concentration associated with fuchsite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P4/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Belt %	rech.
	-207'9"-230'0"-preferred orientation of, ankerite grains-50° to core axis- FAULT RELATED	207'6"-210'0" B3250	trace	
		210'0"-212'6" B3251	0.003	
	-213'0"-214'3"-quartz vein-20° to core axis -non-mineralized	212'6"-215'0" B3252	0.278	0.27
	-213'3"-213'8"-quartz vein-20° to core axis -non-mineralized			
	-216'9"-217'0"-quartz/fuchsite vein-30° to core axis -trace pyrite associated with contacts	215'0"-217'6" B3253	0.012	
	-219'5"-219'11"-quartz vein-40° to core axis -5% fuchsite alteration within vein -2% chlorite alteration -trace pyrite	217'6"-220'0" B3254	0.012	
	-220'0"-222'0"-wall rock characterized by abundant chlorite-possibly FAULT RELATED	220'0"-222'6" B3255	trace	
	-222'0"-229'8"-wall rock characterized by fine grained ankerite alteration and "stretched" chlorite blebs-50° to core axis	222'6"-225'0" B3256	trace	
	-227'1"-228'6"-core characterized by sandy/silty material-WATER SEAM -highly carbonated	225'0"-227'6" 227'6"-230'0" B3257 B3258	trace 0.006	
	-229'3"-231'8"-wall rock characterized by 70% fuchsite alteration -30% irregular trending quartz/carbonate stringers -trace pyrite	230'0"-232'6" B3259	0.004	
		232'6"-235'0" B3260	trace	
231'8"--				
337'0"	INTERMEDIATE VOLCANIC---Chlorite---Ankerite -contacts: top-50° to core axis bottom-undeterminable -fine to medium grained ankerite grains	238'50"-240'0" 240'0"-245'0" 245'0"-250'0" 250'0"-255'0" B3261 B3262 B3263 B3264	trace trace trace trace	

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-4/34

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell II
	-green colour	255'0"-260'0"	B3265 trace
	-trace quartz/carbonate filled amygdules	260'0"-265'0"	B3266 trace
	-trace irregular trending carbonate stringers	265'0"-270'0"	B3267 trace
	-trace pyrite	270'0"-275'0"	B3268 trace
		275'0"-280'0"	B3269 trace
		280'0"-285'0"	B3270 trace
		285'0"-290'0"	B3271 trace
		290'0"-295'0"	B3272 trace
		295'0"-300'0"	B3273 trace
		300'0"-305'0"	B3274 0.010
		305'0"-310'0"	B3275 trace
		310'0"-315'0"	B3276 trace
		315'0"-320'0"	B3277 trace
	-320'0"-337'0"-10% carbonate stringers and veinlets-45° to core axis	320'0"-325'0"	B3278 trace
		325'0"-330'0"	B3279 trace
		330'0"-335'0"	B3280 trace
		335'0"-337'0"	B3281 trace
END OF HOLE AT 337 FEET			

*Handwritten signature*

Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE  
PROPERTY PUISSANCE  
HOLE NUMBER P-5/84  
GRID REFERENCE 25+41E/2+49N  
TOWNSHIP Deloro CLAIM M.E.22  
AZIMUTH 180° DIP ANGLE -45°

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-45°, 200'/-44°, 300'/43°, 387'/41°  
LOGGED BY Ken Lapierre DATE Nov. 15/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	REMARKS
0-7'0"	drill casing			
7'0"-- 63'0"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite---Calcite---Chlorite			
	-contacts: top-undeterminable	7'0"-10'0"	B3282	trace
	bottom-60° to core axis	10'0"-15'0"	B3283	trace
	-fine to medium grained	15'0"-20'0"	B3284	trace
	-grey green to green colour	20'0"-25'0"	B3285	trace
	-trace pyrite	25'0"-30'0"	B3286	trace
		30'0"-35'0"	B3287	trace
		35'0"-40'0"	B3288	trace
		40'0"-45'0"	B3289	trace
		45'0"-50'0"	B3290	trace
	-52'11"-53'0"-quartz veinlet-70° to core axis	50'0"-52'6"	B3291	trace
	-non-mineralized	52'6"-55'0"	B3292	trace
	-54'0"-54'3"-quartz vein- 70° to core axis	55'0"-57'6"	B3293	trace
	-10% pyrite stringers within vein-70° to core axis			
	-56'5"-63'2"-wall rock characterized by sheared appearance			
	-contacts: top-70° to core axis-FAULT RELATED	57'6"-60'0"	B3294	trace
	bottom-60° to core axis	60'0"-62'6"	B3295	trace
	-"stretched" quartz/carbonate filled amygdules-	62'6"-65'0"	B3296	trace
	70° to core axis			
63'0"-- 72'0"	STRONG QUARTZ VEIN SYSTEM (90%)	65'0"-67'6"	B3297	0.1060.102
	contacts: top-60° to core axis	67'6"-70'0"	B3298	0.036
	bottom-40° to core axis	70'0"-72'8"	B3299	0.040

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-2-3% chlorite patches and stringers		
	-2% ankerite alteration		
	-1% magnetite material		
	-2-5% fine to medium grained subhedral pyrite-coalesced, disseminated, and stringers generally associated with alteration material within vein		
72'0" --			
89'0"	BANDED IRON FORMATION---Siliceous---Sulphide	72'6"-75'0"	B3300 0.010
	-contacts: top-35-40° to core axis	75'0"-77'6"	B3301 trace
	bottom-50° to core axis	77'6"-80'0"	B3302 0.020
	-magnetite bands (20%) -60° to core axis	80'0"-82'6"	B3303 trace
	-smokey grey siliceous material (70%)	82'6"-85'0"	B3304 0.010
	-5% ankerite alteration		
	-2-5% pyrite/pyrrhotite		
	-higher concentration of sulphides proximal to upper contact		
	-trace chalcopyrite		
	-85'0"-86'6"-fragmented appearance to Iron Formation	85'0"-87'6"	B3305 trace
	-magnetite in the form of broken irregular trending stringers		
		87'6"-90'0"	B3306 trace
89'0" --			
130'3"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite---Calcite---Chlorite	90'0"-95'0"	B3307 trace
	-contacts: top-50° to core axis	95'0"-100'0"	B3308 trace
	bottom-gradational	100'0"-105'0"	B3309 trace
	-fine grained	105'0"-110'0"	B 3310 trace
	-green colour	110'0"-115'0"	B3311 trace
	chlorite alteration		
	-highly carbonated		
	-trace pyrite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-5/S

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Bell	W.
114'0"				
130'3"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite			
	contacts: top-gradational	115'0"-120'0"	B3312	trace
	bottom-80° to core axis	120'0"-125'0"	B3313	trace
	-fine to medium grained ankerite grains	125'0"-130'0"	B3314	trace
	-grey green to green			
	-slightly carbonated			
	-trace pyrite			
130'3"				
142'0"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE			
	-contacts: top-80° to core axis-possibly FAULT RELATED	130'0"-132'6"	B3315	trace
	bottom-20° to core axis			
	-medium grained ankerite grains			
	-5% siderite alteration			
	-grey green colour			
	-5-10% quartz and quartz/carbonate stringers			
	-2% fuchsite alteration generally associated with quartz and quartz/carbonate stringers and veins			
	-trace pyrite			
	-3% fine grained pyrite associated with fuchsite			
	-132'0"-133'4"-area of abundant fuchsite alteration	132'6"-135'0"	B3316	trace
	-133'0"-133'4"-carbonate/quartz vein-20° to core axis			
	-non-mineralized			
		135'0"-137'6"	B3317	trace
		137'6"-140'0"	B3318	trace
	-141'0"-142'0"-carbonate/quartz vein-20° to core axis	140'0"-142'6"	B3319	trace
	-trace tourmaline			
	-non-mineralized			

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P-5/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS		
			Bell	W.	
142'0"- 165'0"	INTERMEDIATE VOLCANIC---Ankerite -contacts: top-20° to core axis bottom-undeterminable -grey green colour -medium graned ankerite grains -2-5% quartz and quartz/carbonate stringers and veinlets -trace fuchsite alteration trace pyrite	142'6"-145'0" 145'0"-150'0" 150'0"-155'0" 155'0"-160'0" 160'0"-165'0"	B3320 B3321 B3322 B3323 B3324	trace trace trace trace trace	
165'0"- 210'9"	ANKERITE/FUCHSITE/QUARTZ ALTERATION ZONE -contacts: top-undeterminable bottom-60° to core axis-FAULT RELATED -fine to medium grained ankerite grains -grey green to emerald green colour -10-15% irregular treding quartz stringers -10% fuchsite alteration -trace-2% fine grained disseminated pyrite -increase in pyrite with increase in fuchsite alteration				
	-165'0"-165'8"-fuchsite alteration associated with 4 quartz veinlets (45° to core axis) -tourmaline associated with quartz	165'0"-167'6"	B3325	trace	
		167'6"-170'0" 170'0"-172'6" 172'6"-175'0" 175'0"-177'6" 177'6"-180'0" 180'0"-182'6"	B3326 B3327 B3328 B3329 B3330 B3331	trace trace trace trace trace trace	
	-180'9"-183'10"-FAULT-55° to core axis -abundant serpentine-talc/chlorite alteration -fuchsite alteration -trace-1% fine grained pyrite				
	-183'10"-192'0"-20% irregular trending quartz/carbonate stringers and veinlets	182'6"-185'0"	B3332	trace	

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P-5/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	Bell ASSAYS W.
		185'0"-187'6"	B3333 0.010
		187'6"-190'0"	B3334 trace
		190'0"-192'6"	B3335 0.016
	-192'6"-194'6"-abundant fuchsite alteration	192'6"-195'0"	B3336 trace
	-194'6"-198'3"-wall rock characterized by ankerite carbonatization -chlorite blebs-70' to core axis	195'0"-197'6"	B3337 trace
		197'6"-200'0"	B3338 trace
	-198'3"-201'7"-abundant fuchsite alteration-60' to core axis	200'0"-202'6"	B3339 trace
	-201'7"-206'5"-Intermediate Volcanic -abundant ankerite alteration	202'6"-205'0"	B3340 trace
	-206'5"-208'8"-abundant fuchsite alteration -trace pyrite	205'0"-207'6"	B3341 trace
	-207'10"-210'0"-Intermediate Volcanic	207'6"-210'0"	B3342 trace
	-210'0"-210'9"-abundant fuchsite alteration -1% fine grained pyrite		
210'9"- 295'0"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite---Chlorite -contacts: top-60' to core axis-FAULT RELATED bottom-70' to core axis -fine-medium grained ankerite grains -grey green to green -trace-1% disseminated pyrite	210'0"-212'6"	B3343 trace
		212'6"-215'0"	B3344 trace
		215'0"-220'0"	B3345 trace
		220'0"-225'0"	B3346 trace
		225'0"-230'0"	B3347 trace
		230'0"-235'0"	B3348 trace
		235'0"-240'0"	B3349 trace
		240'0"-245'0"	B3350 trace
	-246'10"-248'5"-wall rock characterized by fuchsite alteration -1% medium grained subhedral pyrite	245'0"-250'0"	B3351 trace
		250'0"-255'0"	B3352 trace
		255'0"-260'0"	B3353 0.004
		260'0"-265'0"	B3354 trace
		265'0"-270'0"	B3355 trace



EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P-5/2

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
		270'0"-275'0"	B3356 0.004
		275'0"-280'0"	B3357 trace
		280'0"-285'0"	B3358 trace
		285'0"-290'0"	B3359 trace
		290'0"-295'0"	B3360 trace
295'0"- 311'9"	ANKERITE/QUARTZ ALTERATION ZONE	295'0"-300'0"	B3361 trace
	-contacts: top-70° to core axis	300'0"-305'0"	B3362 trace
	bottom-60° to core axis	305'0"-310'0"	B3363 trace
	-grey green		
	-fine grained		
	-10% carbonate/quartz stringers, irregular trending		
311'9"- 387'0"	INTERMEDIATE-MAFIC VOLCANIC---Calcite	310'0"-315'0"	B3364 trace
	-contacts: top-60° to core axis	315'0"-320'0"	B3365 trace
	bottom-undeterminable	320'0"-325'0"	B3366 trace
	-green colour	325'0"-330'0"	B3367 trace
	-fine grained	330'0"-335'0"	B3368 trace
	-chlorite blebs	335'0"-340'0"	B3369 trace
	-trace amygdules	340'0"-345'0"	B3370 trace
	-trace-5% ankerite alteration	345'0"-350'0"	B3371 trace
	-highly carbonated-calcite	350'0"-355'0"	B3372 trace
	-trace disseminated pyrite	355'0"-360'0"	B3373 trace
		360'0"-365'0"	B3374 trace
		365'0"-370'0"	B3375 trace
		370'0"-375'0"	B3376 trace
		375'0"-380'0"	B3377 0.004
		380'0"-385'0"	B3378 trace
		385'0"-387'0"	B3379 trace
	END OF HOLE AT 387 FEET		

*Ken Lapierre*

Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE 3  
PROPERTY PUISSANCE  
HOLE NUMBER P6-/84  
GRID REFERENCE 24+42E/2+51N  
TOWNSHIP Deloro CLAIM M.E. 2  
AZIMUTH DIP ANGLE -90

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-90°, 200'/-89°, 300'/88°, 400'/87°, 471'/  
LOGGED BY Ken Lapierre DATE Nov, 16/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
0'--			
7'0"	-drill casing		
7'0"			
56'0"	INTERMEDIATE VOLCANIC---Ankerite---Chlorite	7'0"-10'0"	B3380 trace
	contacts: top-undeterminable	10'0"-15'0"	B3381 trace
	bottom-60° to core axis-FAULT RELATED	15'0"-20'0"	B3382 trace
	-grey green to green colour	20'0"-25'0"	B3383 trace
	-fine-medium grained ankerite and chlorite grains	25'0"-30'0"	B3384 trace
	-trace pyrite	30'0"-35'0"	B3385 trace
		35'0"-40'0"	B3386 trace
		40'0"-45'0"	B3387 trace
		45'0"-50'0"	B3388 trace
	-52'4"-56'0"-wall rock characterized by sheared/streched	50'0"-52'6"	B3389 trace
	fragmented appearance-60° to core axis-FAULT RELATED	52'6"-55'0"	B3390 trace
	-moderate amount of siderite alteration		
	-3-5% pyrite-60° to core axis		
56'-62'3"	MODERATE QUARTZ VEIN SYSTEM (45%)	55'0"-57'6"	B3392 0.012
	contacts: top-undeterminable		
	bottom-55° to core axis		
	sheared fragmented material (45%)		
	-5% ankerite alteration		
	-trace-5% pyrite		
	-57'0"-60'0"-sheared chloritic fragmented material	57'6"-60'0"	B3392 trace

FOOTAGE	DESCRIPTION OF CORE	60'0"-62'6"	SAMPLE NUMBER	bell W. ASSAYS
62'3" --			B3393	0.018
74'2"	BANDED IRON FORMATION--Siliceous--Sulphide	62'6"-65'0"	B3394	0.010
	contacts: top-55° to core axis	65'0"-67'6"	B3395	0.052
	bottom-60° to core axis	67'6"-70'0"	B3396	0.068
	-magnetite bands-35%	70'0"-72'6"	B3397	trace
	-siliceous material-50%	72'6"-75'0"	B3398	0.016
	-ankerite material-5-10%			
	-5-10% sulphides (pyrite/pyrrhotite?) associated with magnetite bands and ankerite			
74'2" -				
107'0"	INTERMEDIATE VOLCANIC--Ankerite--Chlorite	75'0"-80'0"	B3399	trace
	-contacts: top-60° to core axis	80'0"-85'0"	B3400	trace
	bottom-undeterminable	85'0"-90'0"	B3401	trace
	-green to grey green	90'0"-95'0"	B3402	trace
	-fine to medium grained ankerite grains	95'0"-100'0"	B3403	trace
	-locally chlorite blebs-40-50° to core axis	100'0"-105'0"	B3404	trace
	-trace amounts of quartz filled amygdules	105'0"-110'0"	B3405	trace
	-trace pyrite	110'0"-115'0"	B3406	trace
107' -				
170'	INTERMEDIATE VOLCANIC--Calcite--Ankerite--Chlorite	115'0"-120'0"	B3407	trace
	-contacts: top-undeterminable	120'0"-125'0"	B3408	trace
	bottom-gradational	125'0"-130'0"	B3409	trace
	-green colour	130'0"-135'0"	B3410	trace
	-fine grained	135'0"-140'0"	B3411	trace
	-locally chlorite blebs, apparent orientation-50° to core axis	140'0"-145'0"	B3412	trace
	-trace pyrite	145'0"-150'0"	B3413	trace
		150'0"-155'0"	B3414	trace
		155'0"-160'0"	B3415	trace
		160'0"-165'0"	B3416	trace
		165'0"-170'0"	B3417	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puisseance

HOLE NUMBER: P-6

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
170'- 267'	INTERMEDIATE VOLCANIC---Ankerite---Pillowed???		Cell W.
	-gradational contacts	170'0"-175'0" B3418	trace
	-fine to medium grained ankerite grains	175'0"-180'0" B3419	trace
	-trace to 2% chlorite alteration	180'0"-185'0" B3420	trace
	-10% ankerite carbonatization associated with 2% chlorite blebs-50°-60° to core axis-possibly pillow selvages???	185'0"-190'0" B3421	trace
	-trace pyrite		
	-trace-1% disseminated pyrite associated with ankerite and chlorite blebs		
	-190'9"-191'5"-wall rock characterized by abundant chlorite alteration-55° to core axis-FAULT RELATED	190'0"-195'0" B3422	trace
	-1% pyrite		
		195'0"-200'0" B3423	0.004
		200'0"-205'0" B3424	trace
		205'0"-210'0" B3425	trace
		210'0"-215'0" B3426	trace
		215'0"-220'0" B3427	trace
		220'0"-225'0" B3428	trace
		225'0"-230'0" B3429	trace
		230'0"-235'0" B3430	trace
	-236'2"-237'0"-abundant ankerite, soft gouge-FAULT-30° to core axis	235'0"-240'0" B3431	trace
		240'0"-245'0" B3432	trace
		245'0"-250'0" B3433	trace
		250'0"-255'0" B3434	trace
		255'0"-260'0" B3435	trace
		260'0"-265'0" B3436	trace
267'0"- 288'6"	INTERMEDIATE-MAFIC VOLCANIC---Calcite---Chlorite	265'0"-270'0" B3437	trace
	-contacts: top-gradational	270'0"-275'0" B3438	trace
	bottom-65° to core axis-FAULT RELATED		
	-green colour		
	-fine grained		
	-highly carbonated		
	-2% ankerite grains		

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-trace pyrite		
	-278'0"-279'4"-silicified wall rock -trace feldspar alteration	275'0"-280'0" B3439	trace
	-282'6"-283'0"-quartz/ankerite vein-20° to core axis - trace pyrite	280'0"-285'0" B3440	trace
287'6"			
362'6"	ANKERITE/QUARTZ ALTERATION ZONE		
	-contacts: top-65° to core axis-FAULT RELATED bottom-20° to core axis-FAULT RELATED	285'0"-287'6" 287'6"-290'0"	B3441 trace B3442 trace
	-grey green colour	290'0"-292'6"	B3443 trace
	-medium-coarse grained ankerite grains	292'6"-295'0"	B3444 trace
	-slightly carbonated	295'0"-300'0"	B3445 trace
	-10-15% irregular trending quartz/carbonate stringers	300'0"-305'0"	B3446 trace
	-fuchsite alteration associated with both contacts	305'0"-310'0"	B3447 trace
	-trace pyrite	310'0"-315'0"	B3448 trace
		315'0"-320'0"	B3449 trace
		320'0"-325'0"	B3450 trace
		325'0"-330'0"	B3451 trace
	-331'7"-331'10"-quartz vein-60° to core axis -non-mineralized	330'0"-335'0"	B3452 trace
		335'0"-340'0"	B3453 trace
	- 41'8"-342'4"-wall rock characterized by siderite alteration	340'0"-345'0"	B3454 trace
		345'0"-350'0"	B3455 trace
	-354'1"-354'3"-quartz/carbonate vein-70° to core axis -trace pyrite/fuchsite with both contacts	350'0"-355'0"	B3456 trace
	-354'3"-354'5"-quartz carbonate vein-50° to core axis -trace disseminated pyrite		
		355'0"-357'6"	B3457 trace
		357'6"-360'0"	B3458 trace
	-359'0"-362'6"-abundant fuchsite alteration -trace pyrite	360'0"-362'6"	B3459 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-6

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	Bell	ASSAYS
362'6"				
393'9"	INTERMEDIATE VOLCANIC?---Ankerite			
	-contacts: top-20° to core axis			
	bottom-gradational			
	-grey to grey green colour			
	-ankerite carbonatization			
	-5% chlorite/fuchsite blebs-50° to core axis			
	-1% quartz/carbonate veinlets-40°-50° to core axis.			
	-trace fuchsite associated with veinlets			
	-1-2% pyrite associated with fuchsite			
	-362'6"-370'0"-wall rock characterized by abundant fine grained ankerite(95%)	362'6"-365'0" B3460	trace	
		365'0"-367'6" B3461	trace	
	-2% fuchsite/chlorite blebs-50° to core axis	367'6"-370'0" B3462	trace	
	-3% fine grained subhedral pyrite-50° to core axis	370'0"-372'6" B3463	trace	
		372'6"-375'0" B3464	trace	
		375'0"-380'0" B3465	trace	
		380'0"-385'0" B3466	trace	
		385'0"-390'0" B3467	trace	
393'9"				
444'4"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE	390'0"-395'0" B3468	trace	
	-contacts: top-gradational			
	bottom-60° to core axis-FAULT RELATED			
	-grey green colour			
	-medium grained ankerite and chlorite grains			
	-slightly carbonated			
	-15-20% quartz and quartz/carbonate stringers			
	-5% fuchsite alteration with veins			
	-trace-2% pyrite associated with fuchsite			
	-393'9"-400'0"-fuchsite alteration-40° to core axis	395'0"-397'6" B3469	trace	
	-1-2% pyrite	397'6"-400'0" B3470	trace	
	-402'0"-402'8"-fuchsite alteration-50° to core axis	400'0"-402'6" B3471	trace	
	-trace pyrite			

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BELOW	ASSAYS
	-404'0"-404'7"-fuchsite alteration-50° to core axis -2% pyrite associated with fuchsite	402'6"-405'0"	B3472	trace
		405'1"-408'6"	B3473	trace
		407'6"-410'0"	B3474	trace
		410'0"-412'6"	B3475	trace
		412'6"-415'0"	B3476	trace
		415'0"-417'6"	B3477	trace
	-418'11"-419'2"-quartz vein-50° to core axis (sub-parallel) -non-mineralized	417'6"-420'0"	B3478	trace
	-420'0"-422'6"-quartz veining -Chlorite alteration-possibly FAULT RELATED	420'0"-422'6"	B3479	trace
		422'6"-425'0"	B3480	trace
		425'0"-427'6"	B3481	0.004
		427'6"-430'0"	B3482	trace
	-430'0"-432'0"-fuchsite alteration -1% pyrite	430'0"-432'6"	B3483	0.008
	-433'0"-433'4"-quartz vein-60° to core axis -non-mineralized	432'6"-435'0"	B3484	trace
	-434'0"-437'0"-abundant irregular trending quartz stringers - trace fuchsite -trace-1% pyrite	435'0"-437'6"	B3485	trace
	-437'0"-437'3"-quartz vein-50° to core axis -non-mineralized	437'6"-440'0"	B3486	trace
	-439'0"-442'6"-abundant irregular trending quartz stringers	440'0"-442'6"	B3487	trace
		442'6"-445'0"	B3488	trace





Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE  
PROPERTY PUSSANCE  
HOLE NUMBER P-7/84  
GRID REFERENCE 14+20E/0+40S  
TOWNSHIP DELORO CLAIM ME2  
AZIMUTH 180° DIP ANGLE -45°

DRILLING COMPANY TRIANGLE DRILLING FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100/43°, 200/43°  
LOGGED BY Ken Lapierre DATE December 1, 1984.

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
0--12'0"	-drill casing		
12'0"-- 64'4"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite?---Chlorite -contacts: top-undeterminable bottom-60° to core axis -fine grained -green colour -slightly carbonated -locally chlorite blebs-60° to core axis -1% siderite alteration -2% quartz/carbonate filled amygdules -1% irregular trending quartz/carbonate stringers -1-2% fine-medium grained subhedral pyrite	12'0"-15'0" 15'0"-20'0"	G64501 trace G64502 trace
-22'0"-35'0"	-wall rock with apparent orientation-60° to core axis	20'0"-25'0"	G64503 trace
-23'2"-23'4"	-two cross-cutting quartz veins-45° to core axis -5% fine grained pyrite associated with both contacts		
-26'4"-26'5"	-quartz vein-50° to core axis -1% pyrite associate with both contacts	25'0"-30'0"	G64504 trace
-38'9"-38'10"	-possible FAULT-50° to core axis -chlorite/siderite alteration	30'0"-35'0" 35'0"-40'0"	G64505 trace G64506 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-7/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
-39'0"-59'6"	-wall rock characterized by amygdules, ankerite -60° to core axis	40'0"-45'0" G64506.5	ell W. trace
-47'5"-47'7"	-FAULT-80° to core axis -abundant chlorite/siderite alteration	45'0"-50'0" G64507	trace
-59'6"-64'4"	-wall rock characterized by chlorite blebs-55° to core axis	50'0"-55'0" 55'0"60'0" G64508 G64509	trace trace
		60'0"-65'0" G64510	trace
-59'7"-59'8"	-quartz veinlet-90° to core axis -1% pyrite associated with contacts		
64'4"- 113'4"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE---Shearing contacts: top-60° to core axis-FAULT RELATED bottom-60° to core axis-FAULT RELATED -fine-medium grained ankerite grains -grey green-emerald green colour -25-30% quartz/carbonate and quartz stringers with apparent orientation-60° to core axis-parallel to shearing -shearing-60° to core axis -1-3% fuchsite alteration -trace-1% fine grained pyrite		
-64'4"-99'3"	-alteration zone characterized by apparent SHEARING-60° to core axis	65'0"-67'6" 67'6"-70'0" 70'0"-72'6" 72'6"-75'0" 75'0"-77'6" 77'6"-80'0" 80'0"-82'6" 82'6"-85'0" 85'0"-87'6" 87'6"-90'0" 90'0"-92'6"	G64511 trace G64512 trace G64513 trace G64514 trace G64515 trace G64516 trace G64517 trace G64518 trace G64519 trace G64520 trace G64521 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance HOLE NUMBER: P-7/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-93'3"-94'4"-FAULT-65° to core axis -soft gouge -cataclastic material -CRAIG'S FAULT-probable	92'6"-95'0" G64522	trace
	-99'3"-113'4"-Alteration Zone characterized by-	95'0"-97'6" G64523	trace
	1) increase in ankerite alteration	97'6"-100'0" G64524	trace
	2) decrease in quartz and quartz/carbonate stringers(5%)-irregular trending	100'0"-102'6" G64525	trace
		102'6"-105'0" G64526	trace
	3) no apparent shearing	105'0"-107'6" G64527	trace
		107'6"-110'0" G64528	trace
		100'0"-112'6" G64529	trace
		112'6"-115'0" G64530	trace
113'4"- 207'0"	INTERMEDIATE-MAFIC VOLCANIC---Calcite---Ankerite -contacts: top-60° to core axis-FAULT RELATED bottom-undeterminable -grey green to green colour -fine grained -slightly-highly carbonated -1-3% quartz/calcite filled amygdules -trace pyrite		
	-114'4"-114'6"-abundant fuchsite-possibly FAULT RELATED -60° to core axis	115'0"-120'0" G64531	trace
	-115'4"-116'0"-abundant fuchsite-possibly FAULT RELATED -60° to core axis -trace pyrite		
	-116'0"-144'0"-abundant ankerite patches -trace chalcopryrite, pyrite--locally	120'0"-125'0" G64532 125'0"-130'0" G64533 130'0"-135'0" G64534	trace trace trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Fuissance HOLE NUMBER: P-7/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
-135'3"-136'3"	BANDED IRON FORMATION---Siliceous---Magnetite	135'0"-137'6"	G64535 trace
	-contacts: top-55° to core axis		
	bottom-60° to core axis		
	-3% pyrite associated with quartz/carbonate/ volcanic material		
		137'6"-140'0"	G64536 trace
-144'0"-207'0"	abundant calcite alteration and amygdules	140'0"-145'0"	G64537 trace
	-trace pyrite	145'0"-150'0"	G64539 trace
		↓	
		150'0"-155'0"	G64538 trace
		155'0"-160'0"	G64540 trace
		160'0"-165'0"	G64541 trace
		165'0"-170'0"	G64542 trace
		170'0"-175'0"	G64543 trace
		175'0"-180'0"	G64544 trace
		180'0"-185'0"	G64545 trace
		185'0"-190'0"	G64546 trace
		190'0"-195'0"	G64547 trace
	END OF HOLE AT 207 FEET December 1, 1984.	195'0"-200'0"	G64548 trace
		200'0"-205'0"	G64549 trace
		205'0"-207'0"	G64550 trace

*Ken Lapierre*

Earth Resource Associates  
P.O. BOX 2150. TIMMINS. ONTARIO. P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE  
PROPERTY PUISSANCE  
HOLE NUMBER R-8/84  
GRID REFERENCE 14-20E/2+20S  
TOWNSHIP DELORO CLAIM ME29  
AZIMUTH 0° DIP ANGLE -45°

DRILLING COMPANY Triangle Drilling FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS:  
LOGGED BY Ken Lapierre DATE December 2, 1984

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Bell	W.
0'-7'0"	-drill casing			
7'0"-92'9"	INTERMEDIATE-MAFIC VOLCANIC---Calcite	7'0"-10'0"	G64551	trace
	-contacts: top-undeterminable	10'0"-15'0"	G64552	trace
	- bottom-25° to core axis-possibly FAULT RELATED	15'0"-20'0"	G64553	trace
	-fine grained	20'0"-25'0"	G64554	trace
	-green colour	25'0"-30'0"	G64555	trace
	-abundant alcite alteration	30'0"-35'0"	G64556	trace
	-1-2% chlorite? blebs	35'0"-40'0"	G64557	0.016
	-trace-1% quartz/calcite filled amygdules	40'0"-45'0"	G64558	trace
	-trace pyrite	45'0"-50'0"	G64559	trace
		50'0"-55'0"	G64560	trace
	-55'0"-55'2"-quartz vein-40° to core axis	55'0"-60'0"	G64561	trace
	-non-mineralized	60'0"-65'0"	G64562	trace
		65'0"-70'0"	G64563	trace
	-73'0"-75'0"-abundant ground-possibly FAULT RELATED	70'0"-75'0"	G64564	trace
		75'0"-80'0"	G64565	trace
		80'0"-85'0"	G64566	trace
		85'0"-90'0"	G64567	trace
92'9"-163'0"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite	90'0"-95'0"	G64568	trace
	contacts: top-25° to core axis-possibly FAULT RELATED	95'0"-100'0"	G64569	trace
	bottom-20° to core axis	100'0"-105'0"	G64570	trace
	-fine grained ankerite carbonatization at increasing depths	105'0"-110'0"	G64571	trace
	-trace pyrite	110'0"-115'0"	G64572	trace
		115'0"-120'0"	G64573	trace
		120'0"-125'0"	G64574	0.002

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-8/8A

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			bell	w.
	-125'0"-125'8"-BANDED IRON FORMATION---Siliceous---Sulphide -wall rock characterized by abundant magnetite stringers and bands -contacts-30° to core axis: top -10° to core axis:bottom -5% siliceous material -20% magnetite -2% pyrite associated with magnetite	125'0"-130'0" G64575	trace	
		130'0"-135'0"	G64576	trace
	-129'8"-131'0"-quartz vein-20° to core axis	135'0"-140'0"	G64577	trace
		140'0"-145'0"	G64578	trace
		145'0"-150'0"	G64579	trace
		150'0"-155'0"	G64580	trace
		155'0"-160'0"	G64581	trace
163'0"-- 173'0"	BANDED IRON FORMATION---Siliceous---Sulphide -contacts: top-20° to core axis bottom-30° to core axis -70% siliceous material -10-15% magnetite bands and stringers -dull green alteration within siliceous material -2-3% sulphides associated with magnetite	160'0"-165'0" 165'0"-170'0" 170'0"-175'0"	G64582 G64583 G64584	trace trace trace
173'0"-- 232'6"	INTERMEDIATED-MAFIC VOLCANIC---Ankerite -contacts: top-30° to core axis bottom-20° to core axis -fine-medium grained chlorite blebs? associated with ankerite altered areas -grey green-green colour -1% amygdules partially infilled with pyrite -trace pyrite	175'0"-180'0" 180'0"-185'0" 185'0"-190'0" 190'0"-195'0" 195'0"-200'0" 200'0"-205'0" 205'0"-210'0" 210'0"-215'0" 215'0"-220'0"	G64585 G64586 G64587 G64588 G64589 G64590 G64591 G64592 G64593	trace trace trace trace trace trace trace trace trace
	-220'0"-221'8"-quartz stringer-15° to core axis -trace tourmaline -abundant ankerite alteration proximal to stringer	220'0"-225'0"	G64594	trace

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BeI ASSAYS
232'6"		225'0"-230'0" G64595	trace
306'0"	ANKERITE/QUARTZ/FUCHSITE ZONE	230'0"-232'6" G64596	trace
	-contacts: top-20° to core axis=FAULT RELATED	232'6"-235'0" G64597	0.042
	bottom-20° to core axis=FAULT RELATED		
	-10-15% quartz veins and strigers		
	-5% fuchsite alteration		
	-fine-medium grained ankerite grains		
	-numerous faults		
	-trACE pyrite		
	-232'6"-234'8" abundant fuchsite alteration		
	-2% disseminated pyrite		
	-232'8"-232'11" quartz vein-40° to core axis		
	-trace tourmaline		
	-trace pyrite		
	-232'11"-233'3" 10% quartz patches		
	-1% chalcopyrite		
	-1% pyrite		
	-trACE tourmaline		
	-234'7"-234'8" quartz vein-60° to core axis		
	-trace tormaline/ankerite		
	-trace pyrite		
	-second quartz vein cross-cutting above quartz vein-20° to core axis--fuchsite associated with second vein's contacts		
		235'0"-237'6" G64598	0.006
	-238'10"-239'0" quartz vein-60° to core axis	237'6"-240'0" G64599	trace
	-non-mineralized		
		240'0"-242'6" G64600	0.002
	-242'4"-242'9" quartz vein-30° to core axis	242'6"-245'0" G64601	trace
	-2% ankerite alteration		
	-trace pyrite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER:

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BelAYS
	-244'1"-244'3"-quartz vein 75° to core axis -non-mineralized		
	-244'5"-244'8"-quartz vein-40° to core axis -non-mineralized		
	-246'2"-246'3"-quartz vein-55° to core axis -2% tourmaline/fuchsite alteration -non-mineralized	245'0"-247'6" G64602	0.004
	-246'10"-247'1"-quartz/carbonate vein-30° to core axis -2% tourmaline alteration -non-mineralized		
	-247'8"-247'11"-quartz vein-60° to core axis -non-mineralized	247'6"-250'0" G64603	trace
		250'0"-252'6" G64604	trace
	-253'0"-253'3"-quartz vein-50° to core axis -non-mineralized	252'6"-255'0" G64605	trace
	-254'6"-254'11"-quartz vein-60° to core axis -non-mineralized (1 spec of chalcopyrite)		
	-255'1"-255'4"-quartz vein-75° to core axis -trace tourmaline crystals -non-mineralized	255'0"-257'6" G64606	0.002
	-256'0"-256'2"-quartz vein-70° to core axis -5% ankerite alteration		
	-257'4"-258'2"-cross-cutting quartz veins -trace tourmaline alteration	257'6"-260'0" G64607	trace



EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-3/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Be	W.
	-258'3"-258'5"-ankerite/tourmaline stringer-30° to core axis			
	-258'6"-258'9"-quartz vein-50° to core axis -5% tourmaline alteration -non-mineralized			
	-259'4"-259'5"-quartz veinlet-50° to core axis -non-mineralized			
		260'0"-262'6"	G64608	trace
		262'6"-265'0"	G64609	0.006
	-266'0"-282'6"-FAULT-15° to core axis -CRAIG'S FAULT(probable) -abundant ground -caving of hole (cemented)	265'0"-267'6"	G64610	trace
	-267'10"-268'8"-quartz/carbonate vein-undeterminable contacts -2% tourmaline alteration -trace pyrite	267'6"-270'0"	G64611	0.042
	-271'1"-272'6"-quartz vein-20° to core axis 2% tourmaline patches -2% pyrite proximal to contacts	270'0"-272'6"	G64612	0.006
		272'6"-275'0"	G64613	trace
		275'0"-277'6"	G64614	trace
		277'6"-280'0"	G64615	trace
		280'0"-282'6"	G 64616	trace
	-282'6"-291'2"-highly chloritized wall rock-possibly FAULT RELATED -bottom contact-soft gouge	282'6"-285'0"	G64617	0.002
		285'0"-287'6"	G64618	trace
		287'6"-290'0"	G 4619	trace
	-291'4"-292'0"-quartz vein-undeterminable contacts -non-mineralized	290'0"-292'6"	G64620	trace
	-291'4"-306'0"-wall rock characterized by apparent SHEARING-10° to core axis -15% quartz stringers parallel to shearing-10° to core axis			

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-8/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-294'4"-295'0"-quartz vein-50° to core axis	292'6"-295'0"	G64622 trace
	-ankerite alteration		
	-non-mineralized		
	-295'6"-295'10"-quartz vein-undeterminable contacts	295'0"-297'6"	G64622 0.014
	-trace pyrite		
	-296'0"-306'0"-abundant quartz vein material-apparent orientation parallel to shearing--10-20° to core axis	297'6"-300'0"	G64623 trace
	-trace-1% pyrite	300'0"-302'6"	G64624 trace
	-trace chalcopyrite	302'6"-305'0"	G64625 trace
		305'0"-310'0"	G64626 trace
306'0"- 457'0"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite---Chlorite	310'0"-315'0"	G64627 trace
	-contacts: top-20° to core axis-FAULT RELATED	315'0"-320'0"	G64628 trace
	-bottom-undeterminable	320'0"-325'0"	G64629 trace
	-fine-medium grained ankerite grains	325'0"-330'0"	G64530 trace
	-grey green to green colour	330'0"-335'0"	G64531 0.030
	-abundant chlorite stringers-10-20° to core axis	335'0"-340'0"	G64532 trace
	-abundant ankerite patches	340'0"-345'0"	G64533 0.026
	-trace pyrite		
	-trace amygdules		
	-334'4"-352'0"-highly silicified-ankerite-talc-sheared zone	-345'0"-350'0"	G64634 trace
	-FAULT RELATED	350'0"-355'0"	G64635 trace
	-contacts: top-10° to core axis		
	bottom-10° to core axis		
	-slickenslides common		
	-trace pyrite		
		355'0"-360'0"	G64636 0.012
		360'0"-365'0"	G64637 0.006
		365'0"-370'0"	G64638 trace
		370'0"-375'0"	G64639 0.024
		375'0"-380'0"	G64640 0.004
		380'0"-385'0"	G64641 trace
		385'0"-390'0"	G64642 trace



Earth Resource Associates  
P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE  
PROPERTY PUSSANCE  
HOLE NUMBER P-9/84  
GRID REFERENCE 38+20E/1+20N  
TOWNSHIP DELORO CLAIM ME 21  
AZIMUTH 315° DIP ANGLE -45°

DRILLING COMPANY Triangle Drilling FOREMAN  
CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-45°, 200'/-45°, 300'/-45°, 400'/-43°, 500'/-45°  
LOGGED BY Ken Lapieffe DATE Dec. 9, 1984

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
0'-12'0"	-drill casing		
12'0" -- 89'3"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite		
	-undeterminable contacts	12'0"-15'0"	G64657 trace
	-grey green to green colour	15'0"-20'0"	G64658 trace
	-fine-medium grained ankerite grains	20'0"-25'0"	G64659 trace
	-1% ankerite stringers-30° to core axis	25'0"-30'0"	G64660 trace
	-apparent shearing--locally---25° to core axis	30'0"-35'0"	G64661 trace
	-trace-1% pyrite	35'0"-40'0"	G64662 trace
		40'0"-45'0"	G64663 trace
		45'0"-50'0"	G64664 trace
		50'0"-55'0"	G64665 trace
		55'0"-60'0"	G64666 trace
		60'0"-65'0"	G64667 trace
	-70'0"-70'4"-abundant fuchsite-possibly FAULT RELATED	65'0"-70'0"	G64668 trace
		70'0"-75'0"	G64669 trace
	-77'0"-79'0"-wall rock characterized by fragmented appearance	75'0"-80'0"	G64670 trace
89'3" -- 442'0"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE	80'0"-85'0"	G64671 trace
	-contacts: top-15° to core axis--FAULT RELATED	85'0"-90'0"	G64672 trace
	bottom-15° to core axis--FAULT RELATED		
	-medium grained ankerite grains		
	-grey green colour		
	-10-15% irregular trending quartz and quartz/carbonate stringers		
	-trace fuchsite alteration		
	-trace pyrite		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-9/8

FOOTAGE	DESCRIPTION OF CORE		SAMPLE NUMBER	ASSAYS
	-93'7"-93'11"-quartz vein-30° to core axis -non-mineralized	90'0"-95'0"	G64673	trace
		95'0"-100'0"	G64674	trace
		100'0"-105'0"	G64675	trace
		105'0"-110'0"	G64676	trace
		110'0"-115'0"	G64677	0.002
	-115'0"-118'0"-FAULT-undeterminable contacts -abundant chlorite/serpentine-talc alteration	115'0"-120'0"	G64678	trace
	0420'0"-122'0"-wall rock characterized by 2% disseminated pyrite	120'0"-125'0"	G64679	trace
	-122'1"-122'2"-quartz vein-85° to core axis -non-mineralized			
	-124'4"-128'0"-FAULT--15° to core axis -abundant ground	125'0"-130'0"	G64680	trace
		130'0"-135'0"	G64681	trace
		135'0"-140'0"	G64682	trace
	-144'10"-145'5"-abundant sericite alteration	140'0"-145'0"	G64683	trace
	-148'5"-147'0"-abundant sericite alteration	145'0"-150'0"	G64684	0.002
	-148'2"-148'6"-quartz vein-85° to core axis -non-mineralized			
		150'0"-155'0"	G64685	trace
		155'0"-160'0"	G64686	trace
		160'0"-165'0"	G64687	trace
	-167'4"-167'8"-quartz vein-90° to core axis -non-mineralized	165'0"-170'0"	G64688	trace
	-172'0"-194'2"-STRONG QUARTZ VEIN SYSTEM(75%)			
	-172'0"-172'4"-quartz vein-75° to core axis -non-mineralized	170'0"-172'6"	G64689	trace
		172'6"-175'0"	G64690	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-9/84

FOOTAGE	DESCRIPTION OF CORE		SAMPLE NUMBER	ASSAYS Bell W.
	-176'9"-178'5"-quartz vein-25° to core axis	175'0"-177'6"	G64691	trace
	-trace chlorite alteration			
	-trace tourmaline			
	-trace pyrite			
	-179'5"-179'7"-quartz vein-65° to core axis	177'6"-180'0"	G64692	trace
	non-mineralized			
	-181'8"-188'4"-quartz vein-10° to core axis	180'0"-182'6"	G64693	trace
	-10% volcanic material	182'6"-185'0"	G64694	trace
	-1% tourmaline(patchs & crystals)	185'0"-187'6"	G64695	trace
	-10% ankerite alteration	187'6"-190'0"	G64696	trace
	-trace fuchsite			
	-trace pyrite			
	-			
	-191'1"-191'5"-quartz vein--80° to core axis	190'0"-192'6"	G64697	trace
	-non-mineralized			
	-191'6"-191'7"-quartz vein--80° to core axis			
	-non-mineralized			
	-192'0"-192'1"-quartz vein--80° to core axis			
	-non-mineralized			
	-192'5"-192'8"-quartz veinlet--30° to core axis	192'6"-195'0"	G64698	trace
	-trace tourmaline			
	-non-mineralized			
	-194'0"-194'2"-quartz vein--85° to core AXIS			
	- non-mineralized			
	-196'7"-197'6"-fuchsite alteration-FAULT--30° to core axis	195'0"-197'6"	G64699	trace
		197'6"-200'0"	G64700	trace
		200'0"-205'0"	G64701	trace
		205'0"-210'0"	G64702	trace
		210'0"-215'0"	G64703	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-9/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
		215'0"-220'0"	G64704 trace
		220'0"-225'0"	G64705 trace
		225'0"-230'0"	G64706 trace
		230'0"-235'0"	G64707 trace
	-239'6"-239'7"-quartz vein--45° to core axis	235'0"-240'0"	G64708 trace
	-trace fuchsite		
	-non-mineralized		
	-243'5"-243'7"-quartz/ankerite vein--70° to core axis	240'0"245'0"	G64709 0.020
	-non-mineralized		
	-245'2"-245'6"-quartz vein--45° to core axis	245'0"-250'0"	G64710 trace
	-4% tourmaline		
	-non-mineralized		
	-252'10"-253'10"-quartz veinlet--15° to core axis	250'0"-255'0"	G64711 trace
	-trace fuchsite/siderite		
	-trace pyrite		
	-254'1"-255'0"-quartz/ankerite/fuchsite/tourmaline vein--35° to core axis		
	-trace pyrite		
		255'0"-260'0"	G64712 trace
	-261'0"-282'0"-wall rock characterized by SHEARED appearance--50° to core axis	260'0"-265'0"	G64713 trace
	-quartz/carbonate stringers oriented parallel to shearing	265'0"-270'0"	G64714 trace
	-fuchsite alteration associated with both contacts	270'0"-275'0"	G64715 trace
	-ground present	275'0"-280'0"	G64716 trace
	-trace pyrite	280'0"-285'0"	G64717 trace
		285'0"-290'0"	G64718 trace
		290'0"-295'0"	G64719 trace
		295'0"-300'0"	G64720 trace
	-303'8"-303'10"-quartz vein--80° to core axis	300'0"-305'0"	G64721 trace
	-non-mineralized		
		305'0"-310'0"	G64722 trace
	-311'4"-311'5"-quartz vein--80° to core axis	310'0"-315'0"	G64723 trace
	-non-mineralized		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-9/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-316'4"-316'6"-quartz vein--90° to core axis -non-mineralized	315'0"-320'0" G64724	trace
	-324'0"-324'9"-siderite alteration associated with quartz vein--85° to core axis	320'0"-325'0" G64725	trace
	-326'9"-327'1"-quartz vein--35° to core axis -trace tourmaline crystals -trace pyrite	325'0"-330'0" G64726	trace
	-331'4"-331'8"-quartz/ankerite vein--30° to core axis -non-mineralized	330'0"335'0" G64727	trace
	-340'2"-340'8"-siderite alteration associated with quartz vein-80° to core axis	335'0"-340'0" G64728	trace
		340'0"-345'0" G64729	trace
		345'0"-350'0" G64730	trace
	-355'9"-355'11"-quartz vein--80° to core axis	350'0"-355'0" G64731	trace
	-siderite alteration associated with both contacts	355'0"-360'0" G64732	trace
	-359'7"-360'0"-quartz vein--20° to core axis -trace tourmaline -non mineralized		
		360'0"-365'0" G64733	trace
	-370'0"-370'9"-quartz veinlet-20° to core axis	365'0"-370'0" G64733	trace
	trace tourmaline present	370'0"-375'0" G64735	trace
	-non-mineralized		
	-370'11"-371'11"-quartz vein-irregular trending -2% tourmaline patches & stringers		
	-377'0"-383'0"-abundant chlorite alteration	375'0"-380'0" G64736	trace
	-381'6"-382'2"-irregular trending quartz vein -3% tourmaline alteration -non-mineralized	380'0"-385'0" G64737	trace



EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-9/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Beil w.
		385'0"-390'0"	G64738 0.002
		390'0"-395'0"	G64739 trace
	-395'4"-396'1"-quartz vein-20° to core axis -non-mineralized	395'0"-400'0"	G64740 trace
	-395'10"-395'11"-quartz vein--90° to core axis -non-mineralized		
	-402'0"-402'8"-quartz vein-20° to core axis -trace fuchsite associated with both contacts -trace pyrite	400'0"-405'0"	G64741 0.014
		405'0"-410'0"	G64742 trace
		410'0"-415'0"	G64743 trace
	-419'0"-420'0"-irregular trending quartz stringers -trace fuchsite -trace pyrite	415'0"-420'0"	G64744 trace
		420'0"-425'0"	G64745 trace
		425'0"-430'0"	G64746 trace
		430'0"-435'0"	G64747 trace
	-436'8"-437'2"-quartz vein--20° to core axis -fuchsite/tourmaline alteration	435'0"-437'6"	G64748 trace
	-439'0"-442'0"-abundant fuchsite alteration-FAULT RELATED -1-2% fine grained disseminated pyrite	437'6"-440'0"	G64749 trace
		440'0"-442'6"	G64750 trace
442'0"- 517'0"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite -contacts: top-15° to core axis-FAULT RELATED bottom-undeterminable -fine-medium grained ankerite grains -grey green to green colour -trace-1% disseminated pyrite -trace chalcopyrite	442'6"-445'0"	G64750 trace
	-446'3"-446'6"-quartz veinlet--25° to core axis -non-mineralized	445'0"-447'6"	G64752 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-9/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
			Bell W.
	-447'7"-448'4"-quartz vein--20° to core axis -10% chlorite/ankerite alteration	447'6"-450'0"	G64753 trace
	-448'7"-449'5"-ground--possibly FAULT RELATED		
	-449'7"-451'1"-quartz vein--20° to core axis -non-mineralized	450'0"-452'6"	G64754 trace
		452'6"-455'0"	G64755 trace
	-455'0"-455'7"-quartz vein--20° to core axis -brecciated appearance--volcanic material -5% fuchsite alteration -trace pyrite	455'0"-457'6"	G64756 trace
		457'6"-460'0"	G64757 trace
	-462'3"-462'6"-quartz veinlet--20° to core axis -ankerite alteration associated with both contacts -trace pyrite	460'0"-465'0"	G64758 trace
	-464'2"-464'10"-quartz vein--20° to core axis -non-mineralized		
		465'0"-470'0"	G64759 trace
		470'0"-475'0"	G65760 trace
	-479'4"-480'0"-quartz vein--20° to core axis -10% chlorite alteration -3% pyrite associated with both contacts -trace chalcopyrite	475'0"-480'0"	G64761 trace
		480'0"-485'0"	G64762 trace
		485'0"-490'0"	G64763 trace
	-490'2"-490'10"-quartz vein--15° to core axis -trace pyrite	490'0"-495'0"	G64764 trace
	-493'4"-494'0"-FAULT--15° to core axis -abundant serpentine-talc/chlorite alteration		
		495'0"-500'0"	G64765 trace
		500'0"-505'0"	G64766 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-9/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-507'0"-507'3"-quartz vein--45° to core axis -trace tourmaline alteration -trace pyrite	505'0"-510'0" 664767	trace
	-509'6"-509'7"-quartz stringer--50° to core axis -3% pyrite associated with both contacts	510'0"-515'0" 515'0"-517'0" 664768 664769	trace trace
END OF HOLE AT 517 FEET		December 9, 1984	
<i>K. Lapierre</i>			

Earth Resource Associates  
 P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

# DIAMOND DRILL LOG

PAGE  
 PROPERTY PUISSANCE  
 HOLE NUMBER P-10/84  
 GRID REFERENCE 36+23E/2+80N  
 TOWNSHIP DELORO CLAIM ME 21  
 AZIMUTH 130° DIP ANGLE -45°

DRILLING COMPANY Triangle Drilling FOREMAN  
 CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: 100'/-45°, 200'/-45°, 300'/-45°  
 LOGGED BY Ken Lapierre DATE December 11, 1984

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
0-10'0"	-drill casing		Bell W.
10'0"-- 21'1"	INTERMEDIATE-MAFIC VOLCANIC---Ankerite -contacts: top-undeterminable bottom-55° to core axis -medium grained ankerite grains-generally oriented 55° to core axis -grey green colour -trace pyrite		
	-10'0"-12'0"-minor amounts(15%) of siliceous fragmented material	10'0"-15'0" 15'0"-20'0"	trace trace
21'1"-- 25'8"	IRON FORMATION---Magnetite---Non-banded -contacts: top-55° to core axis bottom-50°to core axis -both contacts characterized by siliceous material, 5% pyrite/ pyrrhotite mineralization and trace amounts of chalcopyrite -95% massive magnetite -Iron Formation characterized by an apparent "layering" appearance- 50° to core axis	20'0"-25'0"	trace
25'8"-- 58'4"	ACID FRAGMENTAL---Pyroclastic -contacts; top-50°to core axis bottom-50° to core axis -70% siliceous fragmented material--subrounded appearance with preferred orientation---50° to core axis	25'0"-30'0" 30'0"-35'0"	trace trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-10/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	Beil ASSAYS
	-fine grained fragments grade into coarser grained fragments at increasing depths		
	-fine grained chloritic matrix--slightly carbonated		
	-1-5% pyrite/pyrrhotite associated within matrix		
	-38'7"-39'2"-quartz vein--50° to core axis	35'0"-40'0"	G64775 trace
	-non-mineralized		
		40'0"-45'0"	G64776 trace
		45'0"-50'0"	G64777 trace
		50'0"-55'0"	G64778 trace
	-57'6"-57'7"-quartz vein--undeterminable contacts	55'0"-60'0"	G64779 trace
	non-mineralized		
58'4"--			
143'9"	INTERMEDIATE-MAFIC VOLCANIC---Chlorite---Calcite---Ankerite	60'0"-65'0"	G64780 trace
	-contacts: top-50° to core axis	65'0"-70'0"	G64781 trace
	bottom-50° to core axis--FAULT RELATED	70'0"-75'0"	G64782 trace
	-fine-medium grained	75'0"-80'0"	G64783 trace
	-green colour	80'0"-85'0"	G64784 trace
	-locally, ankerite grains--60° to core axis	85'0"-90'0"	G64785 trace
	-abundant chlorite alteration		
	-trace pyrite		
		90'0"-95'0"	G64786 0.002
	-95'3"-95'5"-quartz vein--60° to core axis	95'0"-100'0"	G64787 trace
	-non-mineralized		
	-95'10"-96'1"-quartz vein--40° to core axis		
	-trace tourmaline alteration		
	-non-mineralized		
		100'0"-105'0"	G64788 trace
	-108'0"-115'0"-wall rock characterized by "layered" appearance	105'0"-110'0"	G64789 trace
	-abundant chlorite/carbonate alteration	110'0"-115'0"	G64790 trace
	-highly carbonated		
		115'0"-120'0"	G64791 trace
	-124'6"-124'7"-quartz veinlet--60° to core axis	120'0"-125'0"	G64792 trace
	-non-mineralized		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-10/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
		125'0"-130'0"	trace
		130'0"-135'0"	trace
		135'0"-140'0"	trace
143'9"-- 220'6"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE -contacts: top-50° to core axis--FAULT RELATED bottom-undeterminable -medium grained ankerite grains -grey green colour -15% quartz & quartz/ankerite stringers -trace-1% fuchsite alteration -3% siderite alteration -trace pyrite	140'0"-145'0"	trace
	-147'4"-147'6"-quartz vein--45° to core axis -2% tourmaline alteration -non-mineralized	145'0"-150'0"	trace
	-148'1"-148'7"-quartz vein--undeterminable contacts 2% tourmaline alteration -trace fuchsite -trace pyrite		
	-150'9"-152'2"-fuchsite/chlorite alteration--50° to core axis -FAULT	150'0"-155'0"	0.002
	-153'0"-151'0"-abundant siderite alteration	155'0"-160'0"	trace
	-156'6"-157'4"-FAULT-40° to core axis -soft gouge present		
	-165'8"-166'0"-ankerite/quartz vein--45° to core axis -non-mineralized	160'0"-165'0" 165'0"-170'0"	trace trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG.

PROPERTY: Puissance

HOLE NUMBER: P-10/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	BelAYSAYS
	-167'6"-167'9"-quartz veinlet--45° to core axis -non-mineralized		
	-169'4"-169'7"-quartz vein--45° to core axis -non-mineralized		
	-170'3"-170'8"-quartz vein--40° to core axis -trace fuchsite alteration -non-mineralized	170'0"-175'0" G64802	t ce
	-175'5"-175'8"-quartz vein--50° to core axis -2% tourmaline associated with both contacts -non-mineralized	175'0"-180'0" G64803	trace
	-183'0"-183'3"-quartz vein--40° to core axis -trace tourmaline -non-mineralized	180'0"-185'0" G64804	trace
	-187'6"-194'0"-wall rock characterized by increase in chlorite alteration and decrease in ankerite and quartz veining -bottom contact: 85° to core axis--FAULT RELATED with fuchsite/ chlorite alteration	185'0"-190'0" 190'0"-195'0" G64805 G64806	trace trace
	-198'0"-204'0"-10% quartz veining/fuchsite-siderite alteration and trace pyrite	195'0"-200'0" 200'0"-205'0" G64807 G64808	trace trace
	-202'5"-202'7"-quartz /ankerite vein--60° to core axis - non-mineralized	205'0"-210'0" 210'0"-215'0" 215'0"-220'0" G64809 G64810 G64811	0.002 trace 0.002
220'6"-- 367'0"	INTERMEDIATE-MAFIC VOLCANIC---Calcite---Chlorite -undeterminable contacts -fine grained -green colour	220'0"-225'0" 225'0"-230'0" 230'0"-235'0" 235'0"-240'0" G64812 G64813 G64814 G64815	trace trace trace trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-10/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-highly carbonated	240'0"-245'0"	G64816 trace
	-2% calcite stringers--45-90° to core axis	245'0"-250'0"	G64817 0.002
	-trace amounts of quartz filled amygdules	250'0"-255'0"	G64818 trace
	-trace pyrite	255'0"-260'0"	G64819 trace
		260'0"-265'0"	G64820 trace
		265'0"-270'0"	G64821 trace
		270'0"-275'0"	G64822 trace
		275'0"-280'0"	G64823 trace
		280'0"-285'0"	G64824 trace
	-287'0"-367'0"-wall rock characterized by 2% calcite stringers	285'0"-290'0"	G64825 trace
	-trace amounts of quartz filled	290'0"-295'0"	G64826 trace
		295'0"-300'0"	G64827 trace
		300'0"-305'0"	G64828 trace
		305'0"-310'0"	G64829 trace
		310'0"-315'0"	G64830 trace
		315'0"-320'0"	G64831 trace
		320'0"-325'0"	G64832 trace
		325'0"-330'0"	G64823 trace
		330'0"-335'0"	G64834 trace
		335'0"-340'0"	G64835 trace
		340'0"-345'0"	G64836 trace
		345'0"-350'0"	G64837 trace
		350'0"-355'0"	G64838 trace
		355'0"-360'0"	G64839 trace
		360'0"-365'0"	G64840 trace
		365'0"-367'0"	G64842 trace
END OF HOLE AT 367 FEET. December 11, 1984			
<i>Ken Lapierre</i>			



Earth Resource Associates  
 P.O. BOX 2150, TIMMINS, ONTARIO, P4N 7X8 CANADA

DIAMOND DRILL LOG

PAGE  
 PROPERTY PUISSANCE  
 HOLE NUMBER R-11/84  
 GRID REFERENCE 38+00E/8+00N  
 TOWNSHIP DELORO CLAIM ME20  
 AZIMUTH 160° DIP ANGLE -45°

DRILLING COMPANY Triangle Drilling FOREMAN  
 CORE SIZE BQ CORE STORED AT: Coreshack

DIP TESTS: (100', 200', 300') -45°, 400' / -48°, 500' / -50°, 600' / -  
 700' / -49°, 1000' / -46°  
 LOGGED BY Ken Lapierre DATE December 16, 1984.

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
0--10'0"	-drill casing		Bel w.
10'0"-- 182'0"	INTERMEDIATE-MAFIC VOLCANIC---Chlorite---Calcite---Ankerite -contacts: top undeterminable bottom-undeterminable-FAULT RELATED -fine grained -green colour -1% irregular trending calcite stringers -trace amounts of quartz/carbonate filled amygdulies -trace pyrite	10'0"-15'0" G64851	trace
	-18'3"-18'6"-quartz vein--30° to core axis -trace tourmaline -trace pyrite	15'0"-20'0" G64852	trace
	-19'1"-19'3"-FAULT--30° to core axis -abundant chlorite carbonate alteration		
	-21'1"-21'4"-quartz vein--undeterminable contacts -chlorite alteration -non-mineralized	20'0"-25'0" G64853	trace
	-22'2"-22'8"-quartz vein--20° to core axis -5% chlorite alteration -trace pyrite		

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-23'1"-23'4"-quartz vein-undeterminable contacts -non-mineralized		Bell W.
		25'0"-30'0"	G64854 trace
		30'0"-35'0"	G64855 trace
		35'0"-40'0"	G64856 trace
		40'0"-45'0"	G64857 trace
		45'0"-50'0"	G64858 trace
		50'0"-55'0"	G64859 trace
		55'0"-60'0"	G64860 trace
		60'0"-65'0"	G64861 trace
		65'0"-70'0"	G64862 trace
		70'0"-75'0"	G64863 trace
		75'0"-80'0"	G64864 trace
		80'0"-85'0"	G64865 trace
		85'0"-90'0"	G64866 trace
		90'0"-95'0"	G64867 trace
	-95'3"-95'4"-carbonate/chlorite vein--75° to core axis -possibly FAULT RELATED -2% pyrite	95'0"-100'0"	G64868 trace
		100'0"-105'0"	G64869 trace
	-106'0"-116'0"-wall rock characterized by soft medium grained green grains- possibly chlorite	105'0"-110'0"	G64870 trace
		110'0"-115'0"	G64871 trace
		115'0"-120'0"	G64872 trace
	-122'0"-122'5"-possible FAULT-undeterminable contacts -abundant chlorite alteration -1% medium coarse grained pyrite	120'0"-125'0"	G64873 trace
		125'0"-130'0"	G64874 trace
		130'0"-135'0"	G64875 trace
		135'0"-140'0"	G64876 trace
		140'0"-145'0"	G64877 trace
	-145'7"-147'0"-abundant ground-possibly FAULT RELATED	145'0"-150'0"	G64878 trace
		150'0"-155'0"	G64879 trace
		155'0"-160'0"	G64780 trace
		160'0"-165'0"	G64881 trace
		165'0"-170'0"	G64882 trace
	-154'6"-154'9"-quartz/carbonate vein--40° to core axis		

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/84

FOOTAGE	DESCRIPTION OF CORE		SAMPLE NUMBER	ASSAYS Bell W.
	-170'4"-170'8"-quartz vein-25° to core axis -trace pyrite	170'0"-175'0"	G64883	trace
	-177'0"-182'0"-increase in ankerite/chlorite alteration	175'0"-180'0"	G64884	trace
182'0"-- 237'5"	ANKERITE/CHLORITE ALTERATION ZONE -contacts: top-undeterminable-probably FAULT RELATED bottom-undeterminable -coarse grained ankerite grains oriented 70° to core axis -possible SHEARING--70° to core axis -60% chlorite/serpentine? alteration -1% ankerite veining--cross-cutting and parallel to shearing -trace siderite alteration -trace pyrite	180'0"-185'0" 185'0"-190'0" 190'0"-195'0" 195'0"-200'0" 200'0"-205'0" 205'0"-210'0" 210'0"-215'0" 215'0"-220'0"	G64885 G64886 G64887 G64888 G64889 G64880 G64891 G64892	trace trace trace trace trace trace trace trace
	-222'0"-224'0"-siderite alteration replacing ankerite grains?	220'0"-225'0"	G64893	trace
	-232'0"-233'0"-siderite alteration replacing ankerite grains?	225'0"-230'0" 230'0"-235'0"	G64894 G64895	0.002 trace
237'5"-- 310'0"	INTERMEDIATE VOLCANIC---Ankerite -undeterminable contacts -fine grained grey colour -slightly carbonated -trace-1% disseminated pyrite	235'0"-240'0"	G64896	trace
	-240'8"-246'0"-25 irregular trending quartz stringers	240'0"-245'0" 245'0"-250'0"	G64897 G64898	trace trace
	-247'8"-247'11"-quartz vein-40° to core axis -non-mineralized	250'0"-255'0" 255'0"-260'0"	G64899 G64900	trace trace

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bell W.
	-260'2"-260'10"-ankerite/quartz vein-undeterminable contacts -2% pyrite stringers--90° to core axis	260'0"-265'0" G64901	trace
	-262'8"-264'4"-2% pyrite stringers--85° to core axis	265'0"-270'0" G64902	trace
	-279'5"-282'0"-wall rock characterized by fragmented siliceous material -5% pyrite stringers--70° to core axis	270'0"-275'0" G64903	trace
	-5% pyrite associated with chloritic matrix	275'0"-280'0" G64904	trace
		280'0"-285'0" G64905	trace
		285'0"-290'0" G64906	trace
	-297'2"-297'10"-quartz vein--undeterminable contacts	290'0"-295'0" G64907	trace
	-2% pyrrhotite associated with 10% chlorite alteration	295'0"-300'0" G64908	trace
	-297'10"-310'0"-wall rock characterized by pervasive fine grained calcite alteration		
		300'0"-305'0" G64909	trace
		305'0"-310'0" G64910	trace
310'0"--			
368'0"	FRAGMENTAL---Calcite---Acid Pyroclastic		
	-gradational contacts	310'0"-315'0" G64911	trace
	-grey green colour (siliceous)	315'0"-320'0" G64912	trace
	-fine grained fragments grade into coarse grained siliceous fragments	320'0"-325'0" G64913	trace
	at increasing depths	325'0"-330'0" G64914	trace
	-pervasive calcite alteration within matrix	330'0"-335'0" G64915	trace
	-chlorite matrix	335'0"-340'0" G64916	trace
	-trace-2% pyrite/pyrrhotite associated within matrix	340'0"-345'0" G64917	trace
		345'0"-350'0" G64918	trace
		350'0"-355'0" G64919	trace
368'0"--		355'0"-360'0" G64920	trace
412'6"	INTERMEDIATE-MAFIC VOLCANIC---Calcite---Chlorite	360'0"-365'0" G64921	trace
	-contacts: top-gradational	365'0"-370'0" G64922	trace
	bottom-undeterminable	370'0"-375'0" G64923	trace
	-fine grained grey green-green colour	375'0"-380'0" G64924	trace
	-pervasive calcite alteration	380'0"-385'0" G64925	trace
	-locally; calcite grains with preferred orientation--60° to core axis	385'0"-390'0" G64926	trace
	-trace pyrite	390'0"-395'0" G64927	trace
		395'0"-400'0" G64928	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/8

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	400'0"-412'6"-decrease in calcite pervasiveness	400'0"-405'0" 405'0"-410'0"	Bell W. trace trace
412'6" 415'0"	QUARTZ/ANKERITE/FUCHSITE VEIN -contacts: top-60° to core axis bottom-60° to core axis -trace tourmaline -trace pyrite	410'0"-412'6" 412'6"-415'0"	G64929 G64930 G64931 G64932 trace trace
415'0" 474'0"	INTERMEDIATE VOLCANIC---Tuff?? contacts: top-60° to core axis bottom-undeterminable -fine grained grey green colour -1% irregular tredding quartz/ankerite stringers -trace-1% pyrite	415'0"-420'0"	G64933 trace
	-422'0"-422'6"-quartz/ankerite vein-undeterminable contacts -trace pyrite	420'0"-425'0"	G64934 trace
	-428'9"-428'11"-quartz/ankerite vein-undeterminable contacts -2% pyrite associated with contacts	425'0"-430'0"	G64935 trace
	-438'0"-438'3"-quartz veinlet-40° to core axis -trace-1% pyrite associated along both contacts	430'0"-435'0" 435'0"-440'0"	G64936 G64937 trace trace
		440'0"-445'0" 445'0"-450'0" 450'0"-455'0" 455'0"-460'0"	G64938 G64939 G64940 G64941 trace trace trace trace
	-457'5"-457'6"-quartz/carbonate vein--55° to core axis -trace tourmaline -trace pyrite		
	-461'6"-461'10"-quartz veinlet--60° to core axis -non-mineralized	460'0"-465'0" 465'0"-470'0"	G64942 G64943 trace trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/81

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS Bellw.	
	-471'0"-471'4"-quartz vein--30° to core axis	470'0"-475'0"	G64944	trace
	-5% tourmaline/talc alteration			
	-2% pyrite			
474'0"-- 510'9"	ANKERITE?/quartz/FUCHSITE ALTERATION ZONED	475'0"-480'0"	G64945	trace
	-contacts: top-undeterminable	480'0"-485'0"	G64946	trace
	bottom-70° to core axis--FAULT RELATED	485'0"-490'0"	G64947	trace
	-Alteration Zone possibly within Tuffaceous Unit	490'0"-495'0"	G64948	trace
	-fine-mediumgrained	495'0"-500'0"	G64949	trace
	-ggy green colour	500'0"-505'0"	G64950	trace
	-10% quartz and quartz/carbonate stringers--45-90° to core axis	505'0"-510'0"	G64951	trace
	-fuchsite alteration associated with both fault related contacts	510'0"-515'0"	G64952	trace
	-trace pyrite/chalcopyrite			
510'9"-- 742'7"	MAFIC VOLCANIC---Chlorite---Calcite	515'0"-520'0"	G64953	trace
	-contacts: top-70° to core axis--FAULT RELATED			
	bottom-75° to core axis--FAULT RELATED			
	-fine grained			
	-green-dark green colour			
	-slightly to moderately carbonated			
	-1% irregular trending calcite stringers			
	-trace pyrite			
	-524'9"-525'5"-quartz vein--30° to core axis	520'0"-525'0"	G64954	trace
	-5-10% ankerite alteration	525'0"-530'0"	G64955	trace
	-2% chlorite alteration			
	-trace tourmaline patches			
	-fuchsite alteration associated with both contacts			
	-trace pyrite associated with fuchsite			
		530'0"-535'0"	G64956	trace
		535'0"-540'0"	G64957	trace
		540'0"-545'0"	G64958	trace
		545'0"-550'0"	G64959	trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-551'8"-551'11"-epidote/calcite/quartz stringer--25° to core axis -non-mineralized	550'0"-555'0" G64960	trace
		555'0"-560'0" G64961	trace
		550'0"-565'0" G64962	trace
	-569'0"-569'6"-quartz veinlet--25° to core axis -trace chlorite/calcite alteration	565'0"-570'0" G64963	trace
	-570'3"-570'7"-quartz vein--30° to core axis -2% RHODOCROSITE alteration -non-mineralized	570'0"-575'0" G64964	trace
		575'0"-580'0" G64965	trace
		580'0"-585'0" G64966	trace
		585'0"-590'0" G64967	trace
		590'0"-595'0" G64968	trace
		595'0"-600'0" G64969	trace
		600'0"-605'0" G64970	trace
		605'0"-610'0" G64971	trace
		610'0"-615'0" G64972	trace
		615'0"-620'0" G64973	trace
		620'0"-625'0" G64974	trace
		625'0"-630'0" G64975	0.004
		630'0"-635'0" G64976	0.002
		635'0"-640'0" G64977	trace
		640'0"-645'0" G64978	trace
		645'0"-650'0" G64979	trace
		650'0"-655'0" G64980	trace
	-655'0"-655'8"-ground--possibly FAULT RELATED	655'0"-660'0" G64981	trace
		660'0"-665'0" G64982	trace
	-669'10"-670'0"-quartz vein--70° to core axis -trace pyrite	665'0"-670'0" G64983	trace
		670'0"-675'0" G64984	trace
		675'0"-680'0" G64985	trace
		680'0"-685'0" G64986	trace
		685'0"-690'0" G64987	trace
		690'0"-695'0" G64988	trace
		695'0"-700'0" G64989	trace

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
			Bel W.
		700'0"-705'0"	G64990 trace
		705'0"-710'0"	G64991 trace
		710'0"-715'0"	G64992 trace
	-715'0"-724'0"-wall rock characterized by 5-10% medium grained ankerite grains	715'0"-720'0"	G64993 trace
		720'0"-725'0"	G64994 trace
	-715'11"-715'4"-quartz vein-undeterminable contacts -chlorite alteration -non-mineralized		
	-716'0"-716'11"-quartz vein-undeterminable contacts -non-mineralized		
	-717'3"-717'6"-quartz vein--undeterminable contacts -non-mineralized		
	-718'11"-719'11"-quartz vein--70° to core axis -chlorite alteration -non-mineralized		
	-721'10"-722'3"-quartz vein-undeterminable contacts -volcanic material within vein -trace pyrite		
		725'0"-730'0"	G64995 trace
	-730'0"-731'5"-quartz vein--60° to core axis -10% volcanic material -2% ankerite alteration -non-mineralized	730'0"-735'0"	G64996 trace
	-732'0"-732'3"-quartz vein--70° to core axis -non-mineralized		
	-735'8"-735'9"-quartz veinlet-50° to core axis -non-mineralized	735'0"-740'0"	G64997 trace



FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
	-736'5"-736'8"-quartz vein--45° to core axis -non-mineralized		Bell W.
	-739'10"-740'0"-quartz vein--70° to core axis -non-mineralized		
	-740'3"-740'6"-quartz/ankerite vein-50° to core axis -non-mineralized	740'0"-745'0"	G64998 trace
742'8"-- 810'4"	ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE---Chlorite -contacts: top-75. to core axis-FAULT RELATED bottom-undeterminable -medium-coarse grained ankerite grains -grey green colour -chlorite alteration increases at increasing depths -10-15% quartz and quartz/ankerite stringers-irregular trending -trace pyrite		
	-742'7"-743'2"-fuchsite alteration associated with fault related upper contact -trace pyrite		
	-745'0"-745'3"-fuchsite alteration	745'0"-750'0"	G64999 trace
	-747'9"-747'11"-quartz vein--45° to core axis -non-mineralized		
	-747'10"-748'5"-quartz vein--25° to core axis -non-mineralized		
	-749'10"-750'0"-quartz veinlet-15°-25° to core axis -trace tourmaline -trace pyrite		
	-749'9"-750'4"-quartz veinlet--20° to core axis -non-mineralized	750'0"-755'0"	G65000 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS
			Bell W.
	-751'8"-752'2"-quartz vein--30° to core axis -tourmaline/fuchsite alteration -non-mineralized		
	-751'8"-754'0"-apparent SHEARING of wall rock--60° to core axis -quartz/ankerite veins oriented parallel to shear planes -quartz vein oriented subparallel to shear planes		
	-754'0"-800'0"-Alteration Zone characterized by abundant chlorite	755'0"-760'0"	G65001 trace
		760'0"-765'0"	G65002 trace
		765'0"-770'0"	G65003 trace
		770'0"-775'0"	G65004 trace
		775'0"-780'0"	G65005 trace
		780'0"-785'0"	G65006 trace
		785'0"-790'0"	G65007 trace
		790'0"-795'0"	G65008 trace
		795'0"-800'0"	G65009 trace
		800'0"-805'0"	G65010 trace
		805'0"-810'0"	G65011 trace
810'4"--		810'0"-815'0"	G65012 trace
849'6"	INTERMEDIATE VOLCANIC---SILICIFIED---Calcite -contacts: top-undeterminable bottom-50° to core axis -fine grained, grey green colour -2% irregular trending calcite stringers -trace pyrite	815'0"-820'0"	G65013 trace
		820'0"-825'0"	G65014 trace
		825'0"-830'0"	G65015 trace
		830'0"-835'0"	G65016 trace
		835'0"-840'0"	G65017 trace
		840'0"-845'0"	G65018 trace
849'6"--			
854'6"	HIGHLY SILICEOUS IRON FORMATION -contacts: top-50° to core axis bottom-70° to core axis -85% siliceous material -5% irregular trending magnetite stringers -5% chlorite/epidote? alteration -5% pyrite/pyrrhotite associated with alteration material and magnetite bands	845'0"-850'0"	G65019 trace
		850'0"-855'0"	G65020 trace

EARTH RESOURCE ASSOCIATES: DIAMOND DRILL LOG. PROPERTY: Puissance

HOLE NUMBER: P-11/84

FOOTAGE	DESCRIPTION OF CORE	SAMPLE NUMBER	ASSAYS	
			Be	W.
	-trace chalcopyrite			
854'6"- 1000'0"	INTERMEDIATE VOLCANIC---Silicified---Calcite	855'0"-860'0"	G65021	trace
	-contacts: top-70° to core axis	860'0"-865'0"	G65022	trace
	- bottom-undeterminable			
	-fine grained, grey green colour			
	-trace amounts of medium grained ankerite grains			
	-trace-2% quartz and quartz/carbonate filled amygdules			
	-1% Irregular trending calcite stringers			
	-trace pyrite			
	-866'2"-866'9"-quartz vein-undeterminable contacts	865'0"-870'0"	G65023	trace
	-1% pyrite stringers associated with chlorite stringers			
		870'0"-875'0"	G65024	trace
		875'0"-880'0"	G65025	trace
	-880'2"-880'6"-quartz/calcite veinlet--40° to core axis	880'0"-885'0"	G65026	trace
	-trace pyrite			
	-889'3"-889'5"-quartz/carbonate vein--45° to core axis	885'0"-890'0"	G65027	trace
	-non-mineralized			
		890'0"-895'0"	G65028	trace
		895'0"-900'0"	G65029	trace
		900'0"-905'0"	G65030	trace
		905'0"-910'0"	G65031	trace
	-912'3"-912'8"-ground-possibly FAULT RELATED	910'0"-915'0"	G65032	trace
	-917'0"-917'6"-ground-possibly FAULT RELATED	915'0"-920'0"	G65033	trace
		920'0"-925'0"	G65034	trace
	-928'4"-929'7"-carbonate/chlorite vein--25° to core axis	925'0"-930'0"	G65035	trace
	-934'9"-934'10"-quartz veinlet--50° to core axis	930'0"-935'0"	G65036	trace
		935'0"-940'0"	G65037	trace
	-940'4"-940'9"-ground-possibly FAULT RELATED	940'0"-945'0"	G65038	trace
		945'0"-950'0"	G65039	trace
		950'0"-955'0"	G65040	trace



# DIAMOND DRILL LOG

PAGE  
 PROPERTY PUISSANCE  
 HOLE NUMBER P-12/84  
 GRID REFERENCE 15+00E/16+00S  
 TOWNSHIP DELORO CLAIM M.E. 30  
 AZIMUTH 150° DIP ANGLE -45°

DRILLING COMPANY TRIANGLE FOREMAN  
 CORE SIZE BQ CORE STORED AT: Coreshack  
 DIP TESTS:  
 LOGGED BY Ken Lapierre DATE Dec./Jan./85

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
0-26'	drill casing		
26'-	INTERMEDIATE TO MAFIC VOLCANIC- Calcite = Chlorite	26'- 30'	G65051
410'	-undeterminable contacts	30'-35'	G65052
	-fine to medium grained	35'- 40'	65053
	-grey green to green colour	40'- 45'	65054
	-moderately to highly carbonated	45'- 50'	65055
	-trace to 2% chlorite blebs-no preferred orientation	50'- 55'	65056
	-trace amounts of irregular trending carbonate stringers	55'- 60'	65057
	-trace fine grained subhedral disseminated pyrite	60'- 65'	65058
	-	65'- 70'	65059
	-76'6"-76'7" -calcite veinlet -45° to core axis	70'- 75'	65060
	-non-mineralized	75'- 80'	65061
		80'- 85'	65062
		85'- 90'	65063
	-94'8"-94'10" -quartz vein -40° to core axis	90'- 95'	65064
	-non-mineralized		
		95'-100'	65065
		100'-105'	65066
	-106'10"-107'1" -carbonate veinlet -15° to core axis	105'-110'	65067
	-non-mineralized		
		110'-115'	65068
		115'-120'	65069
	-122'-130' -1% quartz/carbonate filled amygdules	120'-125'	65070
	-subrounded	125'-130'	65071
	-1/8" to 1/4" diameter		
	-non-mineralized		
		130'-135'	65072

KL

DIAMOND DRILL LOG. PROPERTY: PUISSANCE

HOLE NUMBER: P-12/84

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
		135'-140'	G65073
		140'-145'	65074
		145'-150'	65075
-150'5"-150'6"	-quartz/calcite veinlet -70° to core axis -non-mineralized	150'-155'	65076
		155'-160'	65077
		160'-165'	65078
		165'-170'	65079
-172'2"-172'5"	-10% medium grained euhedral pyrite	170'-175'	65080
		175'-180'	65081
		180'-185'	65082
-187'-188'	-Fault Seam or possible sludge	185'-190'	65083
		190'-195'	65084
		195'-200'	65085
		200'-205'	65086
-209'9"-210'	-Calcite vein -undeterminable contacts -non-mineralized	205'-210'	65087
		210'-215'	65088
		215'-220'	65089
		220'-225'	65090
		225'-230'	65091
		230'-232'6"	65092
-234'-247'6"	-volcanic material characterized by 5-10% medium grained to coarse grained subhedral to euhedral pyrite-disseminated and with preferred orientation -45° to core axis	232'6"-235'	65093
		235'-237'6"	65094
		237'6"-240'	65095
		240'-242'6"	65096
		242'6"-245'	65097
		245'-247'6"	65098
-247'6"-250'	-IRON FORMATION -5% pyrrhotite/pyrite/chalcopyrite-preferred orientation 45° to core axis -contacts -45° to core axis	247'6"-250'	65099
		250'-252'6"	65100
		252'6"-255'	65101
		255'-260'	65102
		260'-265'	65103

DIAMOND DRILL LOG. PROPERTY: PUISSANCE

HOLE NUMBER: P-12/84

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
		265'-270'	G65104
		270'-275'	65105
		275'-280'	65106
		280'-285'	65107
		285'-290'	65108
		290'-295'	65109
-297'-317'	-moderate amount of ground -possible FAULT ZONE	295'-300'	65110
		300'-305'	65111
		305'-310'	65112
		310'-315'	65113
		315'-320'	65114
		320'-325'	65115
		325'-330'	65116
		330'-335'	65117
		335'-340'	65118
		340'-345'	65119
		345'-350'	65120
-355'-356'	-5-10% medium to coarse grained -disseminated and 45° preferred orientation	350'-355'	65121
		355'-357'6"	65122
		357'6"-360'	65123
-360'-410'	-wall rock characterized by a fine grained tuffaceous appearance -probable tuff?	360'-365'	65124
		365'-370'	65125
		370'-375'	65126
		375'-380'	65127
		380'-385'	65128
		385'-390'	65129
		390'-395'	65130
		395'-400'	65131
		400'-405'	65132
		405'-410'	65133
410'- 537'	-INTERMEDIATE to MAFIC VOLCANIC - Ankerite - Chlorite - Fuchsite -undeterminable contacts -grey to grey green colour -fine grained appearance -2-5% chlorite blebs -apparent orientation 50° to 70° to core axis	410'-415'	65134
		415'-420'	65135
		420'-425'	65136
		425'-430'	65137
		430'-435'	65138
		435'-440'	65139

DIAMOND DRILL LOG. PROPERTY: PUISSANCE

HOLE NUMBER: P-12/84

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
	-1 % fine grained fuchsite blebs-50%-70% to core axis	440'-445'	G65140
	-minor amounts (up to 1%) of irregular trending quartz stringers	445'-450'	G65141
		450'-455'	G65142
	-trace to 2% fine grained disseminated euhedral pyrite	455'-460'	65143
		460'-465'	65144
		465'-470'	65145
		470'-475'	65146
		475'-480'	65147
		480'-485'	65148
		485'-490'	65149
		490'-495'	65150
		495'-500'	65151
		500'-505'	65152
		505'-510'	65153
		510'-515'	65154
		515'-520'	65155
		520'-525'	65156
		525'-530'	65157
		530'-535'	65158
537'-	-INTERMEDIATE to MAFIC VOLCANIC - Calcite - Chlorite	535'-540'	65159
590'	-undeterminable contacts	540'-545'	65160
	-fine grained appearance	545'-550'	65161
	-green colour	550'-555'	65162
		555'-560'	65163
	-highly carbonated	560'-565'	65164
	-trace mineralization	565'-570'	65165
		570'-575'	65166
		575'-580'	65167
		580'-585'	65168
		585'-590'	65169
590'-	-MAFIC VOLCANIC - Ankerite - Chlorite	590'-595'	65170
709'	-undeterminable contacts	595'-600'	65171
	-medium grained ankerite grains (50-80%)	600'-605'	65172
	-chlorite alteration	605'-610'	65173
	-trace pyrite mineralization	610'-615'	65174
		615'-620'	65175



DIAMOND DRILL LOG. PROPERTY: PUISSANCE

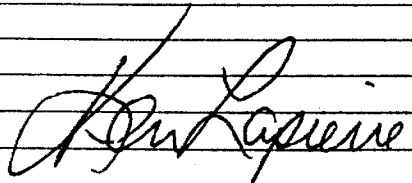
HOLE NUMBER: P-12/84

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
		620'-625'	G65176
		625'-630'	G65177
		630'-635'	65178
		635'-640'	65179
		640'-645'	65180
		645'-650'	65181
		650'-655'	65182
		655'-660'	65183
		660'-665'	65184
-666'-681'	-wall rock characterized by fine grained ankerite grains	665'-670'	65185
	-2-4% quartz stringers - 30-50° to core axis	670'-675'	65186
	-1-3% fine to medium grained subhedral to euhedral disseminated pyrite associated with quartz and wall rock	675'-680'	65187
		680'-685'	65188
		685'-690'	65189
		690'-695'	65190
		695'-700'	65191
		700'-705'	65192
709'-797'	-INTERMEDIATE to MAFIC VOLCANIC - Ankerite - Chlorite blebs	705'-710'	65193
	-undeterminable contacts	710'-715'	65194
	-fine grained ankerite grains	715'-720'	65195
	-1-3% chlorite blebs - 50° to 70° to core axis	720'-725'	65196
	-grey green colour	725'-730'	65197
	-trace to 1% fine grained pyrite mineralization	730'-735'	65198
		735'-740'	65199
		740'-745'	65200
	-745'8"-745'10" - quartz vein - 70° to core axis - non mineralized	745'-750'	65201
		750'-755'	65202
		755'-760'	65203
		760'-765'	65204
		765'-770'	65205
		770'-775'	65206
		775'-780'	65207

DIAMOND DRILL LOG.

PROPERTY: PUISSANCE

HOLE NUMBER: P-12/84

FOOTAGE	DESCRIPTION OF CORE (split core)	SAMPLE NUMBER	ASSAYS
-783'3"-783'8"	- quartz vein - 50° to core axis	780'-785'	G65208
	- trace tourmaline		
	- trace fine grained pyrite associated with contacts		
		785'-790'	G65209
		790'-795'	65210
-796'9"-796'10"	- quartz vein -70° to core axis	795'-797'	65211
	- trace tourmaline		
	- trace ankerite patches		
	- trace pyrite associated with contacts		
END OF HOLE AT 797 FEET			
			



42A06NE0404 63.4536 DELORO

020

**PUISSANCE CORPORATION**  
**GEOLOGICAL REPORT**  
**ON**  
**DELORO CLAIM GROUP**  
**DELORO TOWNSHIP, ONTARIO**

June 24, 1985

**TOM GLEDHILL, B.A. P.Eng.**

PUISSANCE CORPORATION  
GEOLOGICAL REPORT  
ON  
DELORO CLAIM GROUP  
DELORO TOWNSHIP, ONTARIO

SUMMARY

Mapping was carried out on a group of twelve claims in Deloro Township, Timmins, Ontario. The field observations were completed in the Spring of 1984 by J.C. Kirwan. These notes are prepared based on Kirwan's map. The group is mainly vertically dipping east-west striking volcanic related rocks.

The main carbonate zone conformable with the formations is fractured and filled with gold-bearing quartz. The gold is coarse. It is difficult to sample such a deposit except by bulk sampling. This was the routine employed by Kerr Addison at Virgintown.

Such a bulk sampling program is recommended.

PUISSANCE CORPORATION  
GEOLOGICAL REPORT  
ON  
DELORO CLAIM GROUP  
DELORO TOWNSHIP, ONTARIO

INTRODUCTION

A total of 12 claims was mapped in the spring of 1984. The field map was prepared by J.C. Kirwan. This report is based on the writer's limited knowledge of the property, the observations in Kirwan's map and visits to the property to examine and evaluate the main carbonate zone.

GENERAL GEOLOGY

The major feature of the area is the Procupine-Destor Fault which lies 4,000 feet north of the property and strikes northeast.

The rocks throughout the property are carbonate rocks, intermediate volcanics, fragmental rocks, tuffs, iron formation and diabase. The iron formation and diabase have cross cutting relations to the bedded deposits. There is no explanation for the cross cutting nature of the iron formation.

The tops are north facings and are usually vertical or steeply north dipping. There is some dragging along the diabase dykes and minor distortion along cross faulting. The occurrence of gold associated with sulphide phase iron formation may be fault-related.

ECONOMIC GEOLOGY

The most interesting economic feature is the coarse gold associated with the quartz veining and fracture filling of the main carbonate horizon. This gold is difficult to establish a grade. Stripping and diamond drilling defines the zone but the small samples usually taken usually range from 1 to 20 lbs. To be effective a bulk sample must be taken and it is recommended that character samples of 10-50 tons be taken and evaluated. This should then be followed by bulk sampling and/or milling of samples of 100 to 1,000 tons each.

CONCLUSIONS AND RECOMMENDATIONS

The gold values in the main carbonate zone are quite similar to other deposits that have proved economic. They are by nature erratic. A program designed to bulk sample these deposits is the best way to evaluate them.


A reconnaissance of the remaining 6 carbonate zones should be carried out initially employing geochemistry.

The failure to locate gold in the eastern drill holes in the main carbonate zone should be examined.

The gold in the iron formation should be tested at a later date. It has a potential for smaller tonnage.

An extensive bulk sampling program is recommended in the main carbonate zone. It should be started with samples up to 50 tons over selected areas. As the nature of the deposit is better understood, larger bulk samples should be taken.

Respectfully submitted,

  
Tom Gledhill, B.A. P.Eng.

June 24, 1985





42A06NE0404 63.4536 DELORO

030

PUISSANCE CORPORATION

DELORO TOWNSHIP CLAIMS,  
ONTARIO

SUMMARY ACCOUNT

by

John L. Kirwan

EARTH RESOURCE ASSOCIATES:

P.O.Box 985,  
Centre Harbor, N.H. 03226,  
USA

603 253-6107

P.O.Box 2150,  
Timmins, Ont.  
Canada, P4N 7X8


May 23, 1984

## DECLARATION

I, John Laurence Kirwan, of the Town of Centre Harbor, State of New Hampshire, United States of America, and of the City of Timmins, Province of Ontario, Canada, do hereby state:

1. that I am a practising Consulting Geologist with offices in Old Meredith Road, Centre Harbor, NH, USA 03226.
2. that I am President of Earth Resource Associates (John L. Kirwan and Associates Limited) which was incorporated in the Province of Ontario in 1976.
3. that I have practised my profession as Geologist continuously since 1961 and as a Consulting Geologist continuously since 1972.
4. that I am a Professional Engineer of the Province of Ontario and of the State of New Hampshire and that my licence to practise is not under suspension or revocation in either jurisdiction. I am also a Fellow of the Geological Association of Canada and of several other professional and licensing bodies in Canada, the USA, England, Ireland and Brazil.
5. that I am a graduate with the Degree of Bachelor of Science in Geology and Mathematics from Carleton University in Canada and with the Degrees of Master of Science and Doctor of Philosophy from the University of London in England.
6. that I am familiar with the material contained in this report, having examined the original material myself, and with the property in question, having visited it on several occasions in the field, and
7. that I do not now have and do not anticipate receiving, any direct or indirect financial interest in the property described in this report.

Respectfully submitted,



John L. Kirwan



PUISSANCE CORPORATION

DELORO TOWNSHIP CLAIMS

ONTARIO

by

John L. Kirwan

SUMMARY ACCOUNT

INTRODUCTION

The Puissance Corporation of Toronto holds the mineral rights to 12 mining claims situated in the northeast quarter of Deloro Township, Porcupine Mining Area, District of Cochrane, Ontario, Canada. These claims comprise about 480 acres (based upon the nominal 40 acres per claim in Ontario) and occupy two offset, but contiguous, blocks of ground, the

more southerly of the two consisting of 8 patented claims and the more northerly (and westerly) consisting of 4 unpatented claims (see Figures 1 and 2, pages 3 and 4).

The patented claims are numbered as follows. The number of acres in each claim was obtained from the original survey data of 1922, on file with the Land Registry Office in Cochrane, Ontario. No survey was located for claim ME20.

ME 20		
ME 21	40.50 Acres	
ME 22	41.25 Acres	
ME 23	44.75 Acres	
ME 29	40.50 Acres	
ME 30	42.50 Acres	
ME 31	39.25 Acres	and
ME 54	37.25 Acres.	

Of these, the surface rights (but not the mining rights) were transferred to Dome Mines Limited for claims ME20, ME21, ME23, ME31 and ME54 on May 11, 1983.

The unpatented claims consist of the following:

P-758009  
 P-758010  
 P-758011 and  
 P-758012.

These were staked on April 10 and 11, 1983 and recorded on April 18, 1983. On February 16, 1984 these were transferred to the Puissance Corporation. The original recording records for claims P-758009 and P-758010 stipulate that the mining rights only are conferred in the staking, whereas the records for claims P-758011 and P-758012 make no such restriction. Work reports have been filed with the Recorder's Office to maintain these claims in good standing until April of 1986, with additional work soon to be filed that will extend this time beyond that date.

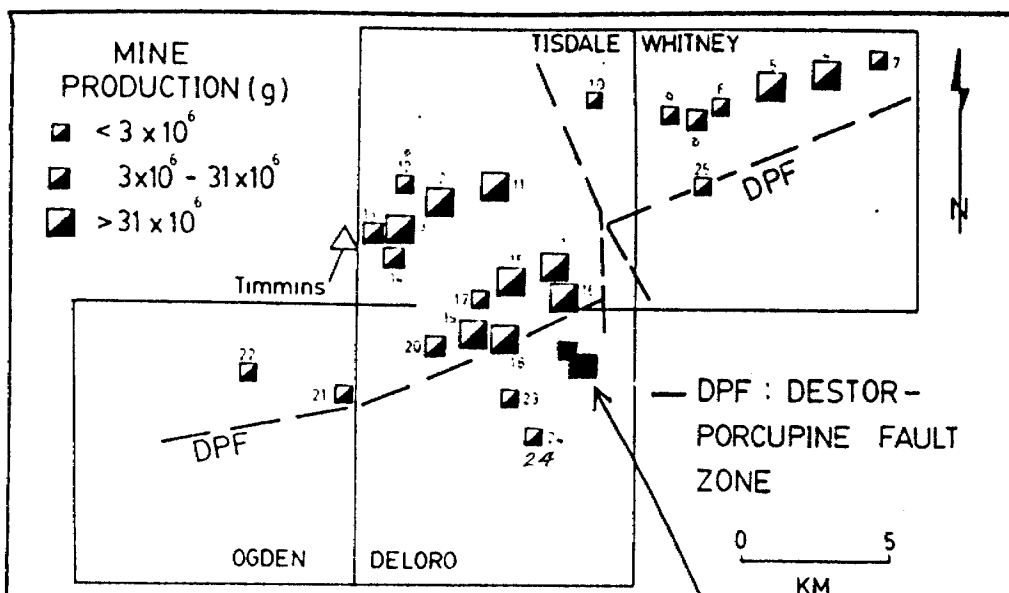


Figure 2-Location of former and presently producing mines, and the Destor-Porcupine Fault Zone in the Porcupine camp. The mining properties\* are:

**Producing Mines**

- 1 - Dome.
- 2 - McIntyre (Pamour Schumacher property).
- 3 - Hollinger (Pamour Timmins property).
- 4 - Pamour #1.
- 11 - Westfield Minerals (formerly Coniaurum; Pamour option).
- 19 - Aunor (Pamour #3 Mine).
- 20 - Delinte.

**Former Producers**

- 5 - Hallnor.
- 6 - Brouian Reef.
- 7 - Hoyle.
- 8 - Hugh Pam.
- 9 - Banner Porcupine (formerly Canusa).
- 10 - Davidson-Tisdale.
- 12 - Consolidated Gillies Lake.
- 13 - Moneta.
- 14 - Vipond.
- 15 - Paymaster Consolidated.
- 16 - Preston.
- 17 - Fuller Claim (Edwards shaft).
- 18 - Romfield Building Corp. Ltd. (Buffalo Ankerite Mine; Pamour option).
- 21 - Kenilworth.
- 22 - Desantis.
- 23 - McLaren-Porcupine.
- 24 - Faymar.
- 25 - Porcupine Lake.

\* For simplicity, the traditional names of mining properties and prospects, as listed by Ferguson *et al.* (1968) and Carlson (1967), are used.

FIGURE 1- Location of the Puissance Claims, Deloro Township, Ontario, In Relation to the Gold Mines of the Timmins Area.

(Base Sketch Map by the Ontario Geological Survey)

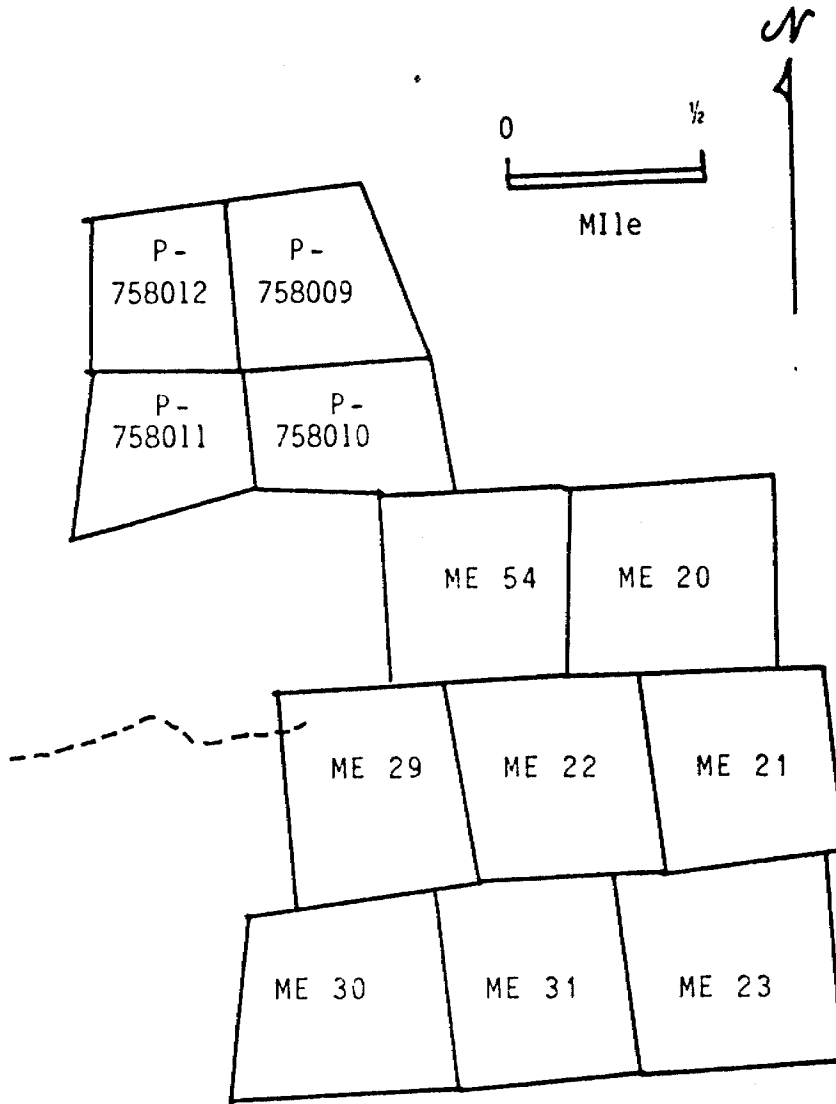
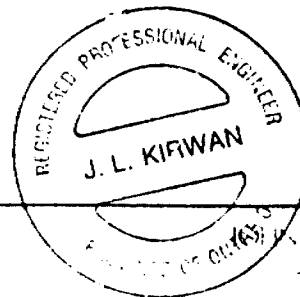


FIGURE 2- The Puissance Claims, Northeastern Deloro Township, Ontario.



## LOCATION, ACCESS

The Puissance claims are in the northeast quarter of Deloro Township about 6 miles (10 km) southeast of the Town of Timmins and about 4 miles (6 km) south of the Town of South Porcupine, but are within the Regional Municipality of Timmins.

The ground is best reached from either Timmins or South Porcupine by means of a paved road known locally as the Back Road, which connects the two towns. From this road, at the old Buffalo Ankerite minesite, a dirt bush road known as the Faymar Road (which leads to the Faymar Mine) may be taken a distance of about 1½ miles (2½ km) southward to where the Road to the Puissance claims begins. The Faymar Road is currently being rebuilt to accomodate redevelopment of the old Faymar Mine. The Puissance road is now in the process of rejuvenation to bush road quality, and travels eastward a distance of about 1½ miles (2½ km) to the west part of the Puissance ground.

Alternatively, a road which travels southeastward from the town of South Porcupine known as the Carshaw Road or Langmuir Road may be taken to the northern part of Shaw Township, from where a dirt road leads westward to a dam built by Dome Mines Limited about three quarters of a mile to the northeast of the Puissance ground. From here the ground may be reached on foot.

An old trail is marked on the claim map of Deloro Township leading from the unpatented (Macioli) claims of the Puissance Corporation a distance of about 2 miles (3 km) northwestward to a power line which crosses the Back Road at the old Paymaster minesite east of the Buffalo Ankerite. This trail is now too deteriorated and flooded to be of immediate use, but it might warrant restoration in the future.

Trails and roads east of the property are now no long-

er in existence owing to flooding of the terrain caused by the building of the dam by Dome.

#### CHARACTER OF THE GROUND

The claims are underlain by enormous expanses of bare rock separated by patchy areas of alder swamp. Mixed pine and spruce trees with intermingled tamaracks near the swamp areas alternate with deciduous trees, both in the swampy areas and on the northern claims where poplar and birch trees are common. The relief is low to moderate, being controlled by hummocky areas of outcrop, except in the extreme east edge of the property where the ground gives way rapidly to a broad water-filled swamp oriented north-south which is believed to be underlain by a major structural lineament known as the Burrows Benedict Fault. This is immediately off the property, but two branch faults appear to cross the ground.

#### GENERAL GEOLOGY

The Destor Porcupine Fault which trends nearly due north-east, passes a little over half a mile (1 km) north of the claim group's northerly limit. This fault separates the rocks of the Timmins area into two main groups, the Tisdale, in which such mineral deposits as the Dome, Hollinger and McIntyre occur, and the Deloro, in which deposits such as the Faymar and McLaren at one time occur. Rocks south of this fault have not received the attention they deserve until recently, when the high price of gold made several areas in which low grade gold mineralization was known to exist, attractive.

The rocks consist of gently north-dipping andesitic and rhyolitic lavas with felsic and intermediate fragmental components and metasedimentary rocks, including iron formation. These rocks have been intruded by stocks of granite and porphyry and younger sheets of diabase oriented either north-

south or east northeast.

Except for the diabases, which are younger, the rocks are all of Archean (Precambrian) age and at least 2500 million years old.

#### GEOLOGY OF THE CLAIMS

Figure 3, page 8, is a sketch map made to show the general geology of the claims. It is compiled from:

- a. a summary geological map made by Irvin Porcupine Mines in 1933.
- b. observations made by the writer in 1984, and
- c. interpretations of geophysical surveys also made in 1984.

It is not intended as a complete geological map as many important geological parameters are missing as they have not yet been properly defined.

The ground is underlain almost entirely by intermediate lavas of Keewatin (Archean) age. These dip northward at an angle of about 45° and strike nearly due east-west. Within these lavas occur several layers of highly magnetic iron formation and at least one zone of non-magnetic iron formation. A layer of coarse volcanic fragmental rock crosses the property near the centre of the south claims.

Three bodies of granitic porphyry are shown and a nearly north-south-striking body of diabase is indicated, this latter being inferred from ground magnetic data. Three nearly north-south-striking faults are shown. That to the east, known as the Burrows Benedict Fault was compiled from maps published by the Ontario Geological Survey. Two others, termed here the Powell Fault and the Mascioli Fault were derived by interpretation of geophysical surveys. The inferred diabase dike probably occupies a fourth fault, also north-south in orientation.





The most interesting feature from a gold prospecting viewpoint on the ground is the occurrence of several bands of carbonate alteration containing quartz veins and gold values. These bands are indicated on the accompanying Figure 3 by dotted lines which show the units trending across the southern (patented or Powell) claims in an east-west or northeast direction. Locally within the bands occur green layers of fuchsite mica, giving the rock a distinctive apple green colour on the fresh surface.

There are several general reports covering the Deloro Township area, including the present claims, though none shows the degree of detail shown on Figure 3. These are:

- a. Ontario Department of Mines, 1938, The Porcupine Area, Map 47a, Scale, 2000 feet = 1 inch, to accompany report by M.E.Hurst (Vol. XLVII, Part 2).
- b. Kirwan, J.L., 1968, Geology of the Precambrian Rocks in Part of the Porcupine Mining Area, Canada. Unpublished PhD Thesis, University of London, 205 pp and portfolio of maps at 2640 feet= 1 inch.
- c. Pyke, D.R., 1983, Geology of the Timmins Area, District of Cochrane, Ontario Geological Survey, Report 219, 141 pages plus maps and microfiche.

These reports are of value for obtaining a general understanding of the geological setting of the Timmins area and the Puissance ground in Deloro Township in particular.

#### HISTORY OF EXPLORATION ON THE PUISSANCE GROUND

With the discovery of the Hunter Mine on the lake east of South Porcupine in 1908, a major gold rush came to what is now the Timmins area in 1909. During that year the discoveries included the Dome, Hollinger, Davidson, and McIntyre Mines as well as several other promising occurrences were found.

The patented claims of the Puissance group were staked on October 30th, 1909 by Herbert J. Dixon who recorded his claims on November 3rd, 1909 and transferred them on December 9, 1909 to F.A.Day who transferred them to Francis Powell on September 21st, 1910. The ground is therefore known

as the Powell claims (information from Ralph Allerston of Timmins, 1984).

The following information was extracted from File T-67 in the Assessment Files of the Ontario Geological Survey in Timmins.

Considerable trenching and pitting seems to have been done on the ground in the 1909-1911 period, for J.Obalski in 1911 reported on the claims as follows:

"Three parallel veins have been found on this property but the principal work has been done only on the No. 1 vein in the North and it is the only one that I have examined. This vein, or rather belt, runs East 10 degrees North and crosses the property for its entire length, three-quarters of a mile. The vein matter shows a considerable width at the surface reaching in places to 40' and 80'. Surface crosscuts have been blasted at quite regular intervals, and two vertical shafts 6½ by 10' have been sunk about one-half mile apart on the hanging wall zone at least 15' to the north of the surface outcrops. At a depth of 50' crosscutting has been done in both shafts towards the south and has crossed through the same material as at the surface. These crosscuts have been extended respectively 36' and 26' from the shaft.

"By crushing and panning in many places along the surface outcrops, good colors of gold are found. At the Shaft No. 1 there is an exposure of native gold which is as spectacular as any other in sight in the Porcupine district. There is a quartz vein 3 to 4 feet in width and visible for 18' to 20' which is loaded with particles of gold and remarkably rich specimens have been obtained therefrom. You will understand that I have not assayed these rich specimens because their high value is apparent. I have taken a certain number of grab samples, but intentionally at the places where there is no gold visible with a view to knowing how the gold was distributed.

"WHITE QUARTZ AT THE SURFACE NEAR SHAFT No. 1	0.06	Oz Gold/ton
GREEN ROCK WITH SMALL VEIN OF QUARTZ	0.05	"
END OF THE DRIFT, SHAFT NO.1 AT DEPTH 50 FEET	1.06	"
FIRST SURFACE TRENCH (1200 FT.W OF SHAFT NO.2)	0.16	"
SECOND SURFACE TRENCH (600 FT. FURTHER EAST)	0.32	"
THIRD SURFACE TRENCH (300 FT. FURTHER EAST)	0.20	"
AVERAGE SAMPLE OF DUMP OF MATERIAL SAID TO COME FROM THE ENTRANCE OF THE DRIFT	0.28	"
CROSSCUT IN VEIN 600 FT. EAST OF SHAFT NO.2 ABOUT 3-4' DEEP BY 45' WIDE IN VEIN MATTER	0.41	"

"Another exposure of free gold has been found in the vicinity of the last trench. If we consider the above facts and the way they have been taken we come to the conclusion that gold has been disseminated in the vein in relatively fair amounts and besides is concentrated very likely in form of rich chutes in places....."

Mr. Obalski's report (the first and last parts of which are not reproduced here) contains a sketch map of the patented claims which shows the main alteration zone trending across the ground, connecting Shafts 1 and 2, and two other zones on claim ME29<sup>1</sup> as well as a large area of carbonate alteration in the northwest of claim ME54 which does not appear on later maps.

Mr. Ralph Allerston, of Timmins, former owner of the claims states in a summary given to the Ontario Geological Survey, "There are two short shafts on the property about one-half mile apart. Where the carbonate zone is much intersected by quartz veins gold values to the value of 0.7<sup>1</sup> ounces have been indicated for a length in one section of about 200 feet and over a width of four and a half feet".

In the 1919-1925 period considerable additional work was done on the ground by the Powell interests, including the exploration of the large quartz porphyry mass in the southwest of the claims and the discovery of a sulfide outcrop about 8 feet wide and 200 feet long that panned well in gold. This information is in a letter dated April 6, 1938 from Erie Canadian Mines Limited. The sulfide outcrop was most likely the iron formation that was later drilled. The porphyry is rimmed by drill holes (see Figure 3) numbered X1 thru X7 which must have been put down at this time. Although their number suggests that some success was obtained, there is no information available at the present time as to what these holes intersected.

Irvin Porcupine appears to have acquired the ground

<sup>1</sup> Throughout this report all values for gold have been converted from dollars per ton to Troy ounces of gold per ton of rock, based on the value of gold before 1935 of \$20.00 per Troy ounce. The value in 1921, for example, was \$20.67. Many companies continued to use the old values after 1935 and even to this day, Dome Mines Limited, by quoting in pennyweights, continues to do so. It is not certain, however, what conversion factor should be used for Mr. Allerston's, whose original quote was "\$14.00". See below, page 14 for similar figures quoted in the Financial P0st.

before 1933, the earliest dates on the Irvin Porcupine maps in the Assessment Files in the offices of the Ontario Geological Survey in Timmins. These maps show 19 drill hole locations,

- a. into the gold-carbonate zone in the vicinity of the No.1 shaft (Holes 1, 2, 3, and 4),
- b. into a curved, northwest-trending band of iron formation cut by quartz veins and assaying in gold, and
- c. into the porphyry body in the southwest corner of the ground (Holes 15, 16, 17 and, into a second porphyry, Holes 18 and 19)

These holes are shown on Figure 3. For most of these drill holes, no log or assays are available. However, the geological map in File T67 shows some assays for the drill holes that went into the iron formation. These are:

HOLE 6 (?)	0.89 over 2' within	0.39 over 6'
HOLE 9	0.025 over 10 feet.	
HOLE 10	0.035 over 2 feet.	
HOLE 11	Trace	
HOLE 12	Trace	
HOLE 13	Trace	and
HOLE 14	Trace.	

This, admittedly limited and undependable information would seem to indicate that only the southern part of the iron formation, near where it intersects the carbonatized rocks, assays well in gold.

An assay sheet survives as part of interest shown in the ground by Erie Canadian Mines, Limited dated June 3rd, 1938 on Sylvanite Gold Mines stationery. Labelled "Powell Property DAC, Special F-E", it gives some assays: Tr, 0.02, Tr, Tr, Tr, 0.04, and 0.04. In a covering letter dated April 6, 1938, William Moot of Erie Canadian recites the history of the ground as obtained from a John MacPherson of Toronto who had worked on the ground when it was called the McKenzie Gold Mining Company. The presence of some very

high grade gold on the property is indicated,

- a. in the old, No. 1, shaft,
- b. in ankerite dyke No. 1, at many points along its strike, and
- c. "about 100 feet east of the porphyry-ankerite contact and opposite the No. 1 or west shaft".

A report dated April 21, 1938, by D.A. Campbell for Erie Canadian describes the property, then in a state of wilderness and mentions that "a number of grab samples were taken but assay results were not of any value".

In 1939 Irvin Porcupine carried out more drilling, this time concentrating on the iron formation. Their drill holes, IR1 through IR10 are shown in Figure 4, page 14. Some assay results have survived:

HOLE IR1-	Section 1:	NIL	over 2'		
	Section 2:	NIL	over 7½ feet		
		Tr	"	5'	
		0.02	"	5'	
		0.04	"	3'	
		0.04	"	2'	
		Tr	"	5'	Iron Formation
		0.03	"	1½'	"
HOLE IR2-	Section 1:	Tr	"	5'	Iron Formation
	Section 2:	Tr	"	12¼'	
	Section 3:	0.04	"	1½'	
		Tr	"	4'	
	Section 4:	Tr	"	3'	
		0.03	"	3'	
	HOLE IR3-	Section 1:	Tr	"	10'
		0.112	"	9½'	Iron Formation
		Tr	"	3'	
HOLE IR4-	Section 1:	0.114	"	9½'	Iron Formation
		Tr	"	8'	
HOLE IR5-	Section 1:	Tr	"	4'	
HOLE IR6-		No assays given			
"OLD 6" -		No Assays Given.			

SHAFT No. 1

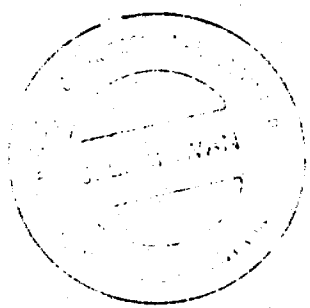
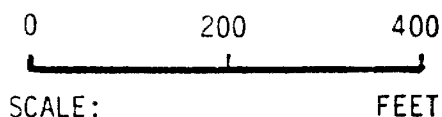
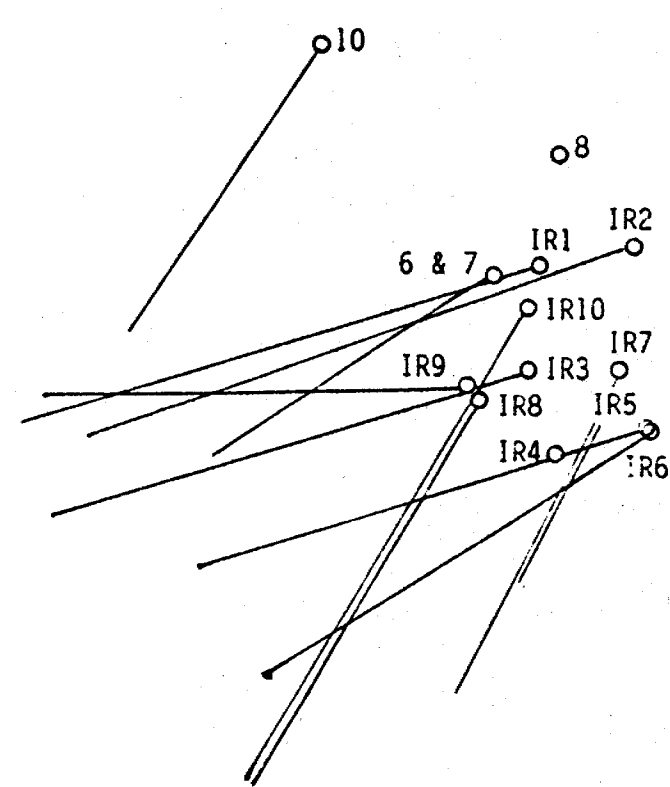


FIGURE 4- Locations of Irvin Porcupine Diamond Drill Holes IR1-10, Puissance Claims, Deloro Township. Shaft No. 1 is shown at Left for Location. See Also Figure 3: Holes 6-8 and 10 of an earlier set of drill holes are shown on both Figure 3 and Figure 4.

HOLE IR7-	Section 1:	Tr	over	10'	
	Section 2:	Tr	"	9'	
	Section 3:	Tr	"	3½'	
"OLD 7"	Section 1:	Tr	"	5'	
		0.03	"	1½'	
		Tr	"	5'	
HOLE IR8:	Section 1:	0.13	"	21'	IRON FORMATION
HOLE IR9:	(Assumed to be second No.2 on maps).				
	Section 1:	Tr	"	2½'	
HOLE IR10:	Section 1:	Tr	"	4½'	
	Section 2:	Tr	"	3½'	
		0.15	"	2'	
		Tr	"	7'	
		0.05	"	5'	IRON FORMATION
		0.04	"	5'	"
		Tr	"	5'	"
		0.13	"	2'	"

A quotation from the Financial Post (undated but to be found in the OGS File T67 already mentioned) will bring this historical section to a close: "Irvin carried out diamond drilling in 1939 with 200 feet of ore indicated averaging about \$14.00 (either 0.7 or 0.4 ounces of gold to the ton depending on whether \$20 or \$35 gold was being considered) across four and a half feet. In June, 1945, property leased to the Buffalo Ankerite Gold Mines Limited calling for expenditure of at least \$50,000.00 within two years and the privilege of forming new company. Buffalo Ankerite would own 75% of the capital and Irvin 25%". Nothing further, however, seems to have taken place with regard to this option.

In May, 1984, the writer visited the property and found Shaft No. 2 as well as much of the carbonate zone westward from this. At this time a total of 17 rock samples

were taken for assay. Later, when Shaft No. 1 was found, 10 more samples were taken for assay, but the results from these 10 are not yet available. Assays from the 17 were:

6101-	Quartz-Carbonate from trench E of Shaft No.2	0.146
6102-	Carbonate from trench on Cross Line 41E	trace
6103-	Fuchsite and quartz from line 40E at 2N	trace
6104-	As above without Fuchsite	0.018
6105-	Quartz carbonate from Shaft No. 2	0.020
6106-	Quartz-carbonate rock from waste pile Shaft 2	0.010
6107-	Contact zone from above material	trace
6108-	Waste pile, Shaft 2: Carbonate Rock	trace
6109-	Fuchsite zone west of Shaft 2	trace
6110-	Iron Formation, Line 36E at 2+50N	trace
6111-	Carbonate from XL34+90 @ 1+70N	trace
6112-	Carbonate from XL 34+00 @ 1+00N	trace
6113-	Carbonate, XL 31+00 at base line	trace
6114-	Carbonate with 35% Fuchsite, 29+00 @ BL	trace
6115-	Quartz vein with minor Fuchsite 18+00E 1N	trace
6116-	Carbonate from line 28+50E, 2+80N	0.006
6117-	Massive pyrite and carbonate	trace

The above samples were "grab" samples taken where conditions permitted it. The trenches are all heavily grown in with trees and partly filled with earth, and the important carbonate rock deeply weathered so that it is, for the most part, obscured. The sampling and assaying does indicate that portions of the carbonated rocks assay well in gold, but the zone of carbonate rock and Fuchsite does not assay in gold in general. It will be necessary to bare these rocks by stripping and washing and geologically map and sample them, in order to determine the presence of gold in these rocks and its relationship with the lithology and structure as well as the stratigraphic, intrusive, and metamorphic history.



## MINERAL POTENTIAL OF THE PROPERTY

Interest in the Puissance ground has extended back in time to 1909 when the patented claims were first staked. It is one of the oldest properties in the Porcupine camp, and the interest in it is now, as it was in 1909, for gold. However, the presence of a coarse felsic fragmental rock on the property also indicates that the potential for massive sulfide mineralization (copper, zinc) also exists.

The indications for the presence of gold mineralization, potentially in mineable quantities, are:

1. the presence of one (possibly as many as 5) horizons of carbonatized volcanic rock trending east-west across the ground and dipping northward. The main horizon, which is in places as much as 80 feet wide, contains quartz veining with which gold values are associated. Reported values from grab samples have assayed as high as 1.06 ounces of gold to the ton of rock, and a sample taken by the writer assayed 0.146. The possibility exists that this main carbonate zone, or one or more of the other reported zones, hosts a mineable gold deposit.
2. the existence of several small bodies of quartz feldspar porphyry. The contacts of porphyry bodies with the surrounding country rock have long been recognized as the site for occurrences of major gold deposits, particularly in the Timmins-Noranda area. At least 10 drill holes are known to have been put into the north and east contacts of one of the Puissance porphyrys, but it is not known what encouragement was obtained.
3. the existence of a gold-bearing iron formation as well as several iron formations elsewhere on the property whose gold content is at present unknown. Drill indicated values in the known iron formation range up to 0.13 ounces of gold per ton of rock along a drilled thickness of 21 feet, as reported in drilling in 1939.

## RECOMMENDATIONS

1. As soon as possible, the entire ground held by the Puissance Corporation should be geologically mapped so as to determine the geological environment on the claims, to map the alteration zones and the porphyry bodies, to locate and trace the various iron formations, to define the felsic fragmental rock units, and to serve as a framework for locating and following gold-bearing units and structures that are now known or will be found in the future. This geological mapping should be undertaken in two phases:
  - a. reconnaissance geological mapping of the entire claim group at a scale of 1 inch to 200 feet.
 

Estimated cost.....\$ 15,000
  - b. detailed mapping of zones of interest as they are exposed by stripping operations, at a scale of 1 inch to 100, 50 or 10 feet, as is appropriate for each one. For the Main Zone (see Recommendation 2) a scale of 1 inch to 50 feet is recommended, at an
 

Estimated cost of.....\$ 10,000
  
2. The Main Zone of carbonate alteration should be exposed for sampling, sampled, and assayed. To accomplish this the following work will be necessary:
  - a. restore the access road to the site. This has already been accomplished to "trail" quality at a cost of.....\$ 18,000.
  - b. remove the trees and bushes from a 20 acre strip of ground over the area of interest.
 

Estimated cost.....\$ 28,000
  - c. remove the overburden from, clean out the various trenches, and wash the rock. Because of unknown variables in the overburden the completed work cannot be priced.
 

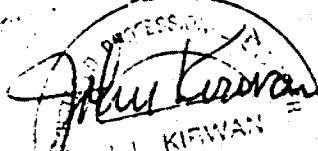
Suggested budget.....\$100,000

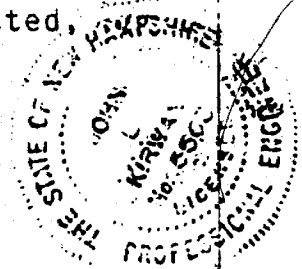
will be apparent as the work progresses.

Suggested budget.....\$ 50,000

The above recommendations are designed to bring the property to a point where one or more gold-bearing bodies are indicated. Total cost of this phase is estimated at just under \$500,000. As warranted by the results of this work, additional work will be recommended for the purpose of defining ore zones, determining tonnage and grade, and developing a mine, if warranted, on the site.

Respectfully submitted,

  
J. L. KIRWAN  
John L. Kirwan



At Timmins, Ontario,  
May 23, 1984



42A06NE0404 63.4536 DELORO

900

11/06/87

OM 84-5-C-96

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

## COMPARABLE MATERIAL:

① Report on PROTON MAGNETOMETER & VLF (RADEM) SURVEYS.

EXSICS EXPLORATION LTD. GRANT, J.C. MAY 1984.

② The following maps of the above report:

1- MAGNETOMETER April/84.

1- SURVEY FIELD STRENGTH May/84.

2- VLF RADEM May/84.

TORONTO  
FILE:

# 2.6788

EXSICS EXPLORATION LTD. GRANT, J.C.

# GEOLOGICAL SURVEY MAP PUISSANCE CLAIMS DE LORO TOWNSHIP, ONTARIO

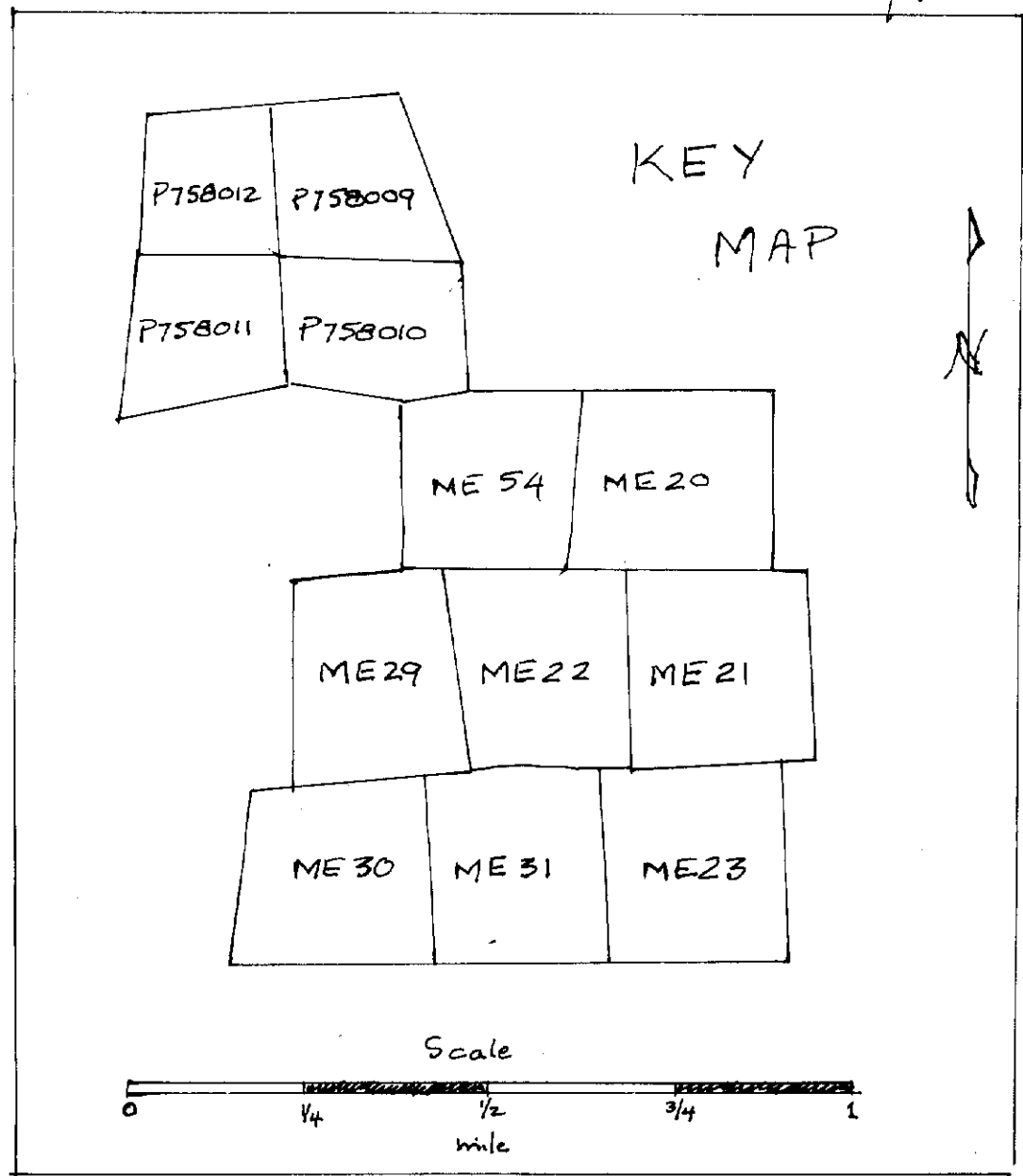
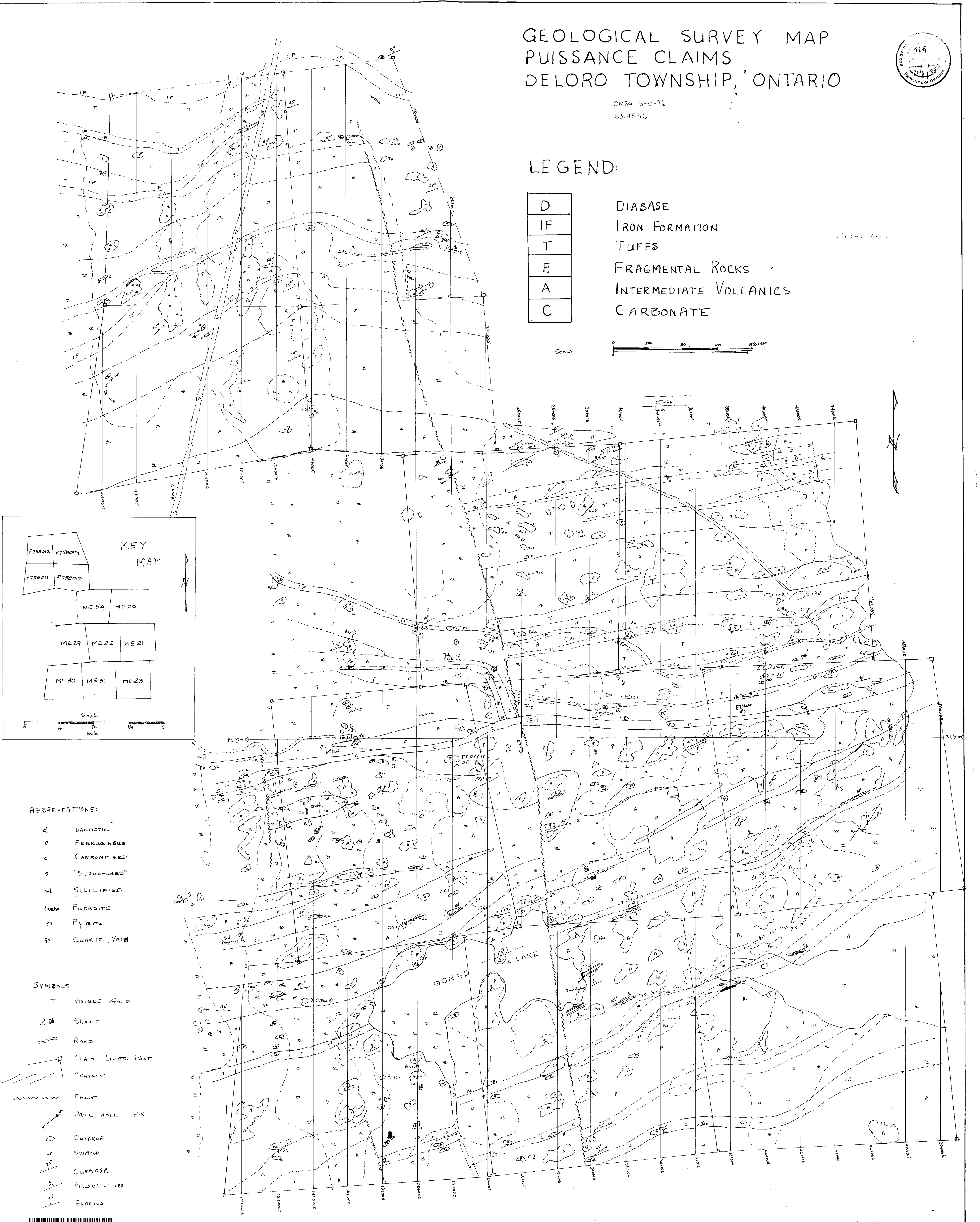


OM84-5-C-96  
63.4536

## LEGEND:

D	DIABASE
IF	IRON FORMATION
T	TUFFS
F	FRAGMENTAL ROCKS
A	INTERMEDIATE VOLCANICS
C	CARBONATE

SCALE 0 200 400 600 800 FEET



### ABBREVIATIONS:

- d DACTICTIC
- R FERRUGINOUS
- C CARBONITIZED
- S "STRUCTURED"
- sil SILICIFIED
- fuchc FUCHSITE
- py PYRITE
- qv QUARTZ VEIN

### SYMBOLS

- + VISIBLE GOLD
- 2 SHaft
- ROAD
- CLAIM LINES, POST
- CONTACT
- FAULT
- DRILL HOLE PS
- OUTCROP
- SWAMP
- CLEAVAGE
- PILLIOWS - TAPS
- BEDDING





EARTH RESOURCE ASSOCIATES

PUISSANCE PROPERTY (POWELL)

DELORO TOWNSHIP, TIMMINS

MAIN ZONE, ME. 29, MAP 1

GEOLOGY



210

NOV 19 84  
DRAWN BY: Ken Lapierre



OM84-S-C-96  
# 63,4536

# EARTH RESOURCE ASSOCIATES

PUISSANCE PROPERTY (POWELL)

DELORO TOWNSHIP, TIMMINS

MAIN ZONE, M.E. 29, MAP 2

## GEOLOGY



1-ANKERITE/QUARTZ/FUCHSITE  
ALTERATION ZONE

2-INTERMEDIATE-MAFIC VOLCANIC

QUARTZ VEIN

Water

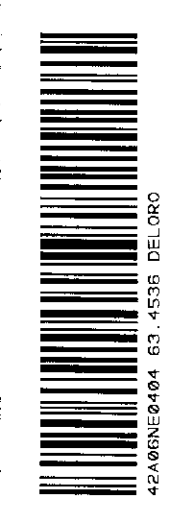
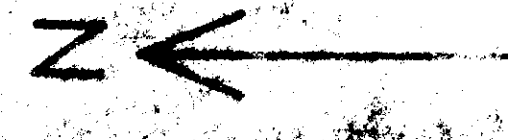
Fault - Alteration Zone / Volcanics

- Defined

- Probable

Stratigraphy

Schistosity



220

Ken Lapsiere



EARTH RESOURCE ASSOCIATES

PUISSANCE PROPERTY (POWELL)

DELORO TOWNSHIP, TIMMINS

MAIN ZONE/BANDED IRON FORMATION

ME 22 MAP 3

ANSI 5 C-96  
US A1-36

GEOLOGY



- 1-ANKERITE/QUARTZ/FUCHSITE ALTERATION ZONE
- 2-INTERMEDIATE-MAFIC VOLCANIC
- 3-BANDED IRON FORMATION

Water

Fault - Alteration Zone/Volcanics

- Defined

- Probable

Stratigraphy

Schistosity





EARTH RESOURCE ASSOCIATES

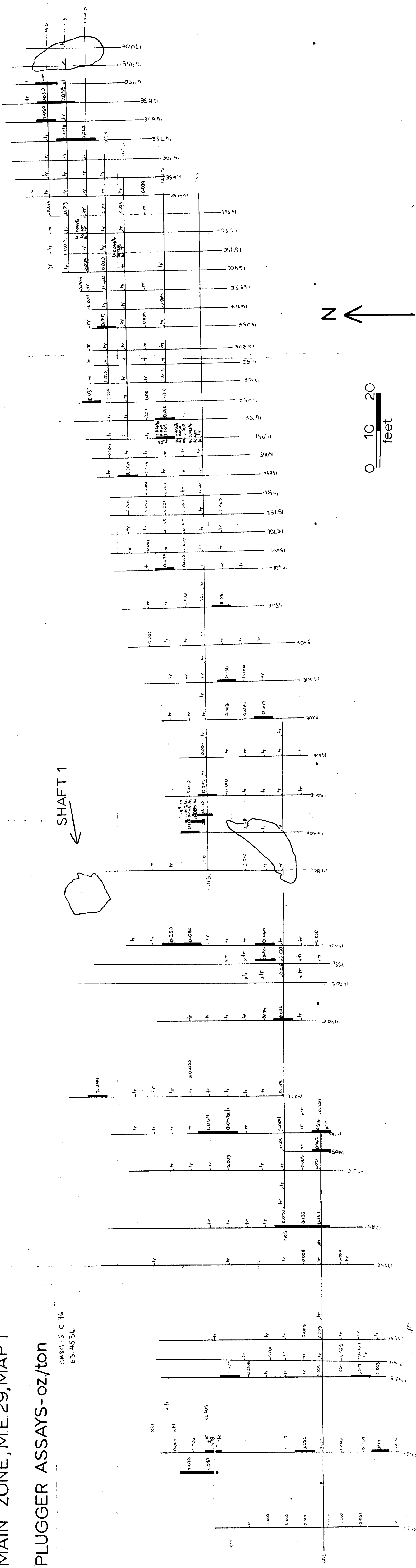
PUISSANCE PROPERTY (POWELL)

DELORO TOWNSHIP, TIMMINS

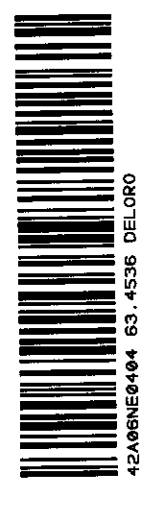
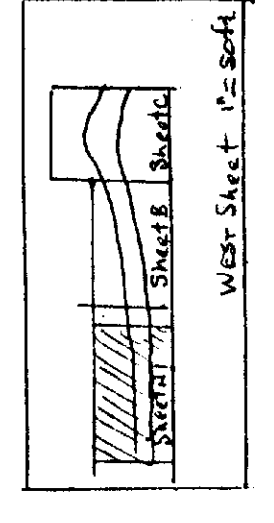
MAIN ZONE, M.E.29, MAP 1

PLUGGER ASSAYS-oz/ton

0M84-S-C-16  
63.4536



See Legend on Sheet C



# EARTH RESOURCE ASSOCIATES

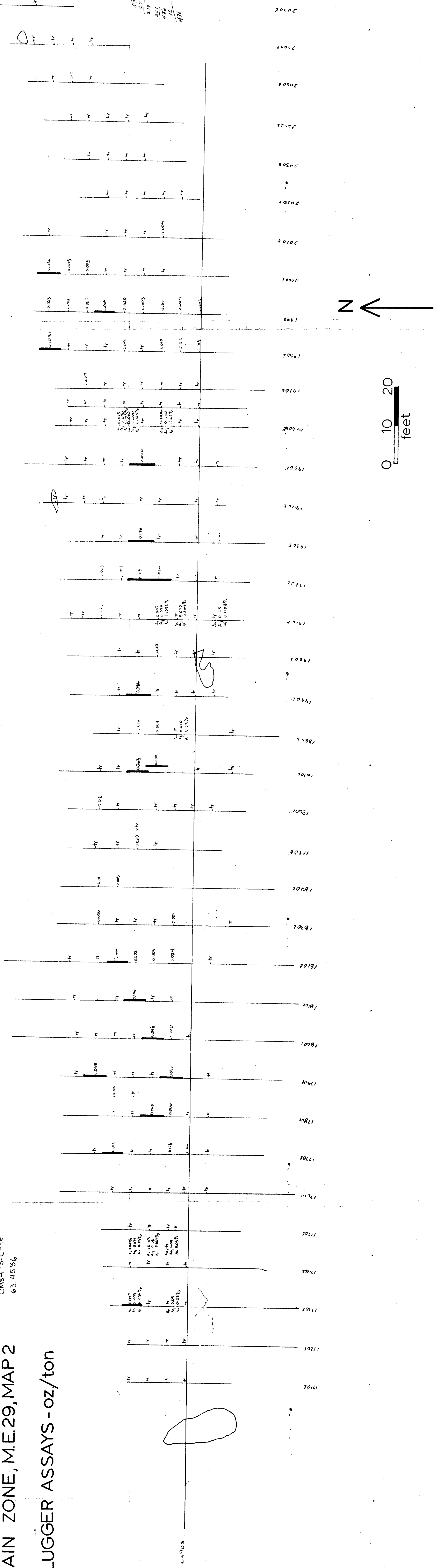
PUISSANCE PROPERTY (POWELL)

DELORO TOWNSHIP, TIMMINS

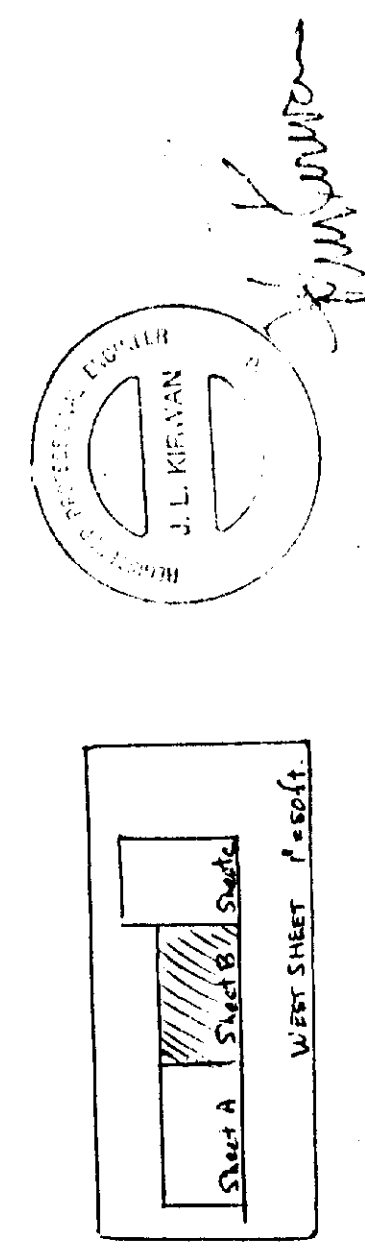
MAIN ZONE, M.E.29, MAP 2

OMS4-5-C-96  
63.4536

PLUGGER ASSAYS - oz/ton



See Legend on SHEET C



OMX-5-C-10  
62-11-20

1 R 1/45

2+50 N

EARTH RESOURCE ASSOCIATES  
PUISSANCE PROPERTY (POWELL)  
DELORO TOWNSHIP, TIMMINS  
MAIN ZONE/BANDED IRON FORMATION

2+00 N

M.E.22 MAP 3

PLUGGER ASSAYS - oz./ton

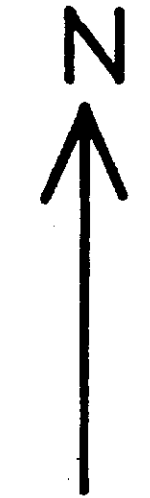
D.D.H. LOCATIONS (NOT SURVEYED)

P-1/84 - PUISSANCE DRILLING, 1984.  
I.R.1/45 - BUFFALO ANKERITE, 1945.

1+50 N

1 R 7/45

0 10 20  
feet

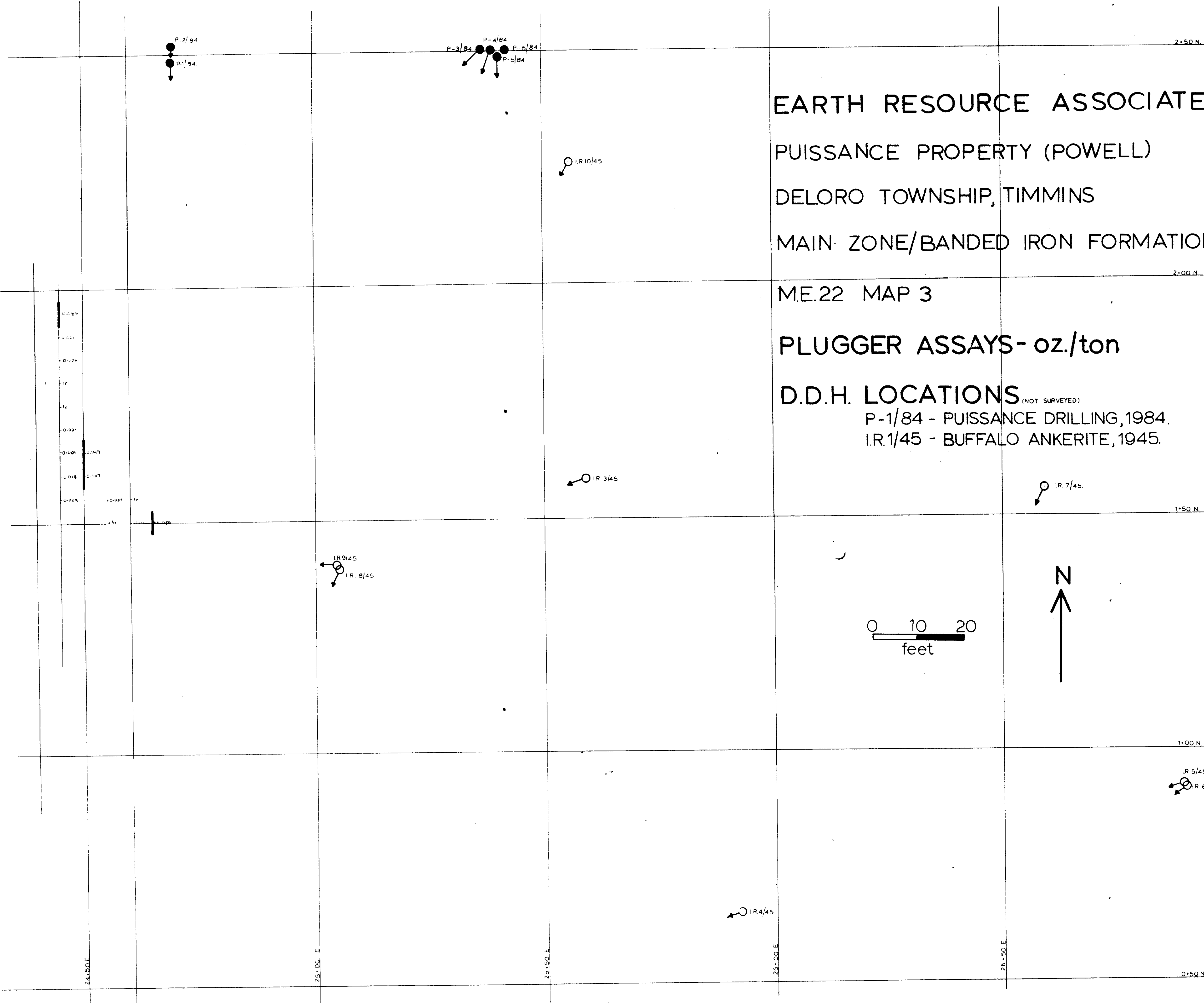


1+00 N

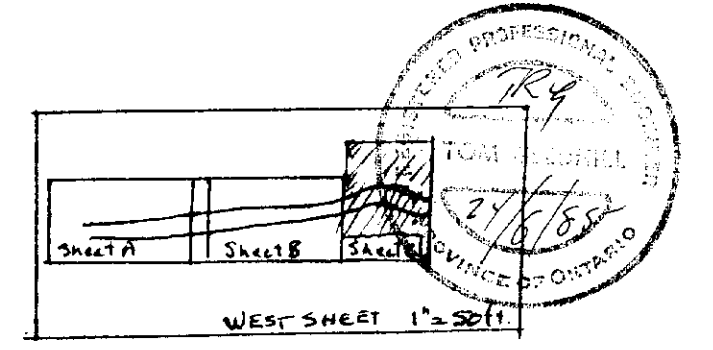
1 R 5/45  
1 R 6/45

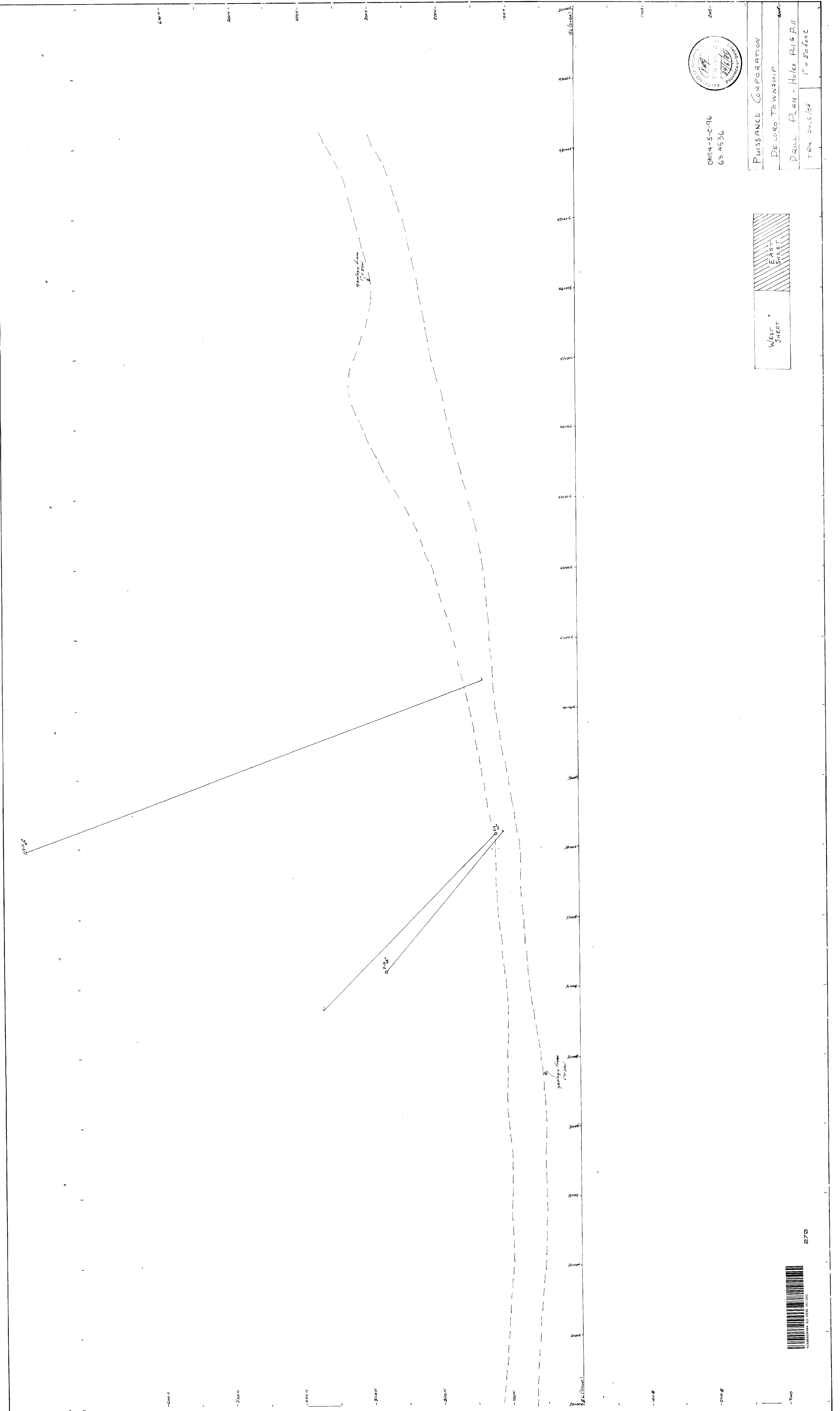
1 R 4/45

0+50 N



Legend  
Location of Plugger Sample usually 76" dia  
or Ankerite Tube  
0.005 Fine Assay of Plugger Dust  
Sample Size ~ 5-15 lbs.  
Bar for Sample  
> 0.001 g gold/ton





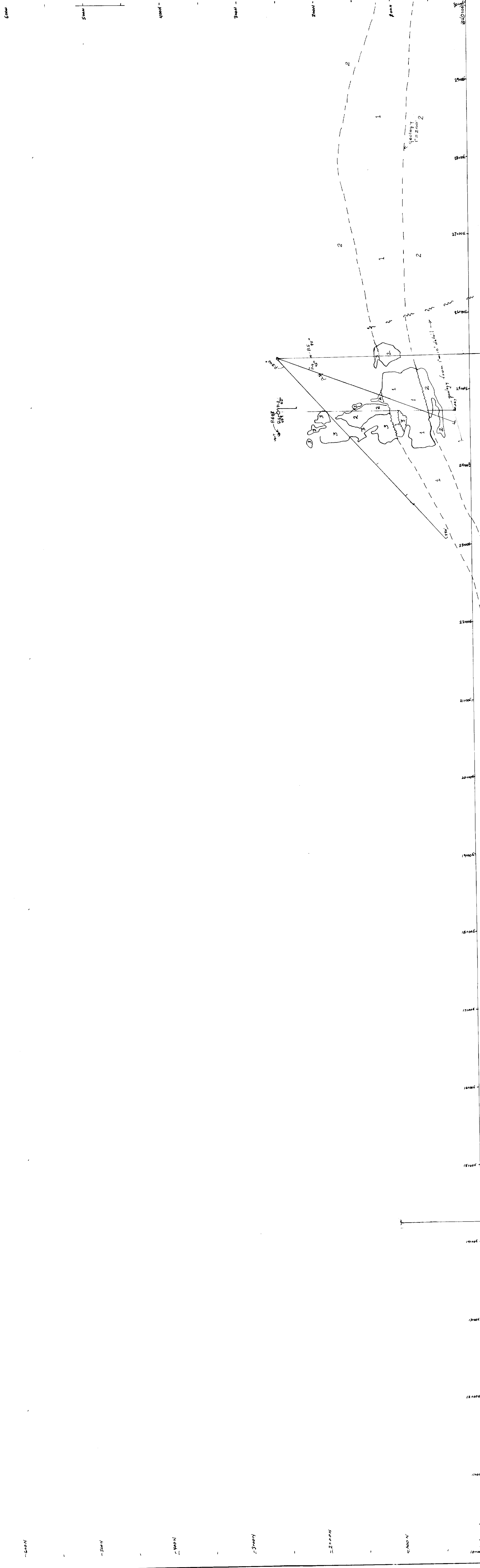
ONS4-S-C-96  
63 4536

WEST SHEET  
EAST SHEET

PLUSSANCE CORPORATION  
DE LOBO TOWNSHIP  
DRILL PLAN - Holes P-1 & P-11  
TRN 2416185 1" = 50 feet

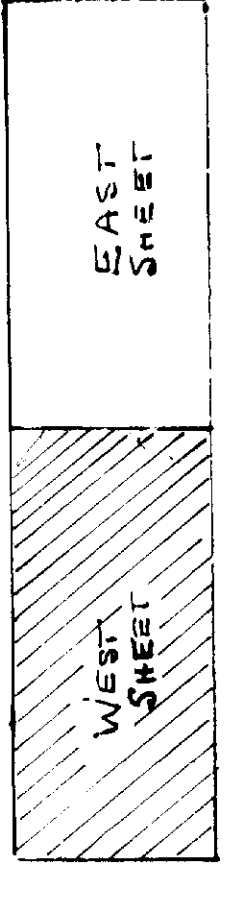


270

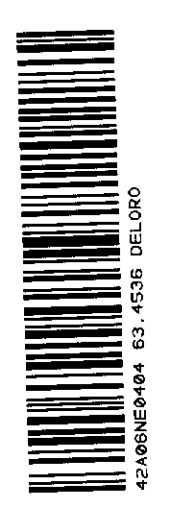


0184-S-C-96  
63.4536

PLISSANCE CORPORATION  
DELORE TOWNSHIP  
DRILL PLAN Holes P1-P11  
TRG 24/6/85 1"=50feet



Volume  
1 Carbonate Zone 3 Iron Formations



280