31M05NE0108 63.4934 LORRAIN

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A Report on the
Proteus Resources Inc.
Ruby Valley Property

December 30, 1985

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SUMMARY

The Proteus Property is located in the Cobalt area which has in the past and continues to be a major silver camp. Work was done on the claims in the early 1900's and sporadically in the 1960's and 1970's yielding anomalous values in silver although nothing of economic grade was produced. A drill programme in 1985 yielded promising results in gold as well as silver values above the norm. The property is adjacent to several areas in which silver deposits were found and itself has not been fully explored.

It is concluded that further exploration of the property is warrented. The initiation of a diamond drill program to further test the structures anomalous in gold and silver would be the most effective method of doing the exploration in this case.

INTRODUCTION

This writer was asked by Mr. Leith Hellens of Proteus Resources Inc., to prepare an appraisal of the Proteus Resources Inc. Ruby Valley property. The purpose of this report is to summarize work done on the property and review the potential of the property for economic mineralization.

LOCATION AND ACCESSIBILITY

The Proteus Resources Ruby Valley property is located in Lorrain Twp., District of Temiskaming, Ontario. A total of thirteen claims and one patented parcel comprise the property. The claim group is located approximately 2.2 miles south east of North Cobalt and approximately 3/4 miles west of Lake Temiskaming.

Access may be obtained by road from highway 118 by turning east on highway 567 at North Cobalt. 1.2 miles from North Cobalt the Pansilver/Silverside road runs almost due south from 567. The smaller road runs about 1.9 miles and ends just inside the boundaries of the Proteus Resources North Cobalt property. Some skidder and tractor trails exist on the property but the most reliable means of accessing various portions of it is by foot.

PROPERTY AND TITLE

The mineral rights to all thirteen claims and one parcel belong to Proteus Resources Inc. Surface rights belong variously to Mr. G. Peckover, Messrs. G.L. and L.W. Peddie, the Crown and Proteus Resources Inc.

TABLE 1 LIST OF CLAIMS

Claim No.	Parcel	Lease No.	Area (acres)
T27790	5387 LT	12139	40
T27793	5387 LT	12140	40
T27917	5387 LT	12142	40
T27789	5387 LT	12143	40
T46861	5079 LT	-	40
T31634	5079 LT	-	40
T46862	5079 LT	-	40
T31635	5079 LT	-	40
T27828	11007 SST	-	40
T25997	11008 SST	-	40
T25661	10053 SST	-	40
T3591	7711 NND	-	40
SE/4 OF N/2 & NE/4 OF S/2 LOT 2 Con.12	13997 SST	-	80
T11627	376	-	40

TOPOGRAPHY AND PLEISTOCENE GEOLOGY

Relief on the property is generally moderate with an extreme of 200 ft and an average of about 15 ft. High spots are located at the western boundary, the south eastern corner and the north eastern corner. The central portion of the property is comprised of open meadow, wooded meadow and swampland. Most of the trees are poplar with some stands of evergreens on the eastern and western boundaries.

Drainage is generally northerly into Slate Creek. Beaver dams and ponds are common along the creeks encountered on the property. Some marshy areas occur in the central portion of the property.

Overburden is usually clay or clay till with occasional coarse gravel beds. Cover is light (0-20 ft) on the western, eastern and southern portions of the property, but thickens considerably in the northern central portion. On parts of the central area, overburden is in excess of 100 feet in depth.

GENERAL REGIONAL GEOLOGY

Three main geological units may be found in the property. The oldest are Archean age metavolcanics and interflow meta-sediments. These are mostly basaltic to andesitic in composition although rhyolitic porphyrys and/or tuffs may also be found. To the south east of the property algoman granite and granitoids intrude the volcanics. Lamprophre dikes of pre-algoman and post-algoman age may also be seen.

Overlying the Archean rocks, unconformably, are Huronian meta-sedimentary rocks of the Cobalt Group. Locally most of this unit is comprised of Coleman formation conglomerates, greywackes, arkose, and quartzite although some Lorrain formation meta-sedimentary rock may be found in the area.

A "Nipissing" diabase sill covers the Huronian meta-sediments in many places although in some areas it has been eroded away. "Islands" of sedimentary and sometimes of volcanic rocks have been ripped up by the intruding sill and in places cover the diabase for quite intensive areas. (Thompson)

LITHOLOGIC UNITS

Cenozoic

Recent

Swamp lake and stream deposits

Pleistocene

Glacial deposits

Great Unconformity

Silurian & ordovician

Dolomite, limestone and shale

Great Unconformity

Proterozoic

Keweenawan

Olivine and quartz diabase dikes

Intrusive Contract

Nipissing diabase sill

Intrusive Contact

Huronian

Cobalt Group

Lorrain Formation

Arkose, Quartzites

Firstbrook Formation

Greywake, quartzite

Coleman Formation

Conglomerate, greywacke, shaley greywacke, arkose, quartzite

Great Unconformity

Archean

Post-Algoman

Lamprophyre dikes

Algoman

Granite, felsite

Pre-Algoman

Lamprophyre, andesite, diorite

Timiskaming

Conglomerate, greywacke

Kecwatin

Basalt, andesite, pillow lava, tuft, basalt and andesite breccia

Work Done During 1985

During the period including Aug.27/85 to Dec.1/85 a diamond drill programme was carried out on the Ruby Valley property by Proteus Resources Inc. Fifteen diamond drill holes were bored during the programme totaling 9,261 feet. The drill used was a hydraulic head, Boyles diamond drill owned and operated by Morissette Diamond Drilling of Haileybury Ontario. B.Q. size (1 7/16 inch diameter) core was recovered and sludge was sampled over 10 foot intervals (where possible) for later analyais.

Drilling was carried out on claims, T27790, T3591, T27793, T46862 and T31635. The Ruby Valley property is located in Lorrain Township, Sudbury area, district of Temiskaming. Results are shown on the accompanying tables.

George W. Hill
B. Sc. (Geology)

HOLE #	CORDINATES 9295 + 29BN 856W - 1192E		TOTAL HOLE LENGTH	DATE STARTED & COMPLETED
P - 85 - 1	196'S	300'W	✓695'	27 - 08 - 85 ST 04 - 09 - 85 FIN
P - 85 - 2	244'S	285'W	✓795'	04 - 09 - 85 ST 11 - 09 - 85 FIN
P - 85 - 3	294'S	290'S	✓ 754.3'	11 - 09 - 85 ST
P - 85 - 4	396'S	222'W	✓ 755'	29 - 09 - 85 FIN
P - 85 - 5	446'S	242'W	✓ 770'	29 - 09 - 85 ST 2 - 10 - 85 FIN
P - 85 - 6	522'S	414'W	✓ 825'	3 - 10 - 85 ST 10 - 10 - 85 FIN
P - 85 - 7	929'S	77'W	✓ 785'	10 - 10 - 85 ST 18 - 10 - 85 FIN
P - 85 - 8	1192'E	565.5'S	✓ 1029'	22 - 10 - 85 ST 29 - 10 - 85 FIN
P - 85 - 9	25'E	313'S	✓258'	30 - 10 - 85 ST 1 - 11 - 85 FIN
P - 85 - 10	711'W	245'S	✓430'	4 - 11 - 85 ST 6 - 11 - 85 FIN
P - 85 - 11	856'W	222'S	✓475'	8 - 11 - 85 ST 13 - 11 - 85 FIN
P - 85 - 12	356'S	295'E	✓475'	18 - 11 - 85 ST 20 - 11 - 85 FIN
P - 85 - 13	298'N	002'E	✓435'	21 - 11 - 85 ST 23 - 11 - 85 FIN
P - 85 - 14	190'W	062'E	✓405'	24 - 11 - 85 ST 26 - 11 - 85 FIN
P - 85 - 15	10'S	74'S	✓375'	26 - 11 - 85 ST 27 - 11 - 85 FIN

PROGRAMME COMPLETION DECEMBER 1, 1985

9261.3

129.3 samples

1985 PROTEUS

Assay Values for Core and Sludge

Noted: Ag > 0.5 oz/ton
Au > 100 PPB

D.D.H #	FOOTAGE FROM	FOOTAGE TO	ASSAY VALUE Ag OZ/TON	ASSAY VALUE Au PPB
P - 85 - 5	347.3	347.7		221
P - 85 - 10	165	175	1.49	
"	163.5	164.5		.036 oz/ton
P - 85 - 10	202.6	203.2		133
"	398.6	399.4		100
P - 85 - 11	38.6	39.6		.044 oz/ton
"	41	42		.038 oz/ton
P - 85 - 12	320.5	321.5		.054 oz/ton
"	323	324		250
P - 85 - 13	150.5	151.5		100
"	363.3	364.3		405
P - 85 - 13	133	133.3		120
P - 85 - 15	95	105	2.0	
"	105	115	0.91	
P - 85 - 15	135	145	0.71	
"	145	155	0.77	
P - 85 - 15	155	165	0.93	
"	215	225	0.53	
P - 85 - 15	290.5	291.3		.142 oz/ton

SLUDGE

P - 85 - 4		75	5.45
"		95	1.26
P - 85 - 4	165	175	0.54
P - 85 - 10	165	175	1.49
P - 85 - 15	95	105	2.00
"	105	115	0.91
P - 85 - 15	135	145	0.71
"	145	155	0.77
P - 85 - 15	155	165	0.93
"	215	225	0.53

STRUCTURAL GEOLOGY

The meta-sedimentary rocks and the "Nipissing" diabase sill are more or less flat lying with some local variations. The Archean age rocks are steeply dipping.

The area exhibits several large faults and is intensively fractured in areas proximate to the faulting. Most faults appear to have more than one period of activation. Faults trend generally northerly or easterly and may be sub-vertical or sub-horizontal in orientation.

ECONOMIC GEOLOGY

The Cobalt camp is, of course, best known for its cobalt arsenide-silver mineralization. The silver tends to occur in veins resulting from the passage of hydro-thermal fluids through fractures faults and shears. Extremely rich if erratic veins of silver have been encountered in the Cobalt region in veins of this type. Metallic minerals include native silver, dyscrasite, argentite skuderudite, chloanthite, safflorite, arsenopyrite, cobaltite, glaucodot, niccolite, chalcopyrite, galena, pyrite, pyrrhotite, sphalerite, tetrahedrite, native bismuth and minor amounts of pentlandite, polybasite, stephanite, ruby silver and stromeyerite. Secondary minerals include erythrite, annabergie, scorodite, manganese oxides and limonite (Boyle). Native silver and Co-Ni arsenides re the major economic minerals of the camp. Gangue minerals are primarily calcite and quartz. Chlorite is common in veins and wall rock throughout the camp.

A 1964 report on the camp lists the followin production totals:

Silver	430,000,000 oz
Cobalt	11,365 t
Nickel	1,365 t
Copper	685 t

More recent conversations with the resident geologist (Leo Owsiaki) indicate that to present, silver production has totaled about 750,000,000 oz. suggesting that the camp is still a very productive silver producing area.

Most silver mineralization has been found in the volcanic and/or sedimentary rock within 500 vertical feet of the diabase sill. Occasionally the veins

PROPERTY GEOLOGY AND EXPLORATION HISTORY

On the eastern portion, the property diabase outcrops to the south giving way to sedimentary rock on the northern portions. The central area is composed of Huronian sedimentary and archean volcanic rock with the contact running generally northerly and the volcanics on the west. This gives way to a diabase ridge on the very western and northern portion of the property. In this case the diabase sill forms a basin in which lies the volcanic and sedimentary rock. The outcrops of diabase form the edge of the basin. Below the diabase on the edge of the basin lies a thin layer of sedimentary rock covering the Archean age volcanics. The central portion of the property has never been drilled completely through to see what lies below the diabase floor of the basin.

Faults are interpreted to run roughly north-south through the central portion of the property and on the two north-western most claims in the group. Easterly trending splays are interpreted to run across the property from these structures. Extensive fracturing was encountered on the north central portion of the claim group. Surface veins of quartz and calcite were encountered in the south central area.

Several pits and trenches are still visible from the early exploration of the Proteus ground. Some of this was done during the early part of this century. More recently geophysical surveys were run over ground and in 1960 the Temiskaming Project Syndicate financed a diamond drilling programme. The results of the programme indicate the presence of silver although economic values were not encountered. The best of the intersections are shown on the following page:

Drill Hole No.	Assay (oz/ton)	Length (in")
4	1.46	72
4	1.02	0.12
6	11.11	1.0
6	5.92	2.9
6	1.96	4.0
6	1.36	2.9
6	1.34	4.0
7	4.50	2
8	7.01	9
8	1.01	2
8	5.74	2
8	2.16	2
8	11.61	2.9
15	1.34	11.8
16	3.17	12
16	19.79	10
16	1.24	10
16	12.48	5.9
18	1.02	9

Note: Assay values are taken from drill logs and are not checked as core does not exist in a useable form.

During 1979 Teck Explorations Ltd. optioned claims T-11627, T-46861, T-46862 and T-31635, on the southern portion of the property from Lepaladan Corp. Ltd. EM-15, VLF-EM and magnetometer surveys were run over the property and some trenching was done. The option was then allowed to lapse.

In 1984 Proteus Resources Inc. had a grid cut and surveyed over the south eastern and northern central portions of the claim group. This work covered six of the claims of primary interest. The area was then remapped by this writer and three tentative areas for future diamond drilling were located.

The diamond drilling was carried out in 1985. Some 16 drill holes were emplaced to test structurally interesting areas for silver and secondarily for gold. The latter mineral had been encountered in anomalous amounts during the 1984 programme. The boreholes produced a few anomalous silver values, the best being in the five to nine ounce range. Interestingly enough, several good although not economically viable gold values were obtained. The best gold value ran about 0.1 oz/ton but several others returned assays in the .01 to .03 range.

It should be stressed that the two drill programmes discussed here provided only limited coverage of a small portion of the property. The erratic nature of silver mineralization in the Cobalt area silver veins limits the effectiveness of any exploration programme providing targets that are difficult to detect from surface and easy to miss with diamond drilling.

A further facet of the property which makes it a good target for exploration is its proximity to previously discovered ore bodies. The Deerhorn Mine, a major past producer, lies only about a half mile to the west. The Big Fissure property is only a few hundred feet from the eastern boundary of the claim group and the Pan Silver (formerly the Harrison-Hibbert) is about 1 1/2 miles to the north. Closer still is the Silverside Resoures Inc. deposit which is less than one mile to the north.

CONCLUSION AND RECOMMENDATONS

From the information presented in this report, it may be concluded that:

1) The Proteus Resources Ruby Valley property has structures which have proven anomalous in silver and in gold.

2) The said próperty has not been sufficiently explored to prove or disprove the economic potential of these structures.

It is therefore recommended that:

1) A drill program consisting of not less than 15,000 feet of drilling be carried out on the claim group.

2) The programme be designed to test both silver and gold anomalies.

3) The programme is carried out on sites chosen due to nearby structures or interpreted structures beginning wih those that have proven to be anomalous in silver and/or gold.

The approximate cost of such a programme is:

15,000 ft @ $16.50 per foot (including supervision) = $247,500.00

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Thompson, A., 1960, Preliminary Report on the Geology of the North Part of Lorrain Twp., District of Temiskaming; O.D.M. Preliminary Report.

Thompson, A., 1960, Preliminary Map 2050;O.D.M. Preliminay Map.

MAC GREGOR ZONE

60-1

PROPERTY: East Cobalt Area Claim No. T-3591 HOLE NO. 4

LOCATION: 275' West of B.L. "D" on Line 25 LOGGED BY: J.Hagan

ANGLE: 59½° BEARING: East ELEV.: DATE: Jan.28 & 29/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-57.0	CASING				
57.0-220.8	COBALT SEDIMENTS				
	57.0 - 169.7 Pebble Sediment A fine grained, uniform, light grey-green rock with occasional pebble up to ¼". Uniform bedding planes at 60° to core axis in bands of greywacke as follows: 91.2 to 92.8 93.7 to 95.0 117.2 to 117.7 122.6 to 122.9 125.9 to 126.5 130 to 155. Intermittent banding of greywacke up to 24" with pronounced bedding at 60°.				
	Alteration 57 - 78 Spotted alteration is fairly well developed with some sections up to 15" well developed. Spots up to 1/8" with reddish brown center and white halo. 78-167 Alteration is variable mostly feeble with well altered sections up to 24" as from 101 to 101.5, 106.5 to 107, 108 - 108.2 and 120 to 122, 152 to 153, 166 to 167.				
	Fracturing and Seams 57.0 - 129.2 Many very fine calcite seams criss-crossing core at various angles some of which are mineralized with very fine grains of pyrite. Core is highly shattered and broken.				
	Lost core 107 to 108 108.6 to 109.6 128.5 to 129.2				
	Sludge Samples 100 to 110 110 to 130 130 to 140		Sample No. 36 Sample No. 37 Sample No. 38		nil .08 .10

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: J. Hagan

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
	Fracturing and Seams (cont'd.)				
	57.2 1/32" calcite seam with fine pyrite grains.				
	60.8 Fine calcite seam.				
	61.0 Core Sample 10". Many fine calcite seams with fine pyrite.				0.18
	74.7 1/16" calcite seam with fine pyrite.				
	74.9 " " " " " "				
	88.5 1/16" calcite seam at 20°.				
	89.1 1/4" splash of chalcopyrite with small to 1/16" grouping of arsenides?				
	90.8 1/4" calcite fracture and a 1" quartz fracture mineralized with chalcopyrite grains.				0.16
	102. 1/16" calcite seam with specks of chalcopyrite.				
	126.5 Two 1/16" calcite seams				
	127.2 1/32" calcite seams.				
	132.1 " " "				
	140.3 " " "				
	129.2 - 169.7 Less fracturing and joints becoming more massive.				
	169.7 - 220.8 CONGLOMERATE				
	A variable textured conglomerate, massive with very few joints or seams.				
	169.7 - 179.0 About 30% rounded pebbles averaging ¼" with occasional pebble up to 1".				
	179 - 179.6 Banded greywacke at 60°				
	179.6 - 191.8 About 10% fine pebbles up to 1/8".				
	191.8 - 201.5 50% coarse pebbles with boulders up to 3".				
	201.5 - 220.8 About 10% fine pebbles and occasional one of ½".				
	Fracturing and Seams				
	185.5 1/32" Calcite seam				
	204.0 " " "				
	210.5 " " "				
	Alteration				
	179.6 - 203.0 Fairly well altered with spots up to 1/8". Occasional 6" of well altered section.				
	203 - 220.8 Alteration is fainter more ghost-like and not as obvious.				

PROPERTY:_____ HOLE NO. 4

LOCATION:_____ LOGGED BY: Morrison

ANGLE:_____ BEARING:_____ ELEV.:_____ DATE:_____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
220.8 - 227.4	KEEWATIN Grey, porphyritic rhyolite, generally fairly massive but cut by darker colored, chlorite filled slips from 1/16 to 1/8 inch wide crossing core from 40° to 60° to core axis, and predominantly at 45°. Occasionally fine grained pyrite as a very weak dissemination. Core is cut by fairly numerous calcite to quartz calcite fracture fillings described as follows; location, thickness, type, angle to core, mineralization. 226.0 1/32" white, 30°, barren 227.2 " " " " 227.3 " " " "				
227.4 - 236.0	DACITE Dark grey to greenish grey fine grained, non porphyritic. Volcanic of intermediate composition and probable dacite. has a mottled look due to rounded and semi rounded chlorite spots. Cut by many thin chlorite filled slips at 40° to 50° and 70°. The 70° set are often displaced along former. Very weak dissemination of fine grained pyrite often following 45° slips. From 233.1 - 233.9 pyrite slightly more plentiful, 0.25%. Contacts with porphyritic rhyolite are sharp and well defined, the upper at 50° and lower jagged. Calcite Fracture Filling as follows: 227.6 1/32 to 1/8 white, 45°, slight pyrite and chalcopyrite. 229.0 1/8 white, 50°, barren 229.2 " " " " 229.3 " " " " 230.4 1/16 white, 0°, barren - offset along 30° slips. 231.6 1/8 white, 45°, barren - slight actinolite 231.8 1/16 " , 70°, trace cp - more " 238.8 1/4 white, 30°, slight pyrite in chlorite slip. From 234 - 237 - numerous chlorite slips, frequently coated with fine-grained, white powdery calcite with traces pyrite.				

PROPERTY:_____ HOLE NO. 4

LOCATION:_____ LOGGED BY: Morrison

ANGLE:_____ BEARING:_____ ELEV.:_____ DATE:_____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
236 - 237.3	PORPHYRITIC RHYOLITE Similar to 220.8 - 227.4. Fine grained pyrite occasionally found on slip faces.				
237.3 - 239.9	LAMPROPHYRE Very dark green, medium, equigranular textured, fairly massive, appearing to be mostly composed of chlorite and hornblende, with a speckled micaceous sheen. The lower contact sharp well defined at 60°. Calcite fracture filling 237.6 1/32 white, 30° - trace pyrite 239.1 1/4 pink, 70° - trace pyrite, chalcopyrite. 239.7 1/8 white, 45° - barren.				
239.9 - 240.2	DACITE Similar to 227.4 - 236. 240.0 - 1/32" chlorite slip coated with red hematite and trace of pyrite partly altered to hematite.				
240.2 - 250.2	PORPHYRITIC RHYOLITE Occasional very fine grained pyrite dissemination. At 241 a jagged inclusion of dacite. Calcite fracture fillings 240.7 1/32 - 1/16 - pink, 45°, barren 241.6 1/4 - 1/8 - pink, 45°, trace chalcopyrite. 242.2 1/8 pink, 45°, slight chalcopyrite. 242.9 1/8 " , " " " 243.8 1/4 chlorite 35° - 30% coarse grained pyrite. 244.2 1/16 white, 80° - fair fine grained pyrite and chalcopyrite. 244.6 1/32 pink, - barren. 244.8 1/16 pink, 70° - trace pyrite - joined to 1/8" specular hematite, trace pyrite. 245.0 Two 1/32 white, 20°-90°, trace pyrite and chalcopyrite. 246.4 1/32 white, 60°, - trace pyrite and chalcopyrite. 247.3-247.8 Seven 1/32 white, 50° - trace pyrite and chalcopyrite.				
250.2 - 269.7	DACITE Similar to foregoing sections, greenish grey to reddish grey color. Chlorite slips 1/16"- 1/8" much more common and cutting core at all angles - some slips filled with epidote - along others				

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
	rock appears to be albitized. In places pyrite mineralization becomes quite strong such as: 254 pyrite associated with chalcopyrite and galena. 256.6 pyrite, slight chalcopyrite and black hematite? 258.3 pyrite 260.2 1/8"-1/4" pyrite and magnetite or specular hematite. 262.4 Similar 260.2 266.0 Chlorite slip contains slight pyrite. 268.1 Coarse grained disseminated pyrite 1%.				
	Calcite fractures etc.				
251.4	½" jasper and epidote 80° - trace pyrite.				
252.3	1/8" white - 45° - trace pyrite and chalcopyrite.				
253.4	Two 1/16" - 1/8" white, 40° to 50° - barren.				
269.7 - 276.9	PORPHYRITIC RHYOLITE Fairly massive. Occasional pyrite dissemination. 272.9 - 1/32" white calcite - 30° - barren.				
276.9 - 278.5	DACITE - Similar to above - broken up by numerous 1/16" chlorite coated slips.				
278.5 - 294.8	PORPHYRITIC RHYOLITE Calcite fracture filling, etc.				
280.1	1/16" white - 50° - barren - offset by epidote slip 40°, trace chalcopyrite.				
282.5	3 - 1/16" white, 40° - barren.				
283.4	1/8" pink, 80°, barren.				
284.4	1/8" " , " " .				
285.0	1/2" " , 85° " , - a breccia with quartz epidote and hematite.				
285.7	1/16" - pink, 85°, barren.				
286.6	1/32" - - 20° - pyrite and specular hematite.				
287.3	1/2" pink, 85°, trace chalcopyrite on contacts.				
288.2	1/4" similar 287.3				
288.8	1/4 pink - 80° - Trace chalcopyrite on and near contact.				

PROPERTY: _____ HOLE NO. _____

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
290.7	1/16" white - 80° - slight pyrite and chalcopyrite.				
292.6	1/32" white - 30° - barren - specular hematite along contact.				
293.0	1/64" white - 30° - barren.				
294.0	1/32" white - 30° - " .				
294.8 - 309.8	DACITE Similar to 276.9 - 278.5 At 295.4 a 1/8" fracture containing pyrite and magnetite. From 305-307.5 chlorite spotting moderate.				
	Calcite fracture filling				
295.3	1/64" white - 30° - barren - cuts pyrite and hematite fracture filling.				
295.6	Same as 295.3				
300.7	1/64" white - 40° - barren - cuts pyrite and hematite fracture filling.				
305.0	1/8" pink - 70° - barren - also quartz associated.				
309.8 - 311.9	LAMPROPHYRE				
311.9 - 321.5	DACITE Similar to 276.9 - 278.5. Albitized from 311.9 - 312.5. From 315.7 - 317.7 highly fractured and albitized. Numerous 1/16" to 1/8" fractures filled with magnetite, some pyrite and slight chalcopyrite. 320.6 - Shattered section at 30° with white calcite fracture filling 1/32" - 1/4" in places vuggy, trace chalcopyrite.				
321.5 - 322.8	LAMPROPHYRE At 321.7 a 1" quartz pink calcite fracture on half of core, trace of chalcopyrite.				
322.8 - 324.0	DACITE At 324.1 - 1/16" white calcite - 60° - slight pyrite.				
324 - 325	LAMPROPHYRE				
324 - 340	DACITE With typical fracturing - occasional hair-like fractures with some fine grained pyrite.				

PROPERTY: /

HOLE NO. 4

LOCATION:

LOGGED BY: Morrison

ANGLE: BEARING: ELEV.: DATE:

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
	Calcite fracture fillings				
325.2	Three 1/8"-1/4" pink at 40° - 60°, trace chalcopyrite.				
338.0	1/8" white - 30° - trace pyrite and chalcopyrite.				
340.0 - 345.5	LAMPROPHYRE				
	Calcite fracture filling				
342.2	¼" white - 60° - barren.				
342.3	1/8" white - 90° - slight pyrite.				
342.7	½" pink - 60° - trace pyrite plus quartz.				
343.1	Two 1/8" white - 70° - fair fine grained pyrite.				
343.6	¼" pink - 70° - barren.				
344.0	1/8" white - 70° - barren - slight flecks blood-red hematite.				
344.2	1" white - 70° - trace chalcopyrite.				
344.7	1/8" pink - 80° - barren.				
345.3	1/16" white - 45° - barren.				
345.5	1" pink 90° - barren - on contact				
345.5 - 366.0	DACITE				
	Well fractured throughout with numerous chlorite filled slips at all angles.				
	359-360.8 A moderate dissemination of fine-grained pyrite.				
	Calcite fracture fillings.				
346.0	1/8" - pink - at 80° - barren.				
346.3	1/16" - white - 45° - trace pyrite.				
346.6	1/16" pink - 80° - trace pyrite.				
351.6	Three 1/16" pink - 60° - barren.				
359.3	1/8" pink - 80° - breccia fracture , slight chalcopyrite, pyrite.				
361.2	Three 1/8" white - 45° - trace chalcopyrite and pyrite.				
362.9	1/8" grey - 50° - chalcopyrite and slight magnetite.				
365.3	1/8" grey - 30° - slight pyrite, chalcopyrite and magnetite.				
366 - 383.4	PORPHYRITIC RHYOLITE				
	Dark green-grey, fairly massive - only a vague porphyritic texture in places.				
	Calcite fracture fillings as follows:				
371.0	Two 1/8" - 40° - trace chalcopyrite.				
372.6	1/8" grey - 45° - trace chalcopyrite.				
372.8	1/16" grey - 45° - trace chalcopyrite.				
375.6	1/4" pink - 80° - plus quartz - fair chalcopyrite.				

PROPERTY:_____ HOLE NO. 4

LOCATION:_____ LOGGED BY: Morrison

ANGLE:_____ BEARING:_____ ELEV.:_____ DATE:_____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
376.3	¼" pink - 80° - plus quartz - fair chalcopyrite				
378.7	¼" pink - 80° - plus quartz - trace chalcopyrite.				
394.4	1/8" pink - 90° - trace chalcopyrite.				
	380 - 380.5 Breccia zone with 10% grey calcite cementing - slight pyrite in calcite.	- Sample No. 77			0.60
381.2	1/8" white calcite - 90° - barren				
381.7	1/32" " " 80° "				
382.0	1/32" " " 80° "				
383.4 - 389.2	DACITE Pale green-grey - mostly well fractured but in places more intensely with numerous closely spaced thread-like chlorite slips at all angles. From 383.4 - 387 - fair fine-grained pyrite dissemination and following thin slips. At 385 - 1/32" white calcite fracture filling at 30° - barren.				
389.2 - 433.8	PORPHYRITIC RHYOLITE - Generally well broken up by chlorite filled slips. Lost core 393.2 - 393.6 397 - 397.6 From 409 - 424 five sections of much shattered core in which chlorite slips are often coated with a fine powdery calcite, with in spots weak fine grained pyrite and galena mineralization. 422 - 423 - Slight pyrite on parts of slips. Lost core 424 - 425.				
	Calcite fracture filling				
409.3 - 410.4	Five 1/16" white - trace chalcopyrite and pyrite.				
411.8 - 413.0	Five 1/16" white - trace chalcopyrite and pyrite. 415.8 - 416.3 - 417 - 417.9 - All similar to above.				
429 - 431.2	A breccia fracture zone cemented with 15% calcite containing trace pyrite and chalcopyrite.	Sample 78			Tr.
433.8 - 434.3	LAMPROPHYRE				

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
434.3 - 448.5	PORPHYRITIC RHYOLITE Porphyritic texture not well developed. In places a moderate chloritic spotting up to match head size. Calcite fracture filling				
436.3	¼" pink - 45° - trace pyrite and chalcopyrite - some chlorite.				
438.5	2" pink calcite and quartz intergrown - some specular hematite - slight pyrite, trace chalcopyrite.	Sample 79			0.34
448.8	1/8" - 1/4" pink, white, 40° 45° - barren some chlorite.				
448.5 - 462.8	PORPHYRITIC RHYOLITE This section differs from above in that porphyritic texture highly developed, closely spaced feldspar phenocrysts in a grey pink feldspathic matrix numerous chlorite slips all angles. Calcite fracture filling similar to above, at 450.8 - 1/8" - 457.9 - 1/8" 459.2 - 1/16" all 40° to core, barren.				
462.8 - 465.0	DACITE As above - numerous chlorite fracture fillings. 464.0 - ¼" similar to above.				
465.0 - 475.9	PORPHYRITIC RHYOLITE As above. Calcite fractures 464.0 ¼" - 466.3 1/8" white - 40° - barren.				
475.9 - 485	DACITE Numerous chlorite coated slips and joints. Calcite fracture fillings as follows:				
476.3	1" white - 90° - slight pyrite - moderate specular hematite.				
477.2	½" white - 90° - slight pyrite - moderate specular hematite.				
477.7	Same as 477.2.				
479.7	¼" pink - 80° - slight pyrite and chalcopyrite - quartz and chlorite.				
481.7	¼" epidote - 45° - heavy pyrite and slight chalcopyrite.				

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
485 - 492	ANDESITE Dark green fine grained basic rock slips and joints not so plentiful as in dacite.				
492 - 493.5	DACITE to RHYOLITE Similar 475.9				
493.5 - 493.8	LAMPROPHYRE				
493.8 - 518.0	DACITE to RHYOLITE in several sections a breccia. Fine grained pyrite dissemination in many places. Calcite fracture filling: 496.7 1/8" - white at 35° - barren. 498.2 1/16" - " " " " 515.6 Several 1/16" - white - trace pyrite chalcopyrite - two specks galena.				
518			Sample No. 60	1.46	
512-518	See above				
518 - 520.5	BRECCIA ZONE Very angular (match head to several inches or more in size) fragments of bleached dacite? set in a white calcite cementing material which is sparsely mineralized with pyrite, chalcopyrite and occasional galena? Fragments are often slightly mineralized with fine grained pyrite but this is probably pyrite brecciation. 518 - 520		Sample No. 61	0.38	
520.5 - 521.0	Lost core.				
521.0 - 522.0	LAMPROPHYRE Sheared, crushed, chloritized, cut by several 1/16" - 1/8" calcite stringers. Cut core at 5° - 20° - barren.				
522 - 523	BRECCIA Large angular pieces dacite, bleached - white calcite cement, barren. 521-523		Sample No. 62	Tr.	

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
523-524	Lost Core				
524 - 524.5	Similar 522-523				
524.5 - 525	Lost Core				
525- 525.6	BLEACHED KEEWATIN Cut through by numerous hair-like calcite fractures with trace pyrite.				
525.6 - 526.5	Lost Core				
526.5 - 527	BLEACHED KEEWATIN, Dacite? Cut by 1/8" calcite at 0° - barren. Calcite fracture filling 524, 525.6 - 527 Similar to 521 - 523				
527-528	Lost Core				
528-529	Similar 526.5 - 527				
529-531	MUD SEAM No core recovered, this section appears to be filled with a sticky brown grey mud.				
531-532	BLEACHED LAMPROPHYRE Cut by several 1/8" to 1/4" white calcite fractures.				
532-534	LAMPROPHYRE Cut by several white to pink calcite fractures 1/16" to 1/4" at all angles and branching - barren.		531-536		0.14
534 - 535.8	ACID DIKE Bleached, carbonatized, unequal grain size of pink feldspar and opaque to glassy quartz - appears to intrude lamprophyre - sharp contacts. 535.8 - ¼" breccia fracture - calcite at 40° - barren.				
535.8 - 552.0	ANDESITE to DACITE or perhaps partly assimilated dacite inclusions, dark green, more basic, massive to again				

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: Morrison

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
	much fractured. In places a vague spotting of chlorite.				
	Calcite fracture filling				
536-536.9	Breccia fractures with 25% barren calcite				
537, 545.5, 546, 550, 551.1	calcite fractures 1/16" to 1/4" at 0° to 40° - all barren.				
552.0 - 552.8	PORPHYRITIC RHYOLITE				
552.8 - 553.1	BASIC FLOW OR DIKE?				
553.1 - 560.7	Similar to 552.0 - 552.8				
560.7 - 562.4	Similar to 552.8 - 553.1				
562.4 - 568.0	Similar to 553.1 - 560.7				
	Calcite fracture filling				
561 - 568.1	Ten 1/16" - 1/8" white, 15° to 40° barren				
568.1	½" white - 40° - barren - considerable specular hematite.				
568.4	¼" Similar - 30° - one speck chalcopyrite.				
568.0 - 577.0	RHYOLITE TO DACITE				
	Considerably broken up with carbonate and chlorite fractures and slips.				
	Calcite fracture filling.				
568.4 - 570.0	Nine 1/16" - 1/8" white at 0° to 90° barren.				
570.1	2" brownish white - 90° - slight specular hematite and chalcopyrite.				
577.0 - 597.0	PORPHYRITIC RHYOLITE				
	583.3 - 583.8 Lost core				
	591.4 - 591.8 " "				

PROPERTY:

LOCATION:

HOLE NO. 4

ANGLE: BEARING: ELEV.:

LOGGED BY: J.Hagan

DATE: February 9/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
577-597	PORPHYRITIC RHYOLITE Fine-grained, medium grey, very siliceous. Highly broken and shattered. Several 1/32" calcite seams throughout.				
575	1/16" white calcite seam				
577	1/32" " " "				
582	1/16" " " " at 40°.				
584.1	1/8" quartz-calcite stringer.				
586.2	Specks of chalcopyrite in a seam or joint.				
588.4 - 589.0	Lost Core				
591.5 - 592.0	Lost Core				
589.8	1/16" calcite seam.				
590.7	1/8" " "				
593.6	1/4" quartz stringer with hematite.				
593.7	1/16" pink calcite seam				
595.7	1/16" white calcite seam				
596.2	1/16" " " "				
597.5	1/8" calcite seam mineralized with chalcopyrite (Sample, 2')				
598.0 - 613.6	DACITE Fine-grained light grey, very siliceous and hard. Criss-crossed by many hair-like joints.				1.02
603.0	1/16" pink calcite seam.				
605.4	1/32" " " "				
608.8	1/32" " " "				
611.1	1/16" " " "				
613.6 - 692.5	DIABASE Contact is observed over core interval of ½" at 613.6.				
613.6 - 640.0	A very dark green, massive rock with a predominance of dark coloured minerals. Uniform texture except for variation in grain size which is very fine at 613.6. The grain size becomes increasingly larger especially from 624 to 640 where the texture has the appearance of diabase, but remains dark green with an increase in the lighter coloured minerals.				
640.0 - 641.3	Highly altered, chloritic, breccia zone (Similar to Hole No. 2 from 61.4 to 62.9) 1½" containing an abundance of epidote at 641.3	}	18"		0.18
641.3 - 692.5	Variable grained, light grey massive rock. Very fine-grained diabase at 641.3 to 644, and becoming increasingly larger as follows:				

PROPERTY: _____ HOLE NO. 4

LOCATION: _____ LOGGED BY: J. Hagan

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: Feb. 9/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
641.3 - 644	Aphanitic.				
644 - 650	Very fine-grained.				
650 - 657	Fine-grained.				
657 - 692	Fine to medium-grained.				
622.6	1/16" calcite seam				
623.4	1/16" white calcite seam				
623.5 - 624.5	A network of irregular quartz-calcite stringers and veins up to ½" containing inclusions or fragments of diabase.				0.32
624.8 - 625.2	Four irregular 1/8" to ¼" calcite seams.				
626.7	Two 1/16" calcite seams.				
627.0 - 627.2	Three ¼" irregular calcite seams.				
631.7	½" irregular pink calcite vein - barren.				
632.1	1/8" calcite seam at 60°.				
632.4 - 633.2	About five irregular 1/16" to ¼" pink calcite stringers.				0.16
634.6 - 635.5	About six irregular 1/16" to ¼" pink calcite stringers.				
636.3	½" irregular barren pink calcite stringer.				
637.3	1/16" pink calcite seam.				
639.3	¼" irregular pink calcite stringer.				
639.3 - 692.5	Absence of calcite seams. Occasional joints about one every 8" with massive sections between.				
692.5	END OF HOLE				
	Dip Test at 300' (corrected) 53°				
	Dip Test at 600' " "				

PROPERTY: East Cobalt Area Claim T-3591 — HOLE NO. [illegible]

LOCATION: 260 east of Hole No. 4 — LOGGED BY: J. Hagan

ANGLE: 50 — BEARING: West — ELEV.: — DATE: Feb. 19/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0 - 47.0	CASING				
47.0-209.0	COBALT SEDIMENTS				
47 - 73.5	Uniform fine to medium grained.				
73.5- 88.0	Similar to above, fine grained - greywacke?				
88.0- 92.5	Uniform fine grained with prominent bedding.				
92.5-101.0	Uniform fine grained - no bedding.				
101.0-105.3	Uniform fine grained - a few scattered pebbles.				
105.3-107.0	Breccia Zone - calcite cemented.	3.2'			
107 -108½	Only 6" broken core recovered.				
108½ -117.0	Uniform with a few scattered small pebbles.				
117.0-161.0	Uniform fine grained.				
161.0-184.0	Uniform fine grained with occasional bedding.				
184.0-205.0	Uniform coarse grained. One 4" boulder at 196'.				
205.0-209.0	Coarse conglomerate.				
	Alteration				
47. - 61.	Fairly well altered.				
61. - 93.5	Alteration nil				
93.5-105.3	Feeble local alteration.				
105.3-117.	Locally fairly well altered				
117. -209.	Alteration nil except for 6" at 156' and 2" at 194' which are fairly well altered.				
	Fracturing - General				
47 - 75	Pronounced shattering with many calcite seams				
75 -173	Medium amount of calcite seams.				
173 -209	Absence of calcite seams.				

209 End of hole

Property: East Cobalt Area, Claim T 3591

Hole No. 5
Logged by J. Hagan

Calcite seams and fractures as follows:

47.1	1/16" white calcite seam.
48.9	1/16" " " " at low angle to Core Axis.
50.8	1/16" " " " " " " " "
51.2	1/16" " " " " " " " "
53.9	1/16" " " " " " " " "
62.0	1/16" " " " .
62.2	1/4" white calcite seam at 30°.
62.9	1/16" white calcite seam.
63.9	1/8" white calcite seam at 45°.
64.2	1/16" " " " at 45°.
64.5	1/16" " " " at 45°.
65.6	1/16" irregular white calcite seam.
68.7	1/16" white calcite seam at low angle.
69.2	1/16" white calcite seam at 60°.
69.6	1/16" " " " at 30°.
70.4	1/8" pink calcite seam at 30°.
70.7	1/8" white calcite seam at 40°.
71.5	1/16" irregular white calcite seam.
73.0 - 74.8	Eight irregular 1/16" to 1/8" white calcite seams with a few grains of pyrite.
75.1	1/16" white calcite seam at low angle.
76.2	Six inches containing four 1/16" to 1/8" irregular white calcite seams. Mineralized with chalcopyrite specks.
77.7	1/4" irregular pink calcite seam mineralized with chalcopyrite and pyrite. 0.13/1"
80.8	1/8" irregular pink calcite seam.
82.0	1/8" irregular white calcite seam.
83. - 93	Eight tiny 1/32" irregular calcite seams.
94.5	1/16" white calcite seam along core axis.
96.1	1/16" " " " " " "
98.2	1/8" white calcite seam at 70°.
98.9-101.	Four irregular white calcite seams.
105.3-107.0	Breccia Zone. Calcite filled or cemented. 0.16/20
108.8	1/8" calcite seam at 30°.
109.1	1/16" white calcite seam along core axis.
110.2	1/16" " " " " " " "
112.2	1/8" irregular white calcite seam.
112.5	1/16" white calcite seam at 40°.
115.9	1/16" " " " at 60°.
118.4-119.5	Two 1/16" white calcite seams along core axis.
120.3	1/16" white calcite seam at 50°.
123.0-124.5	Three 1/16" irregular white calcite seams.
126. -127.	1/16" irregular white calcite seam along core axis.
128 - 131	About 10 very fine 1/32" calcite seams.
131 - 141	Occasional very fine calcite seam.
141.8	1/8" quartz-calcite seam at 70°.
147.6	1/32" white calcite seam.
150.2	Two 1/32" white calcite seams.
152.7 -154.1	Four 1/32" white calcite seams.
157.5	1/8" white calcite at 40°.
160.8	1/8" white calcite seam.

Property: East Cobalt Area, Claim T 3591 Hole No. 5

Logged by J. Hagan

Calcite seams and fractures cont'd.

	161.6-162.3	6" section containing many fine irregular calcite seams some of which are mineralized with chalcopyrite specks. Some leaching. 0.10/6"
	173.0	1/16" white calcite seam.
209.0		END OF HOLE

Dip Test at 200' (corrected) 47°

Sludge Samples - Hole No. 5

Footage	oz Ag
47 - 60	0.06
60 - 80	0.08
80 - 100	0.08
100 - 110	0.07
110 - 130	0.14
130 - 150	0.08
150 - 170	Nil
170 - 190	0.10
190 - 210	0.07

PROPERTY: East Cobalt Area Claim T-3591 HOLE NO. 6

LOCATION: 355' west of B.L. "D" on L-2S (80'W of Hole #4) LOGGED BY: J.Hagan

ANGLE: 50° BEARING: East ELEV.: DATE: Feb.19/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0 -45.	CASING				
45.-212.5	COBALT SEDIMENTS	Alteration			
45.0- 49.2	Uniform fine grained, occasional pebble	Well altered			
49.2- 50.5	Coarser grained	Well altered			
50.5- 57.6	Shattered fine grained siliceous	Fairly well			
57.6- 67.4	Uniform coarse grained, absence of pebbles.	Very well altered			
67.4- 87.3	Shattered fine grained siliceous 81.9-82.8 Lost core 83.1-84.0 Lost core	Feeble			
87.3- 90.5	Uniform fine grained, occasional pebble	Alteration nil			
90.5- 99.0	Uniform coarse grained	Fairly well locally			
99.0-151.0	Uniform fine grained, occasional pebble, slately texture 99.2-100.0 Lost core	99-120 Nil 120-129 Fairly well 129-141 Nil 141-142 Well 142-154 Nil 154-167 Fair Alteration nil			
151.0-174.0	Uniform fine grained bedding	Alteration feeble			
174.0-183.0	Uniform fine grained 178-180 Lost core 181-182 Lost core				
183 -194	Coarse conglomerate. Boulders up to 2".	Alteration nil			
194 -205	Fine conglomerate	194-199 Alt'n nil 199-205 Well			
205 -212.5	Coarse conglomerate	205-212 Feeble			

Property: East Cobalt Area Claim T-3591, Hole No. 6
Logged by: J. Hagan

		Ag Oz
Calcite seams and fractures as follows:		
50 - 51	1/16" white calcite seam along core axis	
52.4	1/16" " " " at 30°	
59.2	Two 1/16" " " "	
63.0	1" core	0.18
	1/18" calcite seam mineralized with fine pyrite and arsenides?	
65.2	Two 1/16" white calcite seams	
65.8	1/8" white calcite seam	
71.8	1/32" " " "	
76.0	1/16" " " " at low angle a few pyrite grains.	
77.9	1/16" white calcite seam at 30° - pyrite and chalcopyrite specks.	
78.4	1/8" white calcite seam at 30°	
84.2	1/8" " " " at 30°	
85.3	1/16" " " " at 40°	
88.4	1/16" " " " along core	
90.0	1/8" irregular white cal. at about 40°	
90 - 91	Two 1/16" white calcite seams along core.	
93.5	1/16" white calcite seam at 40°	
100.2	1/16" " " " at 10°	
101.9	About three 1/16" white at 10°	
103.8	1/8" white calcite seam at 20°	
107.8	1" core	11.11
	¼" brecciated calcite cemented fracture containing fine pyrite and arsenides?	
108.7	1/16" calcite seam with pyrite and fine arsenides?	
110.2	1/16" white calcite seam at 30°	
111.1	1/16" " " " along core	
112.2	Two 1/8" white calcite seam at low angle, chalcopyrite specks.	
115.8	3" core	5.92
	½" brecciated calcite cemented fracture with fine grained pyrite and arsenides? at 20° to core axis.	
121 -122.5	About 4 irregular 1/16" white calcite seams at low angles.	
127.3	1/8" blue quartz stringer at 30°.	
132.5	1/16" white calcite seam at 30°	
133.0	1/8" " " " at 70°	
133.4	1/16" " " " at 60°	
135.5	1/16" white calcite seam along core.	
136.1-137.0	1/8" pink " " " "	
140.3	1/16" " " " at 20°.	
157.0-157.3	1/8" brecciated fracture with about 4 irregular calcite seams in wall at low angles.	
170.3	4" core	1.96
	A 3" brecciated calcite cemented fracture with fine pyrite and arsenides?	
176.4	1/16" white calcite seam at low angle	

Property: East Cobalt Area / Claim T-3591 Hole No. 6
Logged by: J. Hagan

			Ag O:
Calcite seams and fractures cont'd.			
180.6		3" core	0.80
		A 1" brecciated calcite cemented fracture with fine pyrite and arsenides? at 20° to core axis.	
	183.9	1/16" white calcite seam at 30°	
184.1		Three 1/16" & 1/8" calcite seams at 30°, 3" core	1.38
	184.3-185.0	About 4 irregular calcite seams 1/32".	
	190.5-191.1	About 6 fine irregular 1/16" calcite seams	
191.4		2" core	0.66
		1/4" weak brecciated calcite cemented fracture mineralized with pyrite.	
	191.5-192.3	Several very fine 1/32" calcite seams	
	194.0	Two 1/16" calcite seams	
	197.2	1/16" white calcite seam at 40°.	
	198.6	1/4" brecciated calcite filled fracture at 30°.	
199.9		2" core	0.68
		1/4" brecciated calcite cemented fracture at 30°.	
	200.4	1/16" calcite seam at 30°.	
200.5-200.9		5" Core	0.42
		A brecciated fracture with about 20% calcite stringers up 1/4" - fine arsenides?	
	202.2	Two 1/16" white calcite seams.	
202.5-202.8		4" core	1.34
		1/2" brecciated calcite cemented fracture at 30° mineralized with arsenides?	
202.8-203.4		7" core	0.88
		Four irregular calcite seams along core. Some leaching and vugs.	
203.4-204.6		14" core	0.50
		One ½" brecciated calcite cemented fracture at 20° at 203.7	
		One 1" brecciated calcite cemented fracture at 30° at 204.3	
		Both fractures well mineralized with pyrite and arsenides.	
	212.5	END OF HOLE	

Sludge Samples - Hole No. 6

Footage	Oz Ag
45 - 60	0.08
60 - 80	0.07
80 - 90	0.09
90 - 100	0.06
100 - 120	0.05
120 - 140	0.07
140 - 160	0.10
160 - 180	0.12
180 - 190	0.10
190 - 212	0.16

PROPERTY: East Cobalt Area - Claim T-3591 HOLE NO. 9

LOCATION: 20' south of L-0, 25' East of B.L. "D". LOGGED BY: J.Hagan

ANGLE: 50° at collar BEARING: West ELEV.: DATE: Mar. 21, 1960.
at 50' - 49½° at 200' - 48°.

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0 -44.0	CASING				
44.0- 194.5	COBALT SEDIMENTS		ALTERATION		
44.- 49.	Fine grained - badly shattered and broken. Occasional bedding.		Fairly well altered locally		
49 - 59.5	More uniform coarser grained and occasional boulder.		Feeble alteration		
59.5-62.2	Coarse conglomerate.		Feeble alteration		
62.2-109.0	Uniform, fine grained, pronounced bedding and occasional 4" band with pebbles. One 3" boulder at 108.4 80.3 - 81.3 Lost core		Fairly well altered locally.		
109.0-129.0	Shattered fine grained. A few ½" pebbles.		Fairly well altered locally.		
129.0-130.0	Breccia Zone		- Nil		
130.0-148.0	Shattered fine grained		- Fairly well altered locally.		
148.0-157.5	More uniform - less shattering		- Feeble alteration.		
157.5-177.7	Fine conglomerate. One 12 inch boulder at 166.0		Feeble alteration.		
177.7-179.1	Breccia Zone		Nil		
179.1-189.0	Fine conglomerate, increased shattering.		Feeble alteration.		
189.0-194.5	Coarse conglomerate, well shattered.		Feeble alteration.		
194.5-286.0	KEEWATIN VOLCANICS				
194.5-206.4	Rhyolite - fine grained, siliceous - disseminated pyrite.				
× 206.4-212.6	Pronounced Breccia Zone				
212.6-229.2	Rhyolite, very fine grained - disseminated pyrite. 213.3 1" lamprophyre dyke with sharp contact in footwall at 65°. 227-229 Several subangular inclusions.				
229.2-249.0	Rhyolite, coarser grained - several stringers of epidote. Diss. pyrite.				
249.0-263.5	Rhyolite Porphyry. Uniform, massive, occasional leached section, up to 6".				
263.5-286.0	Rhyolite. Very fine grained, siliceous. Many hair-lake cracks criss-crossing core.				
286.0	END OF HOLE				

East Cobalt Area - Claim T-3591
Location: 20' south of L-0, 25' East of B.L. "D"

Hole No. 9
Logged by: J. Hagan
Date: Mar. 21, 1960.

SEAMS, FRACTURES AND SAMPLING — Ag Oz

46.0 - 48.5 Sample No. 157 - 2.5' core — Nil

Badly shattered and broken - fine pyrite.

52.5 1/16" barren quartz stringer

57.5 Sample No. 158 - 4" core — Nil

1/8" quartz stringer well mineralized with chalcopyrite.

73.5 1/8" barren quartz stringer at 40°.
73.7 1/8" barren quartz stringer at 40°.
74.0 1/16" " " " " 40°.
75.9 1/2" " " " blebs of chalcopyrite.

76.3 - 77.1 Sample No. 159 - 10" core — 0.04

6" Quartz stringer - well mineralized with chalcopyrite - tight walls - 70% quartz.

78.0 1" quartz stringer.

80 - 90 Sludge Sample No. 171 — 0.18

82.4 1/16" calcite seam at 30°.
84.4 1/32" " " with fine pyrite.
102.6 1/16" " " at 40°.
104.9 1/16" " " " 40°.
106.5 Two 1/16" irregular calcite seams.
106.8 1/16" " " "
107.3 1/32" calcite seam at 30°.
108.7 1/32" " " " 30°.
109.8 1/4" brecciated calcite filled fracture at 30° - well defined walls.

110.5 Sample No. 160 - 5" core — 0.04

3/4" strong brecciated fracture, calcite filled. Fine grained arsenides.

113.6 1/16" calcite seam at 30°.
114.6 1/16" " " " 30°.
118.0 1/32" " " " 30°.

119.3 - 122.3 Sample No. 161 - 2.0' core — Nil

A strong brecciated calcite fracture running down or along core. Probably 2 or 3 inches wide. Some leaching and crystaline calcite in vugs.

East Cobalt Area - Claim T-3591
Location: 20' south of L-0, 25' East of B.L. "D"

Hole No. 9
Logged by: J. Haga
Date: Mar. 21, 1960

SEAMS, FRACTURES AND SAMPLING - Cont'd.

		Ag Oz.
123.7	Four 1/16" calcite seams.	
124.6	1/16" calcite seam	
129.0 - 130.0	Sample No. 162 - 12" core Breccia Zone having no clearly defined walls. Many irregular 1/16" to 1/8" calcite fractures and patches containing brecciation.	Trace
131.2	Sample No. 163 - 5" core A strong 1" brecciated calcite fracture at 30°. Well defined walls. Fine arsenides.	Trace
132.1	1/32" calcite seam.	
136.9	1/16" " "	
139.6	1/16" " "	
140.3	1/16" " " at 40°.	
140.6	1/16" " " " 20°.	
140.9	1/16" " " " 30°.	
142.8	1/16" " " " 40°.	
143.2 - 144.2	Four 1/16" irregular calcite seams.	
144.9	1/8" calcite seam along core.	
145.4	Sample No. 164 - 3" core 1/2" brecciated calcite fracture at 30°. Well defined walls.	Nil
146.3 - 147.8	Sample No. 165 - 6" core 1/2" brecciated calcite fracture running down or along core. Walls not clearly defined.	Trace
148 - 149.5	Leached section with several vugs.	
149.7	Three 1/16" irregular calcite seams.	
151.1	1/16" irregular calcite seam at low angle.	
152.1	A weak ¼" brecciated fracture - no walls.	
153.2 - 155.0	Sample No. 166 - 1.8' core A ½" breccia fracture (weak) - tight walls not clearly defined. - Some leaching - 30° to C.A.	Trace
155.3	1/16" calcite seam at 30°.	
155.5	1/16" " " " 30°.	
156.1	1" containing fine irregular patches and blebs of calcite and fine pyrite.	
156.9 - 157.4	Sample No. 167 - 6" core A strong ¼" brecciated calcite filled fracture at 20° with fine pyrite and arsenides.	0.04

East Cobalt Area - Claim T-3591
Location: 20' south of L-0, 25' East of B.L. "D"

Hole No. 9
Logged by: J. Hagan
Date: Mar. 21, 1960.

SEAMS, FRACTURES AND SAMPLING - Continued

		Ag Oz.
157.8	1/16" calcite seam at 30°.	
158.1	Two 1/32" " " " 30°.	
159.2	A weak 1/8" brecciated calcite fracture at 20°.	
163.5	1/8" calcite seam at 40°.	
164.8	1/16" calcite seam at 40°.	
166.9	Three 1/16" pink calcite seams at 50°.	
167.5	1/16" calcite seam at 30°.	
168.4	1/16" pink calcite seam at 40°.	
170.7	Two 1/16" pink calcite seams at 20° - fine chalcopyrite.	
173.0	1/16" pink calcite seam at 60°.	
174.9	1/16" " " " " 20° - fine chalcopyrite	
177.1 - 179.1	Sample No. 168 - 1.4' core Breccia zone - calcite cemented - fine pyrite. Fractured hangingwall at 60° containing calcite stringers. This section very similar to Hole #5 from 105.3 to 107.0.	Trace
180.3	1/16" calcite seam at 40°.	
180.7	1/16" " " " 70°.	
181.5	1/32" " " " 60°.	
182.0	Two 1/32" " " " 80°.	
182.5	1/16" irregular calcite seam at low angle.	
183.2	1/32" calcite seam at low angle.	
184.5	1/8" " " at 20°.	
186.0	1/32" " "	
187.0 - 187.9	Sample No. 169 - 10" core ¼" calcite vein and a ½" calcite vein in a strong fracture with sheared walls. Very little brecciation. Some leaching and vugs.	0.05
189.7	1/16" calcite seam - fine pyrite.	
192.3 - 193.0	Sample No. 170 - 8" core Breccia zone in coarse conglomerate. Fine fragments cemented with calcite. Well sheared walls.	Trace
194.9	Two 1/8" calcite seams.	
195.1	1/16" calcite seam at 50°.	
203.8 - 205.3	1/8" calcite seam running along core.	
206.4 - 212.6	Sample No. 172 - 6.2 ft. Pronounced breccia zone with disseminated pyrite and chalcopyrite. 206.4 - 208.2 Angular fragments cemented with silica and minor calcite. 208.2 - 212.6 Calcite cemented.	

East Coast Area - Claim T-3591 Hole No. 9
Location: 20' south of L-0, 25' East of B.L. "D" Logged by: J. Hagan
Date: Mar. 21, 1960.

SEAMS, FRACTURES AND SAMPLING - Continued Ag Oz.

230.5 - 231.1 Eight 1/16" to 1/8" irregular stringers of epidote.
232.4 Three 1/32" epidote stringers.
236.0 Two 1/32" " "
237 - 238.1 Eight irregular epidote stringers.
238.1 - 241.5 Several stringers and blebs of epidote.
233.4 - 233.9 A strong fracture containing abundant epidote, hematite and coarse pyrite - minor calcite.
240.6 1/16" pink calcite seam at 40°.
247.1 1/16" white " " " 60°.
248.9 1/16" " " " " 60°.
250.6 1/16" " " " " 40°.
251.3 1/16" epidote stringer.
251.7 Two 1/16" epidote stringers.
253.2 1/16" calcite seam.
256.5 Two inches of leaching with calcite in vugs.
258.0 - 258.4 About 3 1/8" irregular calcite seams containing brecciation. Possible weak fracture.
259.0 Two 1/32" epidote stringers.
260.8 1/8" calcite seam at 40°.
262 - 263 Leached section with calcite in vugs.
263.5 1/8" epidote stringer at 40°.
264.2 1/16" " " " 40°.
264.6 1/16" calcite seam at 60°.
265.6 1/8" epidote stringer at 70°.
266.1 1/2" containing several irregular epidote stringers.
266.5 1" " " " " "
266.9 1/16" calcite seam at 30°.
271.7 1/16" " " " 30°.
273.0 1/16" epidote stringer.
273.2 1/16" " "
274.1 1/16" calcite seam.
278.2 1/32" " "
280.6 1/32" " " at 40°.
282.5 1/32" " " " 40°.

286.0 END OF HOLE

PROPERTY: East Cobalt Area - Claim T-27793 HOLE NO. 10

LOCATION: 200 ft. east of BL. "D" on Line 6 S LOGGED BY: J. Hagan

ANGLE: 50° at collar 48° at 300' BEARING: West ELEV.: DATE: Mar. 27/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-43	CASING				
43.0-177.0	COBALT SEDIMENTS	ALTERATION			
	43.0-77.1 Uniform fine grained, massive. Many bedding planes mostly at 60°. Occasional pebble. 1" boulder at 74.	Locally feeble			
	77.1-80.4 Uniform coarse grained - massive. Many fine pebbles 1/8".	Alteration nil			
	80.4-100.9 Uniform fine grained -	Well altered.			
	100.9-111.5 Uniform coarse grained - massive. Many fine pebbles.	Alteration nil			
	111.5-131.0 Uniform fine grained, massive.	Alteration nil			
	131.0-132.3 Fine conglomerate.	Alteration nil.			
	132.3-147.5 Fine grained - bedding. Well shattered and broken.	Alteration nil.			
	138.1-139.1 Breccia Zone				
	145.0-146.7 Badly broken.				
	146.7-147.5 Lost core.				
	147.5-159.0 Fine conglomerate. -	Alteration nil			
	159.0-165.0 Coarse conglomerate.	Alteration nil.			
	165.0-177.0 Fine conglomerate. -	165-174.4 nil. 174.4-177.0 well altered.			
177.0-179.2	LAMPROPHYRE DYKE				
179.2-182.4	RHYOLITE PORPHYRY - (Keewatin)				
182.4-182.9	LAMPROPHYRE DYKE Sharp contacts at 40°.				
182.9-183.3	RHYOLITE PORPHYRY				
183.3-187.3	LAMPROPHYRE DYKE - broken				
187.3-330.0	KEEWATIN VOLCANICS Minor lamprophyre dykes as follows: 187.7-188.3 Irregular contacts. 189.1 1" lamp dyke. 193.8 2" " " in broken core. 198.9 1" " " . 198.9-216.6 Rhyolite porphyry. 216.6-238.5 Rhyolite-shattered & broken - Breccia Zone 238.5-252.5 Rhyolite - massive 252.5-330.0 Rhyolite porphyry - massive.				
330.0	END OF HOLE.				

128'
33'
114'
112'

Horiz
(152) @ 237 1.5' X 2.28

(189) @ 293.2' - 295.5'
Argentite

East Cobalt Area - Claim T-27793
Location: 200 ft. east of BL "D" on Line 6S

Hole No. 10
Logged by: J. Hagan.
Date: Mar. 27/60.

CALCITE SEAMS, FRACTURES - SAMPLING — Ag Oz.

67.0 1/32" pink calcite seam at 60°.
68.1 1/16" white " " " 40°.
69.6 1/16" " " " " 30°.
70.5 1/16" " " " " 30°.
71.6 1/32" pink " " " 30°.

72.9 Sample No. 192 - 1" — 0.28

1/8" white calcite seam with fine brecciation and fine arsenides.

81.5 Two 1/16" white calcite seams at 50°.
82.0 1/32" grey calcite seam at 30°.
82.5 Two irregular white calcite seams.
88.1 1/16" white calcite seam at 30°.
92.3 1/32" " " " " 20°, fine arsenides.
100.5 1/32" " " " " 30°.
100.8 1/16" " " " " 30°.
122.6 Three 1/16" irregular white calcite seams - fine pyrite.
123.0 1/16" white calcite seam at 30°.
123.3 1/8" quartz stringer at 50°.
123.5 1/8" " " " 50°.
123.8 Two 1/16" quartz stringers at 50°, and 2 1/32" irregular white calcite seams.
124.2 1/8" white calcite seam at 40° - fine pyrite.
124.6 1/8" " " " " 40° " "
127.1 1/16" " " " in broken core
127.2 Two 1/16" white calcite seams at 40°.
127.4 1/16" white calcite seam at 10°.
127.7 1/8" crystalline calcite seam at 70°.
128.3 Two 1/16" white calcite seam at 40°.

128.4-129.2 Sample No. 193 - 10" — Trace

1/8" white calcite stringer along core for 10" and six 1/16" calcite seams branching from it at regular intervals. Fine brecciation.

133.6 1/16" white calcite seam at 40°.
134.5 Two 1/16" white calcite seams at 30°.
135.0-136.5 Four 1/32" white calcite seams at low angles.
138.0 1/16" irregular white calcite seam.

138.1-139.1 Sample No. 194 - 12" — Trace

Breccia Zone. Several strong ¼" calcite filled fractures with breccia fragments. About 10% white calcite. - fine pyrite.

139.1-140.2 A system of about 6 irregular 1/16" white calcite seams branching and joining.

East Cobalt Area - Claim T-27793 Hole No. 10
Location: 200 ft. east of BL"D" Logged by: J. Hagan
on Line 6S Date: Mar. 27/60.

CALCITE SEAMS, FRACTURES - SAMPLING Cont'd. Ag Oz.

141.8 1/16" white calcite seam at 50°.
142.1 1/16" " " " " 40°.
142.9 1/16" " " " " 10°.
143.5 1/16" irregular white calcite seam.

140-150 Sludge Sample No. 195 Trace

152.8 1/16" white calcite seam at 50°.
153-167 Minor calcite seam - less than 1/32".
167.5-168.2 1/32" white calcite seam along core.

174.7 Sample No. 196 - 4" 0.22

¼" grey calcite stringer and 1/8" white containing fine pyrite - in broken core.

175.2 1/16" white calcite seam in broken core.
182.5 1/8" pink calcite seam at 40°.
183.5 1/16" " " " in broken core.
184.0 1/8" white " " at 40° - fine pyrite.
186.8 ¼" pink calcite seam at 40° - fine pyrite.
187.5 Two 1/8" pink calcite seams at 70°.
189.1 ½" irregular pink calcite - fine chalcopyrite in lamprophyre dyke.
189.2 ¼" white calcite seam at 70°.
195.6 ½" "splash" of pink calcite on outside of core.
195.8 Two 1/16" pink calcite seams.
196.4 1/16" pink calcite seam at 40°.
196.7 1/16" " " " " 40°.
197.0 1/4" white calcite seam at 60°.

198.8 Sample No. 197 - 3" 0.08

About 25% pink calcite stringers in a 2" lamprophyre dyke.

200.9 1" breccia fracture, calcite cemented in broken core.
201.2 ¼" smokey white quartz stringer.
201.6 1" " " " " at 60°.
202.0 Two 1/16" pink calcite seams at 60°.
202.2 1/32" white calcite seam.
202.3-202.9 Quartz and pink calcite in broken core. 1" of brecciation - quartz-calcite filled. Sheared hangingwall.
203.6 1/16" pink calcite seam at 30° - fine pyrite.
204.6 ¼" quartz and pink calcite stringer, fine brecciation - in broken core.
208.3 ½" quartz stringer - hematite specks.
212.3 ¼" pink calcite seam at 30°, slickensided walls.
217.4 1/8" pink calcite seam at 50°.
218.8 1/8" " " " " 30°.
221.8 ¼" " " " " 50°.

East Cobalt Area - Claim T-27793
Location: 200 ft. east of BL"D" on Line 6S

Hole No. 10
Logged by: J. Hagan
Date: Mar. 27/60.

CALCITE SEAMS, FRACTURES - SAMPLING Cont'd.

		Ag Oz.
220.0-220.7	Sample No. 198 - 8"	
	3" breccia fracture cemented with pink calcite. Walls are well cracked and shattered.	0.56
223.0	1/8" pink calcite seam at 30°.	
223.3 - 224.0	Sheared and leached. Several fine pink calcite seams.	
225.5-228.0	Sample No. 212 - 2.5'	
	Weak brecciation in discoloured rhyolite. Several fine pink calcite seams. Well shattered and cracked. Fine pyrite and hematite.	0.05
228.0-232.0	Sample No. 213 - 4.0'	
	Weak brecciation and several fine pink calcite seams. Disseminated pyrite grains.	Trace
232.0-236.5	Sample No. 214 - 4.5'	
	Weak brecciation in discoloured rhyolite. Fine pink calcite seams and disseminated pyrite and hematite.	Nil
236.5-238.0	Sample No. 199 - 1.5'	
	Strong brecciation in discoloured rhyolite. Several ¼" white and pink calcite seams and several 1/16" chalcopyrite, hematite and pyrite.	2.28
238.0-240.0	Sample No. 215 - 2.0	
	Weak brecciation with fine calcite seams, pyrite and hematite.	Trace
243.9	1/16" white calcite seam at 50°.	
246.8	1/8" " " " " 50°.	
265.9	1/8" " " " " 60°.	
267.0	Sample No. 216 - 2"	
	A brilliant red or scarlett discolouration in a crack in massive rhyolite. *Ruby Silver ?*	0.58
267.9	1/16" white irregular calcite seam.	
268.4	1/16" " calcite seam at 60°.	
269.3	Sample No. 217 - 2"	
	1/8" white calcite seam at 40°. 1/8" chloritic walls containing specular hematite.	Trace
270.4	Sample No. 218 - 2"	
	¼" grey calcite seam in massive rhyolite.	Trace

East Cobalt Area - Claim T-27793
Location: 200 ft. east of BL"D" on Line 6S

Logged by: J. Hagan
Date: Mar. 27/60

CALCITE SEAMS, FRACTURES - SAMPLING Cont'd.	Ag Oz.
271.7-272.4 Sample No. 219 - 9"	Trace
A well defined 3" fracture at 40°. About 15% grey calcite and ½" of massive hematite.	
267.8 1/32" white calcite seam.	
293.2 Sample No. 200 - 1½"	3.96
¼" pink calcite seam at 50° with fine grained argentite?	
293.3 Sample No. 207 - 1½"	
1½" sample in walls of above stringer	0.08
293.4-295.0 Sample No. 209 - 16"	0.04
Argentite specks? in cracks and seams.	
295.0-295.5 Sample No. 208 - 6"	0.10
1/8" pink calcite seam at 40° with fine argentite? in stringer and walls.	
305.6 1/8" pink calcite seam at 60°.	
315.2 ¼" quartz stringer at 50°.	
318.4 ½" " " " 30°.	
319.2-319.7 Sample No. 210 - 6"	
½" siliceous dyke with fine pyrite.	Trace
330.0 END OF HOLE.	

PROPERTY: East Cobalt Area - Claim T-3591 HOLE NO. 13

LOCATION: 510' W. of B.L. "D" on L-23 (or 150' W of Hole 6) LOGGED BY: J. Hagan

ANGLE: 50° at collar BEARING: East ELEV.: DATE: Apr. 1/60

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-15.0	CASING				
15.0-197.6	COBALT SEDIMENTS	ALTERATION			
	15.-18. Uniform, fine grained, massive.	Well altered.			
	18.-24.5 Conglomerate - massive - 6" boulder at 24.0'.	Alteration nil			
	24.5-68.7 Uniform, fine grained, massive.	24.5-46 well alt'd.			
	44-45 Lost core	46-51 intense			
	64.1-67.3 fine conglomerate	51-68.7 fairly well altered locally.			
	68.7-83.3 Uniform coarse grained.	Well altered.			
	83.3-96.5 Uniform fine grained, occasional bedding.	Fairly well altered locally.			
	96.5-103.4 Uniform coarse grained.	Well altered			
	103.4-125.3 Uniform fine grained bedding and occasional pebble.	Fairly well altered, locally.			
	125.3-158.5 Fine conglomerate. Some boulders up to 2".	125-145 well alt'd locally.			
		145-159 well alt'd.			
	158.5-173.0 Coarse conglomerate	159-164 Feeble			
		164-173 well alt'd.			
	173.0-184.0 Uniform fine grained. Absence of pebbles except for one at 175 and two at 180.	173-184 Well alt'd.			
	184.0-191.3 Fine conglomerate.	184-191 Well alt'd.			
	191.3-197.6 Coarse conglomerate.	191-197.6 Fairly well altered.			
197.6-200.0	KEEWATIN VOLCANICS				
	Rhyolite porphyry. Sharp, well defined contact at 197.6 at 60° to core axis. Well shattered and partly broken.				
200.0	END OF HOLE.				

Property: East Cobalt Area - Claim T-3591 Hole No. 13
Location: 510' W. of B.L. "D" on L-2S Logged by: J. Hagan
(or 150' W of Hole 6) Date: Apr. 1/60

CALCITE SEAM AND FRACTURES - SAMPLING

		Ag Oz
17.0	White calcite seam along core. (1/32")	
20.8	Disseminated pyrite over ½".	
25.1	1/16" white calcite seam at 50°.	
35.8	1/16" " " " " 30°.	
36.7	Two 1/32" white calcite seams at 40°.	
40.8	1/32" white calcite seam at 50°.	
41.5	½" irregular white calcite seam at 60°.	
41.7	1/32" white calcite seam at 30°.	
45.0	1/16" " " " " 30°.	
48.5	1/16" " " " " 30°.	
49.8	1/16" " " " , irregular.	
50.1	1/32" " " " at 30°.	
	1/16" quartz stringer at 60°.	
51.3	½" irregular quartz-calcite stringer.	
54.8	1/8" white calcite seam in broken core.	
56.4	1/32" irregular white calcite seam.	
60.6	Two 1/8" quartz stringers at 40°.	
67.1	1/32" white calcite seam at 40°.	
68.0	1/32" " " " " 40°.	
80.5	1/16" white calcite seam at 40°.	
84.1	½" quartz stringer at 50°.	
85.9	½" irregular quartz stringer.	
88.4	1/32" irregular white calcite seam.	

88.9 Sample No. 224 - 5" — Nil

3 irregular white calcite seams branching and joining.

89-168 Absence of calcite except occasional paper thin seam.

149.6 ½" irregular quartz stringer.

168.6-170.8 Sample No. 225 - 2.2' — Nil

Several calcite seams in broken core as follows:
169.0 1/8" white at 30° - fine brecciation and fine pyrite.
169.1 1/8" white at 30° - fine brecciation.
169.7 1/8" white along core " " .

171.3-172.3 Sample No. 226 - 12" — Nil

A very strong brecciated fracture cemented with white calcite. One wall only running down core for 10". Fine arsenide mineralization.

172.4 1/16" irregular pink calcite seam.
176.1 ¼" pink calcite seam in broken core.
184.5 1/16" pink " " at 10°.

Property: East Cobalt Area - Claim T-3591 Hole No. 13
Location: 510' W. of B.L. "D" on L-2S Logged by: J. Hagan
(or 150' W of Hole 6) Date: Apr. 1/60

CALCITE SEAM AND FRACTURES - SAMPLING Cont'd. Ag Oz

189.2 1/32" white calcite seam at 30°.
189.9 1/32" " " " " 60°.

190.2 Sample No. 227 - 1" Nil

1/8" white calcite seam with chalcopyrite and fine arsenides. About 20° to core.

200.0 END OF HOLE

RTY: East Cobalt Area - Claim No. T-3591 HOLE NO. 13 (Cont'd)

ION: 510' W of B.L. "D" on Line 2S. LOGGED BY: J. Hagan

50° at collar BEARING: ELEV.: DATE: May 5/60

at 300', 49½° at 400, 48° at 600'.

FROM	TO	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
.6		KEEWATIN VOLCANICS				
197.6	212.8	Rhyolite porphyry. Occasional pyrite disseminations - massive - a few fine cracks and chloritic slips.				
212.8	266.4	Rhyolite. Very fine grained - massive pyrite disseminations.				
266.4	290.0	Rhyolite Porphyry - Pyrite and hematite.				
290.0	319.0	Rhyolite.				
319.0	325.7	Rhyolite Porphyry. Pyrite and hematite, in disseminations and fine stringers.				
325.7	336.0	Rhyolite.				
336.0	349.0	Rhyolite Porphyry.				
349.0	349.5	Lamprophyre Dyke.				
349.5	349.7	Sheared Rhyolite.				
349.7	350.0	Lamprophyre Dyke.				
350.0	378.3	Rhyolite Porphyry. 367 - 378 Increased cracks and joints 369.8 3" lamprophyre dyke.				
378.3	378.7	Lamprophyre dyke.				
378.7	391.0	Rhyolite Porphyry.				
391.0	392.1	Lamprophyre dyke.				
392.1	393.2	Rhyolite Porphyry.				
393.2	393.8	Lamprophyre dyke.				
393.8	405.7	Rhyolite Porphyry.				
405.7	406.0	Lamprophyre Dyke.				
406.0	417.7	Rhyolite Porphyry.				
417.7	418.7	Lamprophyre Dyke. Sharp contacts at 70°.				
418.7	421.0	Rhyolite Porphyry.				
421.0	423.3	Lamprophyre Dyke. H.W. at 40°. F.W. at 80°.				
423.3	435.8	Rhyolite Porphyry.				
435.8	437.7	Lamprophyre Dyke.				
437.7	446.8	Rhyolite Porphyry.				
446.8	449.1	Lamprophyre Dyke.				
449.1	466.0	Rhyolite Porphyry.				
466.0	503.1	Rhyolite.				
503.1	509.3	Lamprophyre Dyke.				
509.3	517.8	CALCITE ZONE Numerous calcite seams and stringers (about 20%) up to ¼", - mostly at 40° to core axis. Sheared Lamprophyre Dyke.				
517.8	518.7	CALCITE VEIN or a pink calcite filled fracture. Hanging wall is well sheared at 40°.				

PROPERTY:

LOCATION:

ANGLE: BEARING: ELEV.:

HOLE NO. 13 (Cont'd)

LOGGED BY:

DATE:

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
518.7 - 519.7	Lamprophyre Dyke.				
519.7 - 525.2	Rhyolite Porphyry.				
525.2 - 529.2	Rhyolite.				
529.3 - 530.2	Lamprophyre Dyke.				
530.2 - 568.6	Rhyolite - massive - diss. pyrite.				
568.6 - 573.0	Rhyolite Porphyry - massive - diss. pyrite.				
573.0 - 598.3	Rhyolite.				
598.3 - 619.1	Rhyolite Porphyry.				
619.1 - 622.3	Lamprophyre Dyke - Sharp contacts at 70°.				
622.3 - 625.6	Rhyolite.				
625.6 - 628.7	Andesite Dyke.				
628.7 - 652.4	Rhyolite.				
645. - 652.	Well cracked and fractured.				
652.4 - 655.8	Lamprophyre Dyke - Sharp contacts at 70°.				
655.8 - 658.9	BRECCIA ZONE				
658.9 - 666.5	Rhyolite - well cracked and fractured.				
666.5 - 669.0	Lamprophyre Dyke. Two ½"? mud seams at 667.1 and 667.6.				
669.0 - 752.7	Rhyolite. 675 - 679 Well cracked and fractured - brecciation.				
752.7 - 762.0	DIABASE				
767.0	END OF HOLE				

		Ag Oz.
204.9	½" grey quartz stringer in broken core.	
215.1	1/8" irregular quartz-calcite seam - hematite.	
215.8	1/16" white calcite seam at 30°.	
217.5	½" quartz-calcite seam at 60° - magnetite.	
218.0	2 - 1/8" irregular white calcite seams.	
220.1	1/16" white calcite seam at 40°.	
221.0	¼" irregular white calcite seam.	
222.8	1/8" " " " at 70°.	
222.9	1/8" " " " at 70°.	
226.5	1/16" " " " in broken core.	
227.4	1/8" pyrite stringer at 50° - massive pyrite.	
228.0 - 230.8	Weak breccia zone - diss. pyrite.	
232.5	1/8" pink calcite seam at low angle.	
233.7	1/8" " " " at 50° - chalco. specks.	
234.6	1/8" irregular pink calcite seam with chalco. & pyrite.	
235.7	1/8" irregular pink calcite seam at 70°.	
238.1	2 - 1/16" pink calcite seamsin broken core.	
238.8	1/16" irregular pink calcite seam at low angle.	
239.2	1/8" pink calcite seam at 60°.	
240.1	1/8" quartz-calcite seam at 70° - magnetite and hematite.	
240.6	2 - 1/16" quartz-calcite seams - pyrite.	
240.9	1/16" quartz-calcite seam.	
241.1	1/16" pink calcite seam at 40°.	
244.5	1/16" " " " " 30°.	
245.1	1/8" quartz-calcite seam at 30° - hematite and pyrite.	
245.3	1/8" pink calcite seam at 30°.	
246.2	An irregular ¼" quartz stringer - abundant hematite.	
247.0	1/16" and 1/8" pink calcite seam at 20°.	
247.4	Sample No. 234 1"	0.18
	¾" pink calcite filled fracture with well defined walls at 75°. Epidote and chalcopyrite specks.	
249.0	1/8" white calcite seams at 60°.	
249.4	Sample No. 235 2"	0.20
	1/8" stringer of pyrite and hematite.	
251.3	1/16" white calcite seam at 70°.	
251.8	1/16" " " " " 70°.	
252.6	1/8" irregular pink calcite seam at 70°.	
253.0	1/8" " " " " " 70°.	
259.4	1/8" pink calcite seam at 60° - pyrite.	
260.5	1/8" " " " " 60°.	
263.2	1/8" irregular seam with hematite and magnetite.	
263.8	1/16" white calcite seam at 50°.	
268.3	1/16" " " " " 60°.	
269.8	1/8" quartz stringer at 60° - pyrite and hematite.	
271.3	1/8" pink calcite seam at 40° - chalco " " .	
271.8	1/8" quartz-calcite seam at 60° - magnetite.	

		Ag Oz.
272.4	1/16" irregular pink calcite seam.	
272.8	1/8" quartz-calcite seam - magnetite.	
273.7	1/16" " " " at 50° - magnetite and pyrite.	
274.1	1/8" quartz-calcite seam at 50° - hematite and pyrite.	
281.1	1/16" white calcite seam at 70°.	
283.6	1/8" pyrite and hematite stringer.	
285.4	1/8" irregular calcite seam - pyrite and hematite.	
287.0	1/8" stringer - abundant hematite.	
289.3	1/8" stringer " " and pyrite.	
304.1	1/8" epidote stringer at 60°.	
320.8	¼" stringer - abundant hematite.	
326.9	1/16" pink calcite seam at 40°.	
327.2	1/8" " " " " 50°.	
349.6	Sample No. 236 2"	Nil
	2" sheared rhyolite between 2 lamprophyre dykes. About 6 irregular pink and white calcite seams.	
350.4	1/16" pink calcite seam at 80° - pyrite and hematite.	
355.6	1/16" " " " " 20°.	
369.7	1/8" " " " " 70°.	
370.2	2 - 1/16" pink calcite seams at 40°.	
370.5	1/16" pink calcite seam at 60°.	
371.0	1/8" " " " " 20°.	
373.6	1/16" irregular pink calcite seam.	
378.7	1/4" pink calcite seam at 60°.	
393.7	Sample No. 237 1"	0.16
	½" irregular pink calcite seam at 60° within lamp. dyke - chalcopyrite.	
402.2	1/8" pink calcite seam at 80° - chalcopyrite.	
405.8	Sample No. 238 3"	0.10
	About 50% pink and chite calcite irregularly distributed in lamprophyre dyke - chalco.	
406.8	1/16" irregular white calcite seam along core.	
411.2	1/8" white quartz stringer at 70°.	
413.5	1" blue quartz stringer at 80° - chalco.	
414.9	1/8" " " " " 70° " .	
416.0	1/32" white calcite seam along core.	
417.8	1/8" pink calcite seam at 80°.	
419.4	¼" quartz stringer at 20° - pyrite.	
419.6	¼" pink calcite seam at 20° - chalco. specks.	
421.0	¼" pink " " " 30° in H.W. of lamp. dyke.	
422.9	1/8" white calcite seam at 60°.	
423.4	1/8" pink " " in F. W. of lamp. dyke.	

		Ag Oz.
423.7	1/16" irregular pink calcite seam - chalco specks.	
424.3	1" blue quartz stringer at 60° - Abundant magnetite.	
430.5	½" containing about 20% pink calcite in lamprophyre dyke.	
432.7	2 - 1/16" pink calcite seams at 60°.	
434.1	1/16" quartz stringer at 70°.	
434.8	1/16" " " " 70°.	
435.1	1/16" white calcite seam at 20°.	
435.6	1/8" pink calcite seam at 70°.	
441.5	1/16" " " " 70°.	
446.8	1/8" irregular pink calcite seam.	
447.8	Sample No. 239 1"	0.12
	1" pink calcite seam in lamp. dyke.	
448.6	2 - 1/16" white calcite seams at low angle.	
449.1	2 - 1/16" irregular white calcite seams.	
457.5	1/8" quartz-calcite seam at 80° - hematite.	
467.1	1/8" " " " 80°, " .	
471.5	1/8" pink calcite seam at 60°.	
477.8	1/16" white calcite seam at 70°.	
481.4 - 487	Several fine 1/32" discontinuous white calcite seams at varying angles.	
487.3	1/16" white calcite seam at 60°.	
487.5	1/8" pink calcite seam at 50° - chalco. specks.	
488.0	1/16" " " " 70°.	
488.4	2 - 1/16" pink calcite seams at 70°.	
489.3	1/16" pink calcite seam at 30°.	
490.0	1/8" " " " 70°.	
490.8	1/16" " " " 60°.	
491.4	1/8" irregular white calcite seam.	
493.8	1/8" white calcite seam at 60°.	
494.1	1/8" " " " 60°.	
494.5	¼" magnetite stringer at 30° - pyrite.	
494.7	1/16" white calcite seam at 70°.	
495.2	1/16" " " " 50°.	
496.0	1/8" pink calcite seam at 70°.	
497.6	¼" irregular white calcite seam at 60°.	
498.7	1/16" white calcite seam at 60°.	
499.6	¼" white calcite seam at 30°.	
501.1	1/16" " " " 60°.	
501.9	1/16" " " " 40°.	
502.2	1/8" " " " 60°.	
505.2	¼" " " " 50°.	
505.9	¼" " " in broken core.	
507.7	1/8" " " at 70°.	
507.8	1/16" " " " 60°.	
508.9	1/16" " " " 60°.	
509.3 - 510.7	Sample No. 240 1.4'	0.07
	6 - 1/8" to 1/4" pink and white calcite seams in sheared lamprophyre - 40°.	

		Ag Oz.
510.7 - 512.7	Sample No. 241 2.0 About 25% pink and white calcite seams up to ¼" at 30° - 40° - in sheared lamp.	0.04
512.7 - 514.7	Sample No. 242 2.0 About 20% pink and white calcite seams at 30° - 40°. Shearing less pronounced.	0.05
514.7 - 517.7	Sample No. 243 3.0 About 10% pink and white calcite seams - Shearing less pronounced.	0.07
517.7 - 518.0	Sample No. 244 4" Sheared hanging wall of 11" calcite vein. Fine arsenides.	Trace
518.0 - 518.9	Sample No. 245 11" Pink calcite vein - massive. Some leaching - chalco. specks.	Nil
520.9	1/16" white calcite seam at 40°.	
521.1	1/16" white calcite seam at 40°.	
526.1	1/32" " " " along core.	
526.8	1/16" pink " " at 80°.	
527.0	2 - 1/16" pink calcite seams at 70°.	
527.9	1/8" irregular pink calcite seam - chalco. specks.	
528.3	1/16" " white " " .	
529.3	1/8" " " " " at 60°.	
529.7 - 530.2	Sample No. 246 5" Several 1/8" to 1/4" blebs and discontinuous pink calcite stringers in lamp. dyke - chalco.	Nil
548.2	¼" pink calcite seam at 50°.	
560.8	1/8" " " " " 50°.	
563.6	2 - 1/16" white calcite seams at 50°.	
564.0	1/16" irregular white calcite seam.	
570.3	1/16" pink calcite seam at 70° - chalco.	
570.8	1/16" " " " " 40° - pyrite.	
571.5	1/8" " " " " 70° - chalco.	
573.6	1/8" white " " " 40°.	
581.9	1/16" pink " " " 50°.	
582.5	¼" white " " " 40°.	
583.0	3" dyke - spotting?	
583.6	Sample No. 247 1" ½" white calcite seam - pronounced leaching.	Trace
584.4	1/8" white " " - fine brecciation.	
585.1	2 - 1/16" white calcite seams at 50°.	
587.9	1/8" pink calcite seam at 50°.	
589.0	1/8" " " " in broken core.	

Ag Oz

599.5 1/16" pink calcite seam at 50°.
600.5 1/16" white calcite seam at 30°.
601.0 1/16" " " " " 40°.
602.5 1/8" irregular white calcite seam.
602.9 1/8" " " " .
603.4 1/16" " " " at 60°.
605.6 1/16" " " " " 40°.
605.8 1/16" " " " " 40°.
606.0 1/16" " " " " 40°.
607.7 1/16" " " " " 40°.
610.5 1/16" " " " " 40°.
610.9 1/8" " " " " 40°.
611.4 1/16" " " " " 50°.
612.0 1/16" " " " " 60°.

611.9 - 612.3 Sample No. 248 5" 0.30
Sheared Rhyolite. Well mineralized with pyrite and chalcopyrite - epidote.

618.3 1/16" pink calcite seam at 50°.
619.1 1/16" " " " " 60°.
620.2 1/16" " " " " 20°.
621.3 1/8" " " " " 70°.
626.5 1/8" white " " " 50°.
642.8 2 - 1/16" white calcite seams at 60°.
647.3 1/8" white calcite seam at 70°.

649.3 - 650.0 Sample No. 249 6" 0.24
Four 1/8" white calcite seams in well fractured rhyolite. Fine brecciation in calcite.

650.2 - 652.0 About 10 - 1/16" calcite seams.
650.6 ¼" irregular pink calcite seam - minor brecciation.
652.0 ¼" " " " " " "

656.5 - 658.5 Sample No. 250 2.0' Trace
Breccia Zone in rhyolite. About 10% white calcite in stringers up to ¼" which also contain breccia fragments.

660.5 1/16" pink calcite seam at 60°.

662.7 - 664.2 Sample No. 251 1.5' Trace
Breccia Zone in rhyolite. About 10% calcite.

678.3 1/8" white calcite seam in broken core.
678.7 2 - 1/16" irregular white calcite seams.
679.2 1/16" pink calcite seam at 60°.
680.4 1/16" white " " " 50°.
681.0 1/16" " " " " 50°.
682.0 1/16" " " " " 50°.
685.4 4 - ¼" epidote stringers at 40°.

Ag Oz

685.8 1/8" white calcite seam at 50°.
681.8 - 687.3 5 - 1/32" white calcite seams at 60°.
688.6 1/16" white calcite seam at 40°.
691.6 ¼" irregular white calcite seam - brecciation.
692.0 1/8" pink calcite seam at 30°.
698.4 1/16" white " " " 40°.
699.9 1/16" " " " " 30°.
700.1 1/16" " " " " 30°.
702.5 1/8" quartz stringer at 40°.
706.8 ¼" pink calcite seam in broken core.
716.3 ¼" quartz stringer at 60°.
722.0 - 723.5 Well cracked and fractured.
723.0 2 - 1/16" irregular pink calcite seams.
723.3 1/16" pink calcite seam at 40°.
724.2 1/8" " " " " 40°.
737.4 - 738 Pronounced crack or joint.
745.5 1" irregular white quartz stringer.
746.2 2 - 1/8" pink calcite seams.
746.7 1/16" irregular pink calcite seam.
748.0 ¼" pink calcite seam at 60° - brecciation.
748.7 2 - 1/8" pink calcite seams at 50°.
749.5 1/8" pink calcite seam at 30°.
751.4 1/8" " " " in broken core.
752.0 1/16" " " " at 70°.
752.3 1/16" " " " " 80°.

753.6 Sample No. 252 2" 1.04
1" containing 3 irregular 1/8" calcite stringers with brecciation.

754.5 1/8" pink calcite seam at 70°.

756.5 Sample No. 253 3" 0.26
1" containing 2 irregular ¼" pink calcite stringers with brecciation.

757.7 1/8" pink calcite seam at 70°.
758.0 1/8" " " " " 70°.
758.5 - 761.5 ¼" irregular pink calcite seam (possible fracture) - Well defined walls. - Running down or along core.

762.2 Sample No. 254 3" 0.36
¼" pink calcite filled fracture at 30°.

763.4 1/8" pink calcite seam at 60°.
764.5 1/8" " " " " 50°.

767.0 END OF HOLE

Note: 698.5 Sample No. 255 - Speck of silver coloured mineral along slip plane with 1/16" calcite seam at right angles to slip. 1" 0.58

Sludge Samples

Hole 13

550 - 570	#256	Trace
570 - 590	257	0.04
590 - 610	258	0.08
610 - 630	259	0.05
630 - 650	260	0.04
650 - 670	261	Trace
670 - 690	262	0.06
690 - 710	263	0.04
710 - 730	264	0.04
730 - 750	265	nil

PROPERTY: East Cobalt Area Claim T-3591 HOLE NO. 14

LOCATION: Same at No. 13 - 150 ft. W. of Hole No. 6 LOGGED BY: J. Hagan

ANGLE: 45° BEARING: West ELEV.: DATE: April 3/60.

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-10.0	CASING	ALTERATION			
10.0-119.7	COBALT SEDIMENTS				
	10.0-12.5 Uniform fine grained, massive.	Very well.			
	12.5-17.3 Fine conglomerate, numerous 1/8" to 1/4" pebbles.	Nil.			
	17.3-27.5 Uniform fine grained, massive. Occasional pebble.	Very well.			
	27.5-29.8 Fine conglomerate.	Well locally.			
	29.8-94.5 Uniform fine grained, massive - bedding planes and occasional pebble.	29.8-32 intense 32-49 well locally over 4" with feeble sections between. 49-81.5 feeble locally. 81.5-94.5 fairly well locally.			
	94.5-119.7 Coarse massive conglomerate.	94.5-102. fairly well. 102-119.7 Nil.			
119.7-204	KEEWATIN VOLCANICS				
	119.7-204 Rhyolite porphyry. Quite uniform and massive throughout. Disseminated pyrite.				
204.0	END OF HOLE				

East Cobalt Area Claim T-3591 Hole No. 14
Location: Same at No. 13 - 150 ft. W. of Hole No. 6

Logged by: J. Hagan.
Date: Apr. 3/60.

CALCITE SEAMS, FRACTURES, SAMPLING — Ag Oz.

21.5 1/32" white calcite seam at 20°.
22.4 1/8" quartz stringer at 50°.
23.0 Two 1/16" quartz stringers at 60°.
24.1 1/32" white calcite seam at 60°.
24.3 1/32" " " " " 40°.

25.5 Sample No. 228 - 1" — Nil

Two 1/32" white calcite seams - very fine arsenides.

25.5-34.5 Several paper thin calcite seams.

34.5-35.0 Sample No. 229 - 6" — .04

1/8" irregular white calcite seams with fine arsenides in calcite and in walls.

41.5 1/16" white calcite seam at 50° - fine pyrite.
46.5 1/32" " " " " 50°.
48.0 1/32" " " " " 60°.
49.7 1/32" " " " " 60°.
50.4 1/2" quartz stringer at 60°.
51.5 1/8" " " " 60°.
52.5 1/4" " " " 60°.
55.5 Two 1/8" " " " 60°.
56.1 1/8" quartz " " 60°.
56.5 ½" " " " 60°.
57.7 1/8" " " " 60°.
58.3 1/8" " " " 60°.

73.0 Sample No. 230 - 1" — Nil

Two 1/8" white calcite seams in a strong slip at 20°. Chalcopyrite specks.

74.5 1/16" white calcite seam along core.
75.8 1/16" " " " at 50°.
76.0 1/32" " " " " 50°.

77.2 Sample No. 231 - 2" — Nil

Two 1/8" white calcite seams at 30°, fine brecciation.

80.5 1/32" white calcite seam at 30°.
81.0 1/16" " " " in broken core.
82.5 1/32" irregular white calcite seam along core.
83.2 1/32" white calcite seam at 40°.
94.7 3/4" quartz stringer at 60°.
94.8 ½" " " " 60°.

East Cobalt Area Claim T-3591 — Hole No. 14
Location: Same at No. 13 - 150 ft. W. of Hole No. 6 — Logged by: J. Hagan. Date: Apr. 3/60.

CALCITE SEAMS, FRACTURES, SAMPLING — Ag Oz.

102.3 1/16" white calcite seam at 70°.
103.6 1/32" " " " " 30°.
104.2 1/32" " " " " 40°.
105.6 1/16" irregular white calcite seam.
114.8 1/16" irregular " " " at low angle, disseminated pyrite..
115.1 1/16" irregular white calcite seam at low angle, disseminated pyrite.

KEEWATIN

120.5 1" irregular quartz stringer and two 1/16" irregular white calcite seams at 10°.
124.0 1/8" pink calcite and 1/8" quartz stringer at 50°.
124.2 ½" irregular quartz stringer - chalcopyrite and pyrite.
126.5 6" section of disseminated hematite.
127.0 1/8" blue quartz stringer at 50°.
135.8 ¼" " " " " 30° - specular hematite.
140.0 Two 1/32" white calcite seams at 30°.
143.7 Two irregular 1/16" pink calcite seams.
143.9 1/8" pink calcite seam at 60°.
144.2 1/16" " " " " 40°.

147.2 Sample No. 232 - 6" — Trace

A 2" weak fracture with sharp well defined tight walls. Two 1/8" pink calcite seams. Disseminated pyrite.

151. 1/16" pink calcite seam at 50°, specular hematite.
158.4 1/16" irregular pink calcite stringer in chloritic seam.
163.4 Two 1/8" chloritic seams.
175.5 1/16" seam at 30° with pronounced hematite.
177.6 1/8" irregular pink calcite seam.
183.8 1" section with 5% specular hematite.
198.4 Two irregular quartz stringers, containing specular hematite.
198.9 ½" quartz stringer at 40° - specular hematite.
202.0 1/8" pink calcite seam at 50° - specular hematite.
202.7 1/8" " " " " 50° " "
202.8 1/16" " " " " 50° " "
203.1 1/16" " " " " 60° " "
203.3 1/16" irregular pink calcite seam.

204.0 END OF HOLE

644'

PROPERTY: East Cobalt Area Claim No. T-27790 HOLE NO. 15

LOCATION: 200 N of Hole No. 9 & 100' East of BL "D" LOGGED BY: J. Hagan

ANGLE: 50° at collar BEARING: West ELEV.: DATE:
49° at 200', 48° at 400', 47° at 600'

+ 21' Hor
- 2 silver

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-33.0	CASING				
33.0 - 160.9	COBALT SEDIMENTS		ALTERATION		
33.0 - 45.2	Fine grained with occasional pebble. Many cracks & joints. Absence of calcite.	Well altered.			
45.2 - 70.4	Coarser grained. Many cracks & joints. Absence of calcite.	Well altered.			
70.4 - 78.6	Uniform fine grained bedding planes at 60° to 70°. 2" lost core at 75.5	Well altered locally.			
78.6 - 81.0	Fine grained - badly broken. Occasional pebble.	Feebly altered.			
81.0 - 81.8	Lost core.				
81.8 - 102.7	Fine grained - broken. Occasional pebble.	Feebly altered except 4" at 97.0 which is well alt'd.			
102.7 - 107.0	Uniform fine grained, pronounced bedding at 70°.	Feebly altered			
107.0 - 108.6	Lost core.				
108.6 - 111.6	Fine grained - broken.	Fairly well altered.			
111.6 - 113.7	Lost core.				
113.7 - 116.1	Fine grained - broken.	Feebly altered.			
116.1 - 119.5	Lost core.				
119.5 - 120.8	Fine grained - broken.	Feebly altered.			
120.8 - 122.0	Lost core.				
122.0 - 125.9	Fine grained - broken.	Feebly altered.			
125.9 - 127.0	Fine conglomerate.	Alteration nil.			
127.0 - 131.0	Lost core (reduced to EX core)				
131 - 156.0	Fine conglomerate.	Alteration nil.			
156.0 - 160.9	Coarse conglomerate.	Alteration nil.			
160.9	KEEWATIN VOLCANICS				
160.9 - 173.0	Dacite - disseminated pyrite.				
173.0 - 175.0	Weak breccia zone in fractured dacite. 1/8" calcite stringer with brecciation - fine arsenides.				
175.0 - 225.2	Rhyolite porphyry. 3" lost core at 179.0.				
225.2 - 248.0	Dacite.				
217-218	Lost core.				
248.0 - 277.5	Rhyolite porphyry.				
277.5 - 280.6	Lamprophyre dyke.				
280.6 - 284.0	Rhyolite porphyry.				
284.0 - 291.0	Dacite.				
291.0 - 297.5	Rhyolite porphyry.				
297.5 - 298.0	Lost core.				
298.0 - 301.8	Andesite dyke.				
301.8 - 306.0	Rhyolite porphyry.				

1106'

PROPERTY: _____ HOLE NO. 25

LOCATION: _____ LOGGED BY: _____

ANGLE: _____ BEARING: _____ ELEV.: _____ DATE: _____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
306.0-343.8	Dacite.				
343.8-346.2	Lost core.				
346.2-349.0	Dacite.				
349.0-350.0	Lost core.				
350.0-365.0	Dacite.				
365.0-366.0	Breccia zone. } 4' VEIN ZONE 48°				
366.0-368.0	Lost core. } HORIZ 244' - 247'				
368.0-369.2	Breccia zone. }				
369.2-375.0	Rhyolite porphyry.				
375.0-377.0	Lost core.				
377.0-388.2	Rhyolite porphyry. Lost core 3" at 382.7 and 3" at 384.7				
388.2-400.0	Dacite.				
400.0-406.7	Rhyolite porphyry.				
406.7-407.3	Lost core.				
407.3-416.5	Rhyolite porphyry.				
416.5-417.0	Lost core.				
417.0-418.8	Rhyolite porphyry.				
418.8-420.0	Lost core.				
420.0-422.3	Rhyolite porphyry.				
422.3-423.0	Lost core.				
423.0-431.8	Rhyolite porphyry.				
431.8-433.0	Lost core.				
433.0-433.6	Rhyolite porphyry - badly broken.				
433.6-435.0	Lost core.				
435.0-440.4	Rhyolite.				
440.4-442.5	Lamprophyre dyke.				
442.5-443.3	Rhyolite porphyry.				
443.3-468.8	Dacite.				
468.8-470.6	Rhyolite.				
470.6-472.0	Lost core.				
472.0-476.5	Rhyolite porphyry.				
476.5-479.0	Rhyolite.				
479.0-483.0	Rhyolite porphyry.				
483.0-483.5	Lost core.				
483.5-502.0	Rhyolite porphyry.				
502.0-515.7	Andesite.				
515.7-516.5	Lost core.				
516.5-517.7	Andesite.				
517.7-528.3	Dacite.				
528.3-528.8	Lost core.				
528.8-531.0	Dacite.				
531.0-532.0	Lost core.				
532.0-533.3	Dacite.				
533.3-537.0	Lost core.				
537.0-596.0	Dacite.				
596.0-603.6	Rhyolite porphyry.				
603.6-605.0	Lost core.				
605.0-607.4	Andesite.				
607.4-608.0	Lost core.				

PROPERTY:_____ HOLE NO. 15

LOCATION:_____ LOGGED BY:_____

ANGLE:_____ BEARING:_____ ELEV.:_____ DATE:_____

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
608.0-612.3	Dacite.				
612.3-613.0	Lost core.				
613.0-615.9	Dacite				
615.9-617.0	Lost core.				
617.0-618.9	Rhyolite porphyry.				
618.9-644.0	DIABASE Sharp contact at 618.9 at 40° to core axis. Very fine grained; becoming coarser at 632.				
644	END OF HOLE				

CALCITE SEAMS, FRACTURES AND SAMPLING

33.-126	Absence of calcite.				
126.9	1/16" white calcite seam along core.				
132.2	1/16" pink " " " " .				
134.0	1/16" white " " fine pyrite.				
134.6	1/32" irregular white calcite seam.				
134.9	1/32" " " " " .				
135.2	1/16" crystalline white " " along core.				
135.6	1/16" white calcite seam at 40°.				
138.9	1/8" " " " " 50°.				
139.5	1/32" " " " " low angle - pyrite.				
142.0	SAMPLE NO. 279 4" 1/8" white calcite seam along core, fine pyrite.				0.05
143.4	1/16" pink calcite seam in broken core.				
144.4	1/32" white calcite seam at 40°.				
145.1	1/16" " " " " 50°.				
150.5	1/16" " " " " 40°.				
159.7	1/16" " " " " 50°.				
162.4	1/32" " " " " 60°.				
163.2	1/16" " " " " 60°.				
164.1	1/16" " " " " 50°.				
165.5	1/8" pink " " " 50°.				
165.9	1/16" " " " " 60°.				
167.0	1/16" " " " " 30°.				
168.9	1/16" " " " in broken core.				
169.5	¼" " " " at 70°.				
170.2	1/32" white " " along core.				

CALCITE SEAMS, FRACTURES AND SAMPLING Cont'd.

Ag oz

171.9-174.0 SAMPLE NO. 280 2.1' — 0.46

Several 1/16" white calcite stringers at various angles in sheared dacite. Minor brecciation in calcite stringers. Fine pyrite and arsenides.

174.0-174.2 SAMPLE NO. 281 0.2' — 0.54

Fine arsenides in irregular white calcite stringers.

174.2-175.0 SAMPLE NO. 282 0.8' — 0.30

Several 1/16" white and pink calcite stringers in sheared dacite. Minor brecciation. Fine arsenides.

175.0-176.5 About 6 fine 1/32" white calcite seams.
180.5 3" weak breccia zone - some calcite.
182.5 1/8" white calcite seam in broken core.
182.6 1/8" quartz stringer at 70°.
182.9 1/8" " " " 70°.
183.8 1/16" pink calcite seam in broken core.
189.2 2-1/32" white calcite seams at 50°.
190.7 1/16" white calcite seam at 50°.
194.5 1/32" " " " " 50°.
194.8 1/32" " " " " 50°.
198.0 1/16" pink " " " 30°.
198.4 1/16" white " " in broken core.
204.9 1/4" pink " " at 60°.
206.3 1/16" white " " in broken core.
210.7 1/8" " " " at 50°.
213.3 1/8" " " " " 50°.
214.4 1/8" white calcite seam at 30° - Some brecciation.
218.1 1/16" white calcite seam at 50°.
234.4 ½" quartz stringer at 60°.
236.5 1/16" white calcite seam at 50°.
238.2 1/16" irregular white calcite seam at low angle.
242.4 1/32" white calcite seam in broken core.
247.8 1/16" " " " .
251.8 1/16" pink " " at 30°.
255.3 ½" quartz-calcite stringer - fine brecciation.
257.5 1/16" white calcite seam at 40° - fine brecciation.
261.7 1/32" pink " " in broken core.
279.0 1/8" " " " at 40°.
279.9 1/16" " " " " 50°.
283.3 ½" quartz-pink calcite stringer in broken core.
288.5 1/16" white calcite seam at 60°.
289.0 1/8" pink " " " 40°.
289.6 1/16" white " " along core.
298.1 1/8" pink " " at 50°.
299.0-299.6 3 irregular blebs of pink calcite.
300.4 1/8" pink calcite seam at 30° - pyrite.
301.8 1/16" irregular pink calcite seam.
303.7 1/16" " " " " at 40°.
304.8 1/16" white calcite seam at 60°.
306.1 1/16" " " " " 30°.
306.7 1/8" " " " " 40°.

CALCITE SEAMS, FRACTURES AND SAMPLING Cont'd.

Ag Oz

313.9 1/16" pink calcite seam at 70°.
314.3 1/8" irregular white calcite seam at 40°.
314.5 1/8" white calcite seam at 60°.
315.7 1/8" " " " " 40° - epidote.
317.8 1/16" " " " " 40°.
318.0 1/16" pink " " " 40°.
318.4 1/8" " " " " 40°.
318.8 1/16" " " " " 40°.
320.3 2 - 1/16" pink calcite seams in broken core.
325.2 1/8" pink calcite seam at 60° - pyrite.
325.3 1/8" " " " " 60° - " .
325.5 1/8" " " " " 60° - " .
325.6 1/8" " " " " 60° - " .
326.4 1/16" irregular calcite seam, pink.
326.5 1/8" " pink calcite seam at 50° - epidote
326.7 1/8" white calcite seam at 40° - epidote & chalcopyrite.
328.1 1/8" pink " " " 40° - pyrite.
328.9 1/8" white " " " 40° - "
331.1 1/8" " " " " 50° - epidote.
332.2 1/16" epidote stringer at 30°.
335.8 1/8" white calcite seam at 40° - epidote.
337.1 1/8" " " " " 50° " .
351.3 1/16" pink " " " 70°.
351.4 1/8" irregular pink calcite seam.
352.0-352.5 Many fine hair-like calcite seams.
353.7 1/16" pink calcite seam at 40°.
354.3 1/8" white " " " 40° - epidote.
356.5 1/16" " " " " 30° - "
357.0 1/8" pink " " in broken core.
360.0 1/8" " " " at 60°.
362.0 1/8" irregular white calcite seam at 30°.
362.8 1/8" white calcite seam at 60°.
363.3 1/16" " " " " 60°.
364.2 1/16" " " " " 60°.

VEIN ZONE 4.2'

365.0 - 366.0 SAMPLE NO. 284 1.0' 1.34

Breccia zone. Fine fragments cemented with silica and some calcite - pyrite.

366.0-368.0 Lost core.

368.0-369.2 SAMPLE NO. 285 1.2' 0.32

Breccia zone consisting of several (6) irregular white calcite stringers up to 1/8" containing fine fragments. Matrix consists in part of silica cemented breccia.

384.1 1/16" pink calcite seam in broken core.
395.5 1/8" irregular white calcite seam.
396.0 ¼" bleb of pink calcite.
396.4 1/8" pink calcite seam at 20°.
396.9 2-1/16" irregular pink calcite seams.
397.3 ¼" pink calcite seam at 30°.
397.9 1/8" white calcite seam at 60°.
398.9 1/8" pink " " " 40°.

CALCITE SEAMS, FRACTURES AND SAMPLING Cont'd.

Ag Oz

399.9 1/8" pink calcite seam at 50° - pyrite.
411.3 ¼" quartz stringer at 60°.
411.8 2 - 1/16" white calcite seams in broken core.
417.3 ¼" quartz stringer at 60°.
421.6 1/16" white calcite seam at 50°.
424.0 ¼" hematite - pyrite stringer. (disseminated)
428.1 1/16" pink calcite seam at 60°.
430.6 ½" irregular quartz stringer.
436.0 1/16" pink calcite seam at 60°.
437.9 1/8" " " " " 40° - chalco.
440.5 1" pink calcite stringer at 50° - tight walls.
442.1 ¼" pink " seam at 30°.
442.7 1/16" white calcite seam along core.
446.3 1/16" irregular white calcite seam.
446.9 1/16" white calcite seam at 50°.
447.3 1/16" " " " along core.
447.8 1/16" pink " " in broken core.
450.4 1/16" " " " at 40° - chalcopyrite.
451.5 1/16" white " " in broken core.
452.2 1/16" irregular white calcite seam.
460.8 1/32" white calcite seam at 40°.
486.1 1/16" pink " " " 60°.
486.6 1/16" " " " " 60°.
503.0 1/16" white " " in broken core.
504.2 2 - 1/16" white calcite seams at 40°.
513.3 1/8" pink calcite seam at 60°.
513.9 1/16" " " " " 50°.
514.0 1/8" " " " " 50°.
514.1 ½" irregular pink calcite seam at 70° - epidote - chalcopyrite.
514.2 ½" irregular pink calcite seam at 70° - epidote - chalcopyrite.
514.5 1/16" pink calcite seams at 70°.
520.4 1½" irregular quartz stringer.
527.7 1/16" white calcite seam in broken core.
529.3 ¼" quartz stringer at 50° - chalcopyrite.
529.5 1/16" pink calcite seam along core.
529.6 1/8" quartz and pink calcite stringer.
530.1 1/16" irregular pink calcite seam.
543.4-546.4 Many irregular epidote stringers.
548.3 1/16" white calcite seam along core.
551.4 1/16" " " " at 30°.
560.9-561.4 Several fine 1/32" irregular calcite seams.
566.3 2-1/16" white calcite seams at 60°.
570.4 1/16" white calcite seam at 60°.
570.8 2-1/16" pink calcite seams at 40°.
570.9 1/16" pink calcite seam at 30°.
575.2 1/8" irregular pink calcite seam.
593.9 1/16" irregular white calcite seam.
595.4 1/16" " " " ".
596.9 2-1/16" white calcite seams at 40°.
597.6 1/16" white calcite seam at 50°.
598-622 Absence of calcite.
622.4 1/32" pink calcite seam at 30°.
624.1 1/8" " " " " 50°.

CALCITE SEAMS, FRACTURES AND SAMPLING Cont'd.

Ag Oz

631.2 2-1/16" irregular pink calcite seams.

631.5 SAMPLE NO. 291 4" 1.17

½" irregular white calcite stringer running along core containing fine brecciation.

635.4 1/16" pink calcite seam at 70°.
635.7 1/16" " " " " 70°.
635.9 1/16" " " " " 70°.
638.2 ¼" " " " " 50°.
638.5 1/8" " " " " 50°.

644.0 END OF HOLE

SLUDGE SAMPLES

70-80	0.04	350-360	Trace
80-90	0.07	360-370	0.05
90-100	Tr.	450-470	Nil
100-110	Tr.	470-490	Nil
110-120	0.24	490-510	0.06
120-130	0.32	510-530	0.04
130-140	2.00	530-550	0.04
180-190	Tr.	550-570	Tr.
290-300	0.42	570-590	Tr.
340-350	0.04		

George Hall. Silverside

PROPERTY: East Cobalt Area Claim T-25684 HOLE NO. 16

LOCATION: Line 6 North 1 + 75 West of B.L. "D". LOGGED BY: J.Hagan

ANGLE: 51° at collar BEARING: West ELEV.: DATE: May 25/60.
at 300' - 43°.

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-112.0	CASING				
0 - 60	Clay.				
60 - 112	Boulders.				
112.0 - 244.0	KEEWATIN VOLCANICS				
112. - 113.1	Rhyolite Porphyry.				
113.1 - 140.6	Rhyolite - disseminated pyrite 3" lost core at 139.				
140.6 - 149.6	Breccia Zone Consisting of a series of brecciated fracture zones as described ~~under "detail"~~ below.				
149.6 - 159.3	Rhyolite Porphyry.				
159.3 - 160.0	Lost core.				
160.0 - 172.8	Rhyolite Porphyry well cracked and broken.				
172.8 - 174.0	Lost core.				
174.0 - 177.8	Dacite - well cracked and fractured. Mineralized with chalcopyrite and pyrrhotite in slickensided cracks.				
177.8 - 181.0	Rhyolite Porphyry.				
181.0 - 191.5	Breccia Zone - Weak brecciation with several irregular flecks, blebs and stringers of calcite.				
191.5 - 220.	Dacite.				
220. - 221.	Lost Core.				
221. - 240.	Dacite.				
240 - 241.5	Lamprophyre Dyke.				
241.5 - 244.	Dacite.				
244.0 - 350.0	DIABASE (very few calcite seams)				
244 - 288	Fine grained - massive - uniform.				
288 - 350	Medium " " "				
350.0	END OF HOLE				
	CALCITE SEAMS, FRACTURES & SAMPLING				
114.9	2-1/16" irregular pink calcite seams at low angle.				
115.2	1/16" irregular white calcite seam at 80°.				
115.8	2-1/16" " " " seams at 40°.				
124.8	2-1/32" " " " " .				
129.6	1/8" pink calcite seam at 50°.				
130.0 - 131.2	SAMPLE NO. 313 1.2' Two 1/32" white calcite seams *Fine pyrite and arsenides?*				3.17

Ag Oz.

135.3 - 135.7 SAMPLE NO. 314 5" — 0.40
3/4" containing several irregular white calcite stringers up to 1/8", some of which are brecciated.

135.8 1/16" white calcite seam at 50°.
136.7 1/8" irregular white calcite seam.

140.6 - 141.4 SAMPLE NO. 315 10" — 0.94
A 2" brecciated calcite filled fracture with well defined walls. Fine pyrite, chalcopyrite and arsenides in the fracture and in fine cracks in the footwall.

141.4 - 143.2 SAMPLE NO. 325 1.8'
A few very fine white calcite seams in massive Rhyolite.

143.2 - 144.0 SAMPLE NO. 316 10" — 19.79
A 10" breccia zone - silica cemented. A small 1/4" mud seam at 143.6. Very little calcite. Fine pyrite. Well defined walls to the 10" zone.

144.0 - 146.0 SAMPLE NO. 326 2.0'
3-1/16" white calcite seams in rhyolite porphyry.

146.0 - 146.8 SAMPLE NO. 317 10" — 1.24
Several irregular 1/8" white crystalline calcite stringers containing brecciation. Fine pyrite.

146.8 - 149.6 SAMPLE NO. 318 2.8' — 0.08
Pronounced breccia zone - calcite cemented (about 10%). Fine pyrite and arsenides.

149.6 - 153.5 SAMPLE NO. 327 3.9'
Six fine irregular calcite seams.

153.5 - 153.9 SAMPLE NO. 319 5" — 12.48
A 2" brecciated calcite filled fracture with well defined walls. Fine pyrite and arsenides.

153.9 - 157.0 SAMPLE NO. 328 3.1'
A 1/16" white calcite seam along core and several in broken core from 155.5 to 157.

159.1 1/16" white calcite seam along core.
161.2 1/8" quartz stringer in broken core.
163.0 1/16" white calcite seam at 60°.
163.5 1/16" irregular white calcite seam.

Ag Oz.

163.9 1/16" white calcite seam along core.
166.9 ½" quartz stringer at 40° - chalcopyrite.
168.4 ¼" " " " 40° - " .

175.0 - 177.0 SAMPLE NO. 320 2.0' 0.20

Fine grained chalcopyrite and pyrrhotite in slickensided cracks. A few very fine white calcite seams.

177.2 ½" pink calcite stringer in broken core.
178.8 1/32" white calcite seam at 30° - fine pyrite.
180 - 181 Several 1/8" white calcite blebs.

181.0 - 183.0 SAMPLE NO. 321 2.0' 0.12

Weak breccia zone containing fine irregular blebs of pink and white calcite pyrite mineralization.

183.0 - 184 Well cracked and broken.

184. - 189 SAMPLE NO. 322 5.0' Nil

Breccia zone - well cracked. Several irregular blebs and stringers of white calcite.

189 - 191.5 SAMPLE NO. 323 2.5' 0.04

Breccia Zone - Well cracked. Several irregular blebs and stringers of white calcite.

191.5 - 193.7 Several irregular white calcite stringers and blebs in cracked dacite.
193.9 1/16" white calcite seam at 50°.
194.1 - 194.8 Several irregular white calcite blebs.
194.9 1/8" white calcite seam at 50°.
196.4 2-1/32" irregular white calcite seams.
198.9 1/16" pink calcite seam at 30°.
200.0 - 200.8 3-1/8" irregular epidote stringers with pink calcite at low angle.
203.6 1/16" white calcite seam at 50°.
204.0 1/8" irregular pink calcite seam at low angle.
204.3 1/8" epidote stringer
206.4 - 207.0 Several irregular pink calcite stringers and blebs up to 1/8".
207.7 1/32" white calcite seam at 60°.
211.3 1/16" pink " " " 40°.
212.3 1/16" " " " " 30°.
222.3 ¼" " " " in broken core - epidote.
222.7 2" acid dyke with sharp contacts at 60°.
224-225 1/8" white calcite seam along core.
225.3 1/16" " " " at 30°.
227.0 1/16" pink " " " 40°.
229.5 1/32" white " " along core.
231.0 1/32" " " " " " .
236.2 1/8" pink " " at 40°.
237.6 1/16" irregular white calcite seam at low angle.

Ag Oz.

240.2 1/16" pink calcite seam at 30°.
241.8 2-1/16" " " " " 30°.
242.0 1/16" irregular pink calcite seam.
247.4 1/8" pink calcite seam in broken core.
249.1 1/16" white calcite seam at 40°.
252.0 1/16" pink " " " 20°.

252.5 SAMPLE NO. 324 1" 0.06

½" quartz-calcite (white) stringer at 80°.
Tight walls.

255.0 1/16" white calcite seam at 40°.
255.9 1/16" " " " " 40°.
262.2 1/16" " " " " 80°.
275.6 1/8" " " " " 40°.
275.9 ½" " " " " 40°.
276.-323. Absence of calcite.
323.0 - 323.6 1/8" white calcite seam along core.
326.1 ¼" white calcite seam at 50°.

350.0 END OF HOLE

PROPERTY: East Cobalt Area Claim T-27828 HOLE NO. 17

LOCATION: Line 10N 1+ 22 West of B.L. "D" LOGGED BY: J. Haga

ANGLE: 50° at collar BEARING: West ELEV.: DATE: June 1, 196
49° at 100' - 47° at 300' Av. 49°

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-75	CASING				
75-166.4	COBALT SEDIMENTS		ALTERATION		
	75 - 76 Uniform coarse grained.		Nil		
	76 - 78 Uniform fine grained with a pronounced bedding plane at 78' at 50°.		Nil		
	78 - 88.1 Uniform coarse grained - Massive.		Nil		
	88.1- 91.6 Uniform fine grained - Massive.		Feeble		
	91.6- 92.2 Uniform fine grained - bedding planes at 60°.		Feeble		
	92.2- 95.2 Uniform fine grained - massive.		Feeble		
	95.2- 96.0 Uniform fine grained - bedding planes at 60°.		Feeble		
	96.0-118 Uniform fine grained - Massive.		96-115.8 Nil		
	118. -128.5 Uniform fine grained - pronounced bedding at 60°.		115.8-117 Well alt'd 117.-121 Nil 121-128.5 Well alt'd		
	128.5-129.0 Lost core.				
	129.0-160.2 Pronounced bedded greywacke.		129-160.2 intense alteration. Fairly well alt'd.		
	160.2-166.4 Uniform fine grained.-				
166.4-400.	DIABASE				
	166.4-172.4 Fine grained.				
	172.4-182.7 Becoming increasingly coarser.				
	182.7-185.0 Pronounced Breccia Zone Cemented with white calcite.		IN DIABASE! ZONE 182.7' - 187.7' 5.0' CORE LENGTH		
	185.0-187.7 Several irreg. pink and grey calcite stringers up to 1/8" some of which are brecciated. One 3/4" grey calcite str.		TRACES SILVER!		
	187.7-400.0 Medium grained massive diabase except as follows. (No Calcite).				
	301.6-302.7 Coarse grained.				
	309.0-317.5 " " .				
	371.0-372.0 " " .				
	375. -385. " " .				
	385 -386 Lost core.				
400.0	END OF HOLE				

CALCITE SEAM, FRACTURES, SAMPLING — Ag Oz.

80.6 1/8" quartz stringer at 60°.
84.7 1/8" quartz Calcite stringer at 60°.

102.0 SAMPLE NO. 342 2" — 0.08
1/8" white calcite seam at 30° - fine arsenides?

118.2 1/16" irregular white calcite seam.

125.2-126.2 SAMPLE NO. 343 1.0' — Nil
Fine arsenides? in very fine calcite seams and cracks in bedded greywacke.

130.0-132.5 SAMPLE NO. 344 2.5' — 0.05
Fine arsenides? in cracks in bedded greywacke.

142.1 1/32" white calcite seam at 30°.
144.5-145.0 Two very fine white calcite seams at 60°.
146.2 1/16" pink calcite seam at 10°.
? 148.4-100 Several irregular very fine calcite seams.
151.6-152.8 Two 1/32" white calcite seams along core.
160.4 1/32" white calcite seam at 60°.
168.0 1/16" " " " " 60°.
168.4 1/32" " " " " 60°.
172.6 1/8" " " " " 30°.

181.1-182.7 SAMPLE NO. 345 1.6' — 0.04
"Hangingwall" of breccia zone containing about 4 irregular white calcite seams. 2" of shearing at 182.7 at 45°.

182.7-185.0 SAMPLE NO. 346 2.3' — 0.06
Pronounced breccia zone - calcite cemented.

185.0-186.2 SAMPLE NO. 347 1.2' — Tr
"Footwall" of breccia zone. Three irregular white calcite seams.

VEIN ZONE

186.2-186.4 SAMPLE NO. 348 0.2' — Tr
3/4" grey amorphous calcite stringer at 60° and ¼" pink calcite stringer at 50° crossing the grey.

186.4-187.7 SAMPLE NO. 349 1.3' — 0.04
About 6 irregular pink and white calcite stringers at low angles.

188-400 Absence of calcite in the massive diabase.
210.4 1/8" epidote stringer at 60°.

400.0 END OF HOLE

CALCITE SEAMS, FRACTURES, SAMPLING

Ag Oz

50.1 ¼" quartz stringer at 50°.
66.1 1/16" irregular white calcite seam.
71.6 1/8" white calcite seam at 30°.
73.7 1" quartz stringer in broken core.
74.0-74.6 Several (about 5) irregular 1/16" to 1/8" pink and white calcite stringers.
75.5 1/16" irregular white calcite seam.
76.8 1/16" " " " .
77.2 1/8" " pink " " at 50°.
78.0 2 - 1/32" " white " seams.
78.7 2 - 1/32" " " " " along core.
78.8 1/8" quartz stringer at 60°.
79.2 1/8" " " " 60°.
80.3 1/8" " " " 60°.
80.4 1/32" pink calcite seam at 60°.
80.6 1/16" " " " " 60°.
81.2 1/16" " " " " 60°.
81.6 1/16" " " " " 60°.
81.9 1/16" " " " " 60°.
82.2 1/16" " " " " 60°.
83.2 ¼" quartz and pink calcite stringer at 60°.
83.5 1/8" pink calcite seam at 60°.
90.1 2 - 1/16" irregular white calcite seams.
90.4 1/16" irregular white calcite seam.
90.8 1/32" white calcite seam at 60°.
92.2 1/32" white calcite seam at 30°.
93.9 1/8" hematite stringer.
95.2 1/8" white calcite seam at 60°.

96.5 SAMPLE NO. 358 1" 0.05

½" brecciated calcite filled fracture.
Walls poorly defined - fine pyrite.
97.4-98.3 - Nine pink calcite seams at 60°.
102.2 1/16" pink calcite seam in br. core.
104.8 1/16" white " " along core.
105-111 Five 1/32" white calcite seams - irregular.
114.6 1/16" white calcite seam at 40° - chalcopyrite.
116.6 1/16" white calcite seam along core - pyrite.
118.1 1/16" irregular white calcite seam.
120.5 ¼" irregular quartz stringer.
124.3 1/16" pink calcite seam at 40° - chalcopyrite.
126.8 ¼" quartz stringer at 60°.
127.2 1/32" white calcite seam at 30°.
135.6 1/32" " " " 40°.
152.0 1/8" " " along core.
152.6 1/16" " " at 60°.
154.0 1/8" irregular white calcite seam along core.
160.5 1/16" white calcite seam along core.
164.9 1/16" " " " " .
168.4 2 - 1/8" irregular white calcite seams.
172.2 1/8" pink calcite seam at 40°.
173.2 1/8" irregular white calcite seam along core, fine brecciation and chalcopyrite.
176.0 1/8" white crystalline calcite stringer at 30° - pyrite.

PROPERTY: East Cobalt Area Claim T-25684 HOLE NO. 20

LOCATION: Line 6N 0+75 W of BL 'D' - or 100' E. of Hole 16 LOGGED BY: J. Haga

ANGLE: 50° at collar BEARING: West ELEV.: DATE: June 9/60
48° at 100' - 46° at 300'

FOOTAGE	DESCRIPTION	CU %	ZN %	AU OZ.	AG OZ.
0-42.0	CASING				
42.0-75.0	COBALT SEDIMENTS				
42.0- 71.2	Uniform coarse grained.				
71.2- 75.0	Coarse conglomerate				
75.0-210.9	KEEWATIN VOLCANICS				
75 -110	Dacite - disseminated pyrite.				
111. -150.9	Rhyolite porphyry.				
150.9-174.6	Rhyolite.				
174.6-185.4	Andesite dyke.				
185.4-190.2	Rhyolite porphyry.				
190.2-191.8	Andesite dyke.				
191.8-201.8	Rhyolite porphyry.				
201.8-205.1	Lamprophyre dyke, sharp contact at 201.8 at 60°.				
205.1-207.0	Rhyolite porphyry.				
207.0-210.4	Lamprophyre dyke.				
210.4-210.9	Rhyolite porphyry.				
210.9-218.5	LAMPROPHYRE DYKE				
214.6-216.7	Sheared zone with about 10% pink and white calcite stringers and blebs.				
218.5-373.0	DIABASE				
218.5-250	Fine grained.				
250 - 373	Medium grained.				
256.6-257.6	Breccia Zone.				
281.3-292.3	Zone of pronounced brecciation consisting of a series of brecciated calcite filled fractures, some of which carry fine arsenides.				
292.9-317.9	Zone of lesser brecciation consisting of 5 brecciated calcite filled fractures as described below.				
373.0	END OF HOLE				

ALTERATION

42-50 Fair
50-71.2 Well
71.2-75.0 Nil

105-108.5 Well alt'd. locally
154-161 Well altered locally, as 2" at 154
6" at 158.5
3" at 161.

CALCITE SEAMS, FRACTURES, SAMPLING Cont'd.

		Ag Oz.
177.2-178.4	SAMPLE NO. 359 1.2'	Trace
	Four 1/8" to ¼" white crystalline calcite stringers at low angles.	
179.8-180.4	Two 1/8" white crystalline calcite seams along core.	
182.4-183.0	Two 1/8" irregular white crystalline calcite seams.	
183.7-184.4	1/8" white crystalline calcite seam along core.	
187.6	Two 1/8" irregular white calcite seams.	
190.1	Several 1/32" discontinuous white calcite seams.	
203.2	¼" white calcite seam at 30°.	
203.5	1/8" " " " " 60°.	
210.7	1" irregular quartz and pink calcite stringer.	
211.2	1/8" white calcite seam at 40°.	
211.6	1/16" " " " " 30°.	
212.5-213.3	SAMPLE NO. 360 10"	Trace
	Several (about 10) irregular pink calcite seams.	
215.0-216.7	SAMPLE NO. 361 1.7'	Trace
	Sheared zone with about 10% pink and white calcite stringers and blebs.	
217.9-219.0	Several irregular pink calcite blebs.	
220.0-220.5	" " " " " .	
220.8	1/8" pink calcite stringer (irregular).	
222.0-223.0	Several irregular pink calcite blebs.	
224.1	1/8" irregular pink calcite stringer.	
225.0-227.5	SAMPLE NO. 365 2.5'	0.04
	About 10 irregular 1/16" to 1/8" pink calcite stringers with fine pyrite.	
228.2	1/16" pink calcite seam at 60°.	
229.0-230.0	Several irregular 1/16" to 1/8" pink calcite seams.	
230.4	¼" pink calcite seam in broken core.	
231.0-232.0	Several irregular pink calcite blebs and stringers with fine pyrite.	
233.5	1/8" pink calcite seam at 20°.	
248.7	¼" white calcite seam at 40° - pyrite.	
251.6	1/16" " " " " 60°.	
256.6-257.6	SAMPLE NO. 362 1.0'	0.05
	Breccia zone with well defined H.W. at 40°. Calcite cemented. Fine pyrite and arsenides.	
257.6-258.8	SAMPLE NO. 366 1.2'	0.04
	Four 1/8" irregular pink calcite stringers and ¼" pink with brecciation and fine pyrite.	

CALCITE SEAMS, FRACTURES, SAMPLING Cont'd.

Ag Oz.

261.3 1/16" pink calcite seam at 60°.
261.5 ¼" pink calcite seam at 50°.
262.2 1/8" white " " " 40°.
262.6 1/16" pink " " in broken core.
263.4 1/8" " " " at 30°.
263.8 1/16" " " " " 30°.
264.3 1/16" white " " " 40°.
265.8 1/8" " " " " 60°.
266.8 1/8" grey " " " 60°.
271.8 1/8" pink " " " 40°.

280.3-281.4 SAMPLE NO. 363 1.1' — Trace

A brecciated calcite filled fracture. Well defined wall at 281.4 at 20° to core axis. ½" white crystalline calcite stringer in hanging wall. Fine arsenides.

283.3 SAMPLE NO. 367 1" — 0.08

¼" brecciated calcite filled fracture at 60°. Fine pyrite.

284.5 1/8" pink calcite seam at 40°.

286.3-287.2 SAMPLE NO. 364 0.9' — Nil

Brecciated calcite filled fracture with a well defined footwall at 20° and ¼ white crystalline calcite stringer in hangingwall.

287.9-288.4 SAMPLE NO. 368 6" — 0.04

1" brecciated calcite filled fracture with sharp walls followed by several 1/8" irregular calcite stringers with brecciation.

290.4 ½" pink calcite seam at 60°.

290.6 SAMPLE NO. 369 2" — 0.06

1" brecciated calcite filled fracture with well defined walls at 30°.

291.0-292.3 SAMPLE NO. 370 1.3' — Nil

Breccia zone - white and pink calcite cemented. ¼" white crystalline calcite stringer running down core. No definite walls to breccia zone. Fine arsenides and chalcopyrite.

292.9-293.6 SAMPLE NO. 371 8" — Trace

1" brecciated calcite filled fracture with well defined walls at 80° - followed by 6" of brecciation with no defined footwall. (i.e. irregular stringers with brecciation). Fine arsenides.

295.5-296.3 SAMPLE NO. 372 10" — Trace

½" brecciated calcite filled fracture with an irregular ¼" to ½" white crystalline calcite stringer in "footwall".

CALCITE SEAMS, FRACTURES, SAMPLING Cont'd. — Ag Oz.

295.6 2 - 1/16" white calcite seams at 50°.
297.5 ¼" irregular calcite stringer with fine brecciation.
299.0 1/8" pink calcite seam at 50°.

299.7-300.3 SAMPLE NO. 373 7" — 0.05
Breccia zone - calcite cemented and a ¼" white crystalline calcite stringer.

300.6 1/8" pink calcite seam at 30°.
302.2 1/8" irregular pink calcite seam with brecciation.
307.2 ¼" irregular white calcite seam.
311.3 1/8" pink calcite seam at 60°.
312.1 1/16" " " " " 40°.

312.7 SAMPLE NO. 374 4" — 0.07
¾" brecciated calcite filled fracture with well defined walls at 30°. Fine arsenides.

313.9 ¼" irregular white calcite seam.
314-316 Eight pink calcite seams, 1/16" to 1/8" at low angles.

317.4-317.9 SAMPLE NO. 375 6" — 0.10
Two ¼" pink and grey calcite stringers at low angles with fine brecciation and arsenides.

325.8 1/8" pink calcite seam in broken core.

328.0 SAMPLE NO. 376 2" — 0.05
1/8" pink calcite seam at 30°, with brecciation and fine arsenides.

329.8 1/8" pink calcite seam at 30°.
331.5 ¼" " " " " 40°.
333.0 2 - 1/16" pink calcite seams (irregular).
352.0 1/16" pink calcite seam at 30°.
353.5 1/16" white " " along core.

362.1-362.5 SAMPLE NO. 377 5" — 0.06
4" breccia zone with no defined walls. Fine arsenides.

369.3-369.7 SAMPLE NO. 378 4" — 0.06
Four ¼" irregular pink calcite stringers, one of which has fine arsenides.

371.6 ¼" white calcite stringer with fine brecciation.

373.0 END OF HOLE

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R1)	SEC. 36/80	W.1/83	24/1/83	S.R.O.	188540

SAND & GRAVEL

(G1) GRAVEL PIT NO. 1758

(G2) GRAVEL File 9808

(G3) GRAVEL File. 52858

(G4) GRAVEL Files: 51640 , 107092

(G5) GRAVEL PIT NO. 1457 , M.T.C., File: 107092

BUCKE TWP.

COLEMAN TWP.

Lot 1 Lot 2 Lot 3 Lot 4

Conc 12

XII XI X IX VIII

Kirk Lake

Chown Lake

Nicol Lake

Resources Inc.

FLOODING File: 135387

261 AA 1901 160.00 Ac. T-17966 T-46992 T-19202 T-25583 T-19096 T-25679 T-25584 T-27828 T-25997 T-19592 T-25661 T-11627 T-58385 T-31634 T-31635 T-46862 T-26282 T-975 T-1618 T-21445 T-21790 JS 69 T-34914 T-33175 T-359 T-46861 T-27790 T-27789 T-27793 T-27792 T-14872 T-19073 T-27791 T-27788 T-32348 T-31917 T-27917 T-46861 T-46862 T-1618 T-27790 T-27789 T-27792 T-27791 T-19073 T-27788 T-27917 T-31915 T-31916 T-31129 T-31130 T-31855 T-31856 T-31857 T-30051 T-31858 T-31859 T-29391 T-29389 T-29390 T-31860 T-31861 T-29392 T-29393 T-29394 T-31862 T-31863 T-30365 T-2103 T-9310 T-10078

REF. 599 61 64769 103671 473648 120598 738018 738015 73 6016 1069 68 738017 789129 789128 105618 103655 84507 71276 780 12 93894 72611 71294 74009 73625 L.O. 7663 68901 70570 67310 69312 71805 97366

S 809449 515081 515084 515083 515082 515080 789032 789031 72138 721377 789043 789030 721380 721379 721378 789042 789035 789038 789041 398702 398701 721384 721385 721388 721389 789130 789129 789128 789127

Mg 18353 MgLo 12068 Mg 12 167 Mg 8352 T 34915 MgLo 12706 Mg 20735 Mg 18353

567

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc N. Cobalt
HOLE NO. P85-1 LENGTH 695'
LOCATION N. Cobalt 196' South 300' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH Due West DIP -50°
STARTED 27-08-85 FINISHED 04-09-85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
265	47	270.0			
465	48	270.0			
665	46	280.35			

HOLE NO. P85-1 SHEET NO. 1 of
REMARKS _____
LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	33	- OVERBURDEN - Broken rock at base of unit - casing to 43'									
33		- SEDIMENTARY ROCK - Wacke to pebbley wacke near contact.									
33	44	- rock mildly broken up.									
33		- occasional bands of chlorite spotting									
69.6	70.5	- White quartz vein (0 → ½" wide); Knots of chalcopyrite in vein; occasional fragments of wall rock - chlorite on fracture surface and in fragments in vein; 10° to c/a.	88173	<5%	69.6	70.5	0.9'			TR.	
		@ 72.25 - White quartz vein (⅛" wide); fine dusting of chalcopyrite in wall rock; 50° to c/a.									
		@ 73.0 - as above.	88174	<2%	71.9	73.45	1.55'			TR	
		@ 75.3 - as above.									
		@ 77.4 - White quartz vein (< 1/16" wide); barren; 55° to c/a.									
		@ 83.1 - White quartz vein (2 1/16" wide); barren; 47° to c/a.									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-1 SHEET NO. 2 of 2

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 98.55 - White calcite seam (<<1/16" wide); barren; 45° to c.a.										
		@ 100 - as above.										
		@ 110.95 - Red-white quartz vein (≈1/4" wide irregular) 55° to c.a.										
138.5	139.8	- a few epidote seams in the core at irregular angles and intervals										
		@ 139.6 - gougy looking seam in core.										
140		- fine dusting of pyrite and chalcopyrite in core esp. around veins										
157	159	- core broken up.										
174.1		- VOLCANICS - Andesite porphyry at contact; contact @ 42° to c.a.										
		@ 177.55 - Pink calcite vein (1/4" wide); fine pyrite in wall rock.	88175	<5%	177.2	178.2	1.0'			TR		
		@ 177.85 - Pink-white calcite vein (1/2" wide); two generations of calcite in vein; last one vuggy, 50° to c.a.										
		@ 179.6 - Pink calcite breccia vein (1/4" wide); fine dusting of pyrite and chalcopyrite in wallrock none in vein; 46° to c.a.	88176	<5%	179.2	180.2	1.0'			TR		
		@ 181.4 - Micro fracturing & alteration (0 → 1/16" wide); pyrite and sphalerite in wall rock along altern; 18° to c.a.	88177	<5%	181.4	182.2	1.0'			TR		

LANGRIDGE - TORONTO - 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-1 SHEET NO. 3 of 10

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
182.2	183.2	@ 182.3 - Pink calcite vein (0 -> 1/16" wide); pyrite & sphalerite in vein; 17° to c.a.	88179	25%	182.2	183.2	1.0'			TR	
		@ 183.7 - Pink calcite vein (3/8" wide); vcrg fine pyrite and chalcopyrite vein.; 20° to c.a.									
		@ 185.0 - Pink-white calcite vein (0 -> 1/4" wide); pyrite; chalcopyrite; nickeline; in vein; 26° to c.a.	88180	2%	184.2	185.2	1.0'			TR	
		@ 188.3 - Pink-white calcite breccia vein (1/4" wide); fine pyrite in vein; 50° to c.a.	88181	3%	188	189	1.0			TR	
		@ 188.45 - Pink calcite breccia vein (1/4" wide); barren 30° to c.a.									
		@ 188.7 - Pink calcite vein (1/4" wide); barren; 30° to c.a.									
		@ 188.85 - Pink calcite vein (1/16" wide); barren; 40° to c.a.									
		@ 190 - ANDESITE									
		@ 191.95 - Pink calcite vein (1/8" wide); barren; 55° to c.a.									
		@ 192.15 - Pink calcite vein (1/4" wide); fine pyrite in vein; 32° to c.a.									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P25-1 SHEET NO. 4 of 10

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 193.2 - Pink calcite vein (½" wide); chlorite in vein	28182	—	192.5	193.5	1.0'			TR.	
197	199.3	- core somewhat broken									
199.3	200.3	- White calcite healing of breccia									
201	202.2	- 10 Pink calcite veinlets (≤1/16" wide); barren; irregular									
		@ 205.3 - Pink & green calcite-chlorite vein (⅞" wide); chlorite in vein and coating fracture surface; some brecciation cemented with rock flour along edge of vein; 57° to c.a.									
205.3		- ANDESITE PORPHYRY	28183	<3%	205.3	206.6	1.3'			Tr	
		@ 206.55 - Pink calcite vein (½" wide); minor quartz; chalcopyrite in vein and in wall rock; 50° to c.a.									
		@ 208.2 - Pink calcite vein (0 → ⅛" wide); chlorite in vein; 24° to c.a.									
		@ 224.6 - Gray-green fine grained dike(?) (2½" wide). Sulphide in dike; 35° to c.a.	28184	<5%	224.6	224.9	0.3'			Tr	

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 85-1 SHEET NO. 5 of 10

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
236.5'	276.8	@232 - White quartz vein (½" wide); clots of pyrite in core; 30° to c.a ← ANDESITE.	88185	<5%	232	233.3	0.3'			Tr	
		@240.3 - Pink calcite vein (¼" wide), chlorite in vein; 45° to c.a.									
246.5'		- fine dusting of pyrite through core									
252	253.15	- mild breccia healed with pink calcite; chalcopyrite in fractures with calcite	88186	<5%	252	253.15	1.15'			0.02	
266.35	267	- increase in the disseminated pyrite in core	88187	<10%	266.35	267	0.65'			0.02	
276.8	277.8	- RHYOLITE PORPHYRY									
277.8		- ANDESITE			277	287	10	0.02 oz Ag			
		@281 - White & pink calcite quartz vein (¼" wide). chlorite & epidote in vein and on fracture surface; 55° to c.a.									
		@285.9 - White & pink calcite quartz vein (¼" wide), chlorite & epidote on fracture surface; 50° to c.a.									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 85-1 SHEET NO. 1 of 3's

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
287	295	- Pale green curdled appearance to core poss. silicified in									
289.65	290.5	- Fg alteration in patches; chalcopyrite in the alt patches	88189	<5%	289.65	290.5	0.85		Tr		
		@ 2[illegible] - Pink calcite vein (3/8" wide); 55° to ca.			287	297	10	0.08 oz Ag			
		@ 312 - Pink calcite vein (0→1/2" wide); barren; 40° to ca.			297	307	10	0.02 oz Ag			
					307	317	10	0.02 oz Ag			
					317	327	10	tr			
		@ 315.45 - Pink calcite vein (0→1/4" wide); chalcopyrite in vein; 55° to ca.	88189	<5%	315	315.75	0.75		Tr.		
		@ 318.95 - Pink calcite gash vein; barren									
		@ 320.6 - Pink calcite vein (1/4" wide); trace pyrite; 67° to ca.									
		@ 320.75 - as above									
		@ 321.1 - as above									
		@ 321.9 - as above									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 85-6 SHEET NO. 7 of 10

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 324.5' - Pink calcite vein (¼" wide); barren; 55° to c.a.									
325.3	325.8	- Pink & white calcite patches & chlorite alteration in wall rock	88190	<3%	325.3	325.2	0.5'		Tr		
		@ 326.8 - Poss. pillow salvage; pyrrhotite & chlorite abundant; irregular	88191	<5%	326.5	329	0.5'		Tr		
334.5	338.6	- Purple-green cardiac appearance & poss. silicification			327	337	10	0.12	oz Ag.		
					337	347	10	0.02	oz Ag.		
338.6	666	- RHYOLITE PORPHYRY									
		@ 410.6 - Pink-white calcite quartz vein (½" wide); chalcopyrite in vein; 60° to c.a.	88192	<3%	410.6	411.05	0.45'		Tr		
		@ 411.6 - Pink-white calcite quartz vein (¼" wide); chlorite in vein; 65° to c.a.			360	370	10	tr			
					370	380	10	0.02	oz Ag.		
		@ 413.85 - as above.			380	390	10	0.02	oz Ag.		
					390	400	10	tr			
		@ 423.95 - Pink-white calcite & quartz vein (¼" wide); chalcopyrite in vein; 57° to c.a.	88193	<3%	423.7	424.25	0.55		Tr.		
		@ 424.55 - Pink-white calcite quartz vein (¼" wide) barren; 50° to c.a.			400	410	10	0.03	oz Ag		
					410	420	10	0.02	oz Ag.		

LANGRIDGES TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. PR 5-1 SHEET NO. 2 of 10

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 429.55 - Pink calcite vein (¼" wide); chlorite in vein; 67° to c.a.									
		@ 458.7 - Pink calcite breccia vein (1" wide); chlorite in vein, in wall rock and in fragments; 45° to c.a.	88194	/	458.65	459	0.35'		Tr	Tr	
					420	430	10	0.02	oz Ag.		
					430	440	10	0.04	oz Ag		
					440	450	10	0.04	oz Ag		
					450	460	10	0.05	oz Ag		
					457	467	10	0.07	oz Ag.		
		@ 518.45 - Pink calcite gash vein; blebs of chalcopyrite in vein;	88195	25%	518.3	518.8	0.5'		1	Tr	
519	522	- Many small irregular pink calcite gash veins and veinlets			467	477	10	0.05	oz Ag.		
					477	487	10	0.03	oz Ag.		
		@ 531.5 - Green-black-silver chlorite specular hematite vein irrigular; discontinuous			487	497	10	0.02	oz Ag.		
			88196	<5%	531.4	532	0.6'			Tr	
537	538.2	- Mafic dike edges at 32° to c.a. (0.8' wide)									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. F85-1 SHEET NO. 9 of 10

REMARKS _____

LOGGED BY George W. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 577.8 - White quartz vein (3/8" wide); hematite in vein; 45° to c.a.	88197	/	577.5	578	0.5'			0.02	
581.9	583.9	- Mafic dike; hanging wall @ 28° to c.a.			497	507	10	0.12	oz Ag.		
584.9	585.2	- as above			507	517	10	0.03	oz Ag.		
586.8	587.25	- as above			517	527	10	0.02	oz Ag.		
590		- Porphyry takes on a red colour in patches.			527	537	10	0.04	oz Ag.		
604.4	604.7	- mafic dike			537	547	10	0.03	oz Ag.		
606	608.7	- mafic dike - strong epidote alteration on hanging wall contact minor epidote altern. near footwall in dike material - Footwall @ 18° to c.a.			547	557	10	tr			
					557	567	10	0.03	oz Ag.		
630	631.3	- Greenish mafic dike contacts @ 24° to c.a.			567	577	10	0.04	oz Ag		
					577	587	10	0.03	oz Ag		
		@ 634.7 - Pink-white calcite veinlet (< 1/16" wide); 44° to c.a.			587	597	10	tr	oz Ag		
		@ 636.2 - as above			597	607	10	0.03	oz Ag		
					607	617	10	0.02	oz Ag.		
643.9	645.8	@ [illegible] - Black → green mafic dike; contact @ 30° to c.a.			617	627	10	0.03	oz Ag		
666	EOH	DIABASE			627	637	10	0.03	oz Ag		
666	671	- chill margin			637	647	10	0.02	oz Ag		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@670.45' - Band of epidote alteration; some red hematite streaks; 62° to c.a.									
		@673.4 - as above; white quartz vein on footwall chalcopyrite in vein; 50° to c.a.	82179	< 3%	673.15	673.8	0.65'				
		@675.6 - as above; white quartz vein irregular; streaked with red hematite → 3" wide	82180	2%	675.35	675.9	0.55'				
		EOH @ 695'			647	657	10	0.02	oz Ag		
					657	667	10	Tr			
					667	677	10	tr			
					677	687	10	tr			
					687	697	10	0.04	oz Ag.		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc. N. Cobalt
HOLE NO. P85-2 LENGTH 795'
LOCATION N. Cobalt 244' South 285' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 090° DIP -50
STARTED 04-09-85 FINISHED 11-09-85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
390	48	91°			
590	48	98°			
790	46	107°			

HOLE NO. P85-2 SHEET NO. 1 of 6
REMARKS _____
LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	≈57	-OVERBURDEN- SOIL, CLAY, Gravel									
57		- SEDIMENTARY ROCK- greywacke near contact.									
57	105	- core broken up (probably by drill)									
57		- intermitant chlorite spotting in core.									
86	97	- coarse grit - poorly indurated,									
		@125.3 - White calcite veinlet (irregular 1/16" → 1/4"); vuggy; 25° to c.a.									
		@132.55 - Pink calcite gash vein									
135	137.5	- some healing of fractures with pink calcite									
161.4	162.5	- as above.									
167.6	172.4	- as above									
194.9	195.4	- breccia healed with pink calcite									
199.3	200.3	- breccia healed with white calcite; fine pyrite; poss. arsenides in breccia.	27501	2.5%	199.3	200.3	1'			0.02	
213	215.7	- some healing with pink calcite									
246.5	248	- small white calcite vein subparallel to c.a									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 2 of 6

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
272.3	274.2	- chlorite alteration with marcasite patches in core - some vuggy white calcite patches with fine sulphides @ rim	27502	<5%	272.3	273.3	1'			0.02	
272.4		- VOLCANICS - basalt → andesite at contact.	27503	<5%	273.3	274.2	0.9'			Tr	
276.35	278.6	- Mafic dike									
		@ 281.3 - Ribbon of pink calcite in core.									
		@ 281.8 - epidote alteration									
		@ 283.2 - Pink calcite vein (¼" wide); chalcopyrite in vein; 50° to c.a.	27504	<2%	283.05	283.25	0.2'			Tr	
294	294.4	- several discontinuous fractures; white calcite, pyrite & specular hematite on fracture.	27505	<3%	294	294.4	0.4'			Tr	
		@ 296.5 - as above - epidote alteration	27506	<3%	295.5	295.8	0.3'			0.02	
		@ 300.6 - White quartz vein (1" wide); specular hematite in vein; ≈ 53° to c.a.	27507	/	300.3	300.8	0.5'			Tr	
		@ 302.5 - as above (¼" wide)	27508	/	302.35	302.7	0.35'			0.02	
309	310.4	- Mafic dike - 50° to c.a.									
322.9	325	- Mafic dike									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 3 of 4

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 329.0 - Pink white red green calcite-chlorite vein (1¼" wide); hematite in vein chlorite in thick bands on rim; 95° to c.a.	27509	/	328.8	329.4	0.6'			0.02		
348.5	351.8	- Pink → white calcite patches and gash veins chlorite & epidote in wall rock; trace pyrite & chalcopyrite.	27510	<3%	348.5	349.8	1.3'			0.02		
			27511	<3%	349.8	351.0	1.2'			Tr		
			27512	<3%	351.0	351.8	0.8'			Tr		
		@ 383.0 - White qtz vein (¼" wide); barren; 36° to c.a.										
390	393.6	- Mafic dike										
		@ 391.2 - White qtz vein (½" wide); pyrite on fracture surface; chlorite on surface and in vein; 42° to c.a.	27513	<3%	390.9	391.5	0.6'			Tr		
		@ 392 - Pink calcite vein (⅛" wide); chlorite on fracture surface										
		@ 392.4 - as @ 391.2										

LANGRIDGE – TORONTO – 366-1168

RM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	-DIP	AZIMUTH

HOLE NO. P85-7 SHEET NO. 4 of 6

REMARKS _____

LOGGED BY G. Will

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
405	420	- Core broken; some cementing with lgt. pink calcite									
		@ 430 - core broken; cemented with pink calcite; chlorite in patches; vuggy; trace chalcopyrite in vugs	27514	<3%	429.7	430.3	0.6'			0.02	
		@ 450.5 - porphyry / andesite contact									
451.5	466	- series of small stringer veins and gash veins									
468	494	- rhyolite porphyry									
479.8	480.6	- mafic dike									
480.6	490.3	- Dark green mottled andesite porphyry?									
		@ 485.2 - Band of chlorite & specular hematite; 78° to c.a.									
494		- Dk green mottled andesite porphyry?									
		@ 497.6 - White & pink calcite breccia vein (irregular); 22° to c.a.	27515	<3%	485.0	485.7	0.4'			Tr.	
		@ 498.2 - Pink calcite breccia vein (¼" wide); 45° to c.a.									

LANGRIDGES TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 5 of 6

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
545	550	- increase in the number of blebs of chalco pyrite	27516	<3%	546.9	547.5	0.6'			Tr	
562	575	- andesite? appears heavily silicified and iron stained.									
575	591.4	- Poss. mafic dike; iron stained; epidote along fracture; several irregular calcite filled breccia zones of several inches in width.									
		@ 576.3 - Pink calcite cemented breccia zone (2" wide); fine sulphides	27517	<3%	576.0	576.7	0.7'			Tr	
		@ 590.6 - as above (8" wide); vuggy	27518	- /	590.4	591.4	1.0'			Tr	
591.4	593.6	- Rhyolite porphyry									
593.6	594.1	- mafic dike									
594.1	613	- Rhyolite porphyry									
594.1	±610	- rock heavily brecciated and cemented with white calcite; definite fault.									
610		- Bk green andesite?									
615	618	- Pink calcite cemented breccia									
625		@ 620 - Pink calcite vein (irregular); trace pyrite - rock badly altered									
632.7	634.6	- mafic dike; patches of epidote									
627.5	630	- white calcite cemented breccia									
639.2		- core badly broken occasional cementing with white or pink calcite									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. 6 of 6

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
665	688.5	- granophyre, dike [illegible] brick red; bands of epidote; some areas have → 20% qtz banding									
688.5		- heavily saussirisitized (✓) diabase									
695	703.5	- diabase sporadicly brecciated and cemented with white calcite									
703.5	706.7	- granophyre dike									
709.5	711.7	- as above									
711.7	715.0	- heavily altered and brecciated diabase									
720	730	- occasional small patches of calcite in core									
737.7	738.9	- Swirled green-pink calcite chlorite epidote vein (1¼" wide); lgt. green alteration extends 2" into wall rock; 20° to CA	27519	/	737.7	738.9	1.2'			0.32	
762.5	EOH	- Irregular sporadic veinlets of pink calcite scattered along core									
		EOH-795.5									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc.
HOLE NO. P-85-3 LENGTH 754.3 feet
LOCATION N. Cobalt 294' South 290' West
LATITUDE DEPARTURE
ELEVATION AZIMUTH DUEE DIP 50°
STARTED 11-09-85 FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
250	50	90.5			
500	49	97			
750	48	107			

HOLE NO. P-85-3 SHEET NO. 1
REMARKS
LOGGED BY

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	63'	CASING
0	61.5'	OVERBURDEN
61.5'		SEDIMENTS. COARSE GRAINED GRADUATING TO FINE GRAIN
	62' TO 62.6'	FRACTURES FILLED WITH WT GRY CALCITE SOME P. CALCITE SMALL VUG INSIDE VEIN ABOUT 15° TO C.A. SMALL EUHEDRAL REDDISH BROWN QTZ CRYSTALS IN VERY DISTRIBUTED ARRAY OF CUBIC PY GOOD STRIATIONS.
62.2	5	
	62.8 TO 63.4'	IRREGULAR OFF GREEN BAND. 40° TO C.A. WELL DEFINED
		CONTINUE TO 67'
	68	WT CALCITE VEINLET 1/16" IRREGULAR ALONG ABOUT 15° TO C.A.
		EUHEDRAL WT. QTZ CRYSTALS, VERY SMALL FLECKS OF PY
	69.5	SMALL ANGULAR PINK RED PEBBLES
	71	ALTERATION ALOS PRESENT

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
		75	85	10	tr.			
27521		62	62.6	.6'			.02	
27522		68	68.5	.5'			TR	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. P-85-3 LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 2

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
	73'	FINE GRAIN TO COARSE GRAIN			85	95	10	0.02	oz Ag		
	80'	3" BAND CONTAINING ILLUSTRATING PARTICAL SEGREGATION QTZ COARSE, TOP FINE SAND PARTICLES IRREGULAR WT QTZ CALCITE VEINLET RUNNING @ ± 55° TO CR.									
	81.5	WT QUARTZ CAL. VEINLET @ ± 60° TO CR.									
80.2	85	ALTERNATING LAYERS, IRREGULAR WIDTH, LARGE PEBBLES TO FINE - FINELY DISPERSED THROUGH FINE GRAINED MATRIX.	27657	1	89.1	89.4	0.3'			TR.	
75	115'	INTENSE CHLORITE SPOTTING SMALL DOTS ± 1/16 TO LARGE 1/4" DOTS (WITH ALTERATION HALOS.									
93.5	95	CORE BADLY BROKEN									
95	131	NUMEROUS WT CAL. HEALED FRACTURES " CHL ON FRACTURES.									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY PROTEUS
HOLE NO. P-85-3 LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 2
REMARKS

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
134.5	137.7	fine grained — PARTICLE INTENSE CHLORITE SPOTTING. and heavy potassic alteration dots			95	105	10	0.02	oz Ag.		
					105	115	10	tr			
130	142.5	FINE FRACTURES VERGING ON BRECCIATION FILLED WITH WT CALCITE, CHLORITE ON FRACTURES; areas of moderate chlorite spotting	27658	<1	142.9	143.5	0.6'			0.02	
152.5	15.4	brecciated + fractured, filled with white + pink calcite	27663	<2	152.2	153.2	1.0'			TR	
155	157	BRECCIATED SEAM HEALED WITH WHITE & PINK CALCITE			115	125	10	tr			
					125	135	10	tr			
	157	INTERESTING VUG. IN BRECCIA. WELL FORMED WT QUARTZ CRYSTALS. PYRITE CUBES WELL FORMED AND STRIATED — HEMATITE ROSETTS? ARSENIDES ON VUG WALL	27523	<3	155	157	2'			.03	
		P. WT CAL. IN PREVIOUS TO QUARTZ SOLNS	27659	<3	157	157.6	0.6'			002	
		SAMPLE 1 (2" LENGTH OF CORE)			135	145	10	0.02	oz Ag.		
158	167	- minor chlorite spotting			145	155	10	tr			
168	170	BRECCIA. — FAULT GOUGE? HEALED BY P-WT. CAL. <3% fine pyrite + tetrahedrite	27660	<3	168.4	169.4	1.0'			0.07	
			27661	<3	169.4	170.4	1.0'			0.02	
			27662	<2	171.0	172.0	1.0'			0.02	
172	172.5	ANOTHER BRECCIATED ZONE .6'									
173.3	173.7	brecciated zone; pink to white calcite cement			155	165	10	tr			
172.5	18 ±1.1	NUMEROUS WT. CAL. VEINLETS in fine grained sediments with well defined bedding <1/2" to 1" thick; alternating light + dark layers			165	175	10	0.02	oz Ag.		
					175	185	10	0.02	oz Ag.		
184.1	185	moderate silicific spotting + potassic alteration spots									

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY PROTEUS
HOLE NO. P-85-3 LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 1
REMARKS

LOGGED BY R. Cini-s

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		alternating fine & coarser grained layers - minor to moderate chlorite spotting			185	195	10	tr			
					195	205	10	tr			
185	235	THIN LAYERS CARRY FINELY DISSEMINATED PY.			205	215	10	tr			
		OCCASIONAL INCLUSION OF LARGER			215	225	10	tr			
		PEBBLES CRUM OF MATRIX GRADUALLY			225	235	10	tr			
		COARSER.			235	245	10	tr.			
	233	1/4" P-R-WT QUARTZ VEINLET CHL. ON FRACTURE			245	255	10	tr			
233	235	CHLORITE ON FRACTURES ALT. HALO.			255	265	10	tr			
235	247.3	PEBBLY CONGLOMERATE; trace of sulfides			265	275	10	0.02	oz Ag.		
	239	FLECKS OF PY IN MATRIX OF CONG.	27527	<1%	239	239.5	.5'			TR	
239	268.8	alternating beds of fine grained & coarser (up to conglomerate) sediments; beds range from 1/10" to 5"									
259	260	DISSEMINATED PY FLECKS THROUGH conglomerate matrix	27528	<1%	259	260	1'			TR	
268.8	269.5	medium to fine grained sediments @ 269.9 - several white calcite veins 1/10" wide; 35° to C.A.			275	285	10	0.02	oz Ag.		
269.5	271.7	coarse to fine grained seds; interbedded									
271.5	275	brecciated zone; filled with white to pink calcite; trace of fine grained sulfides; vuggy in places; euhedral qtz + calcite grains	27564	<1	273	274	1.0'			TR.	
			27565	<1	274	275	1.0'			TR.	
275	279.6	VOLCANICS - rhyolite									
279.6	282.1	brecciated zone; very fractured; filled with white quartz and white calcite; <2% fine disseminated chalcopyrite + pyrite in matrix; moderate to chloritization	27561	<2%	280	280.9	0.9'			TR.	

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. P-85-3 LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO.
REMARKS
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
282.1	285	rhyolite highly fractured and filled with white calcite; chloritized along fractures; fine disseminated sulfides along hairline fractures and veinlets; < 3% chalcopyrite + pyrite @ 285 light pink calcite vein 1/10" wide; minor chlorite alteration; 52° to C.a.	27572	~3%	283.5	284.1	0.6'			.02	
285	287	lamprophyre dike; moderately magnetic @ 286.9 - pink calcite vein 1/10" wide; 80° to C.a			285	295	10	0.02	tr Ag.		
287	294.1	rhyolite - slightly porphyritic with small quartz eyes @ 291.6 - pink calcite vein 1/10" wide; 75° to C.a			295	305	10	0.02	tr Ag.		
					305	315	10	0.02	tr Ag.		
294.1	294.4	lamprophyre dike									
294.4	295	rhyolite									
295	297	lamprophyre dike									
297	303.2	porphyritic rhyolite									
303.2	303.6	lamprophyre dike									
303.6	307.95	porphyritic rhyolite @ 307.95 pink calcite vein 2/5" wide; chlorite alteration along edges; 65° to C.a.									
308	308.6	lamprophyre dike @ 308.6 irregular pink calcite vein with blebs of white quartz; up to 1/5" wide; trace of specular hematite and cpy									

LANGRIDGES – TORONTO – 366-1168

FORM

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 6

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
308.6	319.7	porphyritic rhyolite									
308.8	309.1	several irregular pink calcite veins; discontinuous; some potassic alteration, minor;									
		@ 311.6 irregular pink calcite gash vein with minor potassic alteration									
		@ 313.5 white calcite veinlet $\frac{1}{16}$" wide; 46° to C.a									
		@ 313.6 large bleb of subhedral pyrite									
		@ 315.5 quartz-calcite vein; $\frac{3}{10}$" wide; pink calcite; minor potassic alteration; chlorite along edge of vein ∠1% chalcopyrite; 51° to C.a	27562	∠1%	315.4	315.8	0.6'			TR	
		@ 318.0 quartz-calcite vein; irregular shape; ∠1% fine disem. cpy; 30° to C.a									
319.7	320.5	andesite									
		@ 320.5 pink calcite vein $\frac{1}{5}$" wide; 59° to C.a									
320.5	344.8	porphyritic rhyolite									
		@ 337.4 pink calcite vein $\frac{1}{10}$" wide; chloritized along border 27° to C.a									
		@ 340.7 - discontinuous pink calcite vein; $\frac{1}{10}$" wide									
		@ 344.6 - pink to white calcite vein $\frac{1}{10}$" wide; minor chloritization; 45° to C.a.									
344.6	345	lamprophyre dike;									
345	389.9	porphyritic rhyolite									

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 2-85-3 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS PPB Au
		@ 348.7 discontinuous pink calcite vein ; 1/10" wide ; moderate potassic alteration in nearby wall rock ; < 1% fine disseminated chalcopyrite ; 15° to c.a.			395	405	10	0.03	tr Ag.			
		@ 349.6 see above ; 54° to c.a			405	415	10	0.02	tr Ag.			
359.5	360.5	moderate potassic alteration										
363.2	363.8	irregular quartz - calcite vein ; pink calcite ; irregular "blebs" of dark green chlorite moderate potassic alteration < 1% fine disseminated pyrite + cpy ; 46° to c.a	27563	< 1%	363.1	363.8	0.7'			TR		
364.8	365.4	quartz vein in brecciated zone ; irregular blebs of pink calcite throughout ; vuggy in places with euhedral white calcite + quartz crystals ; chloritized throughout ; < 3% fine euhedral pyrite cubes and finely disseminated	27564	< 3%	364.7	365.3	0.6'			.02		
365.7	366.7	cut by numerous white irregular calcite veinlets ; < 1% fine grained sulfides										
370.6	371.5	brecciated + filled with white calcite ; trace of fine sulfides ; vuggy in places	27565	< 1%	370.6	371.5	0.9'			TR		
		@ 372.6 - smoky white qtz vein 1.5" wide irregular blebs of pink calcite + dark green chlorite ; < 1% disseminated pyrite	27566	< 1%	372.6	373.0	0.4'			TR		12
		@ 380.15 pink calcite vein 1/10" wide ; chloritized along edges ; 45° to c.a										

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 8

REMARKS _____

LOGGED BY R. Coates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 384. - smoky white qtz vein; 1" wide; irregular blebs of pink calcite + dark green chlorite; < 5% specular hematite	27517	<1%	384.0	384.2	0.2'			TR	
		@ 388.9 irregular pink calcite vein; 1/5" wide discontinuous									
		@ 389.7 - quartz-calcite vein; 1" wide, 90° to c.a; pink calcite; heavily chloritized; <3% disseminated chalcopyrite	27605	<3%	389.7	390.1	0.4'			TR.	
389.9	391.5	lamprophyre									
391.5	392.1	porphyry									
392.1	395.2	lamprophyre									
		@ 392.3 pink calcite vein 1/5" wide; chloritized along margin; 56° to c.a; <3% disem cpy	27606	<3%	395	395.5	0.5'			TR.	
		393.2 - 395.2 - several pink calcite veins									
395.2	463.7	porphyry (quartz)			—	435	?	tr			
		397.3 - 398.3 - white to light pink irregular calcite vein; subparallel to c.a.; vuggy in places with euhedral calcite crystals; chloritized along margin			435	445	10	tr			
					445	455	10	tr			
		398.3 - 398.5 - quartz vein; heavily chloritized; 15% red hematite			455	465	10	tr			
		401.5 - 404 - heavily fractured + filled with quartz + white calcite									

LANGRIDGES — TORONTO — 368-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-3 SHEET NO. 9

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		408 - 409.3 - irregular quartz - white/pink calcite vein; subparallel to core axis; trace of fine sulfides									
		@ 409.3 pink calcite vein 1/5" wide; minor quartz 75° to C.a.									
		@ 411.9 - smoky white quartz vein 3/10" wide; irregular blebs of pink calcite and needle + roses of specular hematite; < 1% sulfides; irregular mass of pyrite 30° to C.a	27568	< 1%	411.9	412.2	0.3'			TR	
		@ 413 see above									
		@ 415.4 see above									
		@ 418.3 see above									
		422.0 - 422.4 heavy potassic alteration									
		@ 430.1 - irregular white-grey qtz vein; chloritized; < 5% specular hematite; 70° to C.a									
439.1	439.5	heavy potassic alteration									
		@ 439.9 - white qtz vein 3/10" wide; minor pink calcite; chlorite; < 1% specular hematite; < 1% sulfides 63° to C.a.									
443.5	449.9	irregular quartz calcite vein (pink); heavily chloritized 5% specular hematite; < 1% sulfides									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 10

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
442.8	447.1	fractured + brecciated ; filled with white calcite ; potassic alteration is moderate ; < 1% sulfides
449.8	450.4	many white to grey calcite veinlets : 40° to c.a
463.7	464.5	andesite - intensely spotted with chlorite
463.7	465	brecciated zone ; filled with white calcite
465	466.1	quartz porphyry
466.1	484	quartz - feldspar porphyry ; highly fractured + filled with qtz - white calcite veinlets ; very irregular ; < 3% fine sulfides
469.2	469.8	brecciated zone ; filled with white calcite ; vuggy ; fine disseminated sulfides < 3%
484	515	porphyritic rhyolite
		491.8 - 492.6 - several irregular white calcite veinlets ; discontinuous ; varying orientations
		@ 494.8 - pink calcite vein 1/10" wide ; 71° to c.a.
		@ 495.5 light pink calcite vein 1/10" wide ; chloritized ; < 1% sulfides
		@ 496.8 smokey white quartz vein ; 1" wide ; moderate chlorite and potassic alteration ; 5% hematite ; 75° to ca with irregular pink calcite "blebs"
		@ 501.6 see above - 1.5" wide ; 80° to ca.

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		465	475	10	tr			
		475	485	10	tr			
		485	495	10	0.02	oz Ag.		
		494	505	9	0.02	oz Ag.		
		505	515	10	0.02	oz Ag.		
27569	<3%	468	468.6	0.6'			TR	
27570	<3%	468.6	469.8	1.2'			.02	

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 505.9 see above ; 2/5" wide
		@ 511.4 see above
		@ 511.7 see above
515	521.3	rhyolite
521.3	527	porphyritic rhyolite
527	545	rhyolite ; moderate potassic alteration ; [illegible] several small white to pink calcite filled fractures ; moderate to heavy chloritization along hairline fractures
545	550.6	lamprophyre
		@ 547.7 light pink calcite vein 1/5" wide ; 50° to c.a
550.6	555.7	rhyolite ; several white to pink calcite filled fractures -fine to medium pyrite + chalcopyrite throughout
555.7	565	dacite.
		@ 559.6 - pink calcite vein 1/5" wide ; < 1% disseminated pyrite ; chloritized ; 50° to c.a
		559.6 to 561.2 - several white to pink calcite filled fractures + veinlets
565	575	rhyolite ;
		570.0 - 772.6 - several irregular pink to white calcite veinlets
575	588.1	porphyritic rhyolite ; minor specular hematite throughout
		@ 575.8 white to pink calcite vein ; 1/2" wide

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		515	525	10	0.02	oz Ag.		
		525	535	10	0.02	oz Ag		
		535	545	10	0.02	oz Ag		
		545	555	10	0.02	oz Ag		
		555	565	10	0.02	oz Ag		
		565	575	10	0.02	oz Ag.		
27607	<3	538.3	539.3	1.0'			TR	
27608	<3	539.3	540.3	1.0'			.02	
27609	<5	540.3	541.3	1.0'			.02	
27610	<3	541.3	542.3	1.0'			.02	
27611	<3	542.3	543.3	1.0'			.02	
27612	<3	543.3	544.3	1.0'			.02	
		575	585	10	0.02	oz Ag		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D-95-3 SHEET NO. 12

REMARKS _____

LOGGED BY R Pinto

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		subparallel to c.a			585	595	10	0.02	oz Ag.		
		@ 577.5 white to pink calcite vein 1/10" wide; 44° to c.a.			595	605	10	0.02	oz Ag		
		@ 580.2' pink calcite vein 1/5" wide; irregular shape; approx. subparallel to c.a; blebs of chlorite throughout; moderate potassic alteration			605	615	10	0.02	oz Ag.		
		@ 582.5 - grey qtz vein 3/10" wide; heavily chloritized; ∠ 10% specular hematite; trace of fine disem. sulfides; 67° to c.a			615	625	10	0.02	oz Ag		
		@ 594.8 - see above									
		@ 595.2 - see above									
		@ 597.8 - white calcite vein 1/10" wide; subparallel to c.a									
588.1	588.4	lamprophyre									
588.4	622.1	porphyritic rhyolite; moderate to heavy potassic alteration									
		592.5-595 - many light pink calcite filled fractures and veinlets; irregular shapes; ∠ 1/10" to 1/5"									
		595 - 595.3 brecciated zone filled with white calcite 19° to c.a									
		598.5 - qtz & chlorite - epidote vein; 2/5" wide; 10% spec. hematite in well formed roses and blades; minor pink to white calcite; 72° to c.a									
		599.8 - pink qtz - calcite vein; 1/10" wide; ∠ 3% disem. sulphides									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 13

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
[illegible]	[illegible]	612.7 - 622.1 - numerous irregular white to pink calcite veinlets			625	635	10	0.02	oz Ag		
622.1	622.3	lamprophyre [illegible]			635	645	10	Fr			
622.3	622.7	porphyritic rhyolite			645	655	10	0.02	oz Ag		
622.7	624.7	lamprophyre [illegible]			655	665	10	0.02	oz Ag		
624.7	625.8	porphyritic rhyolite			665	675	10	0.02	oz Ag		
625.8	626.4	lamprophyre [illegible]									
626.4	640.5	porphyritic rhyolite @ 633.3 - grey quartz vein ½" wide; - heavily chloritized; < 1% dissem chalcopyrite; 5% spec. hematite; 60° to C.a									
640.5	642.2	andesite									
642.2	651.3	porphyritic rhyolite									
651.3	657.9	heavily fractured + brecciated rhyolite; filled with white to pink calcite; minor chlorite alteration along fractures; < 1% finely dissem. sulfides in calcite									
657.9	659.1	heavy potassic alteration									
659.1	659.5	apple green mineral in abundance (epidote?) - fine grained mediu-like texture									
659.5	671.2	porphyritic rhyolite; heavily brecciated in places; filled with white to pink calcite; chloritized along edges of fractures; breccia zone runs approx. subparallel to core axis									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 14

REMARKS _____

LOGGED BY R Lin As

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
671.2	672.0	intense chlorite spotting			675	685	10	0.02	oz Ag		
672.0	674.2	feldspar porphyry ; cut by several irregular quartz-calcite gash veins :			685	695	10	0.02	oz Ag.		
674.2	694.8	intense chlorite spotting ; several irregular white to pink calcite veins + Fractures									
		678 - 679.2 heavily chloritized + epidotized ↓ with moderate potassic alteration ; brecciation in places			735						
		685-686 - fractured + filled with white calcite									
		687.7 - 688 - several irregular white calcite veinlets									
		@692 - light pink calcite vein 1/5" wide ; 25° to C.a									
		693.7 - 694.8 - several irregular white calcite veins									
695	697.6	rhyolite - porphyritic ; moderate potassic alteration ; minor spec. hematite									
697.6	699.1	brecciated zone - filled with white calcite : 33° to C.a	27571	<1%	697.6	698.6	1.0'			.02	
699.1		porphyritic rhyolite									
		@702.3 - white calcite vein 1/8" wide ; 41° to C.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

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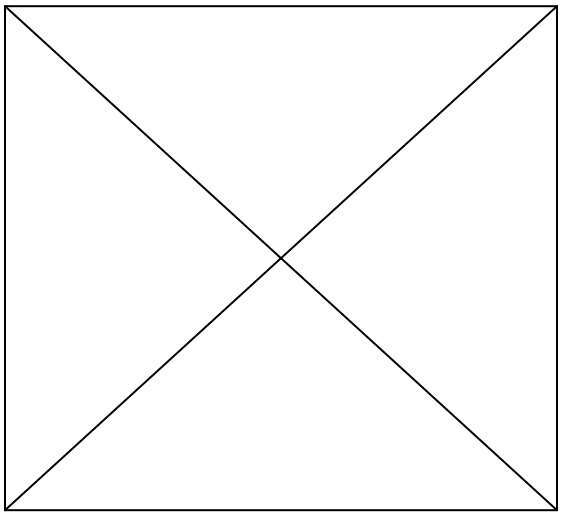

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DIAMOND DRILL RECORD

NAME OF PROPERTY Silverside Resources Inc.
HOLE NO. P85-4 LENGTH 755
LOCATION N. Cobalt 396' South 222' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH DUE E DIP -50
STARTED _____ FINISHED Sept 29/85

is this correct for declination?

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
350	48	113			
550	46	114			
750	45	124.5			

HOLE NO. P85-4 SHEET NO. 1 of 16
REMARKS _____
LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	63.3	- OVERBURDEN									
63.3		- SEDIMENTARY ROCK - Interbedded pebbly wacke and banded argillite near contact @ 64.8 - white quartz vein (¼" wide); chalcopyrit in core; 17° to c.a. @ 65 - pronounced chlorite spotting in wacke	Sampled from 63' to 105' see last 3 pages 27687 to 27700 and 88456 to 88483								
72.6	73.2	- four irregular thready white calcite veins in core									
76.8	85.85	- many irregular thready white calcite veins.									
92.2	92.5	- pronounced chlorite spotting.			—	75	?	5.45	oz Ag		
97.6 ≈100	98	- as above - pebbly wacke dominant @ 98.4 - pronounced chlorite spotting			—	95		1.26	oz Ag		
					95	105	10	0.13	oz Ag		
103.85	104.3	- intense chlorite spotting			105	115	10	0.41	oz Ag		
104.3	106.1	- sporadic chlorite spotting			115	125	10	0.42	oz Ag		
106.1	106.8	- intense chlorite spotting									
107.7	107.98	- as above									
117.3	128	- Brecciated zone cemented with white → clear calcite; very vuggy; fine dusting of euhedral (mostly) pyrite crystals; occasional areas of gray → black subhedral → nonhedral nests & probably sphalerite or magnetite; fault @ ≈35° to c.a.	27526	<1%	117.3	118.3	1.0'			Tr	
			27527	<1%	118.3	119.3	1.0'			0.02	

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-4 SHEET NO. 2 of 16

REMARKS _____

LOGGED BY G. Hill

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		Rock less brecciated	27528	<10%	119.3	120.3	1.0'			Tr	
		as above	27529	<10%	120.3	121.3	1.0			0.02	
			27530	<10%	121.3	122.3	1.0'			Tr	
			27531	<10%	122.3	123.3	1.0'			0.02	
			27532	<10%	123.3	124.3	1.0'			Tr	
			27533	<10%	124.3	125.3	1.0'			Tr	
			27534	<10%	125.3	126.3	1.0'			Tr	
			27535	<10%	126.3	127.3	1.0'			Tr	
133	196.5	- more very fine irregular calcite veins.	27536	<10%	127.3	128.3	1.0'			Tr	
					125	135	10	0.29	oz Ag		
134.3	137.8	- core broken due to head pressure and sub parallel fracture			135	145	10	0.15	oz Ag		
		@139.8 - White calcite cemented breccia; pyrite crystals in vug; 50° to c.a.	27537	<3%	139.8	140.1	0.3'			Tr	
		@ 142.1 - White calcite breccia vein (irregular); chlorite alteration around vein; vuggy; 19° to c.a.									
		@ 143.4 - pink-white calcite vein ≈ 1/8" wide; orientation 30° to C.a - very fine grained sulfide mineralization along edge of vein (<3%)	27538	<3%	143.4	143.65	0.25'			Tr	

LANGLEY BROS. – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-4 SHEET NO. 3 of 16

REMARKS _____

LOGGED BY G. Hill / R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 144.4 - brecciated zone with white calcite cement; <1% very fine grained sulfides; orientation of zone 25° to C.a.	27539	<1%	144.4	145.0	0.6'			Tr	
					145	155	10	0.08	≈ Ag.		
145	147.2	irregular calcite veining; with some chlorite spotting; all veins < 1/16" in width; no visible associated sulfides (note: ground core)			155	165	10	0.25	oz Ag		
					165	175	10	0.54	oz Ag		
					175	185	10	0.38	oz Ag		
147.7	155.8	- increase in size of pebbles - conglomerate								Tr	
155.8	156.9	- pebbly wacke									
156.9	157.4	- conglomerate									
157.4	157.9	- mudstone -									
157.9		- coarsens to pebbly wacke etc.									
158	159.3	- White calcite cemented breccia; fine dusting of pyrite; vuggy									
161.5	170	- White calcite cemented Breccia cut by small irregular white calcite veinlets barren;									
194.2	174.6	- Brecciated wacke cemented with white-green calcite (?)									
175.6	177.5	- irregular white calcite veinlets; no visible sulphides.									
185.6	188.4	many irregular white calcite veinlets @ 186.25 - White calcite veinlet ≈ 1/16" wide; orientation 40° to C.a. @ 186.5; as above - opposite orientation @ 190.9 - pronounced chlorite spotting									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-41 SHEET NO. 4 of 16

REMARKS _____

LOGGED BY G. Hill / R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 184.2 - white calcite veinlet about 1/16" wide; orientation 60° to C.A.			185	195	10	0.32	tr Ag		
		@ 194.5 - as above			195	205	10	0.26	tr Ag		
		@ 198.70 - white calcite veinlet; irregular bearing			205	215	10	0.20	tr Ag		
		@ 199.70 - white calcite breccia vein ≈ 1/8" wide; vuggy; fleck of euhedral pyrite			215	225	10	0.18	tr Ag		
					225	235	10	0.05	tr Ag		
201.80	202.70	- white calcite cemented breccia; trace of pyrite									
206.80	207.20	- intense chlorite spotting; trace of chalcopyrite	27540	< 1%	206.80	207.20	0.40'			Tr	
		@ 209.7 intense chlorite spotting								tr	
					235	245	10	0.13	tr Ag		
213.60	214.00	distinct chlorite spotting									
		@ 217.55 white quartz vein; about 1/8" wide; orientation 41° to C.A.									
		@ 218.5 - white quartz-calcite vein; some pink hematite staining (localized); about 1/4" wide; chlorite on fracture surface orientation 37° to C.A.									
218.5	221.4	conglomerate									
225.0	261.4	scattered but distinct chlorite spotting									
233.5	238.2	grit									
		@ 239.6; white quartz vein; 1/8" wide approx.; orientation 44° to C.A.									
		@ 239.8; white calcite veinlet, width irregular; no visible sulfides orientation 23° to C.A.									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P 85-4 SHEET NO. 5 of 16

REMARKS _____

LOGGED BY _____

LOGGED BY G. Hill / R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
241.8	245.1	- several irregular white calcite veinlets; barren
253.6	256.1	as above
262.8		= VOLCANIC ROCK - quartz porphyry at contact
262.8	264.7	- porphyry
264.6	266.5	- fine grained diabase dike
266.5	272.9	- porphyry thin to rhyolite
272.9	273.0	- irregular white calcite veinlets (< 1/8" → 1/8" wide); trace of sulphide (very fine) - pyrite
276.5	277.1	- increase amount of pyrite in calc; blebs → euhedral xtals
278	281.4	- porphyry
281.4	281.6	- increase in amount of pyrite in small calcite and irregular blebs
		@ 283 - Pale pink calcite vein (1/5" wide); very finely disseminated pyrite in vein; 60° to c.a.
283	285.9	- andesite
285.9	290	- rhyolite
290	290.2	- andesite
2		@ 290. Pink calcite vein (1/5" wide); no visible metallics; 42° to c.a.
		@ 290.7 - as above
290.2	292.75	- rhyolite
		@ 292.35 - Pink calcite vein (1/5" wide); no visible metallics; 50° to c.a.

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		245	255	10	0.15	tr Ag		
		255	265	10	0.14	tr Ag		
		265	275	10	0.05	tr Ag		
		275	285	10	0.02	tr Ag		
		285	295	10	0.02	tr Ag		
		295	305	10	0.02	tr Ag.		
27541	<5%	276.5	277.1	0.6'			Tr	

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-4 SHEET NO. 6 of 16

REMARKS _____

LOGGED BY G. Hill / R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
292.3	293.5	- Andesite			305	315	10	0.05	tr Ag		
293.5	296.9	- Rhyolitic			315	325	10	0.02	tr Ag		
		@ 294° - Lgt pink calcite vein (1/10" wide); very fine dusting of sulphides 55° to core axis			325	335	10	0.02	tr Ag	Tr	
296.9	300.7	- Rhyolitic									
300.7	307.3	- Andesite									
		@ 307.3 Pink calcite vein/gash veins. Veins < 1/4" wide; 20° to c.a.									
307.3	316.0	- Rhyolitic									
		@ 316.7 - Lgt pink calcite vein (irregular), potassic alteration around vein; minor chalcopyrite; fine pyrite; 30° to c.a.	23542	< 1%	316.7	317	0.3'			Tr	
318.2	318.7	- Pink calcite veins irregular; discontinuous; chalcopyrite & specular hematite in vein; potassic alteration	23543	< 1%	318.2	318.7	0.5'			Tr	
321	325	- quartz porphyry									
325		- rhyolitic									
		@ 325.2 - Gray Quartz gash vein; 30° to c.a.									
330.2	332.6	- many irregular pink calcite veinlets (< 1/10" wide) no visible metallics									
		@ 332.2 - Brecciated quartz calcite vein (< 1/2" wide); 35° to c.a. Specular hematite & pyrite (< 1%) in wall rock									

LANGLEY ASSAYS — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P 85-4 SHEET NO. 7 of 11

REMARKS _____

LOGGED BY G.H.H / R. Ginits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
335.8	337.4	several calcite veinlets (< 1/8" wide); various orientations; white to light pink; no apparent sulfides			335	345	10	tr			
					345	355	10	0.02	oz Ag		
		@ 341.0 light pink calcite vein 1/5" wide; potassic alteration around vein; specular hematite < 5%; 30° to C.A.	27544	< 5%	341.0	341.3	0.3'			Tr	
		@ 342.2 - see above; orientation 60° to C.A									
					355	365	10	tr			
		@ 353 - small white quartz veinlet < 1/8" wide; 20° to C.A.			365	375	10	0.02	oz Ag.		
		@ 360.5 - light pink calcite veinlet; 45° to C.A.; about 1/8" wide			375	385	10	0.02	oz Ag.		
366.1	373.5	quartz porphyry									
373.5	374.0	brecciated zone; cemented with light pink calcite; vuggy; blebs of finely disseminated sulfides < 1%	27545	< 1%	373.5	374	0.5'			Tr	
374.0	381.7	rhyolitic									
381.7	399.3	porphyry (quartz)									
		@ 375.6 Small white quartz vein 1/16" wide; 15° to C.A.									
		@ 378.1 - see above; 20° to CA									
382.1	383.3	several quartz-carbonate ash veins; minor brecciation along veins; fine grained pyrite; trace of chalcopyrite	27546	1%	382.1	383.3	1.2'			Tr	

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-4 SHEET NO. 8 of 16

REMARKS _____

LOGGED BY R. Coates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
397.5	398.1	Finely disseminated sulfides; < 1%; occur along small irregular, discontinuous quartz veinlets	27547	< 1%	397.5	398.1	0.6'			.002	
399.3	401.8	andesite			385	395	10	tr			
401.8	402.1	quartz porphyry			395	405	10	0.02	oz Ag		
402.1	402.7	andesite			405	415	10	0.02	oz Ag		
402.7	403.1	quartz porphyry			415	425	10	0.02	oz Ag		
403.1	405.45	andesite with quartz vein .8" wide; chlorite cut in			425	435	10	0.02	oz Ag		
405.45	423.1	quartz porphyry; chlorite cut in			435	445	10	0.02	oz Ag		
420.4	421.3	many small irregular grey quartz veinlets; some pink calcite associated with it; < 1% finely disseminated sulfides; mainly pyrite; trace of chalcopyrite			445	455	10	0.02	oz Ag		
423.1	426.0	rhyolite + quartz porphyry intercalated									
426.0	438.6	quartz porphyry									
438.6	439.2	andesite									
439.2	445	quartz porphyry cut by many irregular quartz veinlets with high amounts of chlorite alteration; trace of fine grained sulfides throughout									
		@ 444.5 a smokey white quartz vein 7/10" wide; grey chloritic alteration present; blebs of pink calcite; finely disseminated sulfides and as irregular blebs; mostly pyrite 60° to C.a.	27548	< 3%	444.4	444.8	0.4'			.002	
445	448.9	quartz porphyry; highly fractured; filled with grey-blue chlorite irregular pattern									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 285-4 SHEET NO. 9 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
448.9	449.8	high degree of potassic alteration; pink; cut by irregular chlorite rich veinlets			455	465	10	0.02	oz Ag		
					465	475	10	0.02	oz Ag		
449.8	468.2	quartz porphyry; irregular chlorite rich veinlets; potassic alteration; < 1% fine disseminated sulfides in veinlets			475	485	10	0.02	oz Ag		
		@ 463.3 - quartz - chlorite vein .5" wide; 73° to C.a. - specular hematite < 1%									
		@ 467.85 - white quartz vein .8" wide; chlorite rich in places; < 1% fine disseminated pyrite in blebs; 62° to C.a									
468.2	472.5	quartz porphyry with increased potassic alteration cut by many small quartz - calcite veinlets with minor chlorite alteration									
		@ 468.4 - white quartz vein surrounding pink calcite; vein .6" wide; irregular blebs of disseminated sulfides; pyrite + chalcopyrite; 60° to C.a	27549	< 1%	468.3	468.7	0.4'			0.02	
		@ 468.6 - see above; 3/10" wide; 80° to C.a.									
472.5	485.3	andesite - very heavily chloritized; cut by many irregular pink to white calcite veinlets; minor amounts of sulfides									
473.9	474.3	pink calcite vein; vuggy; some white calcite crystals and euhedral quartz crystals; < 1% sulfides; finely disseminated and a small irregular blebs; pyrite & chalcopyrite	27550	< 1%	473.9	474.3	0.4'			Tr	
			27597	< 1	483.0	484.5	1.5'				
485.3	487.1	quartz porphyry									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-41 SHEET NO. 10 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
487.1	489.1	andesite - very heavily chloritized throughout			485	495	10	0.02	oz Ag		
489.1	508	quartz porphyry			495	505	10	0.02	oz Ag		
		@ 499.25 white calcite vein 1/10" wide ; 12° to C.a.									
		@ 499.60 dark grey quartz vein 1/8" wide ; blebs of fine disseminated chalcopyrite < 3% ; 30° to C.a ; chlorite alteration present	27551	< 3%	499.4	499.9	0.5'			Tr	
		@ 501.8 - chlorite rich vein with < 1% disseminated sulfides ; 36° to ca.									
508	509.4	many irregular quartz - calcite veinlets ; < 1/10" wide fine grained chalcopyrite (trace) in veinlets : in porphyry									
511.4	516.6	several grey quartz veins ; very irregular and fractured ; chloritic + potassic alteration ; < 1% finely disseminated sulfides ;									
		@ 516.7 ; smokey white quartz vein 1" wide ; highly fractured + filled with specular hematite ; < 1% finely disseminated sulfides ; 34° to C.a	27552	< 1%	516.6	517.15	0.55'			Tr	
		@ 519.0' smokey white quartz vein : see above .5" wide ; 45° to C.a.									
516.6	520.6	quartz porphyry									
525.5	527	many irregular quartz - calcite - chlorite veins ; range									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. B95-4 SHEET NO. 11 of 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		in thickness from < 1/10" to 1/5" ; < 1% finely disseminated sulfides	27553	< 1%	526.1	526.55	0.45'			Tr	
529.0	530	white - grey quartz vein running parallel to axis of core ; 1/10" ; vein is very irregular and tends to braid ; trace sulfides									
[illegible]	[illegible]	@ 53[illegible] pink calcite vein 1/10" wide ; chloritized on [illegible] ; trace of sulfides 50° to C.A.									
536.7	537.9	quartz porphyry cut by many irregular quartz calcite veinlets ; < 1% sulfides									
543.5	544.4	white to grey quartz vein running sub-parallel to C.A. ; 1/10" wide ; tends to "braid" into smaller veinlets									
		@ 547.4 smokey white quartz vein .5" wide ; 54° to C.A									
555.0	556.5	white to grey braided quartz vein ; sub parallel to C.A ; 1/10" wide									
		@ 565.4 pink calcite vein 1/5" wide ; < 1% finly dissem chalco 65° to C.A.									
		@ 586.6 white qtz veinlet cutting quartz porphyry ; minor potassic + chloritic alteration associated ; 1/10" wide ; 12° to C.A									
594.7	595.0	qtz porphyry cut by several irregular quartz - calcite - chlorite veinlets ; < 1/10 to 1/10" wide ; patches of finely disseminated chalcopyrite < 2%	27554	< 2%	594.7	595.3	0.6'			Tr	
		@ 601.7 - quartz - calcite vein .5" wide ; pink calcite , white quartz ; minor chlorite along vein borders ; 44° to C.A.									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-25-4 SHEET NO. 12 of

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 606.6 - white quartz vein with blebs of pink calcite within; vein 1/10" wide; < 1% very fine sulfides; chalcopyrite 29° to c.a.										
		@ 608.9 - white calcite vein; 1/10" wide; minor chlorite alteration along edges; 40° to c.a.										
613.7	614	andesite; heavily chloritized - cut by several white calcite veins; 1/10" wide; 60° to c.a										
614.0	614.7	quartz porphyry										
614.7	615	andesite										
615	615.5	quartz [illegible]ry										
615.5	620.1	andes[illegible] heavily chloritized as medium sized specks throughout										
		@ 61[illegible] - white calcite vein 1/8" wide; 45° to c.a.										
		@ 616.3 - as above										
		@ 617.3 - brecciated zone; .8" wide; cemented with pink calcite and green chlorite; < 1% fine disseminated sulfides										
620.1	622.4	quartz porphyry										
622.4	622.7	andesite										
622.7	?	quartz porphyry										
Note:	633.7	to 650 (Box 32) is missing										
650	667.7	andesite, dotted with fine to medium sized chlorite "blebs"										

LANGRIDGES — TORONTO — 366-1168

M1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 13

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		Missing box of core (now found)									
		Box: 32 - 633.7' - 650'									
633.7	648.8	porphyritic rhyolite; moderate potassic alteration throughout									
		@ 644.5 - pink calcite - qtz vein 3/16" wide; <2% dissem cpy; minor chloritization along +2cm margin; 16° to c.a	27648	<3	644.5	644.9	0.4'				
648.8	650	lamprophyre									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 14 of

REMARKS _____

LOGGED BY R. Finits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 65 - quartz calcite vein; pink calcite; vein 1/10" wide; irregular shape; 20° to C.a			—	655	?	.02	tr Ag		
		@ 654 - heavily potassic altered vein; blood red colour; trace of ne[illegible], trace of very fine sulfides; 7/10" wide; 50° to ca									
		@ 658 - small qtz-calcite veinlet 1/10" wide; chloritized along edges; blood red potassic alteration prevalent 22° to C.a.									
		@ 665.4 - small pink calcite veinlet 1/10" wide; 26° to C.a.									
667.7	679.5	quartz porphyry									
674.5		@ 674.5 "small sulfide rich vein"; small irregular "blebs" of pink calcite scattered throughout; <3% finely disseminated chalcopyrite	27555	<3%	674.3	674.7	0.4'			0.02	
679.5	681.5	rhyolitic flows; moderate to heavy brecciation in places with infillings of pink to white calcite and white quartz <1% very fine sulfides; veining is very irregular and discontinuous	27556	<1%	679.5	670.3	0.8'			Tr	
681.5	698.4	andesite									
683.3	687.4	many small irregular quartz-calcite veinlets cutting across andesite; calcite is pink; rock is moderately chloritized trace of fine grained sulfides									
688.6	689.7	heavily brecciated zone; light grey calcite cement; trace of fine grained sulfides									
695.1	695.6	high degree of chlorite spotting									
		@ 692.75 - pink calcite vein; 1/10" wide, contains <1%									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-05-4 SHEET NO. 15 of 16

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		finely sulfides; chalcopyrite + pyrite; 51° to C.a									
698.1	698.4	heavy spotting in andesite									
698.4	725.9	rhyolite									
		@ 698.4 - pink calcite vein; 1/5" wide; contains small brecciated wall rock fragments; chloritized along the border 61° to C.a									
		@ 699 narrow quartz-calcite vein; pink calcite; 1/16" wide 22° to C.a.								Tr	
		@ 704.75 pink + white calcite vein 1/16" wide; 22° to C.a								Tr	
		@ 705.2 See above									
		@ 714.4 - quartz-calcite vein 1/5" wide with small pink quartz vein in middle; < 2% finely disseminated sulfides; 35° to C.a	27557	< 2%	714.3	714.6	0.3'			Tr	
		@ 716.5 - pink calcite veinlet 1/16"; 24° to C.a									
717.0	718.2	several epidote rich veinlets in rhyolite; range from < 1/16" to 1/16" wide; all are about 65° to C.a									
725	725.9	several irregular epidote rich veins with varying widths and orientations.									
		@ 725.65 pink calcite vein 1/16" wide 30° to C.a.									
725.9	729	andesite									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 16
REMARKS
LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
729	731	rhyolite @ 730.2 pink calcite vein 1/10" wide ; 40° to C.a
		@ 780.3 see above
730.6	731	rhyolite with coarse grained euhedral pyrite cubes ∠ 3 %
731	733	rhyolite ; mildly brecciated ; ∠ 1% medium sized euhedral pyrite cubes ; cut by many irregular chlorite rich veinlets ; moderate potassic alteration
733	741	heavy altered rhyolite ; heavy potassic alteration ; numerous irregular chloritized + epidote rich veinlets running in various directions ; moderately brecciated ; dark pink colour with green to black veins ; ∠ 3 % sulfides , pyrite as medium sized euhedral cubes & fine disseminated grains ; minor amounts of hematite staining
741	743.2	rhyolite ; moderate to heavy potassic alteration
743.2	744.9	rhyolite highly altered ; epidote + chlorite surrounding blebs of quartz ; ∠ 1% finely disseminated sulfides ; minor hematite staining @ 744.8 quartz - calcite filled , brecciated vein ; 1" wide pink calcite ; trace of fine grained sulfides ; 50° to C.a
744.9	755.2	DIABASE ; coarsening of grain size as hole moves further from contact with volcanics
end	of hole	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
27598	∠3	729.3	730.3	1.0'				
27601	∠3	730.3	731.3	1.0'				
27602	∠5	731.3	732.3	1.0'				
27603	∠5	732.3	733.3	1.0'				
							Tr	
27558	∠2%	733.3	734.4	1.1'			Tr	
27559	∠1%	735.3	736.3	1.0'				
27599	∠3	738.0	739.0	1.0'				
27600	∠5	739.0	740.0	1.0'				
							Tr	
27560	∠1%	743.1	743.9	0.8'				
27604	∠1	743.9	745	1.1'				
				117.3	1.0		0.02	

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc
HOLE NO. P-85-4 LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 1/3
REMARKS

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
	*	Resampling from 63' to 105' *									
63	64	several white calcite filled fractures; very irregular	27687	trace	63	64	1.0'			TR	
64	65	broken core; chlorite spotting; brecciated white calcite vein ½" wide; 20° to c.a	27688	<1	64	65	1.0'			TR	
65	66	greywacke	27689	trace	65	66	1.0'			TR	
66	67	greywacke; a white calcite filled fracture; some medium pyrite in wall rock	27690	<1	66	67	1.0'			TR	
67	68	as above	27691	<1	67	68	1.0'			TR	
68	69	very broken core; white calcite vein <1/10" wide <1% sulfides	27692	<1	68	69	1.0'			TR	
69	70	trace of dissem sulfides in greywacke	27693	trace	69	70	1.0'			TR	
70	71	Several white qtz-calcite filled fractures	27694	trace	70	71	1.0'			TR	
71	72	as above	27695	trace	71	72	1.0'			TR	
72	73	as above	27696	trace	72	73	1.0'			TR	
73	74	vuggy white calcite vein 1/10" wide; subparallel to c.a; very irregular shape; several light pink calcite veinlets. 45° to c.a	27697	<1	73	74	1.0'			TR	
74	75	a light pink calcite veinlet <1/10" wide	27698	trace	74	75	1.0'			TR	

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 2/3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
75	76	greywacke	27699	none	75	76	1.0'			TR.	
76	77	irregular white calcite vein ∠ 1/10" wide ;	27670	trace	76	77	1.0'			TR.	
77	78	Several irregular white calcite veins ∠ 1/10" wide	88456	trace	77	78	1.0'			TR.	
78	79	many irregular light pink calcite filled fractures ; vuggy in places	88457	∠1	78	79	1.0'			TR.	
			88458	∠1	79	80	1.0'			TR	
79	80	as above	88459	∠1	80	81	1.0'			TR.	
80	81	as above	88460	trace	81	82	1.0'			TR	
81	82	several irregular white calcite filled fractures	88461	trace	82	83	1.0'			TR	
82	83	as above	88462	trace	83	84	1.0'			TR	
83	84	as above	88463	none	84	85	1.0'			TR	
84	85	greywacke	88464	trace	85	86	1.0'			TR	
85	86	several white calcite filled fractures	88465	trace	86	87	1.0'			TR	
86	87	as above	88466	none	87	88	1.0'			TR	
87	88	mudstone									
88	89	broken core ; several white calcite filled fractures brecciated slightly	88467	∠1	88	89	1.0'			TR	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-4 SHEET NO. 3/3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
89	90	a few white calcite filled fractures
90	91	broken core; as above
91	92	as above
92	93	as above
93	94	as above
94	95	mudstone
95	96	Several irregular white calcite filled fractures
96	97	as above
97	98	mudstone
98	99	Several irregular white calcite filled fractures; <1% fine pyrite cubes
99	100	greywacke;
100	101	Several irregular white calcite filled fractures
101	102	as above
102	103	as above
103	104	as above
104	105	a few white calcite filled fracturer

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
88468	trace	89	90	1.0'			TR		
88469	trace	90	91	1.0'			TR		
88470	trace	91	92	1.0'			TR		
88471	trace	92	93	1.0'			TR		
88472	trace	93	94	1.0'			TR		
88473	none	94	95	1.0'			TR		
88474	<1	95	96	1.0'			TR		
88475	<1	96	97	1.0'			TR		
88476	none	97	98	1.0'					
88477	<1	98	99	1.0'			TR		
88478	trace	99	100	1.0'			TR		
88479	<1	100	101	1.0'			TR		
88480	<1	101	102	1.0'			TR		
88481	<1	102	103	1.0'			TR		
88482	<1	103	104	1.0'			TR		
88483	trace	104	105	1.0'			TR		

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus
HOLE NO. P-85-5 LENGTH 770 feet
LOCATION N. Cobalt 446' South 242' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 90° DIP 50°
STARTED Sept 29, 1985 FINISHED Oct 2, 1985

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
170'	49°	101°			
370'	47°	109°			
570'	43°	117°			
770'	42°	118°			

HOLE NO. P-85-5 SHEET NO. 1 of
REMARKS _____
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	73	Casing			75	85	10	tr			
0	64.3	overburden			85	95	10	tr			
		SEDIMENTS			95	105	10	tr			
64.3	85	interbedded mudstone to greywacke to pebbly wacke: bedding 55° to c.a with			105	115	10	tr			
		layers ranging from dark grey to light green;			115	125	10	tr			
[illegible]	136.2	occasional large dropstone;			125	135	10	.02			
85	86.8	distinct chlorite spotting			135	145	10	tr			
91	92	See above									
		@93- quartz-white calcite irregular vein;									
		subparallel to c.a; trace of fine sulfides									
		@ 95.7 irregular qtz-calcite (white) veinlet; 1/16" wide;									
		20° to c.a									
		99.2-99.7 several grey calcite veins; minor									
		brecciation									
100.7	105.6	distinct chlorite spotting									
115.6	118.5	See above									
118.5	140.0	pebbly wacke									
		@ 119.3 -quartz-calcite vein 1/16"; 36° to c.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-25-5 SHEET NO. 2 of 4

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
122.8	123.9	intense chlorite spotting @ 123.3 several irregular calcite veinlets; 26° to C.a @ 127.3 light pink calcite veinlet; 1/8" wide; 27° to ca @ 132.7 - brecciated zone; 1" wide; vuggy; euhedral calcite crystals; < 2% euhedral fine grained pyrite crystals;	27573	< 2%	132.1	133.1	1.0'			TR.	
133.1	136.2	distinct chlorite spotting			145	155	10	.02 oz Ag			
140	144	conglomerate			155	165	10	tr			
144	146.3	intense chlorite spotting			165	175	10	tr			
146.3	172	interbedded pebbly wacke, mudstone, + conglomerate; all with moderate to intense chlorite spotting @ 160.9 white calcite vein 1/16" wide; 37° to C.a @ 167.9 irregular brecciated white calcite vein; up to 3/16" wide; 12° to C.a @ 170.7 white calcite vein 1/16" wide; 30% drusy tetrahedrite; < 3% euhedral fine grained pyrite; 46° to C.a			175	185	10	0.13 oz Ag			
			27574	< 3%	170.6	171.3	0.7'			TR	
			27575	< 3%	171.3	172.3	1.0'			TR	
			27576	< 3%	172.3	174.3	1.0'			TR	
			27577	< 3%	174.3	175.0	0.7'			TR.	
172	180.9	many calcite veins with minor brecciation; several contain euhedral calcite crystals and up to 30% drusy tetrahedrite and 2% euhedral fine grained pyrite	27578	< 3%	175	175.8	0.8'			TR	
			27579	< 3%	175.8	176.6	0.8'			.02	
175	180	very broken core									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 3 of 7

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
180	192.3	many calcite veins with minor amounts of tetrahedrite and euhedral pyrite among euhedral calcite crystals; minor breccia zones with white calcite cement vein [illegible]
192.3	206.7	pebbly wacke @ 199.1 - calcite vein; with euhedral crystals with ∠ 3% fine grained euhedral pyrite; vein 1/10" wide 30° to C.a
206.7	209.1	sandstone with pronounced chlorite spotting
209.1	229.6	mudstone with many white calcite filled irregular fractures; minor amounts of interbedded pebbly wacke
229.6	232.7	pebbly wacke
232.7	240.0	mudstone interbedded with siltstone

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	Pb % Au
27580	∠2%	176.6	177.4	0.8'			.02		14
27581	∠2	177.4	178.2	0.8'			TR		
27582	∠2	178.2	179.0	0.8'			.02		
27583	∠2	179	179.8	0.8'			TR		
27584	∠2	179.8	180.8	1.0'			TR		
27585	∠2	182.4	183.3	1.0'			TR		
27586	∠2	187.7	188.7	1.0'			TR		
27587	∠2	189.1	189.9	0.8'			TR		
27588	∠2	189.9	190.7	0.8'			TR		
27589	∠2	190.7	191.5	0.8'			TR		
27590	∠2	191.5	192.3	0.8'			TR		
27591	∠2	198.6	199.3	0.7'			TR		
		185	195	10	0.03	oz Ag			
		195	205	10	0.02	oz Ag			
		205	215	10	tr				
		215	225	10	0.02	oz Ag			
		225	235	—					

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-95-5 SHEET NO. 4 of

REMARKS _____

LOGGED BY R Cinits.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
240.0	246	pebbly wacke
246	248.1	conglomerate
		VOLCANICS
248.1	269.5	porphyritic rhyolite
		@ 248.9 quartz vein $\frac{1}{5}$" wide; chloritized along borders; 50° to C.a
		@ 249.6 quartz vein $\frac{2}{5}$" wide; chloritized; trace of fine disseminated sulfides; 55° to C.a
		@ 253.1 see above; 60° to C.a
		@ 256 irregular quartz-white calcite vein; vuggy; trace of fine sulfides
		@ 256.8 white calcite vein $\frac{1}{5}$" wide; 54° to c.a
269.5	271.2	andesite
		@ 271.2 pink calcite / quartz vein; 7/10" wide chloritized along borders and as irregular blebs throughout vein
271.4	275.6	rhyolite
275.6	278.7	porphyritic rhyolite
278.7	284.3	rhyolite

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	1
		235	245	10	tr				
		245	255	10	?				
		255	265	10	0.02	52 Ag			
		265	275	10	0.02	02 Ag			
		275	285	10	tr				
		285	295	10	0.02	02 Ag			

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 5 of 5

REMARKS _____

LOGGED BY R Cini's

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 281.4 irregular bleb of pyrite ½" x ½"			295	305	10	tr				
284.3	289.5	porphyritic rhyolite			—	325	?	tr				
289.5	291.5	andesite			325	335	10	tr				
		@ 289.8 - Several irregular pink calcite veins (gash veins ?)			335	345	10	tr				
291.5	295	porphyritic rhyolite			335	345	10	tr				
295	296.2	andesite			345	355	10	tr				
296.2	298.6	porphyritic rhyolite										
298.6	300	rhyolite										
		@ 300 pink calcite vein ⅕" wide ; 69° to ca.										
300	301.2	andesite										
301.2	307.6	rhyolite @ 304 irregular pink calcite vein ; discontinuous										
307.6	308	brecciated zone ; filled with white calcite ; trace of fine disseminated sulfides										
308	309.7	rhyolite										
309.7	310.7	brecciated zone ; filled with white + pink calcite ; moderate potassic alteration ; heavily chloritized ; trace of fine grained pyrite	27592	<1%	309.6	310.6	1.0'			TR		
310.7	314.8	heavily altered ; chloritized with moderate to heavy potassic alteration ; several white / pink calcite veins										

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 6 of 19

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS ppb Au
		cut the rock										
314.8	317.2	rhyolite										
317.2	319.6	potassic alteration ; several irregular brecciated pink to white calcite veins										
319.6	321.5	andesite ; spots of potassic alteration ; several light pink calcite veins 1/8" wide and of various orientations										
321.5	341.4	rhyolite ; cut by many hair white to pink calcite veinlets										
341.4	341.8	heavy potassic alteration ; several specular hematite rich veins with trace of fine sulfides	27593	< 1	341.2	341.6	0.4'			TR		
			27594	< 5	344	344.8	0.8'			TR		
394.6		porphyritic rhyolite										
		@ 346 several specular hematite rich veinlets										
		@ 347.3 pink calcite vein ; rich in specular hematite ; < 3% disseminated chalcopyrite ; 25° to c.a 1/10" wide	27595	< 3	347.3	347.7	0.4'			TR		221
		@ 348.1 see above ; 1/5" wide ; 55° to c.a	27596	< 3	348.0	348.3	0.3'			TR		
		@ 348.5 several irregular pink calcite veins various to 349.1 orientations										

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. BSS-5 SHEET NO. 7

REMARKS _____

LOGGED BY R Lintz

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 356.8 - pink calcite vein 1/10" wide with < 5% dissem chalcopyrite; 46° to c.a	27613	< 3	356.6	357.5	0.9'			.02	
		356.6 - 357.5 - several specular hematite rich seams; all about 1/5" wide			355	365	10	—			
		360.4 - 361.6 several irregular pink - white calcite veinlets; mildly brecciated; all about 33° to c.a			365	375	10	.02	3 Ag.		
		@ 362.5 - white calcite vein 1/10" wide; 30° to c.a. Orange potassic alteration halo around vein			375	385	10	tr			
		@ 362.8; pink to white brecciated calcite vein; 3/10" wide; < 2% irregular blebs of fine disseminated pyrite; minor potassic alteration	27614	< 2%	362.7	363.6	0.9'			.02	
364.2	366.3	andesite									
366.3	370	porphyritic rhyolite									
		@ 369.8 - 371.4 - heavy potassic alteration several irregular hematite rich seams with moderate chlorite alteration; < 3% finely dissem cpy in the veins; minor pink - white calcite	27615	< 3	370.6	371.4	0.8'			TR	
370	384.2	rhyolite									
		372 - 374 - several irregular pink calcite veinlets < 1/10" wide; minor dissem cpy.									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 8 of

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		377-379.7 - several irregular pink calcite veinlets; and spec. hematite rich pink to white calcite veins; < 2% cpy finely dissem throughout; veins are heavily chloritized; moderate potassic alteration	27616	< 2	377.9	378.9	1.0'			.02	
					385	395	10	tr			
		381-385.6 see above			395	405	10	tr			
384.2	385	lamprophyre < 3%									
		@ 385 - pink calcite vein 1/5" wide; chloritized			405	415	10	tr			
		along border; + moderate potassic alteration; 38° to c.a									
385	401.5	rhyolite									
		@ 386 - pink calcite vein; 1/8" wide; 22° to c.a									
		387.8 - Several irregular pink calcite veins + fractures; also several spec. hematite rich seams; potassic + chloritic alteration along veins; < 3% finely dissem cpy	27617	< 3	388.2	389.2	1.0'			.02	
		@ 391.6 pink calcite vein 1/5" wide; irregular + discontinuous; < 7% finely dissem cpy in vein;	27618	< 3	391.4	392.2	0.8'			.02	
		@ 392.3 pink to white calcite vein 1/10" wide; 27° to c.a; chloritized									
		395.6 - 396.7 - specks + irregular blebs of cpy									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 9 of 19

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
401.5	401.9	lamprophyre - heavily chloritized									
401.9	410.6	rhyolite									
		404.2 - 404.2 many irregular + discontinuous white calcite veins ; trace of fine cpy.									
		405 - 407.2 heavily fractured ; filled with chlorite - hematite - pink calcite ; < 3% irregular blebs of cpy	27619	< 3%	405.1	405.9	0.8'			.02	
					415	425	10	tr			
410.6	414.6	porphyritic rhyolite - moderate to heavy potassic alteration			425	435	10	tr			
414.6	420	rhyolite - cut by several irregular pink calcite veinlets			435	445	10	tr			
					445	455	10	tr			
420	425	porphyritic rhyolite - several irregular seams of hematite with < 1% irregular blebs of cpy.									
425	428.4	lamprophyre ; moderate potassic alteration throughout									
428.4	430	porphyritic rhyolite heavy potassic alteration									
430	442.3	rhyolite									
		@ 432.7 - qtz - pink calcite vein 1/10" wide ; chloritized along edges ; < 1% dissem - cpy ; 60° to c.a									
		433.4 - 437.4 - heavily fractured & filled with chlorite - hematite ; minor cpy									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 10

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 436.8 pink calcite vein 1/10" wide; 36° to c.a
		@ 438.5 see above; 26° to c.a
442.3	444.2	porphyritic rhyolite
		@ 443.5 - chlorite rich seam; speckled with red dots of potassic alteration; 3/10" wide; 40° to c.a; trace of fine dissem. cpy
444.2	444.7	lamprophyre
444.7	448.6	rhyolite - potassic alteration; throughout
448.6	467.3	porphyritic rhyolite
467.3	472	rhyolite
		470.7 - 472 - heavy potassic alteration
472	473.4	lamprophyre
	→	@ 472.4 - smoky white quartz vein 1.5" wide; speckled with epidote and irregular blebs of pink calcite and chlorite; minor brecciation along edges of vein; 58° to c.a
		@ 472.6 - 472.9 - several irregular pink calcite veins; all are about 58° to c.a.

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		455	465	10	tr				
		465	475	10	tr				
		475	485	10	tr				
		485	495	10	tr				
		495	505	0.9'	0.02	02 Ag	TR		
27620	21	472.3	472.9	0.6'			TR		

LANGRIDGES – TORONTO – 368-1168

ORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 11 of 11

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS .
473.4	488.5	porphyritic rhyolite @ 481.5 white qtz vein ; 1.75" wide ; irregular blebs of pink calcite + chlorite throughout ; irregular stringers of quartz + chlorite continue until 382 ; ∠ 2% fine dissem cpy ; heavy potassic alteration ; 45° to c.a @ 484.2 - 484.5 - several qtz - pink calcite stringers with 10% fine dissem cpy ; heavy potassic alteration ; 45° to c.a ; moderately spotted with chlorite throughout	27621	∠2	481.4	482	0.6'			TR		
			27622	∠10	484.2	484.7	0.5'			TR		
488.5	489.1	quartz - pink calcite vein ; irregular seams + blebs of chlorite ; minor fine grained epidote ; brecciated in place ; minor specular hematite as euhedral blades ; trace of fine sulfides	27623	∠1	388.5	390.1	0.6'			TR		
489.1	493.1	lamprophyre @ 490.4 ; very irregular pink calcite vein 1/10 to 2/5" wide ; heavy potassic alteration throughout @ 491.4 see above @ 492.8 light pink qtz - calcite vein 1/8" wide ; potassic alteration along edges ; 70° to C.a										
493.1	494.4	porphyritic rhyolite										

LANGRIDGES TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 12

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS PPB Au
494.4	497.0	lamprophyre ; heavy potassic alteration			505	515	10	tr				
497.0	542.7	porphyritic rhyolite ;			515	525	10	tr				
		@ 518.3 pink calcite vein $\frac{1}{5}$" wide ; irregular patches of chlorite throughout ; 50° to c.a			525	535	10	0.02	Az Ag			
		@ 523.1 - white quartz vein $\frac{1}{5}$" wide; irregular patches of pink calcite + chlorite ; - 30° to c.a			535	545	10	0.02	Az Ag			
		@ 523.3 see above ; $\frac{1}{10}$" wide ; trace of sulfides			545	555	10	0.02	Az Ag			
555.2	555.5	@ 525.0 see above ; $\frac{1}{5}$" wide ; ~ 5% dissem. cpy + pyrite ; irregular chloritized fractures up to 525.5 with dissem. sulfides ; 53° to c.a	27624	3	525.0	525.5	0.5			TR		92
		@ 535.3 ; smokey white qtz vein $\frac{3}{10}$" wide ; irregular patches of dark green chlorite (45%) ; 36° to c.a.										
		@ 535.9 brecciated seam $\frac{1}{5}$" wide; grey calcite cement; 38° to c.a										
		@ 536.1 to 537.5 - Several light pink calcite veinlets ; various orientations										
		@ 540.3 pink calcite vein $\frac{1}{8}$" wide ; irregular patches of chlorite throughout ; trace of very fine sulfides 33° to c.a										
542.7	542.7	porphyritic andesite - moderately fractured + filled with white calcite										

LANGFORD ... S – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 13 of 1

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
542.7	545.4	porphyritic rhyolite @ 542.7 - 543.3 several irregular white calcite fractures + veinlets ; heavily chloritized along the borders @ 544.1 smokey white quartz vein 7/10" wide ; irregular patches of chlorite throughout ; ∠ 3 % specular hematite ; minor irregular patches of pink calcite ; trace of very fine sulfides ; 22° to c.a calcite - quartz vein ; 1/10" wide
545.4	555.2	porphyritic andesite
555.2	578.0	porphyritic rhyolite @ 547.6 qtz - pink calcite ; vein 1/10" wide ; heavily chloritized ; 52° to c.a ; trace of fine sulfides @ 550.5 See above ; 3/10" wide ; 50° to c.a @ 552.5 white quartz - chlorite vein 1/5" wide 30° to c.a @ 558.6 - 559.4 - several irregular pink calcite - qtz veinlets various orientations @ 561.4 - 561.7 See above @ 565.3 - 569 moderately fractured + filled with light pink calcite ; heavily chloritized along edges of fractures + veins ; trace of fine dissem. sulfides

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		555	565	10	0.02	tr Ag			
		565	575	10	0.02	tr Ag			
		575	585	10	0.02	tr Ag			

LANGRIL — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 14 of

REMARKS _____

LOGGED BY R. C. Hs

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 571 to 571.7 - white quartz - pink calcite vein 5.5" wide; 40% highly irregular patches of dark green chlorite; < 3% irregular patches of disseminated cpy; 38° to c.a.
578	591	porphyritic andesite
591		porphyritic rhyolite
		@ 591.1 pink calcite vein $\frac{1}{10}$" wide; 55° to c.a
		@ 588.4 light pink calcite - chlorite vein; $\frac{1}{10}$" wide 30° to c.a
		@ 590.6 to 591.1 very broken core; heavily fractured + filled with light pink calcite; vuggy in places with euhedral calcite crystals; < 1% very fine sulfides
		@ 591.7 - 595.1 - several smokey white qtz veins with heavy potassic alteration haloes.
		@ 601.4 - smokey white qtz vein $\frac{2}{5}$" wide; irregular patches of chlorite; 90° to c.a.
603.1	609	Several smokey white qtz veins; heavy potassic alteration
		@ 608.3 brecciated seam; filled with grey + pink calcite; $\frac{3}{10}$" wide; minor chlorite; 21° to c.a.
		@ 612.7 pink calcite vein; $\frac{1}{10}$" wide; 53° to c.a

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
27625	< 3%	571.0	571.8	0.8'			TR	
		585	595	10	0.02	TR Ag		
		595	605	10	0.02	TR Ag		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	
27626	< 1	590.6	591.1	0.5'			TR	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-05-5 SHEET NO. 15 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 613.7 ; brecciated seam ; 3/10" wide ; filled with grey + pink calcite ; heavily chloritized ; ∠ 1% finely dissem cpy ; 21° to c.a
		@ 615.1 smokey whit qtz vein ; minor irregular patches of pink calcite + dark green chlorite ; ∠ 1% fine dissem pyrite
		@ 620.2 pink qtz-calcite vein 2/5" wide ; minor fine grained specks of chlorite ; finely dissem sulfides speckled throughout ; 39° to c.a
		@ 621.2 - 621.8 smokey whit quartz vein with pink calcite + chlorite veinlets ; 6" wide ; irregular patches + seams of specular hematite ; ∠ 3% irregular blebs of cpy
621.8	624	lamprophyre @ 622.5 - 622.6 - 3 pink calcite veins 1/10" wide 54° to c.a
		@ 623.2 - 623.5 quartz porphyry ; minor pink calcite ; ∠ 2% finly dissem cpy.
624	638	porphyritic rhyolite

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
27627	∠1	613.7	614.3	0.6'			TR		
		605	615	10	tr				
		615	625	10	tr				
		625	635	10	tr				
27628	∠1	620.1	620.5	0.4'			TR		
27629	∠3	621.2	621.8	0.6'			TR		
27630	∠2	623.2	624.6	0.8'			TR		

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 16

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
630	635	heavily chloritized;			635	645	10	0.02	oz Ag		
638	641.6	andesite, spotted with chlorite			645	655	10	0.02	oz Ag		
641.6	642.5	porphyritic rhyolite @ 642.5 - grey qtz-chlorite vein 2/5" wide; trace of dissem cpy; 40° to c.a.			655	665	10	0.02	oz Ag		
					665	675	10	tr			
6425	643.3	andesite, heavy chlorite spotting			675	685	10	0.02	oz Ag		
643.3	655.9	porphyritic rhyolite @ 645.9 pink calcite vein 1/5" wide; chloritized along margin: 140° to c.a.									
655.9	656.2	lamprophyre									
656.2	661.2	porphyritic rhyolite - cut by several irregular pink calcite veinlets									
			27631	<1	660.6	661.2	0.8'			TR	
661.2	672.3	Diabase; cut by many irregular pink to white calcite veinlets + fractures along which it is heavily chloritized; minor brecciation accompanies most of the veins	27632	<1	662.5	663.4	0.9'			TR	
672.3	678.7	porphyritic rhyolite @ 673.3 white calcite vein; 1/10" wide; 17° to c.a. @ 675.2 brecciated seam 7/10" wide, cemented with pink-white calcite & qtz; trace of sulfides									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 17 of

REMARKS _____

LOGGED BY R Cmitr

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
675		675 - 678.7 highly fractured + filled with white to pink calcite veinlets; very irregular; fine dissem. sulfides throughout
678.7	686.3	rhyolite @ 678.7 pink calcite vein $\frac{1}{5}$" wide; 80° to c.a @ 679 - 680.8 - several specular hematite rich seams $\angle \frac{1}{10}$" wide; 36° to c.a @ 681.5 brecciated vein $\frac{1}{2}$" wide, cemented with pink, white calcite; minor chlorite 55° to c.a 681.5 - 683 highly fractured; numerous irregular pink to white calcite veinlets @ 682.9 pink calcite vein $\frac{3}{4}$" wide; chloritized along margin and as irregular patches within; $\angle$ 1% fine dissem cpy; 75° to c.a
686.	690.0	brecciated zone. filled with light pink calcite, vuggy in places with euhedral calcite crystals; $\angle$ 3 % sulfides as finely disseminated grains in the calcite and as fine euhedral crystals in the vugs; pyrite + cpy
690.0	697	very heavily fractured + filled with many irregular pink to white calcite veins; many are brecciated + vuggy with euhedral calcite + fine pyrite + cpy.

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	PPB Au
27633	$\angle$ 1	675.9	676.9	1.0'			TR		
		685	695	10	tr.				
27634	$\angle$ 1	682.5	683.5	1.0'			TR		
27635	$\angle$ 1	686	687	1.0'			TR		
27636	$\angle$ 1	687	688	1.0'			TR		
27637	$\angle$ 1	688	689	1.0'			TR		26
27638	$\angle$ 1	689	690	1.0'			TR		
27639	$\angle$ 1	690	691	1.0'			TR		
27640	$\angle$ 1	691	692	1.0'			TR		
27641	$\angle$ 1	692	693	1.0'			TR		
27642	$\angle$ 1	693	694	1.0'			TR		
27643	$\angle$ 1	694	695	1.0'			.02		
27644	$\angle$ 1	695	696	1.0'			TR		
27645	$\angle$ 1	696	697	1.0'			TR		

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 18 of

REMARKS _____

LOGGED BY R Cantin

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
697	716	rhyolite mildly fractured + filled with pink quartz; mildly brecciated in some of the veins; <1% fine sulfides	27646	<1	703.0	703.6	0.6'			TR	
		705 – 709.5 - broken core - cut by many pink calcite veinlets			695	705	10	tr			
		@ 709.6 - pink calcite vein 1/10" wide; 60° to c.a			705	715	10	tr			
		710 - 715 - Several pink calcite veinlets; all about 60° to c.a			715	725	10	tr			
		@ 715.8 - pink calcite vein 1/5" wide; mild brecciated; heavily chloritized; 30° to c.a				740	10	.02	.72 Ag.		
716	717	ground core									
717	722.6	rhyolite; heavily fractured + filled with white to pink calcite									
		@ 726.6 pink calcite vein 1/10" wide; 35° to c.a									
		@ 729.7 as above									
		@ 732.8 - white - grey brecciated calcite vein 1/10" wide 35° to c.a									
		@ 734.3 smokey white qtz vein; 1" wide; irregular blebs of pink calcite, chlorite + specular hematite; 90° to c.a; trace of fine dissem sulfides									
		@ 735.3 - white calcite vein 1/10" wide; 10° to c.a									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 19 of 1?

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
741.4	748.7	andesite 747-749- cut by ~~99~~ irregular epidote rich veinlets
748.7	761.1	rhyolite 751-760- heavily fractured + cut by many white to pink calcite veinlets; chloritized throughout
761.1	770	DIABASE 761.1-763.3 fractured + cut by many irregular pink to white calcite veinlets
EDH	770'	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		749	750	1.0	0.02	02 Ag		
		750	760	1.0	tr			
		760	770	1.0	0.02	03 Ag		
27647	21	759.7	760.7	1.0'			TR	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc.
HOLE NO. P-85-6 LENGTH 825 feet
LOCATION N. Cobalt 522' South 414' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 90° DIP 50°
STARTED Oct 3, 1985 FINISHED Oct 10/85

declination 10.5° accounted for

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
825'	48°	113°			
625'	47°	111°			

HOLE NO. P-85-6 SHEET NO. 1
REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	65	casing			65	75	10	tr			
0	55.2	overburden			75	85	10	tr			
		SEDIMENTS			85	95	10	tr			
55.2	70.5	grey wacke, with occaisonal interbeds of fine grained mudstone to siltstone									
66.5	67.7	brecciated & fractured zone; filled with grey to white calcite; trace of fine sulfides	27649	<1	66.5	67.7	1.2'			TR	
		@ 68.5 light pink brecciated calcite vein 1/8" wide; 40° to c.a									
		@ 70.5 to 71.2 several irregular white calcite veinlets									
70.5	89.7	fine grained mudstone; banded with light green to dark grey-green layers from <.1" to 1.0" wide; most beds 45° to c.a.									
76.6	77.1	distinct chlorite spotting									
89.7	194.6	pebbly wacke; with occaisonal beds of coarser grained conglomerate to fine grained siltstone									
92.3	95.3	distinct chlorite spotting									
95.3	96.5	broken core									
		@ 100.8 irregular white calcite vein 1/2" wide 19° to c.a.									

VGRID — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 105 2 white calcite veins $\frac{1}{10}$" wide; 24° to c.a			95	105	10	tr.			
		@ 109 -111.6 irregular white calcite vein $<\frac{1}{10}$"; subparallel to c.a.			105	115	10	tr			
		@ 113 : several irregular white calcite veins 30° to c.a			115	125	10	tr			
		@ 122.2 irregular white calcite veinlet ; subparallel to c.a			125	135	10	tr			
		@ 135 "vuggy" white calcite vein $\frac{1}{10}$" wide; 38° to c.a			135	145	10	0.02	oz Ag		
		@ 140 irregular white calcite vein $<\frac{1}{10}$" wide; 56° to c.a			145	155	10	tr			
148.7	149.9	fractured + broken core			155	165	10	tr			
		@ 160 several irregular white to pink calcite veinlets; 45° to c.a.			165	175	10	tr			
194.6		VOLCANICS			175	185	10	tr			
194.6		porphyritic rhyolite			185	195	10	tr			
199	201	heavily chloritized ; trace of fine disem sulfides along chlorite rich veins									
205	206	fine disseminated pyrite + cpy in rhyolite porphyry $< 3\%$	27650	<3	205	206	1.0'	-		TR.	
208	208.9	mildly fractured + filled with white calcite ; $< 3\%$ fine euhedral pyrite cubes			195	205	1.0	tr			

BRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P.85-6 SHEET NO. 3

REMARKS _____

LOGGED BY R. Crits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 212.6 white qtz vein $\frac{1}{5}$" wide; 45° to c.a			205	215	10	tr			
		@ 214.4 as above									
215	220	several irregular calcite filled fractures + veinlets; various orientations			215	225	10	0.02	oz Ag		
		@ 223.2 smokey white qtz vein $\frac{1}{2}$" wide; 60° to c.a minor chlorite + spec. hematite along margins									
		@ 224.6 heavily chloritized vein $\frac{1}{10}$" wide; < 1% spec. hematite; 10° to c.a									
		@ 232. zone of heavy potassic alteration $\frac{3}{10}$" wide; 30° to c.a									
		@ 232.9 pink to white calcite vein $\frac{1}{10}$" wide; vuggy with euhedral calcite crystals; chloritized along border; heavy potassic alteration halo; < 3% fine euhedral pyrite + cpy	27653	< 3	232.9	233.7	0.8'			tr.	
232	241.1	several calcite filled fractures running subparallel to c.a.; pink calcite + heavily chloritized									
		@ 237.2 brecciated seam $\frac{2}{5}$" wide; filled with light pink calcite; subparallel to c.a									
		@ 250 pink calcite veinlet $\frac{1}{10}$" wide; 55° to c.a									
253.7	256	several irregular pink calcite fractures + veinlets									
		@ 258.6 pink calcite vein with heavy potassic alteration; several seams of spec. hematite; irregular chlorite patches; < 3% fine grained sulfides	27654	< 3	258.6	259.4	0.8'			tr.	

LAMBDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 4

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 262.2 - smokey white qtz vein; $\frac{2}{5}$" wide; irregular patches of pink calcite + chlorite; < 5% euhedral spec. hematite roses; < 1% dissem pyrite; 70° to c.a									
		@ 263.6 pink calcite vein < $\frac{1}{10}$" wide; 55° to c.a									
		@ 269.3 - pink calcite - chlorite vein $\frac{1}{5}$" wide; 20° to c.a									
271.2	272.3	broken core									
		@ 273.2 pink calcite vein $\frac{1}{5}$" wide; irregular patches of chlorite; 42° to c.a									
275.5	276.0										
276.0	276.4	@ 274.6 light pink calcite vein; $\frac{1}{5}$" wide; subparallel to c.a; heavily chloritized									
		@ 275.7 - smokey white qtz vein $\frac{1}{5}$" wide, irregular calcite + chlorite patches; < 1% dissem sulfides; 85° to c.a									
		@ 276.9 as above									
		@ 277.4 as above									
		@ 278.3 as above									
		@ 279.2 pink calcite vein $\frac{1}{2}$" wide; chloritized 37° to c.a									
		@ 282.2 - 2 irregular discontinuous pink calcite veins $\frac{1}{5}$" wide									
282.7	284.7	pink calcite vein $\frac{1}{5}$" wide; subparallel to c.a. broken core									
		@ 287.4 brecciated seam $\frac{3}{10}$" wide; filled with light pink calcite; subparallel to c-a; minor potassic alteration									

LANG ES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 5

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 294.4 pink calcite vein $\frac{1}{10}$" wide; heavily chloritized on border and as irregular patches within vein; 29° to c.a									
294.5	295.5	lamprophyre dike									
		@ 295.3 - irregular pink calcite vein; $\frac{1}{5}$ to $\frac{3}{5}$" wide; 49° to c.a									
295.5	300.0	porphyritic rhyolite									
300.0	301.4	lamprophyre dike; heavily spotted with chlorite									
		@ 300.8 brecciated pink-white calcite vein $\frac{1}{5}$" wide; heavily chloritized throughout; < 5% fine dissem to fine grained pyrite in vein; 47° to c.a	27655	< 5	300.4	301.4	1.0'			TR.	
301.4	304.4	porphyritic rhyolite									
304.4	307.6	lamprophyre dike									
		@ 306.5 qtz-pink/white calcite vein $\frac{2}{5}$" wide; 60° to c.a.; also a light pink irregular calcite vein < $\frac{1}{10}$" wide; sub parallel to c.a									
307.6	307.9	porphyritic rhyolite									
307.9	310.3	lamprophyre dike									
310.3	312.2	porphyritic rhyolite									
		@ 311.2 White qtz vein $\frac{3}{10}$" wide; very intense potassic alteration around vein; and within; < 5% fine grained subhedral	27656	< 5	310.7	311.6	0.7'			TR.	

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 6

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		pyrite ; 51° to c.a ; small irregular patches of pink calcite + chlorite : (cpy + pyrite)									
312.2	315.2	lamprophyre dike @ 312.4 irregular pink calcite vein ; 1/10" wide 20° to c.a.									
		@ 315 pink calcite vein 3/10" wide ; highly chloritized 50° to c.a									
		@ 315.2 grey qtz vein 1/5" wide ; magnetite rich ; ∠ 3% irregular patches dissem pyrite ; 50° to c.a									
315.2	318.9	porphyritic rhyolite									
318.9	320.2	lamprophyre @ 318.9 pink calcite vein 1/2" wide ; 62° to c.a.									
		@ 318.2 – 320.2 small irregular white to pink calcite vein ; ∠ 1/10" wide ; subparallel to c.a. cuts the lamprophyre dike and the porphyry									
320.2	333.0	porphyritic rhyolite									
326.5	327.8	fractured + cut by many pink calcite filled veinlets ; many run subparallel to c.a ; trace of fine sulfides									
		@ 331.5 qtz-calcite brecciated vein 1.2" wide ;									

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-6 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinatra

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		∠ 1% very fine dissem sulfides ; 50° to c.a.	27666	∠1	331.1	331.7	0.6'			.02	
333.0	348.0	rhyolite ; several thread-like calcite veinlets running subparallel to c.a ; pink to white calcite			–	335	?	Tr			
					335	345	10	tr			
		@ 335.4 pink to white calcite vein ; $\frac{1}{10}$" wide;			345	355	10	tr			
		vuggy ; ∠ 1% fine cpy + py ; subparallel to c.a	27667	∠1	335.4	336.1	0.7'			.03	
348.7	351.9	pink calcite vein ; $\frac{1}{10}$" – $\frac{1}{2}$" wide ; brecciated + braided ; vuggy with euhedral coarse to fine calcite crystals ; vein runs subparallel to c.a. ; ∠ 5 %									
			27668	∠5	348	349	1.0'			TR.	
			27669	∠5	349	350	1.0'			0.02	
			27670	∠5	350	351	1.0'			0.05	
			27671	∠5	351	352	1.0'			0.03	
		sulfides ; mostly pyrite as fine euhedral to subhedral cubes and finely disseminated among the calcite ; also as inclusions in the calcite crystals ; minor cpy ; minor hematite									
351.9	359.9	rhyolite ; several specular hematite rich veins			355	365	10	tr.			
		359.2 – 359.9 several hairline fractures filled with white qtz									
359.9	361	brecciated zone ; filled with light pink calcite with irregular patches of pink calcite ; trace of fine sulfides ; 20° to c.a	27672	∠1	360	361	1.0'			0.03	
361	365.7	rhyolite									

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 8

REMARKS _____

LOGGED BY R. Cini-Tr

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		361 - 361.7 several irregular pink calcite veins ∠ 1/10" wide; 5° to c.a (subparallel)			365	375	10	0.02	oz Ag		
		@ 363.6 - spec. hem. rich seam 1/10" wide; minor irregular blebs of pink calcite; 30° to c.a: heavy potassic alteration around vein			375	385	10	tr			
		363.6 - 365.6 - many irregular pink - wh.b calcite fractures + veinlets [illegible]			385	395	10	tr			
					3						
365.7	366.9	brecciated + fractured zone; filled with grey-pink - white calcite; chloritized; minor spec. hem. ∠ 2% very fine dissem sulfides	27673	∠2	365.7	366.7	1.0'			TR.	
366.9	378	rhyolite 370 - 375 cut by many irregular white to pink calcite veinlets @ 375.3 calcite - spec. hematite vein; 1/10" wide; ∠ 5% fine dissem pyrite; 60° to c.a									
378	383.3	rhyolite; very fractured and filled with irregular white - pink veinlets of calcite; veins are vuggy in places; ∠ 1% fine sulfides; Core is quite broken									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
388.3	395	less intense fracturing + calcite infilling									
395	398	intensely fractured; very broken core; many pink to white calcite veinlets; < 1% sulfides	27674	< 1	396.0	397.0	1.0'			.02	
					395	405	10	0.02	oz Ag		
					405	415	10	0.02	oz Ag		
					415	425	10	0.02	oz Ag		
					425	435	10	tr			
					435	445	10	tr			
					445	455	10	tr			
					455	465	10	tr			
					465	475	10	0.06	oz Ag		
398	402.1	rhyolite									
402.1	410.8	lamprophyre @ 406.2 pink - white calcite vein $\frac{1}{10}$" wide 65° to c.a @ 406.8 pink calcite vein $\frac{1}{10}$" wide; chloritized; 30° to c.a @ 408.4 as above									
410.8	429	porphyritic rhyolite @ 415.7 white calcite vein $\frac{1}{5}$" wide; irregular patches of pink calcite; 5% hematite; < 1% fine dissem sulfides									
429	432.2	lamprophyre @ 431.3 - pink - white calcite vein; $\frac{1}{5}$" wide; heavily chloritized; < 1% fine sulfides; 5° to c.a.	27675	< 1	431.3	432.3	1.0'			.02	
432.3	475	porphyritic rhyolite									

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 10

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 436.6 - grey to whit calcite vein; $\frac{1}{10}$" wide; 24° to c.a
		@ 437.2 irregular whit calcite vein $\frac{1}{10}$" wide 20° to c.a
		@ 438.3 pink calcite vein $\frac{1}{5}$" wide; heavily chloritized; <3% medium sized euhedral pyrite 45° to c.a.
444	445	broken core
450	451	broken core
		452.9 -454- several irregular grey to whit qtz-veins running subparallel to c.a
457.1	459.6	brecciated grey to whit to pink calcite vein; $\frac{1}{5}$ - $\frac{1}{2}$" wide; <3% disseminated blebs of cpy + pyrite; subparallel to c.a; very broken core heavily chloritized
465	470	increased amount of disseminated cpy + pyrite: $\frac{1}{2}$ -
475	478.5	andesite
478.5	480.9	lamprophyre
480.9	481.5	very broken + heavily chloritized core; several irregular pink calcite veins; heavy potassic alteration
481.5	482.3	andesite
482.3	526.6	porphyritic rhyolite

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL
		475	485	10
		485	495	10
		495	505	12
27676	<3	483.2	493.5	0.3'
		505	515	10
		515	525	10
27677	<3	457.8	458.8	1.0'
27678	<5	468.4	469.4	1.0'
		525	535	10

ASSAYS %	%	OZ/TON	OZ/TON	
Tr				
tr				
tr				
		TR		
Tr				
0.02	Tr Ag.			
		+R.		
		0.03		
0.02	Tr Ag			

LANGRIDGES – TORONTO – 366-1168

DRM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 10

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 436.6 - grey to white calcite vein; 1/10" wide; 240° to c.a			475	485	10	Tr			
		@ 437.2 irregular white calcite vein 1/10" wide 20° to c.a			485	495	10	Tr			
		@ 438.3 pink calcite vein 1/5" wide; heavily chloritized; ∠3% medium sized euhedral pyrite 45° to c.a.			495	505	12	Tr			
444	445	broken core [illegible]	27676	∠3	483.2	493.5	0.3'			TR	
450	451	broken core [illegible]			505	515	10	Tr			
		452.9 - 454 - several irregular grey to white qtz. veins running subparallel to c.a			515	525	10	0.02	nil Ag.	—	
457.1	459.6	brecciated grey to white to pink calcite vein; 1/5 - 1/2" wide; ∠3% disseminblebs of cpy + pyrite; subparallel to c.a; very broken core heavily chloritized	27677	∠3	457.8	458.8	1.0'			TR	
465	470	increased amount of disseminated cpy + pyrite: 1/2 -	27678	∠5	468.4	469.4	1.0'			0.03	
475	478.5	andesite			525	535	10	0.02	nil Ag		
478.5	480.9	lamprophyre									
480.9	481.5	very broken + heavily chloritized core; several irregular pink calcite veins; heavy potassic alteration									
481.5	482.3	andesite									
482.3	526.6	porphyritic rhyolite									

LANGRIDGES – TORONTO – 366-1168

RM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 484.2 irregular grey qtz vein ; about 1" wide ; heavily fractured + chloritized along cracks ; 90° to c.a			535	545	10	0.02	tr Ag			
		@ 489.2 as above ; 40° to c.a										
		@ 494.0 as above ; ½" wide ; ∠ 2% irregular blebs of pyrite										
496.4	499.4	many irregular pink to white calcite veins ranging from thread size to 1/10" wide ;										
			27679	∠1	505.6	506.6	1.0'			TR		
505.2	506.4	as above										
		@ 508.1 grey quartz vein ⅕" ; 40° to c.a										
		@ 509.1 - as above										
		@ 511.6 - as above ; 25° to c.a										
		@ 511.9 pink calcite vein ; 1/10" wide ; heavily chloritized ; cross cuts above qtz vein ; 45° to c.a										
513.1	515	brecciated + braided grey, white, pink calcite vein ; heavily chloritized ; subparallel to c.a , moderate potassic alteration around vein										
515	525.4	several pink - white calcite veinlets ; various orientations										
525.4	527.3	lamprophyre										
		@ 525.5 - pink calcite - qtz vein 1.5" wide ; heavily (over) →	27520	∠1	525.0	525.7	0.7'			.02		

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 12

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		chloritized ; < 1% disem cpy + pyrite ; 90° to C.a			545	555	10	tr				
527.3	554.6	porphyritic rhyolite @ @ 543.1 grey intermittent qtz vein until 544.3 heavy potassic alteration throughout ; < 1 % very fine specks of sulfides			555	565	10	tr				
549.5	554.3	euhedral white feldspar crystals throughout the porphyry especially surrounding several chlorite rich veinlets @ 553.7 several irregular pink - white calcite veinlets (< 1/10") ; 21° to C.a										
554.6	554.8	lamprophyre										
554.8	563.5	porphyritic rhyolite ; many euhedral feldspar phenocrysts @ 555.6 grey-white brecciated calcite vein ; 1/10" wide 37° to C.a. @ 556 - pink to white calcite vein < 1/10" wide ; 30° to C.a @ 557.1 pink calcite vein ; 1/5" wide ; chloritized along border ; 20° to C.a @ 558.8 ; brecciated pink calcite vein ; 1/2" wide ; barren ; 35° to C.a @ 562.1 pink calcite - qtz vein 1/5" wide ; chloritized										

LANGRIDGES – TORONTO – 366-1168

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 13

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		throughout ; specks of fine grained sulfides < 1 % ; < 1% specular hematite			565	575	10	tr			
563.5	662.3	porphyritic rhyolite			575	585	10	tr			
568	579	many euhedral white feldspar phenocrysts			585	595	10	tr			
		@ 574.6 pink calcite vein 1/5" wide ; speckled with irregular patches of chlorite ; < 1% fine grained pyrite ; 60° to c.a calcite vein 1/5" wide ;	27681	< 1	574.5	574.8	0.3'			.02	
		@ 578.3 pink calcite vein 1/10" wide ; 60° to c.a									
581.8	585	several pink calcite veins 1/10 - 1/5" ; several orientations									
		@ 587.8 pink calcite vein 1/5" wide ; chloritized along border ; 20° to c.a.									
		@ 591.5 white calcite vein 1/5" wide ; very heavily chloritized around vein ; 40° to c.a									
		@ 596.5 - pink calcite vein 1/10" wide ; 50° to c.a									
		@ 601.4 as above									
		@ 603.0 as above									
		@ 604.8 white qtz vein 3/4" wide ; irregular patches of pink calcite ; chloritized along fractures ; < 3% spec. hematite 55° to c.a									
		@ 605.3 as above 1/5" wide									
		@ 605.6 as above 1/2" wide									
		@ 607.9 as above ; 3/10" wide ; < 1% dissem sulfides									

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 14

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 614.8 - pink calcite vein 1/5"; chloritized; 50° to c.a									
615.7	616.5	brecciated seam; 3" wide; filled with grey calcite; trace of fine sulfides; 12° to c.a; several irregular patches of pink calcite	27682	< 1	615.7	616.5	0.8"			.02	
616.5	621.8	moderately fractured & filled with grey to white calcite; some veins being brecciated			595	605	10	tr			
		@ 626.8 pink to white calcite vein 1/5" wide; vuggy; 30° to c.a			605	615	10	tr			
		@ 628.2 white to pink calcite vein < 1/5 to 1/5" wide; very hematite rich - several roses of spec. hematite; potassic alteration throughout; chloritized along borders; < 1% very fine specs of sulfides; cpy + py 18° to c.a			615	625	10	tr.			
			27683	< 1	628.2	628.9	0.7"			TR.	
		@ 635.4 pink calcite vein; irregular; < 1/10" wide 15° to c.a									
		@ 635.8 - pink calcite vein 1/5" wide; chloritized 60° to c.a.									
		@ 636.6 as above; 5° to c.a									
		@ 640.3 irregular pink calcite vein 1" wide; chloritized throughout - 50° to c.a									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. C05-6 SHEET NO. 15

REMARKS _____

LOGGED BY R. Cinits.

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
642.1	645.7	several irregular white calcite fractures + veinlets @ 647.2 smokey white quartz vein 2.5" wide; speckled with irregular patches of chlorite and blades of spec. hematite; minor patches of pink calcite; trace of sulfides; 30° to c.a @ 652.7 light pink brecciated calcite vein; 1/5" wide; trace of sulfides; 47° to c.a @ 66[illegible]6 white irregular calcite vein 1/10" wide 20° to c.a			625	635	10	tr			
					635	645	10	tr			
					645	655	10	tr			
					655	665	10	tr			
6623	664.2	lamprophyre @ 663.2 pink irregular calcite vein 1/10" wide; brecciated in places; 35° to c.a									
664.2	665.2	porphyritic rhyolite - heavy potassic alteration; cut by several irregular pink calcite veins up to 1/5" wide; 20° to c.a.; brecciation in larger vein 22% spec. hematite; trace of fine sulfides	27684	21	664.3	665	0.7'			TR.	
665.2	667	lamprophyre									
667	691.5	porphyritic rhyolite									
667	668.4	heavy potassic alteration @ 670.4 white quartz vein 1/5" wide; heavy									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D-75-6 SHEET NO. 16

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
[illegible]	[illegible]	epidote alteration along edges; minor irregular blebs of pink calcite; 19° to C.a			665	675	10	tr			
[illegible]	[illegible]	@ 686.8 light pink calcite vein 1/10" wide; vuggy 40° to C.a			675	685	10	tr			
[illegible]	[illegible]				685	695	10	tr			
691.5	692.5	lamprophyre; light green; heavily chloritized + epidotized			695	705	10	tr			
[illegible]	[illegible]				705	715	10	tr			
692.5	703.4	porphyritic rhyolite @ 699.8 brecciated pink calcite vein 1/5" wide; 40° to C.a			715	725	10	tr			
703.4	703.6	small lamprophyre dike with irregular blebs of green epidote; and white qtz; < 1% dissem pyrite									
703.6	714.6	porphyritic rhyolite; many irregular pink to white calcite fractures + veinlets at various orientations many are mildly brecciated; chloritized throughout									
714.6	716.8	lamprophyre; intense chlorite spotting									
716.8	723.8	porphyritic rhyolite; several white calcite veinlets									
723.8	726.9	lamprophyre									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-6 SHEET NO. 17

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
725.5	726.9	heavily epidote altered ; light green colour			725	735	10	tr			
726.9	730.9	porphyritic rhyolite			735	745	10	tr			
728.0	729.3	many epidote filled fractures ; all running about 85° to c.a			745	755	10	tr			
729.3	729.6	lamprophyre dike ; epidote along edges of dike			755	765	10	tr			
729.6	758.4	porphyritic rhyolite			765	775	10	tr			
		@ 731.6 very irregular pink - white calcite vein ; ∠ 1/10" to 1/5" wide; trace of sulfides ; 10° to c.a			775	785	10	tr			
741	742	several light pink calcite veinlets ∠ 1/10" wide			785	795	10	0.02	1/2 dy		
		@ 746.9 epidote rich veinlets ∠ 1/10" wide; ∠ 2%			795	805	10	tr			
		irregular patches pink calcite ; 30° to c.a			805	815	10	0.02	1/2 dy		
		@ 747.6 as above									
749.5	758.4	heavy potassic alteration with many irregular light green epidote filled fractures + veinlets ; euhedral pyrite ∠ 2%	27685	∠ 2	754.2	755	0.8'			TR.	
		@ 755.8 light pink calcite vein 1/10" wide ; subparallel to c.a			815	825	10	0.02	1/2 dy		
758.4	759.1	lamprophyre									
759.1	768	porphyritic rhyolite									
759.7	765	broken core									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 18

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 765 light green epidote-chlorite rich seam; 1" wide;									
764	765	grey calcite-chlorite vein ∠ 1/16" wide; subparallel to c.a; ∠ 5% medium grained pyrite	27686	∠5	764	765	1.0'			TR.	
768	768.2	lamprophyre; intense chlorite spotting									
768.2	785.9	porphyritic andesite									
785.9	786.3	lamprophyre									
786.3	789	porphyritic andesite									
789	799.4	porphyritic rhyolite @ 798.8' white qtz vein 3/4" wide; irregular patches of chlorite throughout; 55° to c.a									
799.4	804.3	porphyritic andesite; spotted with blood red phenocrysts;									
804.3	825	DIABASE									
804.3	806.4	heavy epidote alteration @ 805.2 white qtz vein 4" wide; epidote + chlorite patches throughout									
806.4	814	fine grained diabase; chilled margin @ 811.8 white calcite vein 1/16" wide; 20° to c.a.									

LANGRIDGE — TORONTO — 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-6 SHEET NO. 19

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
821.5	823.5	several irregular pink - white calcite filled fractures & mild brecciation										
EOH 825												

LANGRIDGES — TORONTO — 366-1168

DRM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Res. Inc.
HOLE NO. P-85-7 LENGTH 785'
LOCATION N. Cobalt 929' South 77' West
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 345° DIP -50°
STARTED Oct 10/85 FINISHED October 18/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
785	49°	355°			
585	49°	355°			
385	50°	349°			
185	52°	350			

HOLE NO. P-85-7 SHEET NO. 1
REMARKS _____
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	50.3	overburden			-	75	?	tr.			
0	62	casing									
50.3	63	SEDIMENTS									
		fine grained mudstone coarsening to a greywacke and pebbly wacke									
		@ 57.3 several white calcite veins 40° to C.a ; ∠ 1/10" wide									
		@ 59.5 - light pink calcite vein ; 1/10" wide, mildly brecciated ; subparallel to C.a									
		@ 62.5 white calcite vein 1/10" to 1/5" wide; irregular ; subparallel to C.a ; ∠ 1% fine dissem sulfides	88484	∠1	62.5	63.5	1.0'			TR.	
		VOLCANICS									
63	84.7	rhyolite									
		@ 67.6 white calcite vein 1/10 to 2/10" wide ; mildly brecciated; 30° to C.a.									
		@ 72.8 heavily chloritized vein 1/10" wide; minor white calcite ; ∠ 1% fine dissem sulfides	88485	∠1	72.8	73.4	0.6'			.02	
75	77	broken core									
77	143.8	porphyritic rhyolite									
		@ 88.2 irregular pink calcite vein up to 1/5" wide; mildly chloritized ; 40° to C.a									
		as above									

TORONTO – 366-1168
LANG

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO:	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 94 - pink calcite vein 1/10" wide ; 58° to c.a			75	85	10	tr			
		@ 95 as above			85	95	10	tr			
		@ 102.4 pink calcite vein 1/5" wide; irregular patches of chlorite ; trace of sulfides ; 30° to c.a			95	105	10	Tr			
		@ 103.5 smokey white qtz vein 3/10" wide ; chloritized along edges ; 40° to c.a ; < 3% irregular pink calcite blebs			105	115	10	tr			
		@ 108 as above		<1	115	125	10	Tr			
108.9	110	broken core ; several irregular pink calcite veins ; potassic alteration			125	135	10	tr			
		@ 112.7 pink calcite - chlorite vein ; 1/5" wide ; 30° to c.a									
		@ 115 smokey white quartz vein 2" wide ; irregular patches of vuggy pink calcite + chlorite throughout ; < 1% fine sulfides ; 32° to c.a	88486	<1	115	115.4	0.4'			TR.	
116	118	several white qtz veins 1/5" wide; chloritized and irregular pink calcite patches									
		@ 119 - irregular pink calcite vein 1/5" wide ; chloritized - 90° to c.a									
125	131.8	many irregular fractures filled with spec. hematite ; also several irregular pink calcite veinlets ; trace of sulfides									

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 135 brecciated seam 3/4" wide; very heavily chloritized; 10° to c.a
		@ 134.8 grey qtz vein 1/5" wide; 60° to c.a
		@ 135.7 as above; 40° to c.a
137.3	139.2	several pink calcite veins ∠ 1/10" wide
141	143.8	many irregular pink calcite fractures + veinlets heavily chloritized, potassic alteration throughout; ∠ 1% disseminated cpy + fine euhedral pyrite
143.8	145.7	lamprophyre
		@ 144.2 white calcite vein 1/5" wide; heavily chloritized; trace of fine sulfides; 23° to c.a
145.7	149.9	porphyritic rhyolite; very broken core; several irregular pink-white calcite fractures + veins; trace of sulfides
149.9	153.3	porphyritic rhyolite
153.3	154.8	rhyolite
154.8	159.0	porphyritic rhyolite
157.8	159.0	broken core
159.0	160.6	lamprophyre: 30° to c.a (contact)
		@ 159- irregular pink calcite-chlorite vein 1/5" wide; 30° to c.a

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		135	145	10	tr			
		145	155	10	tr			
		155	165	10	tr			
88487	∠1	143.6	144.6	1.0'			TR.	

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 4

REMARKS _____

LOGGED BY R Gibbs

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 160.1 - pink calcite - chlorite vein ½" wide; trace of dissem sulfides; 18° to c.a			165	175	10	tr			
					175	185	10	tr			
160.6	167.6	porphyritic rhyolite			185	195	10	tr			
167.6	171.3	lamprophyre; several irregular pink - white calcite filled fractures + veins			195	205	10	tr			
171.3	174.3	porphyritic rhyolite many irregular pink calcite veins ∠ 1/10" wide; subparallel to c.a									
174.3	175	lamprophyre									
175	177	porphyritic rhyolite									
177	178.3	lamprophyre									
178.3	183.0	porphyritic rhyolite @ 178.4 pink - calcite - qtz vein 3/10" wide; trace of sulfides; 60° to c.a									
		@ 180 - white calcite vein 1/10" wide; 40° to c.a									
183	183.9	lamprophyre - cut by several irregular pink calcite veins;									
183.9	200.2	porphyritic rhyolite									
187.9	191	core fractured parallel to c.a several irregular pink calcite filled fractures + veinlets									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 5

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 194.4 grey calcite - chlorite brecciated vein ; 1/10" wide 10° to C.a
200.2	200.9	lamprophyre
200.9	285.9	porphyritic rhyolite
		@ 204.3 smokey white qtz vein ½" wide; irregular chlorite patches throughout ; <5% roses of spec. hematite 46° to C.a
		@ 205.5 as above
		@ 218.2 smokey white qtz vein 1.5" wide; irregular patches of chlorite, pink calcite ; potassic alteration ; 2-3% spec. hematite ; 30° to C.a.
		@ 224.6 heavily chloritized vein 1/5" wide; minor pink calcite ; 28° to C.a.
		@ 229.1 - pink calcite - chlorite vein 1/10" wide ; 68° to C.a
		@ 233.8 - white calcite vein 1/10" wide ; heavy potassic alteration rim ; 37° to C.a
		@ 250.8 - pink calcite - chlorite vein 1/5" wide 70° to C.a
		@ 254.3 as above ; 3/10" wide
		@ 257.2 as above
		@ 259.3 smokey white qtz vein ½" wide ; minor irregular patches of pink calcite ; chlorite ; spec. hematite ; 62° to C.a

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		205	215	10	Tr				
		215	225	10	Tr				
		225	235	10	Tr				
		235	245	10	Tr				
		245	255	10	Tr				
		255	265	10	Tr				
		265	275	10	Tr				
		275	285	10	Tr				

LANGRIDGE — TORONTO — 368-1168

RM

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. R85-7 SHEET NO. 6

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
272	272.8	broken core			285	295	10	tr			
		@ 273 smoky white quartz vein ½" wide; heavily chloritized; irregular calcite (pink) patches; <1% spec. hematite; 45° to c.a			295	305	10	tr			
		@ 281.1 as above; 3/10" wide			305	315	10	tr			
281.6	285.9	several specular hematite-pink calcite veinlets; various orientations			315	325	10	tr			
		@ 284 spec. hematite vein 2/5" wide; 40° to c.a			325	335	10	tr			
285.9	286.2	heavily chloritized seam									
286.2	287.1	porphyritic rhyolite			335	345	10	tr			
287.1	287.5	lamprophyre			345	355	10	tr			
287.5	288.1	porphyritic rhyolite - several spec. hematite rich seams									
288.1	288.5	lamprophyre									
288.5	353	porphyritic rhyolite									
		@ 289.8 pink calcite-chlorite vein 1/10" wide; 35° to c.a									
		@ 290.8 spec. hem-chlorite-pink/white calcite vein; 1/5" wide; 40° to c.a									
		@ 292.3 irregular pink calcite vein; 1/10" wide 15° to c.a									
		@ 297.4 grey qtz vein 2/5" wide; 10% spec. hematite; minor pink calcite; 37° to c.a									
		@ 316.7 pink calcite vein 1" wide; irregular chlorite patches; minor blebs of qtz + white calcite; heavy potassic alteration throughout; <1% fine sulfides; py + cpy; →	83488	<1	316.5	317.1	0.6'			TR.	

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		50° to c.a									
317.4	326	many irregular fractures filled with light green material - epidote? several irregular white calcite veins			355	365	10	tr			
					365	375	10	tr			
328.3	329.2	heavy potassic alteration around several irregular + discontinuous white to grey calcite veins									
333.1	333.5	heavily fractured + filled with green epidote									
		@ 334.8 pink-white calcite vein 1/10" wide; 60° to c.a									
335.8	336.3	highly fractured + broken rock; cut by several irregular & light pink calcite veinlets									
		@ 338.5 pink calcite vein 1/10" wide; 35° to c.a									
		@ 341.4 very irregular + chloritized pink calcite vein; 90° to c.a									
349.5	351.2	several white calcite veins < 1/10" wide; various orientations									
353	367	rhyolite									
356.4	366	heavily fractured; cut by many irregular pink to white calcite veinlets + fractures; mildly brecciated in places; core badly broken; fine euhedral pyrite < 3% in many of the veinlets; minor amounts of specular hematite	88489	< 3	361.5	362.5	1.0'			.02	
367	368.4	porphyritic rhyolite									
		@ 368.4 pink calcite vein 1/5" wide; 60° to c.a									
368.4	368.8	lamprophyre									
368.8	372.4	porphyritic rhyolite									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 8

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 369.4 - very irregular pink-white calcite veinlet ∠ 1/10" wide; ∠ 1% fine opy + py; subparallel to c.a
		@ 372.4 irregular white calcite vein; brecciated + chloritized; ∠ 1/10 to 1/5" wide; 35° to c.a
372.4	373.1	lamprophyre
373.1	403	porphyritic rhyolite
		@ 377.9 white quartz vein 2/5" wide; irregular patches of chlorite + specular hematite; 30° to c.a
		@ 380.8 brecciated seam 3/10" wide; filled with white calcite; 30° to c.a
		@ 397.2 brecciated seam 3/10" wide, filled with grey calcite; several irregular fractures filled with grey to pink calcite surround the brecciated seam. 55° to c.a
388.3	390	several irregular pink to white calcite veinlets + fractures
		@ 392.9 several irregular pink calcite veins 1/10 to 1/5" wide, running subparallel to c.a; very specular hematite rich; ∠ 3% fine to medium pyrite;
		@ 397.1 irregular white calcite vein; ∠ 1/10" wide; 40° to c.a
400	403	several irregular pink to white calcite veins
403	414.5	lamprophyre - cut by many pink to white calcite veinlets
403.8	404.6	badly broken core

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		375	385	10	tr.			
		385	395	10	tr			
		395	405	10	tr			
		405	415	10	tr			
98490	∠3	392.9	393.6	0.7'			TR.	

LANGMUIR ASSAYS — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-95-7 SHEET NO. 9

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 414.5 very irregular white calcite vein ; subparallel to C.a. ; mildy brecciated ; irregular blebs dissem cpy < 1% ; fine euhedral pyrite < 1% ; < 2% hematite ;
414.5	439.5	porphyritic rhyolite
		@ 416.9 quartz - chlorite vein 1" wide ; 38° to c.a. cut by several irregular + discontinuous pink calcite veinlets running 40° (to qtz vein)
417	419	several grey qtz veins 1/10 to 1" ; irregular chlorite + hematite patches ; trace of dissem sulfides ; cut by pink calcite veinlets oblique to qtz veins
		@ 422.4 pink calcite vein 1/10" wide ; vuggy ; trace of fine sulfides ; 40° to C.a
426	433	several brecciated white calcite veins ; very irregular shapes ; < 1/10" to 1/5" ; most subparallel to C.a
		vuggy in places with euhedral calcite crystals ; < 2% very fine pyrite ; broken core
		@ 435.8 white qtz vein 2/5" wide ; heavily chloritized ; potassic alteration along borders ; < 1% dissem sulfides
437	438.6	several irregular white to pink calcite veinlets
		@ 439.5 qtz - pink calcite - chlorite vein 1" wide ; calcite is vuggy + discontinuous ; 42° to C.a
439.5	445.2	lamprophyre

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
88491	< 2	414.5	415.2	0.7'					
		415	425	10	tr				
		425	435	10	tr				
		435	445	10	tr				
88492	< 2	428.5	429.5	1.0'			TR.		

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-7 SHEET NO. 10

REMARKS _____

LOGGED BY R. Watts

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
443.2	445.2	many irregular quartz - pink calcite veins; heavily chloritized; < 3% dissem cpy & fine pyrite in 1¢ veins; 40° to c.a	88493	< 3	443.1	443.8	0.7'			TR.	
445.2	453.7	porphyritic rhyolite @ 446.4 brecciated seam ½" wide; filled with qtz + white calcite + pink calcite; < 2% hematite 46° to c.a			445	455	10'	tr			
					455	465	10	tr			
446.5	453.7	several smokey qtz veins - chloritized and < 5% spec. hematite.			465	475	10	tr			
453.7	454	lamprophyre - cut by several pink-white calcite			475	485	10	tr.			
454	471.1	porphyritic rhyolite @ 463.9 irregular - discontinuous pink calcite vein 1/5" wide; 30° to c.a			485	495	10	tr			
470	471.1	several irregular white calcite veins									
471.1	473.8	lamprophyre - cut by many irregular pink-white calcite veins; all about 1/10" wide									
473.8	515	porphyritic rhyolite @ 481 grey to pink brecciated calcite vein 1/10" wide 36° to c.a.									
483	485	broken core									
485	489	many pink calcite veinlets < 1/10 - 1/10" wide; all about 45° to c.a @ 493.1 grey qtz vein 1/5" wide; 27° to c.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. R85-7 SHEET NO. 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
495.6	504.1	many pink calcite veinlets; most < 1/10" wide; up to 1/5" wide; most 50° to c.a; heavy potassic alteration throughout									
		@ 511.6 white calcite vein 1/5" wide; brecciated in places; 5° to c.a; < 1% fine dissem sulfides; vuggy in places	88494	< 1	511.6	512.6	1.0'			TR.	
		@ 514.3 qtz-chlorite-spec. hematite vein; 1/5" wide; up to 60% hematite; minor pink calcite; 32° to c.a			495	505	10	tr			
					505	515	10	tr			
515	520.4	lamprophyre cut by several pink-white calcite veins			515	525	10	tr			
520.4	531.7	porphyritic rhyolite			525	535	10	tr			
		@ 532.2 several pink calcite veins all < 1/10" wide and 60° to c.a			535	545	10	tr			
528.4	529.1	many irregular grey qtz veins from 1/16" to 2" wide; < 3% dissem cpy + py; < 5 spec. hematite most are 40° to c.a	88495	< 3	528.4	529	0.6'	*		TR.	
		@ 530.7 qtz-chlorite vein 1/2" wide; 41° to c.a									
531.7	533.6	lamprophyre									
533.6	616	porphyritic rhyolite									
537.4	541	many irregular pink to white calcite veinlets; all < 1/10" wide; all about 30° to c.a; trace of dissem sulfides	88496	< 1	538.9	539.9	1.0'			TR.	

LANGRIDGE TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 12

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
556.3	573	several smokey grey qtz veins ; 1/10 to 2/5" wide; most 50° to c.a			545	555	10	tr			
		@ 375.2 white qtz vein 1.5" wide; very irregular; many chloritic patches throughout ; < 1% dissem pyrite ; 40° to c.a			555	565	10	tr			
					565	575	10	tr			
576	584	several smokey grey qtz veins as in 556 - 573			575	585	10	tr			
		@ 581.6 white brecciated calcite vein 1/10" wide 26° to c.a			585	595	10	tr			
		@ 583.9 as above ; 3/10" wide ; 20° to c.a			595	605	10	tr			
		@ 586.2 white - pink calcite vein 1/10" wide ; 20° to c.a			605	615	10	tr			
		@ 594 irregular pink calcite - chlorite vein 1/10" wide 30° to c.a			615	625	10	tr			
		@ 596.3 as above									
		@ 597.5 smokey white qtz vein 1/2" wide ; irregular patches pink calcite + chlorite ; < 5% spec hematite; 40° to c.a									
598	605	several irregular pink calcite veinlets ; all < 1/10" wide									
611.3	615	as above; minor brecciation in some									
615	616.1	heavily fractured + filled with white - grey calcite ; heavy potassic alteration									
616	652.4	rhyolite									
618.1	619.1	heavily fractured + brecciated, cut by many white calcite veins ; < 2% dissem pyrite ; zone 40° to c.a	88497	<2	618.1	619.1	1.0'			.02	

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 13

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 619.5 several pink calcite veins 1/10" wide; 60° to c.a; heavy potassic alteration			625	635	10	tr			
		@ 621 - white brecciated - calcite vein 1/10" wide; 30° to c.a.			635	645	10	tr			
		@ 628.3 pink calcite - qtz vein 1/5" wide; 56° to c.a			645	655	10	tr			
		@ 631.4 pink calcite - chlorite - qtz vein 1/4" wide; irregular shape; 65° to c.a			655	665	10	?			
		@ 631.7 pink calcite vein 1/10" wide; 23° to c.a			665	675	10	0.02	oz Ag		
636	742	many highly irregular grey qtz veins; minor epidote + pink calcite; trace of very fine sulfides @ 737.1 two pink to white calcite veins 1/10" wide 40° to c.a			675	685	10	tr			
652.4	655.7	lamprophyre intercalated with rhyolite; rhyolite is very heavily potassic altered; epidote throughout									
655.7	670	rhyolite									
663.6	671	several irregular pink to white calcite veins < 1/10" wide; brecciated in places; < 1% dissem sulfides; < 2% spec. hematite									
670	676	porphyritic rhyolite									
676	693	rhyolite - moderate potassic alteration.									
693	685.6	intense potassic alteration; cut by many irregular epidote rich veins and qtz veins									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 14

REMARKS _____

LOGGED BY R. Cini ts

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
685.6	690.2	less intense potassic alteration; several grey irregular qtz veins; ∠3% dissem cpy + py in qtz veins and surrounding rock;
690.2	692.4	lamprophyre
692.4	708.6	andesite @ 700.6 white brecciated calcite vein 1/5" wide; potassic alteration halo; trace of fine dissem pyrite; 35° to c.a @ 701.7 pink calcite vein 1/10" wide; 40° to c.a @ 704 sheared zone? 4-5" wide; 20% coarse to fine dissem pyrite + cpy; small calcite stringers ∠1/10" wide and 20° to c.a; shearing 20° to c.a as well; heavy potassic alteration throughout;
708.6	710.4	lamprophyre
710.4	715	rhyolite
715	727.8	porphyritic rhyolite
727.8	729.5	lamprophyre
729.5	756.7	porphyritic rhyolite @ 729.5 several white calcite vein ∠1/10" wide, 21° to c.a

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
88498	∠3	687.7	688.7	1.0'			.02		
		685	695	10	Tr				
		695	705	10	Tr				
		705	715	10	Tr				
		715	725	10	0.02	oz Ag			
		725	735	10	0.02	oz Ag			
88499	∠20	704	705	1.0'	*		0.03		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-7 SHEET NO. 15

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
756.7	758.7	andesite
		@ 740.1 irregular pink calcite vein < ½" wide;
		15° to C.a
758.7	761.9	porphyritic rhyolite
761.9	762.9	lamprophyre
762.9	769.4	porphyritic rhyolite
765	766	several green epidote rich irregular veinlets < ½" wide;
		39° to C.a
766	785	DIABASE
766	768	chilled margin
781	782.7	~~broken~~ core; several whit calcite veins; < 1% of fine dissem sulfides
EOH	785	

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		735	745	10	tr			
		745	755	10	0.02	tr Ag		
		755	765	10	tr			
		765	775	10	tr			
		775	785	10	tr			
~~88450~~ 88500	<1	781.5	782.5	1.0'			tr.	

LANGRIDGES — TORONTO — 366-1188

DRM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc.
HOLE NO. P-85-8 LENGTH 1029 Feet
LOCATION N. Cobalt 1192 E 565.5 S
LATITUDE DEPARTURE
ELEVATION AZIMUTH due South DIP -50°
STARTED Oct 22, 1985 FINISHED Oct 29/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
219	52	176	1019	53	236
419	54	177			
619	52	191			
819	52	199			

HOLE NO. P-85-8 SHEET NO. 1
REMARKS
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	12	Casing									
0	3	OVERBURDEN									
3		DIABASE - generally medium grained; ranging from fine grained black diabase to very coarse grained somewhat gabbroic looking rock; most of core is mildly to moderately magnetic									
		@ 10.7 light pink calcite vein 1/10" wide; 25° to c.a									
		@ 12.8 seam of intense epidote alteration 2" wide to c.a									
		@ 20.9 white calcite vein 1/10" wide; epidote + potassic alteration throughout; ∠ 5% fine dissem py 21° to c.a	97701	∠5	20.9	21.4	0.5'			+tr.	
		@ 22.7 white calcite vein 1/10" wide 22° to c.a									
28	33.5	very coarse grained									
		@ 30.1 Several light pink calcite veins 1/5" to 1/2"; irregular qtz eyes throughout; chloritized along borders; vuggy in places; ∠ 1% very fine sulfides; 25° to c.a	97702	∠1	30.1	30.9	0.8'			.02	
		@ 32 irregular white calcite vein 1/10" wide; ∠ 3% dissem cpy + py; 39° to c.a	97703	∠3	32	32.5	0.5'			.02	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 2

REMARKS _____

LOGGED BY R. Coates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
35.9	36.6	Several very irregular pink calcite veins; many orientations; barren;									
36.3	39.7	core fractured parallel to c.a									
		@ 43.5 Several irregular white to pink calcite veins zone 4" wide; veins are mildly brecciated; trace of sulfides; 31° to c.a									
		@ 46.8 white brecciated wt calcite vein 1/5" wide; vuggy in places; ∠ 2% dissem cpy; 24° to c.a qtz + chlorite throughout	97704	∠2	46.8	47.3	0.5'			.02	
		@ 49.7 vuggy pink calcite vein 1/8" wide; 10° to c.a									
		@ 52.4 irregular white calcite vein 1/10"; 27° to c.a									
56.3	60.7	several very irregular brecciated (mildly) pink calcite veins ∠ 1/10 to 1/5" wide; barren; chloritized throughout most subparallel to c.a									
63.3	64.2	broken core									
		@ 67 pink calcite vein 1/10" wide; trace of fine pyrite; 24° to c.a									
68.3	69	broken core									
		@ 73.2 pink calcite vein 1/5" wide; epidote throughout; ∠ 5% dissem cpy throughout; 62° to c.a	97705	∠5	73	73.4	0.4'			.02	
		@ 73.8 pink calcite vein 1/5" wide 70° to c.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 76.6 light pink calcite vein 1/2" wide ; chloritic + potassic alteration throughout ; 30° to c.a										
77.6	82	several white calcite veinlets. < 1/10" wide; various orientations										
83	85	broken core ; several white calcite veinlets										
		@ 86.6 white to pink calcite vein 1/5" wide ; chloritized + moderate potassic alteration ; 17° to c.a										
88.2	89.6	several pink calcite veinlets + stringers of very fine	97705	<1	142.5	143.5	1.0'			.02		
		@ 91.9 pink calcite vein 1/10" wide ; 25° to c.a potassic alteration throughout;										
		@ 92.1 light pink calcite vein ; irregular + discontinuous ; heavy epidote halo around vein										
		@ 95.7 light pink calcite vein 1/4" wide : stringers of chlorite throughout ; 20° to c.a.										
		@ 97.6 as above : 35° to c.a										
100.3	103.5	several irregular pink - white qtz - calcite - veins ; mildly brecciated; 1/10 - 1/2" wide; trace of fine sulfides	97706	<1	102	103	1.0'			.02		
		@ 112.7 very irregular pink calcite vein < 1/5" wide										
112	116	fine grained diabase										
		@ 127.3 light pink very irregular calcite vein ; < 1% stringers of very fine dissem pyrite?	97707	<1	127.3	127.9	0.6'			tR.		

LANGRIDGES — TORONTO — 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. R-85-8 SHEET NO. 4

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
131.8	135.5	several very irregular pink calcite veins ; from < 1/16" to 1/4" wide ; various orientations @ 133.6 white calcite vein 1/5" wide ; 27° to c.a.									
139.4	141.3	several pink calcite veins ; 1/16 - 1/8" wide ; most about 25° to c.a									
142.5	145	several very irregular pink calcite veins ; heavily brecciated in places ; < 1% stringers of very fine dissem pyrite @ 143.1 white to pink calcite vein 1/2" wide ; irregular patches of chlorite ; rimmed by potassic alteration halo ; 25° to c.a @ 149.7 pink calcite vein 1/5" wide ; rimmed by white calcite ; 17° to c.a @ 150.4 as above	97708	< 1	142.5	143.5	1.0'			0.02	
159.2	160	broken core @ 165.9 light pink calcite vein 1/10" wide 55° to c.a.									
171.4	172.6	several very irregular white to pink calcite veins ; moderate potassic alteration throughout ; brecciated in places ; trace of very fine sulfides									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 5

REMARKS _____

LOGGED BY R Pinto

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
173.4	175	Several light pink-white very irregular calcite vein; heavily chloritized along margins; all about 20° to c.a									
		@ 175.7 light pink calcite vein 1/10" wide; potassic alteration throughout; 35° to c.a.									
		@ 179.1 as above; 27° to c.a									
177	178	Fractured core									
		@ 178.7 - light pink qtz-calcite vein 1/5" wide; 30° to c.a									
		@ 180.8 light pink qtz-calcite vein 1/2" wide; < 2% stringers of very fine dissem pyrite surrounding irreg blobs of qtz; heavy potassic alteration vein 1" wide borders the vein; 20° to c.a	97709	< 2	180.2	180.9	0.7'			.02	
183.5	186.3	several irregular white calcite veins 1/10 - 1/5" wide									
		@ 188.3 irregular pink calcite-qtz vein 3/4" wide; irregular chlorite patches throughout; 32° to c.a									
191	196.6	many irregular pink to white calcite veins; most about 1/10 - 1/5" wide									
203.4	205.1	many very irregular pink calcite-qtz veins; < 1/10" to 1/2" wide; epidote + potassic alteration throughout moderately brecciated in places; most 20° to c.a	97710	< 1	203.5	204.6	0.9'			+R.	
		< 1% dissem sulfides									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 6

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
215	448	Coarse grained to medium grained diabase @ 216 white - pink qtz - calcite vein 1" wide; mildly brecciated; potassium alteration halo around vein; < 1% very fine dissem pyrite; 34° to c.a @ 224.3 white / light pink calcite vein 3/10" wide; potassic alteration halo; 43° to c.a.	97711	< 1	216	216.5	0.5'			.02	
228.8	231.4	heavy potassic alteration [illegible]	[illegible]	< 1	[illegible]	255	1.0'			.02	
229.6	231	several irregular light - pink calcite veins; 1/10 - 1/5" wide; various orientations; trace of dissem cpy									
239.3	240	several irregular pink calcite - qtz - white calcite veins < 1/10" wide; moderate potassic alteration spotted throughout sand as halo around; some veins 30° to c.a; diabase is fine grained at this point									
246.3	248	many very irregular pink / white / grey calcite + qtz fractures + veins; brecciated throughout; < 1% very fine dissem sulfides (pyrite ?); various orientations	97712	< 1	246.3	247.3	1.0'			.02	
248	249	broken core									
249.7	251.5	several irregular, brecciated milky qtz - calcite veins < 1/10" - 1/5" wide; trace of sulfides; 30° to c.a @ 251.8 white qtz - calcite vein 1/2" wide;									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		very pale green alteration halo 1" on each side of vein; veins has potassic alteration; < 1% dissem cpy + py; 32° to c.a									
		@ 253 milky white qtz-calcite vein ½" wide; potassic + chloritic alteration halo; mildly brecciated; apple green alteration surrounding vein; < 1% very fine dissem sulfides cpy + py; 40° to c.a	97713	< 1	253	254	1.0'			0.02	
253.1	255.2	as above, but 35° subparallel to c.a; more irregular; ¼" wide; intense apple green alteration irregular blebs pink calcite	97714	< 2	254	255	1.0'			.02	
260.6	262	several pink-white calcite-qtz veins 1/10" wide 25° to c.a									
		@ 262.8 grey qtz-pink to white calcite vein ½" wide; chloritized and also light green alteration < 1% fine dissem cpy + py; 20° to c.a									
		@ 269.5 grey qtz-pink calcite vein 3" wide; calcite is very irregular + discontinuous throughout; chloritic stringers prevalent; < 1% fine pyrite; 30° to c.a									
		@ 275.6 white calcite vein 1¼" wide; minor pink calcite; vuggy in places; < 2% very fine specks of py + cpy; possible aggregates of tetrahedrite in vugs 36° to c.a	97715	< 2	275.5	276.5	1.0'			.02	

LANGRIDGES – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-15-S SHEET NO. 8

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 276.1 as above ; much more irregular shape 2/5 - 1" wide									
		@ 276.8 ; grey qtz - pink to white calcite vein 1 1/4" wide ; coarse needle like chlorite throughout vein ; pink calcite very irregular + discontinuous ; minor brecciation in vein ; 1" potassic alteration halo on each side of vein ; 35° to c.a ; < 1% very fine dissem pyrite	97716	< 1	276.5	277.5	1.0'			tr.	
		@ 278.5 grey calcite - qtz vein 3/10" wide 40° to c.a									
280.6	284.5	several very irregular pink to white calcite veins < 1/10 - 1/5" wide ; various orientations									
		@ 288.4 several irregular grey calcite veins									
		@ 292.2 grey - white calcite vein 3/10" wide ; irregular blebs pink calcite ; stringers of chlorite ; 35° to c.a.									
294	295.2	several very irregular grey calcite veins with irregular pink calcite blebs ; many orientations									
		@ 313.1 grey calcite - chlorite vein 1/10" wide ; 28° to c.a									
315	316	broken core									
		@ 326.4 same as @ 313.1									
328.3	336	well jointed + fractured ; several grey calcite - chlorite veins									
338	344.6	several grey calcite - chlorite veins parallel to c.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-8 SHEET NO. 9

REMARKS _____

LOGGED BY P. R. Smith

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
346.2	347	very fractured + broken core @ 348.7 light pink calcite vein 1/10" wide ; 1/2" chlorite halos surrounding vein ; 26° to c.a @ 355.9 white calcite vein 3/4" wide ; vuggy with coarse euhedral calcite crystals ; minor blebs of qtz ; stringers of chlorite ; potassic alteration halo ; <1% fine sulfides ; 45° to c.a										
		@ 360.4 irregular white calcite vein ; subparallel to c.a										
		@ 364.6 light pink calcite vein 1/10" wide ; <5% fine dissem cpy + py ; 35° to c.a	97718	<5	364.5	364.9	0.4'			.04		
365.2	370.5	several light pink calcite - qtz veins <1/10" - 1/4" wide ; minor chlorite throughout ; most are about 35° to c.a	97719	<2	373	373.4	0.4'			0.09		
373	376	as above										
378.2	381	several light grey calcite veins <1/10" wide ; most about 45° to c.a @ 381.5 light pink calcite vein 1/5" wide ; 50° to c.a @ 383 as above @ 384.3 grey qtz calcite vein 2/5" wide ; 55° to c.a										
385	389	heavily jointed core										
389	395.3	very badly broken core ; several clay + mud seams core is "waxy" + mildly brecciated @ 495.4 pink calcite vein 3/4" wide ; in altered + brecciated core ; chloritized throughout ; potassic alteration halo ;	97720	<1	494.4	495.1	0.7'			.02		

LANGRIDGES – TORONTO – 368-1168

28M 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 10

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		< 1% very fine sulfides ; 52° to c.a									
395.7	396.8	several pink calcite filled hairline fractures ; many orientations ; potassic alteration throughout									
395.3	403	heavily jointed + fractured core @ 404 grey - white calcite vein 1/10" wide ; 30° to c.a. @ 414 pale green talc? rich seam 1/5" wide : 20° to c.a @ 418.5 grey - white calcite vein 1/5" wide ; heavily chloritized ; < 5% medium - fine subhedral pyrite ; 40° to c.a									
418.9	427.7	several light green talc? seams ; all < 1/10" wide ; most about 40° to c.a									
434	435.5	as above @ 441.9 very irregular light pink qtz - calcite vein ; mildly brecciated ; 2/5" wide ; 30° to c.a.									
443.5	444.5	fractured ; many light green talc rich seams ;									
448	491	medium to fine grained diabase ; moderately silicious relatively unfractured + unbroken core ; several light green talc rich veinlets ; diabase light to dark grey @ 498.5 pink - white calcite - qtz vein 1/2" wide ; heavily chloritized throughout ; < 2% medium subhedral pyrite 38° to c.a	97721	< 2	498.3	498.8	0.5'			TR.	

LANGRIDGES — TORONTO — 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 499 · Several irregular white calcite veins ∠ 1/10" wide @ 501.1 very irregular white - grey - pink calcite - qtz vein 3/4" wide ; mildly brecciated ; minor chlorite blebs throughout ; several potassic alteration haloes ; ∠ 2% fine dissem py. ; 40° to c.a			—	505	?	tr.			
			97722	∠2	501	501.3	0.3'			.02	
508.7	510.8	moderately broken & fractured core			505	515	10	tr			
535	540	as above ; several talc rich seams ∠ 1/16" wide			515	525	10	tr			
549.8	553.6	as above @ 550.8 irregular qtz - white calcite vein 1/2" wide, heavily chloritized ; 42° to c.a			525	535	10	tr			
					535	545	10	tr			
554	556.6	& fractured parallel to c.a			545	555	10	0.02	oz Ag		
563.8	564.8	pink calcite vein ; very irregular shape ; brecciated ; intense potassic alteration surrounding calcite ; chloritized along borders of calcite and as irregular blebs throughout ; < 1% irregular blebs cpy and very fine py			555	565	10	tr			
			97723	∠1	564	565	1.0'			+R	
					565	575	10	0.02	oz Ag		
578.1	581	many very irregular and brecciated white - pink calcite veins ; very heavily spotted with euhedral chlorite throughout ; light yellow to green alteration ; most of the veining is 20° - 30° to c.a. ; ∠ 1% very fine dissem pyrite			575	585	10	tr			
			97724	∠1	579.8	580.8	1.0'			+R.	
581	591.1	green to brown alteration is prevalent ; several very irregular white - pink calcite veins ∠ 1/10" - 1/5" wide									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 12

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		heavily chloritized throughout; also several light green talc? rich seams			585	595	10	tr			
595	601.5	moderately fractured; several talc rich seams ∠ 1/10"			595	605	10	tr			
602.7	603.4	small calcite vein ∠ 1/16" wide; heavily chloritized halo surrounded by beige feldspar? halo; 30° to c.a			605	615	10	tr			
		@ 604.7 light pink calcite vein 1/5" wide; stringers of chlorite within; 33° to c.a			615	625	10	tr			
		@ 605.7 grey calcite vein 1/4" wide; bordered by chlorite; 20° to c.a			625	635	10	tr			
609	615	Several talc seams ∠ 1/16"			635	645	10	tr			
615	621	increased amount of light pink feldspar									
		@ 615.5 several very irregular white to light pink calcite veins ∠ 1/10 - 2/5" wide									
625	626.5	many white to light pink calcite veins 1/8 - 1/5" wide; various orientations; diabase is finer grained with less feldspar									
		@ 627.5 several white calcite veins 1/10" wide; 50° to c.a									
		@ 631.7 pink calcite vein 1/5" wide; 35° to c.a									
		@ 632.9 as above									
		@ 635.4 as above									
		@ 639 talc-white calcite vein 1/4" wide; 55° to c.a									
641.6	644.5	several white calcite veinlets ∠ 1/10 - 1/10" wide; most about 45° to c.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. LENGTH
LOCATION
LATITUDE DEPARTURE
ELEVATION AZIMUTH DIP
STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-8 SHEET NO. 13
REMARKS
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
646.4	650	moderately fractured; several talc + calcite veinlets ∠ 1/10" wide @ 649.3 very irregular pink calcite vein; 1" wide; discontinuous; heavily chloritized; moderate amounts of talc + potassic alteration; 50° to c.a @ 654.6 brecciated talc-white calcite seam 1/4" wide 50° to c.a			645	655	10	tr			
					655	665	10	tr			
					665	675	10	0.02	oz/ty		
					675	685	10	tr			
					685	695	10	tr.			
655	662.8	moderately fractured; many talc rich seams along fractures; ∠ 1/16" wide @ 662.8 talc-whb calcite, qtz vein 1 1/2" wide; minor irregular patches of fine chlorite; trace of very fine sulfides 60° to c.a									
662.9	670	very broken core; moderate potassic alteration throughout many irregular talc seams ∠ 1/16"; heavily chloritized @ 678.6 qtz vein 3/16" wide; ∠ 1% sulfides; an irregular cpy bleb and a small irregular pyrrhotite bleb 35° to c.a									
678	698.5	several small talc rich seams ∠ 1/16" wide; various orientations @ 698.9 pink-white calcite-talc vein 5/8" wide; banded with green talc; mildly brecciated; 45° to c.a @ 707.7 talc rich seam 1/4" wide; minor calcite; 10% anhedral masses cpy + po; 47° to c.a	97715	∠ 10	707.7	708.4	0.7'			.02	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 14

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 708.3 as above
		@ 709.1 as above ; 60° to c.a
		@ 716.2 qtz-chl-talc vein 1.5" wide ; trace of fine dissem. sulfides ; 40° to c.a
		@ 717.9 as above ; 3/4" wide ; 35° to c.a
718	730.5	moderately fractured ; filled with talc seam < 1/16 wide
		@ 726.8 qtz-chl-talc vein 1/4" wide ; < 1/16" fine dissem cpy + py ; 55° to c.a
		@ 727.1 as above
736.8	741	heavily fractured ; many irregular talc-chlorite seams < 1/8" wide ; various orientations
749.8	753	several talc seams < 1/16" wide at about 15° to c.a
755.5	756.3	fractured ; several chlorite-talc rich seams < 1/16" wide
760.2	763	as above
763.2	766.5	several pink-white calcite-talc veins 1/5 - 1/4" wide ; moderate to heavy potassic alteration haloes ; < 2% fine dissem cpy + py in a few of the veins most are about 40° to c.a.
767	769.2	fractured ; several talc rich seams < 1/16" wide ; various orientations

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
		695	705	10	tr			
		705	715	10	tr			
		715	725	10	tr			
		725	735	10	tr			
		735	745	10	tr			
		745	755	10	tr			
		755	765	10	tr			
93726	< 2	764.3	764.7	0.4'			.02	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 15

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
775	779.4	fractured; several talc rich seams ∠ 1/16" wide; various orientations			765	775	10	tr			
781	785	several talc rich seam ∠ 1/16" wide; various orientations			775	785	10	tr			
					785	795	10	tr			
786	787.4	many talc rich seams 1/16 - 1/8" wide; various orientation @ 795 pink calcite vein 1/2" wide; 45° to c.a @ 796 very irregular pink calcite - talc vein 3/4" wide; calcite very discontinuous; talc occurs as irreg. patches; 65° to c.a calcite veins ∠ 1/2 - 1/16 wide			795	805	10	tr			
					805	815	10	tr			
					815	825	10	tr			
796.5	797	broken core									
798	801.7	heavily altered zone; light yellow to green colour; chlorite, talc + potassic alteration pervasive; moderate calcite throughout; many very irregular pink to white calcite veins ∠ 1/16" to 1/2" wide; ∠ 1% fine dissem sulfides in the veins	97727	∠1	798.3	799.3	1.0'			.02	
801.7	810.5	less intensely altered; many very irregular pink to white calcite veins; minor brecciation in the veins; some of the veins run 30° to c.a; others vary; core is light green throughout; many of the calcite veins have borders of apple green talc + red potassic alteration	97728	∠1	803.4	804.4	1.0'			.02	
			97729	∠1	807.9	808.8	1.0'			.02	
810.5	825	diabase cut by several white to pink calcite veins; most about 1/16" wide; various orientations;									

LANGRIDGES — TORONTO ☎ 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 16

REMARKS _____

LOGGED BY R. Cinets

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 818 pink calcite - qtz vein; very irregular; ∠ 1/8" to 1/2" wide; 3/4" chloritized halo surrounding vein and irreg. patches within; 15° to c.a			825	835	10	tr			
					835	845	10	tr			
825	838	altered diabase; green to red colour; many very irregular pink to white calcite veins with green talc + chlorite along edges; veins run at various orientations			845	855	10	tr			
834	835	intense potassic alteration	97730	∠1	834	835	1.0'			.02	
838	842.8	several pink to white calcite veins ∠ 1/8 - 1/5" wide various orientations			855	865	10	tr			
		@ 844.2 pink brecciated calcite vein 1/2" wide; 10° to c.a; trace of fine sulfides			865	875	10	tr			
847.4	848.8	many very irregular pink calcite veins; chloritized along borders; various orientations; barren									
		@ 850.9 irregular pink calcite vein 1/4" wide 27° to c.a									
		@ 851.6 grey brecciated calcite vein 1/8" wide 27° to c.a									
860.3	863	several very irregular pink calcite fractures + veins chloritized along margins; most subparallel to c.a									
864	875	several talc-calcite (white)-qtz-chlorite veinlets; all about 1/8" wide and about 45° to c.a									
		@ 875 talc-calcite vein 1/4" wide; ∠ 5% dissem cpy; 60° to c.a									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-8 SHEET NO. 17

REMARKS _____

LOGGED BY R. Coates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 879.3 pink calcite - chlorite vein 1/4" wide 17° to c.a			875	885	10	tr			
		@ 880. as above 35° to c.a			885	895	10	tr			
884.2	889	many very irregular pink to grey calcite veins; brecciated; chloritized throughout; light green talc along edges of veins; < 3% dissem. cpy + py throughout	97731	<3	886.6	887.6	1.0'			.03	
			97732	<3	887.6	888.6	1.0'			.02	
					895	905	10	tr			
889	901	fractured & heavily jointed; a few talc rich seams < 1/8" wide			905	915	10	.09 oz Ag			
		@ 901.9 talc - white calcite - chlorite vein 3/4" wide; banded; < 1% dissem cpy & py; 30° to c.a; trace of galena?	97733	<1	901.8	902.3	0.5'			.02	
					915	925	10	.02	oz Ag		
		@ 904.3 qtz - white calcite vein 1/2" wide; blood red with potassic alteration; bordered by thin chlorite band; < 1% irregular patches of pyrite;	97734	<1	904.3	904.5	0.2'			TR.	
		@ 906 brecciated talc - white calcite vein 1/2" wide; chloritized; minor potassic alteration; 90° to c.a			925	935	10	tr			
					935	945	10	tr			
		@ 906.9 as at 904.3									
910.9	911.7	several talc - chlorite seams 2-3" wide; 1% coarse euhedral needles of talc; 90° to c.a									
939	943.1	very fine grained diabase; chilled margin									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 13

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
943.1	945	felsic dike; heavily potassic altered; heavily fractured + filled with talc; contact 55° to c.a			945	955	10	tr				
945	957	fine grained diabase; moderately fractured 90° to c.a			955	965	10	tr				
					965	975						
957	997.7	SEDIMENTS			975	985						
		conglomerate to greywacke; a few talc rich seam ∠ 1/16" wide; minor chlorite spotting throughout			—	995	?	tr				
					995	1005	10	tr				
		@ 980.7 talc - white calcite vein 1/4" wide 55° to c.a			1005	1015	10	tr				
		@ 997.7 qtz. epidote vein 1" wide; very irregular bands of qtz + epidote with minor calcite + irregular blebs of potassic alteration; separates sediments + volcanics; 73° to c.a			1015	1025	10	tr				
997.7	1029	VOLCANICS										
997.8	1000.2	andesite										
1000.2	1001	broken core										
1001	1014	porphyritic andesite										
		@ 1001.1 irregular pk. cal - chlorite vein 1/4" wide; 68° to c.a										
1005.5	1007.7	fractured core; parallel to c.a										
1014	1021	andesite breccia; fragments ranging from 1/16" to										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-3 SHEET NO. 1-1

REMARKS _____

LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		Several inches; very angular; all are light red in colour; fine dissem pyrite is scattered throughout; rock is very competent									
1021	1029	rhyolite; < 1% fine dissem pyrite throughout									
EOH	1029										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc
HOLE NO. P-85-9 LENGTH 252 Feet
LOCATION N. Cobalt 25' East 313' South
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH due east DIP -50°
STARTED Oct 30/85 FINISHED Nov 1/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
253	53°	90°			

HOLE NO. P-85-9 SHEET NO. 1
REMARKS _____
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
0	146	OVERBURDEN clay, mud, boulders									
0	152	casing									
146	210	VOLCANICS			146	155	9	0.02 oz Ag			
146	152	diabase dike? - very fine grained; black			155	165	10	tr			
152	154.5	rhyolite; many irreg. fractures + filled with qtz + wt. - pk cal.			165	175	10	tr			
154.5	163.5	diabase dike?; core very fractured + broken in places.			175	185	10	tr			
163.5	186.9	rhyolite; several qtz-cal-filled fractures; fine grained pyrite throughout most of core < 1%; moderately fractured throughout; minor chlorite spotting			185	195	10	tr			
186.9	188.9	mafic dike (lamprophyre?); black + very fine grained contact @ to ca									
188.9	195	rhyolite as in 163.5 - 186.9									
195	196.4	brecciated zone; very broken core; areas of blood red potassic alteration									
196.4	210	andesite; chlorite spotting throughout; specks of pyrite < 1%									
197	198.5	intense chlorite spotting									
198.2	199.2	several pk cal-qtz veinlets < 1/8" wide @ 20° & brecciated pk cal. vein 1/8" wide; 25° to ca									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D 85-9 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cini Jr

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 209.7 brecciated wt cal vein 1" wide; minor pk. calcite; very broken core; 70° to c.a
210		DIABASE
210	230	very fine grained; black; chill margin
		@ 210.2 brecciated pk cal vein 3/16" wide; ∠1% specks pyrite; 35° to c.a
218.4	225.8	many very irregular pk-wt cal-qtz fractures + veins; minor chlorite + talc throughout; moderately fractured + broken core; veins run in various orientations
		@ 222.7 irreg pk. brecciated cal vein 1" wide; barren; 60° to c.a
226	230	several wt calcite veins ∠ 1/8" wide; rimmed by chlorite + talc; various orientations
		moderately fractured diabase
233	236	@ 236.7 wt qtz-cal vein 1/4" wide; fine irreg blebs chlorite; 10° to c.a.
237	241	very broken + fractured core; possible fault zone
241	258	moderately fractured + jointed

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		195	205	10	tr				
		205	215	10	tr				
		215	225	10	0.02				
		225	235	10	tr				
		235	245	10	tr				
		245	255	10	0.03	oz Ag.			
97735	∠1	218.4	219.4				TR		

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 265-1 SHEET NO. 3

REMARKS _____

LOGGED _____

LOGGED BY R. Curtis

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 243 epidote? rich seam 1/4" wide; 40° to c.a; light yellow-green colour			255	265	10	Tr				
248	249	several very irregular pink calcite veins; minor brecciation; trace of fine pyrite; veins < 1/8" to 1/4"; various orientations										
EOH		258										

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc
HOLE NO. P-85-10 LENGTH 430'
LOCATION N. Cobalt 711' W 245' S
LATITUDE DEPARTURE
ELEVATION AZIMUTH -48.5° DIP -50°
STARTED Nov 4/85 FINISHED Nov 6/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
400	44°	48.5			
200	46°	48.5			

HOLE NO. P-85-10 SHEET NO. 1
REMARKS
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	82.5	OVERBURDEN									Au	
0	90	casing			82.5	95	12.5	tr				
82.5		VOLCANICS										
82.5	103	porphyritic rhyolite; fine qtz & feldspar phenocrysts; core heavily fractures; fine to medium pyrite scattered throughout			95	105	10	tr				
		@ 82.7 qtz-pk. cal vein ½" ∠; wide; heavily chloritized; small potassic alteration halo; ∠ 5% fine pyrite in vein and surrounding rock; 30° to c.a	3101	∠5	82.7	83.2	0.5'			.02		
83.4	85.6	several qtz-pink cal veins ½" wide; all 30° to c.a										
		@ 86.9 Very irreg. pk cal vein ¾" wide; heavily chloritized; potassic altered; ∠ 5% fine cubes py + disem cpy	97736	∠5	86.9	87.3	0.4'			.02	✓	
		@ 90.0 small seam rich in sulfides; ∠ 10% fine & medium pyrite (cubes + disem) and disem cpy	3102	∠10	89.6	90.6	1.0'			.08	✓	
		vein at approx 25° to c.a;										
		badly broken core										
		= above										
		= above										
155	158	qtz-pk-cal calcite veins ½ - ¾ wide;										
158	181	into sulfides; mostly disem pyrite also with some pyrrhotite	97737	∠15	101.2	102	0.8'			+R.		

LANGRIDGE

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. B-85-1 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		ass some fine grained specks of magnetite; vein about 40° to c.a			105	115	10	0.02	oz Ag		
103	111	lamprophyre dike; cut by several very irreg. wt-pk cal-qtz veins			115	125	10	tr			
		@ 111 white qtz vein 1" wide; minor irreg blebs pink calcite + chlorite; potassic alteration throughout; 45° to c.a; trace of sulfides			125	135	10	tr			
112	113.2	several very irreg veins as above; ∠1% fine py									
115	120	badly fractured + broken core; several qtz-pink calcite veins ±1/16 - 1/4"; potassic alteration halos; ∠3% fine cubes py throughout									
		@ 122.6 wt qtz vein 3/4" wide; irreg blebs chl. + pk cal throughout; ∠1% fine cubes py; 43° to ca; 5% spec hem.									
		@ 123.2 as above; subparallel to c.a									
125	135	badly broken core									
		@ 126.5 qtz vein as at 122.6; 30° to c.a	3163	∠1	126.5	126.8	0.3'			NIL	
129	132.5	many pieces of qtz-pink calcite vein; appears to be subparallel to c.a; 5% spec hem; ∠2% fine cubes pyrite; irreg. pockets of chlorite 20%									

LANGRIDGE TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D 85-10 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
130	135	many qtz-pink calcite veins; heavily [illegible] altered; < 1% spec hem. < 1% fine pyrite most veins 45° to c.a; veins 1/8 - 1/4" wide; @ 135.4 wt qtz vein 1/2" wide; irreg patches pink cal + chlorite; < 2% spec hem; < 1% fine pyrite			135	145	10	0.02	oz Ag			
					145	155	10	0.02	oz Ag			
					155	165	10	0.02	oz Ag			
					165	175	10	1.49	oz Ag	—		*
					175	185	10	tr				
136.8	166.5	intermediate (andesitic) flow breccia; light grey subrounded fragments < 1/10" - 1" set in black fine grained matrix; many of the fragments contain small black specks (< 1/16") within; core is very competent; fine subhedral - euhedral pyrite cubes are scattered throughout (< 1% - 2%)										
136.2	147.6	several pink calcite veins 1/8" - 1/4" wide; specks of chlorite throughout; most about 45° to c.a										
161	166.5	increased amount of pyrite; very fine cubes + disem. around fragments; also as stringers (1/10" - 1/8" wide) running 55° to c.a; pyrite up to 15%	77758		163.5	164.5	1.0'			.09	Au .036	
165	166	badly broken core										
		@ 166 very irregular pink calcite 1/4" wide; 5% coarse anhedral masses pyrite; 30° to c.a										
166.5	168	porphyritic andesite										
168	181	intermediate flow breccia										

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-10 SHEET NO. 4

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
168.9	170	increased amount of very fine pyrite cubes, and very finely dissem pyrite; several 'hairline' stringers of pyrite ± irregular + discontinuous										
		@ 171 pink calcite vein 1/4" wide; fine specks of chlorite throughout; fragments around vein have noticeable potassic alteration; 27° to c.a.										
		@ 174.3 as above but 1/8" wide; 57° to c.a										
178.5	181	several very irregular + discontinuous qtz-wt calcite veinlets < 1/16" wide; increased amount of pyrite as fine cubes								NIL		
					185	195	10	tr				
181	188.2	andesite										
188.2	193	porphyritic andesite - rhyolite; medium sized euhedral feldspar phenocrysts; yellow-green colour; highly altered										
		@ 189.7 very irreg + discontinuous pink calcite vein < 1/16 - 1/8" wide; intense potassic alteration halo	3134	< 3	189.7	190.2	0.5'			NIL		
		< 3% sulfides - (aspy?)										
					195	205	10	tr				
194	203	highly fractured + broken core - porphyritic rhyolite										
		@ 202.6 — pink calcite-qtz vein 7" wide; vuggy in places; irregular blebs of qtz + chlorite; 10% large euhedral masses of opy as well as finely dissem opy + fy irregular stringers of white calcite throughout; 5° to C.a	17759	< 10	202.6	203.2	0.6'			TR.	Au	133 PPB

LANGRIDGES — TORONTO — 366-1188

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-10 SHEET NO. 5

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
202.8	204	lamprophyre dike ; contact 45° to c.a
		@ 204 pink cal vein 1/2" wide ; speckled with chlorite ; ∠2% fine specks py ; 45° to c.a
204	220	porphyritic rhyolite
210	212	several ± pink calcite veinlets ∠ 1/16" - 1/8" ; heavy potassic alteration ; most about 45° to c.a
220	312	flow breccia intermediate
222.4	224.6	several irregular wt - pk calcite veinlets 1/16 - 1/4" some subparallel to c.a ; stringers of fine pyrite within and along side veins (∠2%)
		@ 233.3 very irreg + discontinuous pink-cal-wt qtz veinlet 1/8" wide , ∠5% spec. hem. ∠2% irreg blebs dissem pyrite and fine cubes
		@ 236.5 wt cal - chl - talc vein 1/2" wide; 50° to c.a ; ∠1% hematite ; trace sulfides
238.6	240	several very irreg. pk cal veins + fractures. ∠1% fine pyrite
243	247	several pink calcite - qtz veins ∠1/16" - 1/2" wide, irreg blebs ankerite - potassic alteration minor ; ∠1% coarse irreg blebs pyrite and fine cubes ; most veins 47° to c.a

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		205	215	10	tr				
		215	225	10	tr				
		225	235	10	tr				
		235	245	10	tr				
3105	∠2	222.7	223.7	1.0'			NIL		
97740	∠2	233.1	233.5	0.4'			.02		

LANGRIDGE – TORONTO – 368-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. B-85-10 SHEET NO. 6

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
247.5	249.5	badly fractured + broken core			245	255	10	0.02	tr Ag		
253.3	256.7	fractured parallel to c.a ; several irreg qtz-pink calcite veins			255	265	10	0.02	tr Ag.		
		@ 267 - pink calcite vein 1/2" wide ; fine bbbs qtz throughout ; fine specks chlorite as well ; trace of fine sulfides ; 27° to c.a			265	275	10	tr			
					275	285	10	tr			
270	291	several pink - white calcite - qtz veins 1/8" - 1/4" wide ; many irreg + discontinuous , most about 45° to c.a ; trace of sulfides throughout			285	295	10	tr			
					295	305	10	0.02	tr Ag		
					305	315	10	0.02	tr Ag		
275	276	grey core									
		@ 29[illegible] vuggy white calcite vein 5/8" wide ; Trace fine sulfides ; irregular shape ; 50° to c.a	3106	<1	291.9	292.5	0.6'			NIL	
295	297	fractured subparallel to c.a									
302	317	several irregular wt calcite veinlets 1/16" wide, vuggy with fine euhedral pyrite cubes in vugs ; also fine specks py dissem throughout ; at 303.7 seam of dissem py 1/4" wide , 54° to c.a [illegible] run in various directions	17741	<3	303.5	304.5	1.0'			.02	
		@ 311 pink calc vein 1/16" wide ; 45° to c.a									
		@ 312 as above									
312	317	[illegible] rhyolite									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
				-	

HOLE NO. P-80-1 SHEET NO. 1

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
317	351	Flow breccia			315	325	10	0.02	tr Ag		
318	318.7	several pink - wt calcite veins; ranging from			325	335	10	0.02	tr Ag		
		thread size to 1/8"; larger ones are vuggy;			335	345	10	tr			
		irreg. shape but generally most are 55° to c.a.									
		∠ 1% dissem pyrite throughout									
318.5	320	increased amount of pyrite as fine cubes +									
		fine disseminated; several pink cal - qtz veins									
320	325	heavily fractured core; several very irreg wt - pk									
		calcite veins; subparallel to c.a and ⊥ to									
		c.a; trace of fine pyrite throughout									
326.6	328.4	increased amount of fine dissem pyrite									
330.3	331	irreg pink calcite vein 1/8" wide; fine chloritic	3107	∠3	330	331	1.0'			NIL	
		specks throughout; fine dissem py + cpy ∠ 3%;									
		cpy + py stringers + breccia around vein									
		and in irreg blebs py									
		7° to c.a									
		@ 334.7 pk - wt cal. vein; very irreg shape;	97742	∠3	334.6	335	0.4'			.02	
		∠ 3% fine specks cpy + py; vein 1/8" - 1/4"									
		wide; fine pyrite in breccia as well									
335.6	343	several light pink irreg calcite veins 1/8" -									
		1/2" wide; ∠ 1% fine pyrite throughout									

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-16 SHEET NO. 5

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
[illegible]		@ 346.[illegible] [illegible] pk cal. vein 1/8" wide; 47° to c.a. ∠ 1% fine pyrite									
		@ 346.7 - pink calcite vein; irregular shape; 1/8" wide; moderate potassic alteration around vein; fine specks chlorite; ∠ 2% fine py in vein and as irreg blebs + cubes around vein; 20° to c.a.	3108	∠2	346.5	347.1	0.6'			NIL	
347.1	349	increased amount of pyrite as fine disseminated blebs and cubes; several irreg pk - wt cal. veins 1/16 - 1/8" wide; moderate potassic alteration throughout	97743	∠2	348	349	1.0'			TR.	
350	351	increased amt of py as fine cubes and coarse irreg blebs of dissem py.			345	355	10	0.02	oz Ag		
					355	365	10	tr			
351	359	porphyritic rhyolite			[illegible]	[illegible]	[illegible]	[illegible]			
		@ 355.6 thread like pink calcite vein; 25° to c.a. potassic alteration halo; trace fine py			[illegible]	[illegible]	[illegible]				
		@ 358.7 very irreg + discontinuous grey qtz vein; minor spec hematite; potassic alteration halo			[illegible]	[illegible]	[illegible]				
		@ 361.2 pink cal. vein 1/8" wide; dotted with chlorite; 55° to c.a.									
361.7	362.2	several very [illegible] thread size cal veins; heavy potassic alteration; ∠ 1% dissem py									

LANGRIDGE TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
C/A		@ 363.6 pink cal vein 1/16" wide; 50° to c.a										
		@ 364.1 as above			365	375	10	tr				
367.5	368.5	several pink cal -qtz veins 1/16" - 1/4" wide moderately potassic altered; all 27° to c.a			375	385	10	0.02	oz Ag.			
370	373.3	many pk. cal -qtz veins 1/16" - 1/2" wide; irreg blebs - chl; moderate potassic alteration ∠1% fine pyrit cubes speckled throughout			385	395	10	0.02	oz Ag.			
		@ 372 very irreg pk cal -qtz vein 5" wide; as described above	3109	∠1	371.6	372.6	1.0'			NIL	Au	
369	383	rhyolite										
383	395.8	porphyritic rhyolite; feldspar phenocrysts mainly										
389.6	395	heavily fractured + broken core; fault?										
395.8	405	rhyolite										
		@ 397.6 irreg pink cal vein 1/16 - 1/8" wide; chloritized along margin; ∠3% irreg blebs py 15° to c.a	97744	∠3	397.6	998.6	1.0'					
398.6	399.4	sheared zone? 20° to c.a; ∠5% stringers parallel to shearing; small sheared fine clots py parallel to stringers in same direction	3110	∠5	398.6	399.4	0.8'			.01	Au	100 PPB

LANGRAY'S – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-5 SHEET NO. 1

REMARKS _____

LOGGED BY R. Cinto

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
405	430	porphyritic rhyolite @ 406.4 pk cal vein 1/16" ; 47° to c.a @ 408.2 as above @ 410.3 pk cal vein 1/16" wide; <3% fine py ; 50° to c.a
411	412	many irreg shaped blebs of potassic alteration @ 414.2 pk cal vein; 1/8" wide ; 35° to c.a
415.5	421	several irreg pk cal veins ; minor sporadic chlorite throughout ; trace of fine sulfides
EOH	430'	

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		395	405	10	Tr				
		405	415	10	tr				
		415	425	10	tr				

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Frotex Res. Inc
HOLE NO. P-85-11 LENGTH 475'
LOCATION N. Cobalt 856 W 222 S
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 48.5° DIP -50°
STARTED Nov 8/85 FINISHED Nov 13/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
470'	43°	42°			
270'	44°	40°			
70'	49°	48			

HOLE NO. P-85-11 SHEET NO. 1 of
REMARKS _____
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
0	30	casing										
0	24	OVERBURDEN										
		VOLCANICS										
24		porphyritic rhyolite; heavily fractured + broken core; fractures irreg + filled with white calcite + qtz; pyrite throughout as fine dissem and + fine subhedral cubes										
		@ 36.2' pink cal-qtz vein 1/4 - 1/2" wide minor chlorite + potassic alteration; 33° to c.a	3111	<2	36.2	36.9	0.7'			0.06		
		<2% py in vein and surrounding rock										
		@ 38.6 pink cal-qtz vein 1/2" wide;										
		stringers dissem py parallel to the vein										
		35° to c.a and dissem throughout rock;										
		minor chl. + potassic alteration in vein;	37745	<10	38.6	39.6	1.0'			0.12	Au	.094
38.8	39.6	several irreg wt-pk cal filled fractures;										
		several py rich seams almost 90° to c.a										
		10% dissem + fine cubes py throughout										

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-11 SHEET NO. 2 of 1

REMARKS _____

LOGGED BY R. Pinto

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
41	54	@ 42 - very irregular pk cal vein 1/2-1/2" wide; intensely chloritized; minor potassic alteration throughout; < 10 % fine dissem to cubes of py; 45° to c.a; py cont nues in wall rock as stringers and dissem throughout for 8" intensely fractured + filled with wt. cal + qtz; vuggy in places; stringers of dissem py < 3%; fault zone?	3112	10	40	41	1.0'			0.15	Au .038	
			97746	<3	46.3	47.3	1.0'			0.11 0.15		
		@ 48.1 pk cal vein 1/4" wide; potassic alteration halo; < 5 % cubes py in vein; minor irreg blebs cal throughout	3113	<5	48	48.4	0.4'			0.04		
		@ 54.5 pink calcite vein 1/2" wide speckled with fine chlorite; 37° to c.a	97747	<3	51.3	52.3	1.0'			0.02		
		@ 60 irreg pink-wht cal - qtz vein 1" wide; minor irreg pockets chl throughout; vuggy < 3% dissem py + cpy; also as cubes in surrounding rock	3114	<3	59.9	60.5	0.6'			0.02		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 82-11 SHEET NO. 3 of 12

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		@ 63.6 - pink cal - chl vein 1/8" wide 55° to c.a										
65	67.4	several irreg blebs dissem py										
68	70.5	many light pink calcite filled fractures; vuggy in places; ∠1% fine to medium pyrite; fine chlorite spotting well defined	97748	∠1	68.4	69.4	1.0'			0.04		
		@ 71.6 - very irreg grey brecciated calcite vein; minor pink calcite; intense potassic alteration halo; vein ½" wide; ∠3% dissem to fine py	3115	∠3	71.5	71.8	0.3'			0.15		
75	79	broken core										
75	76.5	very irreg grey-wt cal - chl - talc vein subparallel to c.a; irreg pk cal blebs; moderate potassic alteration; brecciated; vein ¼ - ½" wide; ∠1% fine py	97749	∠1	75.5	76.5	1.0'			TR.		
76.5	88	fractured + filled with irreg vein of white - pink calcite + qtz; veins hairline size ∠2% fine py throughout										
		@ 79. very irreg cal - chl - talc vein 3/4" wide; minor potassic alt; ∠2% fine py										

120
150
140
130
250

LANGRIDGE – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 0-85-11 SHEET NO. 4 of 12

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 80 pink cal. -qtz- chl vein 3/16" wide 63° to C.a									
		@ 80.4 very irreg + discontinuous pink calcite vein; irreg qtz blebs throughout; 1/4" wide then pinches out; chlorite along margin; <3% subhedral py cubes;	3116	<3	80.3	81	0.7'			0.01	
		@ 81 irreg pk cal -vein; specks of chl throughout; 1/16 - 1/8" wide; <2% fine py in vein + surrounding rock; 30° to C.a	97750	<2	81	81.7	0.7'			TR.	
		@ 82.1 as above; 60° to C.a								TR	
		@ 86 irreg qtz- pk cal vein 3/4" - 1" wide chloritized margin; <1% dissem cpy, 30° to C.a									
		@ 87.7 pink cal -qtz vein 1/4 - 1/2" wide; subparallel to C.a; many irreg large patches chlorite; 5% irreg patches dissem py; <1% needles spec hem.	3117	<5	87.7	88.4	0.7'			0.03	
92	94.5	several pink cal -chl veins 1/16" wide; <1% py									
		@ 97.4 brecciated light pink calcite vein 1/2" wide; 30° to C.a; bordered by grey qtz									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. [illegible] SHEET NO. 2 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		vein ; very irregular from 97.5 - 98.5, irreg patches pk. cal + chlorite throughout ; < 5% very fine py cubes ;	97751	< 5	97.4	98.4	1.0'			0.04	Au	
102	103	badly broken core										
		@ 103.4 pyrite rich seam < 1/16" wide ; subparallel to c.a ; < 5% py										
		@ 107 pk cal vein 1/8" wide ; 33° to c.a										
		@ 110 pk cal - qtz vein 1/2" wide ; 35° to c.a ; irreg patches chl throughout ; < 1% cpy + py	3118	< 1	109.9	110.3	0.4'			tr.		
		@ 111.8 pk cal vein 1/16" wide ; 35° to c.a										
		@ 116 as above										
		@ 116.1 as above										
119	124.5	fractured + filled with several wt - pk calcite veins ; intense potassic alteration throughout veins ; < 1% fine - disem py										
		@ 126 py rich seam 1/16" wide - discontinuous 32° to c.a										
		@ 126.5 irreg pk cal vein 1/8" wide ; < 2% fine py in surrounding rhyolite ; 50° to c.a										

LANGRIDGES – TORONTO – 366-1168

RM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P85-1 SHEET NO. 5 of 12

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
126.2	128.3	fractured + broken core; many hairline qtz-cal stringers; < 3% fine py cubes scattered throughout										
		@ 128.8 very irreg vuggy pk-wt. cal vein 1/8" wide; many irreg specks of chl. < 1% fine py cubes; 68° to c.a										
		@ 138.1 irreg wt cal vein 1/16" wide 36° to c.a										
		@ 148.1 irreg pk-wt cal vein 1/8 - 1/4" wide; specks of chlorite throughout; fine qtz blebs; < 1% fine py; 15° to c.a										
		@ 154.2 pk cal vein 3/16" wide; speckled with chl; 25° to c.a										
		@ 154.8 vuggy wt cal. vein 1/4" wide; euhedral calcite crystals; < 2% fine py cubes along calcite vugs; 30° to c.a	77752	< 2	154.8	155.2	0.4'			TR.		
156.8	161.2	many irreg pk-wt cal. filled fractures; pervasive chlorite throughout; < 3% fine cubes + disseminated py throughout	77753	< 3	156.8	157.8	1.0'			0.01		
		@ 162 - brecciated grey cal. vein 1/2" wide; 45° to c.a										

LANGRIDGES — TORONTO — 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Fenton

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. R85-11 SHEET NO. 7 of

REMARKS _____

LOGGED BY R Carter

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
162	173	rhyolite @ 171.7 very irreg pk - wt cal - qtz vein 1.5" wide; vuggy in places with euhedral calcite crystals; irreg chl. patches in, and surrounding vein; < 1% fine py									
173	177	porphyritic rhyolite with deep red phenocrysts								0.03	
177	250.6	rhyolite @ 178 - 4" core missing @ 183.4 - 4" " " @ 187.8 4" " " @ 192.5 4" " " } end of core bar broke open @ 181 pink cal vein 1/2" wide; speck of chl; 40° to C.a									
190.4	206	several irreg. pk - wt cal veins < 1/16" - 1/8"; various orientations									
225	229	heavily fractured core @ 231.4 wt cal vein 1/16" wide; < 1% fine pyrite, 55° to C.a									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. R85-11 SHEET NO. 8 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
234	235	badly broken core ; large irreg. bleb cpy among broken core									
237.6	239.2	jointed subparallel to c.a.									
242	246	fractured & jointed ; several potassic altered calcite veins ∠ 1/16" wide									
250.6	252.6	Flow breccia? ; speckled with fine py ∠ 5% around fragments @ 250.6 vuggy white calcite vein 1/4" wide. 45° to c.a	27153	∠5	250.6	251.6	1.0'			0.02	
252.6	256.8	porphyritic rhyolite @ 256.8 pk cal-qtz vein 1/2 - 3/4" wide ; stringers & irreg. blebs chlorite ; potassic altered mfs. ∠3% blebs cpy & fine py	31??	∠3	256.7	260	0.3'			0.06	
256.8	259	lamprophyre									
259	269	porphyritic rhyolite @ 260.6 pk cal vein 1/8" wide ; 35° to c.a									
265.6	267	badly fractured core									
269	305	mafic to intermediate flow breccia @ 270.8 irreg pk cal vein 1/8" wide ; 35° to c.a @ 273.4 as above									

LANGRIDGES – TORONTO – 366-1168

ORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. F-85-11 SHEET NO. 9 of

REMARKS _____

LOGGED BY R. Cini's

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 276.8 very irreg pk cal vein 2 1/2" wide; heavily chloritized; minor bbles qtz; ∠ 1% fine specks py + cpy; 45° to c.a.	27754	∠1	276.7	277.1	0.4'			TR.	
		@ 278.6 brecciated pk cal seam 3/4" - 1" wide trace of sulfides; 35° to c.a.									
		@ 292 pk cal vein 1/4" wide; specks of chlorite; 45° to c.a.									
294	300	increased - amount of fine; subhedral pyrite cubes (3%)									
302.6	305	heavily fractured + broken core									
305	328.4	porphyritic rhyolite; heavily fractured + broken core many irregular pk- wt calcite filled fractures; range from hairline to 1/4"; intense potassic alteration throughout; ∠1% fine to medium subhedral py throughout	3121	∠1	316.2	317.2	1.0'			NIL	
328.4		mafic - intermediate flow breccia; ∠1% py throughout									
		@ 334.2 very irreg wt cal vein 1/2" wide, mildly brecciated; about 50° to c.a; trace of sulfides									
336	339	moderately fractured; increase in fine pyrite (5%)									

LANGRIDGES — TORONTO — 366-1168

DRM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-11 SHEET NO. 10 of 1

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 338.5 pk to wt cal. vein 1/8" wide; irreg shape; 30° to c.a									
340.7	342.2	several wt cal veins 1/8" wide; 40° to c.a									
		@ 348.9 as above									
		@ 351 as above									
		@ 36[illegible] irreg pk cal-/+ qtz vein - 1/16 - 1/8" wide 40° c.a									
		@ 464.8 as above; 1/8 - 1/4" wide									
		@ 372.4 as above									
381	390	several irreg. wt - pk cal veins 1/16" - 1/8" wide									
		@ 394.6 wt cal vein 3/16" wide 65° to c.a									
		@ 395 pk cal vein 1/8" wide; 52° to c.a									
396	405	several white calcite - qtz veins 1/16 - 1/8" wide 60° to c.a									
405	409.3	many irreg wt - pk cal stringers +/- veins < 1/16" - 1/8" ; increased amt of very fine py disem throughout (3%)									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-11 SHEET NO. 11 of 12

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ - very irreg brecciated grey - pink cal 1/4 - 1/2" wide ; 15° to c.a ; minor amts potassic alteration along vein ; trace of										
413.5	417	increased amt of fine dissem py (3%) several pk cal. veins 1/8" wide @ 45° to c.a @419.1 pk cal vein 1/8" wide ; 45° to c.a ; @420.3 as above @420.7 as above @422.6 as above @ 425.4 as above @ 425.8 wt cal vein 1/8" wide ; 45° to c.a	27755	3%	413.7	414.7	1.0'			TR.		
										0.10		
425.8	434	heavily fractured & broken core										
434	435	1 foot - core ground										
2441.5	449	very broken core ; heavily fractured ; clotted with 1 to 5% fine pyrite (fault zone?) @ 441.5 very irreg pk cal vein 1/8 - 1/2" wide 62° to c.a										
441.6	442.5	increased amount of stringers of fine py at about 55° to c.a ; 5% sulphides ; irreg grey ppt stringers parallel stringers ;	3122	5	441.5	442.5	1.0'			0.11	Au	10
			27756	4	446	447	1.0'			TR	Au	

LANGRIDGES — TORONTO — 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 0-85-11 SHEET NO. 2 of

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 459.2 irreg wt Cal vein 1/2" wide; vuggy with euhedral calcite crystals; minor red hematite; trace of sulfides; 50° to c.a
463	470	heavily fractured + broken core
		@ 465.5 2 pink cal veins 1/4 - 1/8" wide; speckled with chl. 40° to c.a
		@ 468.7 increased amt of fine dissem py (8%) over 2"; irreg pk cal blebs; stringers of py at 90° to c.a; minor irreg cpy blebs
		@ 472.3 light pink cal. vein 1/4" wide; dotted with chlorite; 30° to c.a
EOH	475	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
3113	<8	468.7	468.9	0.2'			0.10	

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY Bretton Res Inc.

HOLE NO. P-85-11 LENGTH

LOCATION

LATITUDE DEPARTURE

ELEVATION AZIMUTH DIP

STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-11 SHEET NO. 1

REMARKS RESAMPLE

LOGGED BY LWOP

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
36.9			#2 88436		36.9	38.6	1.7'			0.07	
			#3 88437		39.6	40	.4'			0.08	
		NOTE SAMPLE #3112 NOT @ 40-41 BUT (41-42)									

LANGRIDGE — TORONTO — 366-1168

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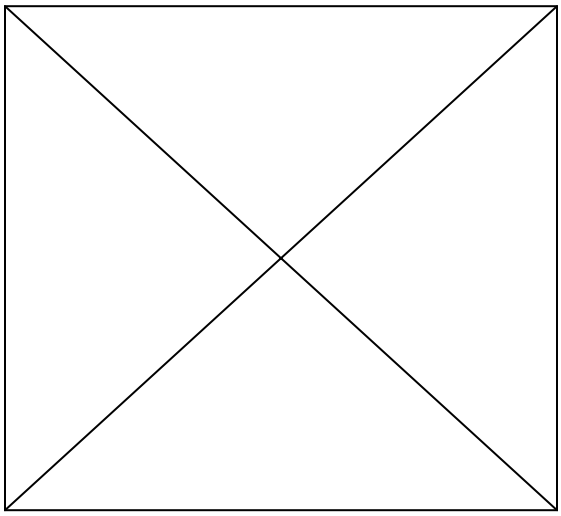

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. _____ SHEET NO. _____

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
60.7	63	distinct to intense chlorite sparsing ; several distinct to intense chlorite sparsing ; several medium sized euhedral feldspar phenocrysts ;									
63	66.5	@ 66. thread like wt cal vein subparallel to c.a									
69	107	banded siltstone + mudstone ; layers 1/16" to 1" wide ; most banding 50° to c.a									
		@ 72.3 wt cal vein 1/8" wide ; 25° to c.a									
		@ 74.8 as above ; 1/16" wide ; 35° to c.a									
76	77.5	fractured - broken core ; several irreg. wt cal veins 1/16" - 1/8"									
		@ 91.7 very irreg wt. cal vein 1/16 - 1/8" wide ; 20° to c.a									
		@ 100.9 light pink brecciated cals, vein 1" wide ; barren , 45° to c.a									
101	101.8	several light pink cal. veins ; fractured along vein planes ; <2% disem py along surfaces	3134	<2	100.9	101.8	0.9'			Nil	
105.7	113	many irreg wt cal. fractures + veinlets ; various orientations @ 105.7 wt - 3/4" brecciated cal. vein 1" wide 45° to c.a ; barren .									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-93-12 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
10.7		Silt[illegible] - with occaisonal mudstone bands ∠ 1/16" - 1/8" wide										
111	115	moderate chlorite spotting @ 116.3 very irreg. white cal. vein 1/16 - 1/4" wide; mildly brecciated; subparallel to c.a										
118.6	119	ground core										
119.6	120.6	several irreg thread-like wt. cal stringers. various orientations										
121	126	pronounced chlorite spotting										
127	130	moderately fractured along several wt cal. veins ∠ 1/16" wide; various orientations @ 134 wt cal vein 1/16" wide; subparallel to c.a										
135	136	badly ground + broken core										
140	147	as above										
140	167.9	greywacke to pebbly wacke										
153	155	ground core; very broken @ 159.3 wt. cal vein 1/8" wide; 15° to c.a										
164.5	167.2	pronounced irreg blebs of potassic alteration										

LANGRIDGES – TORONTO – 368-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 85-12 SHEET NO. 4

REMARKS _____

LOGGED BY R. Coates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
167.9	170.4	conglomerate									
170.4	171.8	greywacke									
171.8	178	banded mud stone - siltstone ; many irregular hairline wt. cal fractures + veins ; banding 55° to c.a									
178	201.5	greywacke to pebbly wacke to siltstone									
181.3	183	many irreg. blebs - potassic alteration									
187.6	188.6	as above									
193	194.5	chlorite + potassium spotting									
201	202	minor chlorite spotting									
206.7	209	as above									
214	216.3	as above									
221.3	225	as above									
233.2	242	brecciated zone ; many very irreg brecciated wt cal cemented veins ; vuggy : <1% very fine euhedral - subhedral pyrite cubes in vuggs; pyrite tarnished green - pink in places @ 234.5 wt vuggy calcite vein ½" wide ; 15° to c.a ; trace of fine py.	97758	<1	240.2	241.2	1.0'			tr.	
			3125	<1	241.2	242.2	1.0'			Nil	
242	254	heavily fractured greywacke to coarse siltstone ; many very irreg wt cal fractures + veinlets <1/16" - 1/2"									

LANGMUDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. DDH 5 SHEET NO. 5

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
254	255	brecciated zone ; vuggy with ~2% fine euhedral pyrite cubes in wt. to grey calcite cement some blue + pink tarnish py??
255	257	heavily fractured ; several irreg. wt. cal veins various orientations
257	259	brecciated zone ; as above brecciated zones
259	270.5	heavily fractured zone ; many irreg. brecciated wt cal. veins and small wt. cal veinlets trace of sulfides (fine py) in vuggy wt. cal veins ; various orientations
270.5	271.5	ground + broken core
271.5	276.5	fine grained greywacke to siltstone ; several wt. to pk cal veins ∠1/16" to 1/2" ; various orientations
276.5	291	brecciated zone ; intensely brecciated + broken core ; wt. cal cement throughout ; vuggy ; areas of moderate potassic alteration surrounding calcite ; ∠1% fine euhedral to subhedral py cubes throughout ; some py tarnished green to pink ;
291	301.5	mildly to moderately fractured greywacke ; several irreg. wt. cal. veinlets + fractures ; various orientations ; minor chlorite spotting throughout

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
97759	∠2	254	255	1.0'			0.02		
3126	∠1	257	258	1.0'			0.01		
97760	∠1	276.9	277.9	1.0'			0.03	Au	
3127	∠1	290	291	1.0'			Nil Ag	10 ppb	Au
97761	∠1	283.5	284.5	1.0'			0.03		

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D-05-12 SHEET NO. 6

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		@ 301.1 very irreg wt cal vein ∠ 1/16" to 1/4" wide; barren										
301	475	VOLCANICS										
301		quartz rhyolite porphyry; moderately fractured										
301.5		@ 301.5 irreg wt - pk cal. vein; intense potassic alteration; vein extends into sediments as well										
302	303	broken core										
302		many pk - wt cal. veins; various orientations; irreg speck + patches of pyrite (∠ 1%) in veinlets + in rhyolite; blebs of potassic alteration throughout										
		@ 306.5 very irreg pk - wt cal - qtz vein 3/4" wide; ∠ 5% irreg blebs py + fine subhedral cubes; moderately potassic altered stringers of chlorite throughout; 15° to c.a	3122	∠ 5	306.5	307.5	1.0'			Nil Ag	50 ppb Au	
		@ 309.1 pk cal. vein 1/8" wide; ∠ 3% anhedral masses of py in surrounding rock; 20° to c.a	97762	∠ 3	309.1	309.5	0.4'			0.04		
312.4	314	heavily fractured; many pk cal. veins in various orientations. ∠ 3% py subhedral cubes throughout; minor	3129	∠ 3	312.4	313.4	1.0'			Nil		

LANGRIDGE – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-12 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
315	322	heavily fractured + broken core ; several irreg. pk- wt. cal veins 1/16" - 1/8" ; several irreg blebs py ∠ 2% ; also py as fine subhedral cubes	97763	∠ 2	320.5	321.5	1.0'			.003	.054	—
322	325	several irreg coarse blebs disseminated py ; occur as irreg, discontinuous stringers ; many chlorite rich stringers parallel to these ; several pk cal veins 1/16" wide ; 15° to c.a ; ∠ 3 % sulfides @ 327.3 smoky wt. qtz vein 1/4" wide ; ∠ 1% irreg blebs cpy ; 70° to c.a.	3130	∠ 3	323	324	1.0'			Nil Ag	250 ppb Au	
327.4	328.7	many irreg pk cal fractures ; broken + fractured core										
328.7	331.2	lamprophyre @ 329 irreg pk cal. vein 1/8 - 1/4" wide ; 40° to c.a										
331.2	332.4	porphyritic rhyolite										
332.4	333.8	lamprophyre										
333.8	363.2	porphyritic rhyolite (quartz)										
335	335.5	broken + ground core @ 3365 qtz vein 1/8" wide ; irreg blebs pk cal + chlorite ; 32° to c.a @ 338.1 as above ; ∠ 2% cpy @ 339.8 as above										

LANGRIDGE – TORONTO – 366-1168

ORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. B-85-12 SHEET NO. 2

REMARKS _____

LOGGED BY R. Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		@ 340.6 - chloritic rich vein 1/8" wide; < 5% fine to medium subhedral masses + cubes py ; 17° to c.a									
340.7	347.5	several qtz-pk cal veins 1/8 - 1/4" wide; heavily chloritized as irreg patches ; most have 1-3% py + cpy ; various orientations ; moderate potassic alteration around pk. cal. @ 341.5 as above 1" wide : < 1% py cubes ; 30° to c.a	97764	<1	341.4	341.8	0.4'			TR.	Au
347.6	348.1	several very irreg. brecciated pk cal fractures + veinlets ; vuggy ; trace of very fine py ; @ 349 grey calcb vein 1/4 - 1/2" wide; subparallel to c.a ; minor brecciation ; barren									
350	354	brecciated zone ; heavy broken core ; many irreg pk wt cal fractures + veins ; trace of fine py ; minor potassic alteration	31311	<1	352.5	353.1	0.6'			N.I	
354	355	heavily fractured core									
355	362	moderately fractured ; many very irreg wt to pk calcb + filled fractures + veinlets in various orientations ; vuggy in places ; 2 main vein directions - approx perpendic									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-93-12 SHEET NO. 9

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		to ca. + subparallel to c.a;										
360.6	361.6	several irreg + discontinuous stringers of medium to fine subhedral + anhedral pyrite cubes; trace of cpy; <2% sulfides								TR		
363.2	368.3	rhyolite										
363.2	365	several irreg + discontinuous pk cal veins - gash veins up to 1/4" wide; several epidote-chl. rich seams as well <1/16" wide.										
367.5	368.3	moderately fractured; several cal. (whit) filled fractures; several irreg - discontinuous py rich seams <1/16" wide; <2% sulfides; also fine anhedral py in the calcite veins; stringers of chlorite throughout <1/16" wide;	3132	<2	367.5	368.3	0.8'			Nil Ag	80 ppb	Au
368.3	374.4	diabase dike; several very irreg + discontinuous wt. - pk cal veins 1/16 - 1/4 wide;	3137	<1	372.7	373.7	1.0'			0.01		
		@ 373.8 very heavily chloritized; irreg to 33° c.a intense potassic alteration around vein; <2% very fine py and cpy; <2% fine subhedral galena	97766	<5	373.8	374.4	0.6'			0.17	45	
			97771	<5	374.4	375.4	1.0'			0.11		
374.4	377	porphyritic rhyolite - stringers of <5% medium - fine subhedral py & cpy, mt; chloritized										
377	378.2	lamprophyre										
378.2	395	porphyritic rhyolite										

LANGRIDGE TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 9-55-12 SHEET NO. 10

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
378.2	381	several pk cal - qtz veins ∠ 1/16" - 1/4" wide; all about 65° to c.a; ∠ 2% cpy + py	97772	∠2	378.3	379.0	0.7'			.002	
395	402.8	rhyolite; rare small qtz phenocrysts;									
397.8	398.1	several "smokey" qtz veins 1/8 - 1/4" wide; irreg patches pk. cal + chlorite; ∠ 1% fine dissem py + cpy; 75° to c.a									
400.9	401.5	several qtz - pk cal veins 1/8 - 1/4" wide; speckled with fine chlorite; 55° to c.a									
402.8	413	porphyritic rhyolite									
403.3	403.9	as above; moderately potassic altered									
		@ 405.4 as above									
		@ 409.6 as above									
		@ 410.2 as above but 3/4" - 1" wide; vuggy 25° to c.a; ∠ 1% cubes of py	3133	∠1	410.2	410.6	0.4'			Nil	
411	411.5	many qtz - pk cal veins; intense potassic alteration; specks + patches of chlorite; pk. cal is vuggy; ∠ 1% fine py; veins 1/2 to 1/2" wide 70° to c.a	97757	∠1	411	411.5	0.5'			TR.	
413		rhyolite									

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-55-12 SHEET NO. 11

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
420.7	425	many very irreg wt. cal filled fractures + veins; vuggy + brecciated in places; minor sericitic alteration throughout; < 1% very fine pyrite cubes	3134	<1	422	423	1.0'			Nil	
425	428	brecciated zone wt - pk calcite cement <1% sphalerite, galena, ± possible arsenides ; < 1% very fine py cubes; calcite is vuggy in places; minor chlorite throughout	97768	<3	425	426	1.0'			tr.	
428	434	highly fractured; many very irregular wt - pk vuggy cal. fractures + veins; some veins have < 1% medium to fine subhedral pyrite cubes	3135	<1	430	431	1.0'			tr	
434	442.7	brecciated zone; as at 425 - 428 @ 441.5 several coarse anhedral masses of py in a wt. calcite vein, subparallel to c.a.; trace of cpy.	97769	<1	435	436	1.0'			0.02	
			3136	<1	437.4	438.4	1.0'			0.01	
			97770	<2	441.2	442.2	1.0'			0.02	
442.7	456.7	rhyolite; moderately fractured; many wt. to pk irreg calcite veins; most subparallel to c.a.; vuggy with traces of fine py; several epidote-chlorite rich seams < 1/16" wide									
456.7	462.2	rhyolite; cut by many irreg epidote-rich seams < 1/16" wide									

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. AP5-12 SHEET NO. 12

REMARKS _____

LOGGED BY R. Crits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
462.2	464	lamprophyre
464	475	rhyolite; several irreg. wt. to pk calcite veins ∠ 1/16" - 1/8" wide; several epidote-chl rich seams ∠ 1/16" wide
EOH	475'	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY ROTROS RES INC.

HOLE NO. P-85-12 LENGTH

LOCATION

LATITUDE DEPARTURE

ELEVATION AZIMUTH DIP

STARTED FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-12 SHEET NO. 1

REMARKS RESAMPLE

LOGGED BY WDP

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		RE: 276.9 277.9 ASSAY RESULTS.										
		BOX HAS ALREADY BEEN RESAMPLED.										

LANGRIDGE TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc
HOLE NO. P-85-13 LENGTH 435'
LOCATION N. Cobalt 0+298 North 0+002 East
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 025° DIP -45°
STARTED Nov 21 FINISHED Nov 23

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
430	44°	12°			
230	47°	26°			

HOLE NO. P-85-13 SHEET NO. 1
REMARKS _____
LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	12	casing
0	10	OVERBURDEN
10		SEDIMENTS
10	57	greywacke ; very heavily jointed + broken core ; jointed surfaces are rusted ; pronounced chlorite spotting throughout
57	77.5	banded argillite ; light green fine grain mud banded with darker, coarser grained silt ; layered at about 55° to c.a ; banding ∠ 1/16" - 1" core heavily jointed + fractured
65	69	Several very irreg wt. cal. veins + fractures ∠ 1/16" wide ; various orientations ; vuggy in places
		@ 76.3 wt. cal. vein 1/4" wide ; 35° to c.a ; ∠ 1% specks fine py :
		@ 76.9 as above
77.5	83	pebbly wacke
		@ 78.5 wt cal vein 1/8" wide ; 27° to c.a

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
		25	35	10	tr			
		35	45	10	tr			
		45	55	10	tr			
		55	65	10	tr			
		65	75	10	tr			
		75	85	10	tr			
97773	∠1	76.3	77.1	0.8' WW			TR.	

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 2

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
83	89.5	Conglomerate			85	95	10	tr			
86.7	89	several irreg wt. cal veins 1/16" - 1/2" most about 35° to c.a; vuggy in trace of fine sulfides.			95	105	10	tr			
					105	115	10	tr			
					115	125	10	tr			
90	91	very broken core; fragments of brecciated wt. cal veins; trace of sulfides									
89.5	97	siltstone; moderately jointed & fractured; several irreg wt. cal. veins; various orientations; minor chlorite spotting									
97	104	conglomerate; fractured & broken core, several wt. cal veinlets < 1/16" wide									
100	101	pronounced chlorite spotting									
104	"	Conglomerate									
		@110.3 pk cal. vein < 1/16" wide; 52° to c.a									
120.5	121.3	broken core; several fragments of pk cal. vein 1/16" - 1/8" wide;									
121.6	122	several brecciated grey to wt. cal. seams 1/4" - 1/2" wide; < 1% very fine speck py, cpy; minor potassic alteration; 40° to c.a	3138	<1	121.6	122	.4'			N.I	

LANGRIDGES – TORONTO – 368-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D-05-13 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
122.2	125.7	several irreg wt. grey cal. veins ∠ 1/16" to 1/8" wide
129.4	140	many irreg blebs of blood red hematite; @ 130.8 fracture with ∠ 3% cpy + bright red hematite; 45° to c.a
		@ 137 very irreg pk cal vein 1/16" - 1/4" wide; sub parallel to c.a; core is also fractured parallel to c.a
145.6	160	brecciated zone many wt. calcite - qtz filled fractures + veins; vuggy in places occurs at sediment - volcanic contact; ∠ 3% very fine specks py throughout; also cpy and sphalerite ∠ 1%
146.8	147.8	intense chlorite spotting; light brown irreg. patches
		@ 147.6 brecciated wt. cal - qtz vein 1/4" wide ∠ 20% coarse anhedral cpy blebs; also py and possibly arsenides? 30° to c.a
		@ 147.9 as above; 15° to c.a
		@ 148.7 2% sphalerite in vuggy calcite

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		125	135	10	tr				
97704		130.7	131	0.3'			TR.		
		135	145	10	tr				
3139	∠1	145.8	146.8	1.0'			Nil		
97705	∠3	146.8	147.8	1.0'			TR	52	
3140	∠5	147.8	148.8	1.0'			Nil Ag	Nil Au	

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 4

REMARKS _____

LOGGED BY R. Smith

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
149		VOLCANICS			145	155	10	tr				
149	160	brecciated rhyolite; many white calcite - qtz veins + fractures; very irreg; speckled with 3% fine py; potassic alteration around most calcite	97776	<3	149.5	150.5	1.0'			TR	29	
			3141	<3	150.5	151.5	1.0'			Nil Ag	1200 ppb	Au
			97777	<3	151.8	152.8	1.0'			TR.		
160	165.7	rhyolite; moderately fractured; talc along fracture faces; dotted with <3% fine py; several cal-qtz veinlets;	3142	<3	158.1	159.1	1.0'			Missing		
164	164.4	intense potassic alteration around several hairline calcite veinlets; <5% subhedral fine py; 30° to c.a	97778	<5	164	164.4	0.4'			TR		
					155	165	10	tr				
165.7	166.8	qtz porphyry; intense potassic alteration			165	175	10	tr				
					175	185	10	tr				
166.8	175.4	andesite										
166.8	171	many irreg. hairline epidote stringers; s.										
172.5	173.5	increased amt of fine subhedral py; several irreg cal stringers @ 173.3 qtz vein 1/4" wide; dotted with <5% py; 65° to c.a	3143	<5	172.5	173.5	1.0'			Nil		
175.4	179	qtz porphyry; several qtz-cal stringers with intense potassic altered haloes										

LANGFORDES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 5

REMARKS _____

LOGGED BY R Cini

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
179	234.6	andesite
179	188	pronounced chlorite spotting
183.5	184.3	altered + brecciated zone ; several irreg cal-tale - chlorite seams ; intense potassic alteration; @ 188.9 wt cal vein 1/8" wide ; 35° to c.a
190.2	195	Several very irreg light pink cal. veins 1/16" to 1/8" wide ; intense potassic alteration; several epidote rich seams ; as well very irreg shaped @ 194.5 pk cal - qtz - epidote vein 3/8" wide 60° to c.a
206.7	213	as at 190.2 - 195
216	222	Several wt - light pk cal. vein ∠ 1/16" wide @ 219.3 ; Wt. cal vein 1/8 - 1/4" wide; potassic altered halo ; 42° to c.a
		@225.7 qtz - epidote rich vein 1/2" wide; Several irreg blebs pk cal. ; stringers of chl. ; 80° to c.a
226.2	227	increasing potassic alteration @ 226.6 pink cal. - qtz vein 1/2" wide; ∠1% py + cpy ; 50° to c.a

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		185	195	10	tr			
		195	205	10	tr			
		205	215	10	tr			
		215	225	10	tr			
		225	235	10	tr			
		[illegible]	[illegible]	[illegible]	[illegible]			
97779	∠1	229.5	225.7	0.2'			tr.	

LANGRIDGES – TORONTO – 366-1168

RM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 6

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
7		@ 233.5 pk cal vein 1/16" wide 30° to c.a										
234.6	236.5	qtz-feldspar porphyry ; feldspar phenocrysts altered light green -	3144	<1	236.1	236.6	0.5'			Nil		
					235	245	10	tr				
236.1	2366	intense potassic alteration ; several epidote rich stringers ; qtz vein 1/4" wide 60° to c.a			245	255	10	0.02	oz Ag			
					255	265	10	tr.		.02		
236.5	268.4	andesite										
237	245	several light pk cal + epidote veins < 1/16" wide										
		@ 246.2 pk cal vein < 1/16" wide ; intense potassic altered halo 1" wide										
		@ 246.6 - irreg light pk cal vein 1/16" - 1/8" wide										
		@ 251 irreg - epidote - chl. seam with intense potassic alteration halo ;										
255	258	increased amount of py as fine cubes and in stringers < 1/16" wide ; several pk. cal - chl - epidote veins with up to 20% py in them ; several magnetite rich seams as well < 1/16" to 1/8" wide ;	97788	<5	256.5	2575	1.0'			TR	22	

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cates

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		@ 261.9 several pk cal - epidote veins 1/8" wide; intense potassic alteration around; heavily chloritized; 50° to c.a; ∠1% fine py			265	275	10	tr				
					275	285	10	.02 oz	Ag.			
					285	295	10	.02 oz	Ag.			
		@ 263.1 - pk cal vein 1/8" wide; 45° to c.a										
264	268	increased amt of py; several pk cal-epidote-chl veins as in 255-258; most veins 50° to c.a	3153	∠3	264	265	1.0'			tr		
										0.02		
268.4	309	porphyritic rhyolite	97789	∠3	265.8	266.4	0.6'					
										0.01	20 ppb	Au
268.8		several irreg pk to wt cal veins 1/16" to 1/8"; most with minor qtz, epidote + chlorite;	3154	∠3	266.8	267.8	1.0'					
		∠1% fine py speckled throughout core			295	305	10	0.02 oz	Ag			
		@ 285.8 wt vuggy cal vein 1/8" wide 30° to c.a.										
		@ 294.8 pk cal vein 1/8" wide; 40° to c.a										
		@ 299 very irreg qtz-chl vein 1" wide; ∠5% anhedral py cubes; ∠2% magnetite										
		40° to c.a; minor pink calcite;	97790	∠3	298.9	299.5	0.6'			TR.		
305	305.5	intense potassic alteration around several hairline pk cal fractures										

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. A85-3 SHEET NO. 8

REMARKS _____

LOGGED BY R Smith

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
309		rhyolite ; with occasional porphyritic sections
314		several pk -wt cal veins 1/16" wide; specks of py throughout core < 1%
		@ 323.1 wt + pk cal vein 1/8 - 1/4" wide; 90° to c.a
		@ 324.6 pk cal vein 1/4" wide ; chloritized border; < 1% fine sulfides ; 20° to c.a
326	330	moderately fractured core.
338.4	345	many very irreg wt cal - chlorite fracture + veins ; one pk cal vein at 339. < 1% fine py in veins ; < 1/16" wide various orientations
		@ 345.6 irreg pk cal vein 1/8 - 1/4" wide ; rimmed by chlorite + qtz; minor potassic alteration; 15° to c.a ; trace of sulfides
358.2	359.3	Several pk cal veins as above ; various orientations
363	364.4	increased amount of py as euhedral masses

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON	
		305	315	10	tr				
		315	325	10	.02 oz Ag.				
		325	335	10	.02 oz Ag				
		335	345	10	.02 oz Ag.				
3155	< 1	324.6	325.1	0.5'			N.I		
		345	355	10	.02 oz Ag				
		355	365	10	tr				
9779	< 1	338.9	340.5	0.6'			TR.		
		365	375	10	tr				
3156	< 10	363.3	364.3	1.0'			N.I Ag	400/410	ppb Au

pink chl qtz - K-alt

LANGRIDGES – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-13 SHEET NO. 9

REMARKS _____

LOGGED BY R. Cini's

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
373.5	374.5	several very irreg magnetite - py rich stringers ∠ 1/16" - 1/8" wide; minor white + pink calcite; seams about 10° to c.a	97792	∠3	373.5	374.5	1.0'			+R.	
380	383	several pk cal - qtz veins 1/8" - 1/4" wide; chloritized margins; minor potassic altered halos; ∠ 1% fine py specks. core			375	385	10	tr			
390	393	as above			385	395	10	tr			
393	395.2	lamprophyre; several irreg + discontinuous pk-wh cal veins 1/8" - 1/4" wide			395	405	10	tr			
395.2	396.4	rhyolite; fractured + cut by several pk cal-qtz veins, 1/16" - 1/8"; 50° to c.a; ∠ 3% fine py cubes throughout			405	415	10	tr			
396.4	403.5	lamprophyre; as at 393-395.2 @ 396.4 irreg pk cal vein 1/2" wide; 90° to c.a; heavily chloritized			+15	1.5					
403.5	403.8	several irreg qtz - pk cal veins; highly potassic altered; ∠ 1% fine sulfides; ∠ 1% spec. hematite; chlorite + epidote alteration throughout	3157	∠1	403.5	404	0.5'			tr	
403.8	413.1	rhyolite to porphyritic rhyolite; several pink cal-qtz veins ∠ 1/16" - 1/8"; chloritized + potassic altered									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. A-85-13 SHEET NO. 16

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
413.1	417.2	la- ...e several white cal. veins; very irr... discontinuous: @ 417 ∠ 1% specs py+ cpy in several pk-wl cal veins
417.2	435	rhyo... to porphyritic rhyolite; cut by 1/8" several irreg pk. cal veins ∠ 1/16" - 1/8" wide; fine specks py throughout core
EOH	435	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
97793	∠1	416.8	417.2	0.4'			tr.	
		415	425	10	tr			
		425	435	10	tr			

LANGRIDGES — TORONTO — 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY: Proteus Res. Inc
HOLE NO. P-85-14 LENGTH 405'
LOCATION N. Cobalt 190N 062 E
LATITUDE _____ DEPARTURE _____
ELEVATION _____ AZIMUTH 025° DIP -45°
STARTED Nov 24/85 FINISHED Nov 26/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-14 SHEET NO. 1
REMARKS _____
LOGGED BY Robert Watts

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
0	24	OVERBURDEN			0	35	35	0.02	oz Ag			
24	229.5	SEDIMENTS			35	45	10	tr				
					45	55	10	tr				
					55	65	10	tr				
					65	75	10	tr				
					75	85	10	tr				
					85	95	10	0.02	oz Ag			
					95	105	10	0.02	oz Ag			
					105	115	10	0.02	oz Ag			
24	75.6	greywacke; moderately jointed + fractured; rusted along jointed surfaces; minor to pronounced chlorite + spotting										
75.6	93	interbedded siltstone + mudstone; beds ∠ 1/16" to 1" wide; most about 58° to c.a										
76.2	76.5	ground core										
		@ 79' irreg white qtz vein 2 1/2" wide; heavily chloritized as irreg patches; minor irreg patches pink calcite; ∠ 1% irreg blebs cpy; 35° to c.a	3158	∠1	79.2	79.8	0.6'			Nil Ag	Nil Au	
81	108	heavily fractured core; rusted fractured surfaces										
93	152.5	Conglomerate										
		@ 112.7 brecciated grey calcite vein 1/2" wide; barren; 65° to c.a										
	117	Several very irreg; wt. cal veins ∠ 1/16" wide many orientations										

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DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. O-85-14 SHEET NO. 2

REMARKS _____

LOGGED BY R Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		@ 118.4 vuggy wt. cal vein 1/8" wide 35° c.a
120.5	122	Several pk cal veins 1/16" wide; various orientations
125.7	126.5	Several brecciated, vuggy wt. cal veins; 1/8" to 1/4" wide; ∠ 3% very fine py cubes and medium sized anhedral cpy blebs; veins about 30° to c.a
125	150	many very irreg wt to pink calcite fractures + vein ∠ 1/16" to 1/4" wide; ∠ 1% fine sulfides, mostly py, but also minor cpy; veins are vuggy
		@ 133.1 large massive sulfide fragment 1½" x 2"; mostly dissem py + cpy
		@ 135.4 brecciated wt cal vein 1/4 - 1/2" wide ∠ 3% Fine dissem py and anhedral cpy blebs 30° to c.a
		@ 136 as above
137	138	broken + fractured core; many wt-pk vuggy cal fractures with ∠ 1% fine py

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	%	OZ/TON	OZ/TON
		115	125	10	tr			
		125	135	10	tr			
		135	145	10	tr			
		145	155	10	tr			
97794	∠3	125.7	126.7	1.0'			tr	
3159	∠1	129.5	130	0.5'			tr	
97795	∠1	130.5	131.5	1.0'			tr	
3160	40	133	133.3	0.3'			.01	Ag 120 Au
97796	∠3	135.2	136.2	1.0'			0.02	

LANG ES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D-25-14 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
		@ 138.3 irreg vuggy wt. cal vein 1/8 - 1/4" wide ; ∠ 5% anhedral masses cpy ; 27° to c.a										
		@ 139 massive sulfide fragment 1" x 1" ; dissem py + cpy	3161	∠5	138.3	139.3	1.0'			tr		
		@ 144.8 vuggy wt. cal vein 1/2" wide ; 25° to c.a ∠ 1% fine py	97197	∠1	144.8	145.2	0.4'			TR.		
145.5	146.5	broken 2 core ; many pk - wt cal veinlets with 10% fine py cubes ; veins range ∠ 1/16" - 1/2" wide ; some mildly brecciated	3162	∠5	145.5	146.5	1.0'			0.02	Ag.	
		@ 147.3 brecciated wt to grey cal vein 1/2" wide ; vuggy , ∠ 3% fine py ; 22° to c.a										
148.8	150.2	brecciated zone ; vuggy wt to light pink cal-cement ; ∠ 1% very fine py	97198	∠1	149.2	150.2	1.0'			0.05		
151.6	153	several very irreg + discontinuous wt qtz veins ; barren										
152.5	155	argillite										
155		conglomerate										
		@ 165 irreg wt - vuggy cal vein 1/8 - 1/4" wide										

LANG... S – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 85-14 SHEET NO. 4

REMARKS _____

LOGGED BY R Cini Jr

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		30° to C.a; barren
		@ 170.3 wt. cal vein 1/16" wide; 30° to c.a
		@ 175 fragments of wt. vuggy cal vein up to 1/4" wide; < 3% fine py + cpy
		@ 189.4 very irreg + discontinuous pk. cal vein 1/4" wide
		@ 196.3 brecciated grey calcite vein 1/2" wide 50° to c.a
		@ 209.6 wt cal vein 1/8" wide; 25° to c.a
		@ 224.2 as above
229.5	405	VOLCANICS
229.5	237.5	rhyolite extremely fractured + broken core;
237.5	240	andesite
240		rhyolite
241.5	260	moderately fractured; several pink irreg cal veins < 1/16" - 1/8" wide; < 1% fine py specks throughout; potassic alteration halos around calcite veins

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		155	165	10	tr.			
		165	175	10	.02	oz Ag		
		175	185	10	.02	oz Ag		
		185	195	10	.02	oz Ag		
		195	205	10	.02	oz Ag		
		205	215	10	tr			
		215	225	10	tr			
		225	235	10	0.02	oz Ag		
		235	245	10	tr			
		245	255	10	0.02	oz Ag		
		255	265	10	tr.			

LANGRIDGE – TORONTO – 368-1168

DRM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-14 SHEET NO. 5

REMARKS _____

LOGGED BY R. Ciniti

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
261	265	fractured parallel to c.a			265	275	10	tr				
269.8	271	lamprophyre @ 269.8 irreg - pk cal - qtz vein 1/4" - 1/2" wide heavily chloritized ; 45° to c.a			275	285	10	tr				
271	271.5	several very irreg & discontinuous smokey qtz veins ; minor pk cal ; & heavily potassic altered			285	295	10	.002	oz Ag			
271	273.7	rhyolite			295	305	10	0.02	oz Ag			
273.7	275.2	qtz porphyritic rhyolite			305	315	10	tr				
275.2	302	rhyolite @ 280.9 very irreg light pk cal vein ; fractured ; 1/16 - 1/8" wide @ 286.4 as above										
290.8	291.3	several very irreg pk cal veinlets ; various orientations ; < 1/16" - 1/2" wide ; heavily chloritized										
292.5	293.5	badly ground core										
298	302	several irreg light pink cal veins 1/16" wide < 1% specks py ; heavily potassic altered halos ; heavily chloritized										
302	335	porphyritic rhyolite										
311.5	312.5	increased amt of medium to fine py as tiny stringers and subhedral cubes ; < 5% py ; < 3% magnetite	3153	< 5	311.5	312.5	1.0			tr.		

LANGRIDGE TORONTO – 366-1168

DIAMOND DRILL RECORD

HOLE NO. P-85-14 SHEET NO. 6

NAME OF PROPERTY _____ LENGTH _____

HOLE NO. _____ LENGTH _____

LOCATION _____ DEPARTURE _____

LATITUDE _____ AZIMUTH _____ DIP _____

ELEVATION _____ FINISHED _____

STARTED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
		and hematite; heavily chloritized
		@ 322. Several irreg light pk cal veins 1/16" wide 25° to c.a
		@ 324.5 light pk cal vein 1/8" wide 35° to c.a
		@ 331 ; wt - pk brecciated cal vein 1/2" wide ; 40° to c.a
334.5	364	several irreg pk to white calcite-qtz veins + gash veins; most <1/16" - 1/8" wide ; most about 40° to c.a
335	341.5	rhyolite
341.5	405	porphyritic rhyolite
		@ 389.3 pk - wt cal-qtz vein 1/2" wide; <1% fine specks py + cpy ; minor amounts of chlorite , 65° to c.a
		@ 390 irreg bleb pk cal. with medium sized anhedral grain of py ; several blades spec hematite ; chlorite around calcite
		@ 395 brecciated pink - wt. cal vein 1/2" wide; 35° to c.a
EOH	405	

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
		315	329	14	0.02	oz Ag		
		329	335	6	0.02	oz Ag		
		335	345	10	0.02	oz Ag		
		345	355	10	0.02	oz Ag		
		355	365	10	0.02	oz Ag		
		365	375	10	tr			
		375	385	10	0.02	oz Ag		
		385	395	10	tr			
		395	405	10	tr.			

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY Proteus Resources Inc.

HOLE NO. P-85-15 LENGTH 375'

LOCATION North Cobalt 10 S 74 E

LATITUDE DEPARTURE

ELEVATION AZIMUTH 25° DIP -45

STARTED Nov 26/85 FINISHED Nov 27/85

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
370	61	25°			
170	45	22°			

HOLE NO. P-85-15 SHEET NO. 1

REMARKS

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
0	32	casing
0	25	OVERBURDEN
25	272	SEDIMENTS
25	57	banded argillite ; moderately jointed + fractured alternating light green mudstone bands + dark green siltstone ; bands < 1/16" - 1" wide ; most 50° to c.a occasional granitic dropstones ; slight chlorite spotting
57	108	grey wacke ; light ; to moderate chlorite spotting fractured core
77	79	several very irreg wt qtz - cal veins ; various
87.5	89	orientations ; barren ; 1/8" - 1/2" wide ;
93.3	94	brecciated greywacke ; qtz + wt cal cement ;
101	108	heavily fractured core
108	156	banded argillite ; as at 25 - 57
108	148	several irreg thread like wt cal fractures + veinlets
123	124	badly broken core
		@ 122.5 very irreg brecciated wt cal veins ; 1/16 - 1/2" wide

SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
					Sludge			
		0	35	35	tr			
		35	45	10	tr			
		45	55	10	tr			
		55	65	10	tr			
		65	75	10	tr			
		75	85	10	tr			
		85'	95'	10	tr.			
		95	105'	10	2.00 oz Ag.		—	
		105	115	10	0.91 oz Ag		—	
		115	125	10	0.43 oz Ag			

ANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-15 SHEET NO. 2

REMARKS _____

LOGGED BY R. Ginstr

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS i
146.5	148	pronounced chlorite spotting			125	135	10	0.37	oz Ag			
154.5	155.5	as above			135	145	10	0.71	oz Ag			
156	161	greywacke			145	155	10	0.77	oz Ag	—		
		@ 155.5 irreg wt cal vein 1/16" wide ; 33° to c.a			155	165	10	0.93	oz Ag	—		
		@ 157.5 "thread-like" wht cal vein ; medium sized irreg cpy blob ; vein 20° to c.a										
		@ 159.8 qtz-wt. cal vein 1/4" wide ; ∠ 5% irreg blebs cpy + py ; minor chlorite throughout 50° to c.a	97799	∠5	159.8	160.1	0.3'			+R.		
160.4	162	brecciated zone vuggy wt- to grey calcite + qtz cement ; ∠1 % fine py cubes	3164	∠1	160.7	161.7	1.0'					
161	170	banded argillite										
162	170	highly fractured ; many irreg. wt. cal - qtz veins ∠ 1/16" - 1/2" wide ; ∠ 1% fine py minor chlorite spotting throughout	97800	∠1	161.7	162.7	1.0'			TR.		
170	180	greywacke										
171.1	172.3	many irreg + brecciated wt. calcite and qtz veins, vuggy in places ; ∠1 % irreg blebs cpy and very fine py cubes	3165	∠1	171.5	172.3	0.8'			0.01		
		@ 172.9 brecciated wt cal - qtz vein 1/4" - 1/2" wide ; 30° to c.a										

LANGMIDGES – TORONTO – 368-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-15 SHEET NO. 3

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
175	180	several wt. cal veins < 1/16" wide; various orientations			165	175	10	0.43	TR Ag		
					175	185	10	0.30	oz Ag		
180	196	siltstone - to pebbly wacke			185	195	10	0.25	oz Ag		
180	190	highly fractured; many very irreg wt cal filled fractures; vuggy; trace of very fine py cubes in vuggy calcite veins;			195	205	10	0.21	oz Ag		
					205	215	10	0.27	oz Ag		
		@ 193.5 irreg wt brecciated calcite vein 1/16" to 1/8" wide; 45° to C.a			215	225	10	0.53	oz Ag	—	
					225	235	10	0.37	oz Ag		
196	201	greywacke									
201	226	banded argillite moderately fractured; several irreg wt to light pink calcite fractures + veinlets; < 1/16" wide; light to moderate chlorite spotting									
223	227.8	brecciated zone; white calcite cement; vuggy in places; < 1% very fine py;	97801	< 1	226.5	227.5	1.0'			TR.	
226	272.2	conglomerate									
2334	234.5	many very irreg wt vuggy calcite veins 1/16" - 1/8" wide; various orientations; < 1% very fine py cubes	3166	< 1	234.4	235.4	1.0'			tr	

LANGRIDGES — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. 12-PS-15 SHEET NO. 4

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON
236	238	badly broken + ground core									
240	240.7	Several very irreg pink to wt calcite veins 1/16" – 1/2" wide ; 30° to c.a ; core fairly fractured + broken ; <1% irreg bleb + subhedral cubes py.	97802	<1	240.3	240.7	0.4'			0.02	
		@ 241.8 ; grey calcite vein 1/8" wide ; subparallel to c.a			235	245	10	0.23	oz Ag		
		@ 244.2 irreg, wuggy wt cal vein 1/8" wide. 50° to c.a			245	255	10	0.18	oz Ag		
		@ 246.4 as above			255	265	10	0.39	oz Ag		
		@ 251.7 several irregular wt. cal veins 1/16" – 1/8" wide ; 50° to c.a			265	275	10	0.22	oz Ag		
		@ 254 as above									
		@ 257 as above									
259	260	as above									
260	262	as above ; but pink veins									
262.3	263	as above									
		@ 266.5 very irreg grey cal vein 1/8" wide ; subparallel to c.a									

LANGRIDGES – TORONTO – 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. P-85-15 SHEET NO. 5

REMARKS _____

LOGGED BY R. Cnits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
272.5	375	VOLCANICS			275	285	10	0.28	oz Ag			
272.5	281.7	porphyritic rhyolite; moderately fractured; several very irreg, thread-like wt. cal filled fractures			285	295	10	0.40	oz Ag			
		@ 279.8 very irreg qtz-pk/wt cal vein; 1/16" - 1/8" wide; heavily chloritized; < 2%			295	305	10	0.12	oz Ag			
	375	irreg blebs cpy + very fine py										
		@ 280.3 pk cal vein 1/8" wide; 35° to c.a; chloritized border										
281.7	286.3	lamprophyre; cut by many very irreg. white to pink calcite veins < 1/16" to 1" wide; all at about 45° to c.a; trace of sulfides	3167	<1	283.6	284.6	1.0'			nil		
286.3	293	porphyritic rhyolite:										
286.7	287.7	many very irreg pk qtz-cal veins 1/16" to 1/8" wide; intense potassic alteration										
		@ 290.5 qtz-pk-cal vein 1/2" wide; heavily chloritized; <10% irreg blebs py + cpy, 15° to c.a	97803	<5	290.5	291.3	0.8'			0.03	Ag	0.142 Au

LANGFORDS – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY
HOLE NO. LENGTH
LOCATION
LOCATION DEPARTURE
LATITUDE
LATITUDE AZIMUTH DIP
ELEVATION
ELEVATION FINISHED
STARTED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D.85-15 SHEET NO. 6

REMARKS

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION
291.3	293	many very irreg pk to wt. cal veins 1/16" - 1/8" ; vuggy ; brecciated ; ∠ 1 % very fine subhedral py ; vein have many orientations
293	293.7	lamprophyre ; several irreg + discontinuous pk. cal veins 1/8 - 1/4" wide
293.7	375	porphyritic rhyolite @ 294.5 pk cal vein 1/4" wide ; chloritized 25° to c.a
		@ 296.3 as above
300	305	moderately fractured ; a few pink cal. veins 1/8" wide
302	303	many very irreg pk to wt. cal qtz veins ; brecciated ; 1/16" - 1/2" wide ; ∠ 5 % sulfides ; irreg py seam 1/8" wide - discontinuous ; several irreg blebs cpy + py ; chloritized throughout
		@ 318.3 pk cal - qtz vein 3/8" wide ; ∠ 1% dissem cpy + py ; irreg patches chl throughout 45° to c.a
		@ 318.7 + @ 319.1 as above 1/8" wide

SAMPLE NO.	% SULPHIDES	FOOTAGE FROM	FOOTAGE TO	FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	
					-	-	tr.		
		305	315	10	0.14	oz Ag			
		315	325	10	0.09	oz Ag			
		325	335	10	0.08	oz Ag			
		335	345	10	0.09	oz Ag			
		345	355	10	0.05	oz Ag			
		355	365	10	0.07	oz Ag			
		365	375	10	0.05	oz Ag			
3168	∠1	291.9	292.9	1.0'					
97804	∠5	302	303	1.0'			0.02	Ag.	78 P
3169	∠1	318.2	318.5	0.3'			tr.		

LANGRIDGES – TORONTO – 366-1168

FORM 1

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. _____ LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

HOLE NO. D 85-15 SHEET NO. 7

REMARKS _____

LOGGED BY R. Cinits

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS OZ/TON	ASSAYS OZ/TON	ASSAYS
		@ 324.4 irreg wt cal vein 1/8" wide; 20° to c.a										
328.5	328.8	several wt cal veins 1/8" wide; 40° to c.a										
		@ 329.7 very irreg pk cal-qtz vein 1/2" wide; heavily chloritized + potassic altered; <1% dissem cpy + py; 40° to c.a										
333.2	334	many irreg wt cal veins 1/16" wide; 45° to c.a										
		@ 343.4 qtz-pink cal vein 1.5" wide; many irreg f[illegible] chl; <1% dissem cpy + py; 50° to c.a	97805	<1	343.2	343.6	0.4'			0.02		
363.4	365	many qtz-pk cal veins; irreg patches chlorite throughout; moderate to intense potassic altered; 1% dissem cpy + py	3170	<1	364	365	1.0'			nil		
		@ 365.5 as above; 1/2" wide; 55° to c.a										
		@ 366.4 as above; 1/2" wide; 80° to c.a										
369.4	369.6	intense potassic alteration										
EOH	375											

LANGRIDGE — TORONTO — 366-1168

DIAMOND DRILL RECORD

NAME OF PROPERTY _____

HOLE NO. P-85-15 LENGTH _____

LOCATION _____

LATITUDE _____ DEPARTURE _____

ELEVATION _____ AZIMUTH _____ DIP _____

STARTED _____ FINISHED _____

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

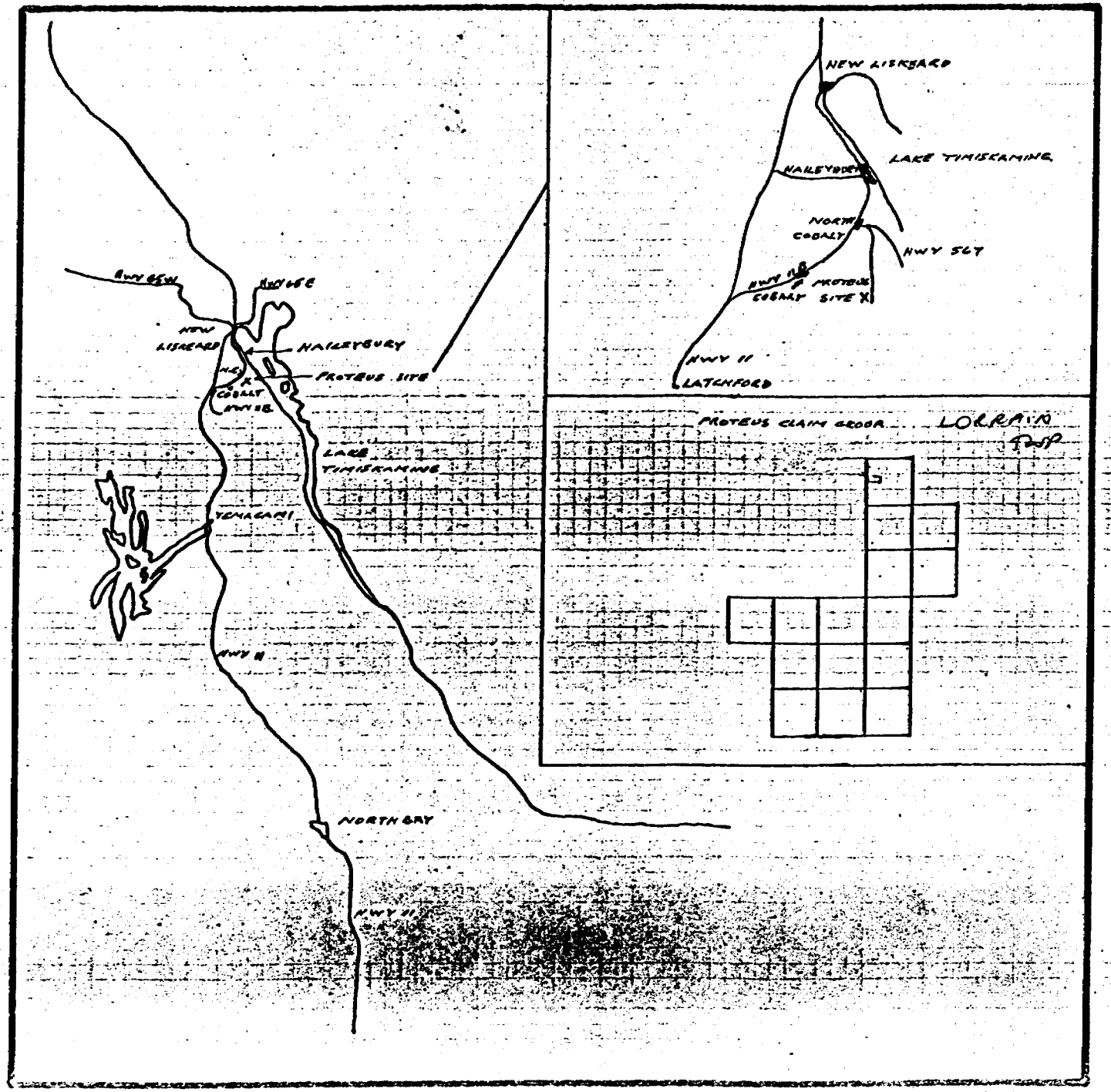
HOLE NO. P85-15 SHEET NO. _____

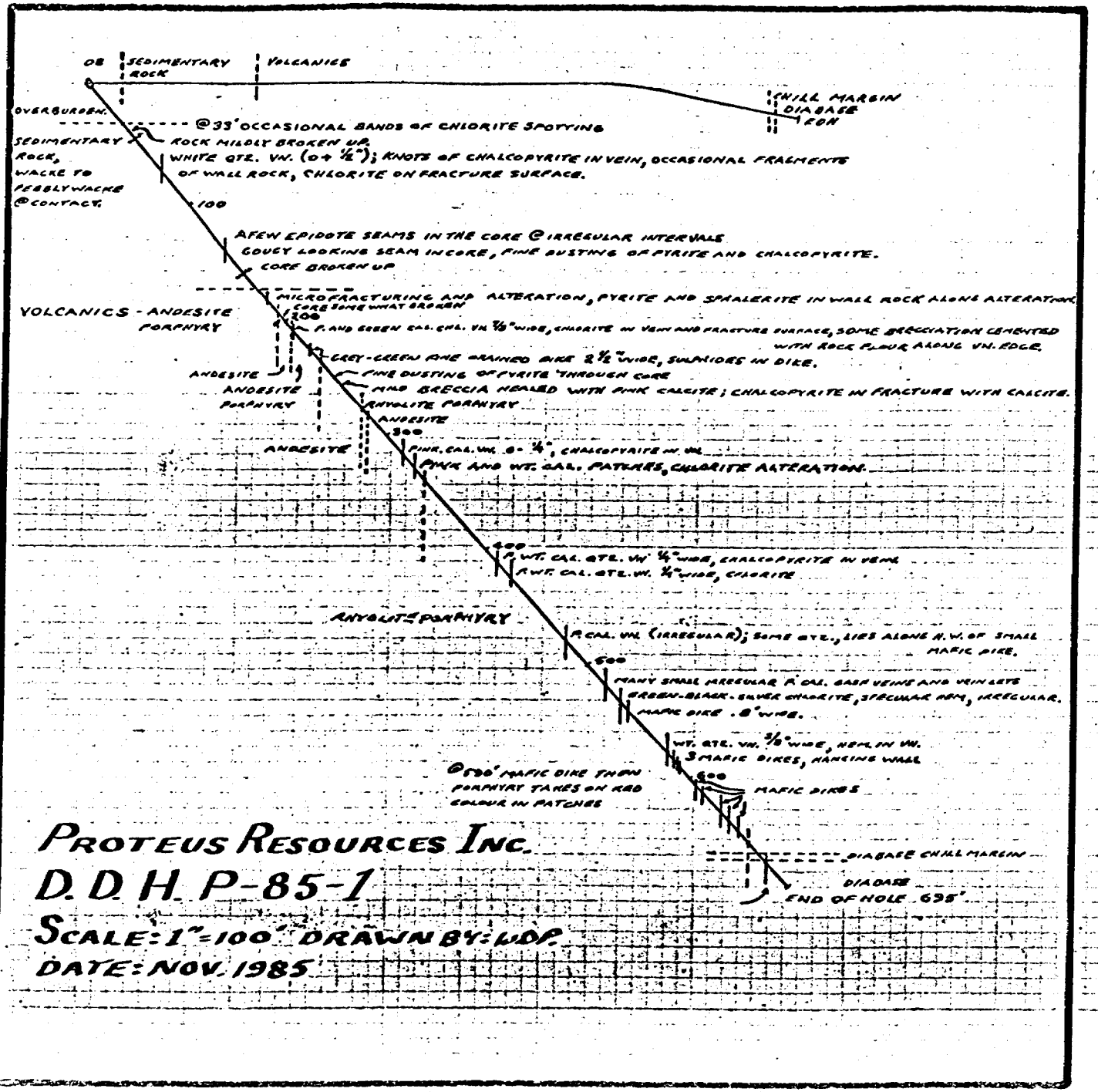
REMARKS _____

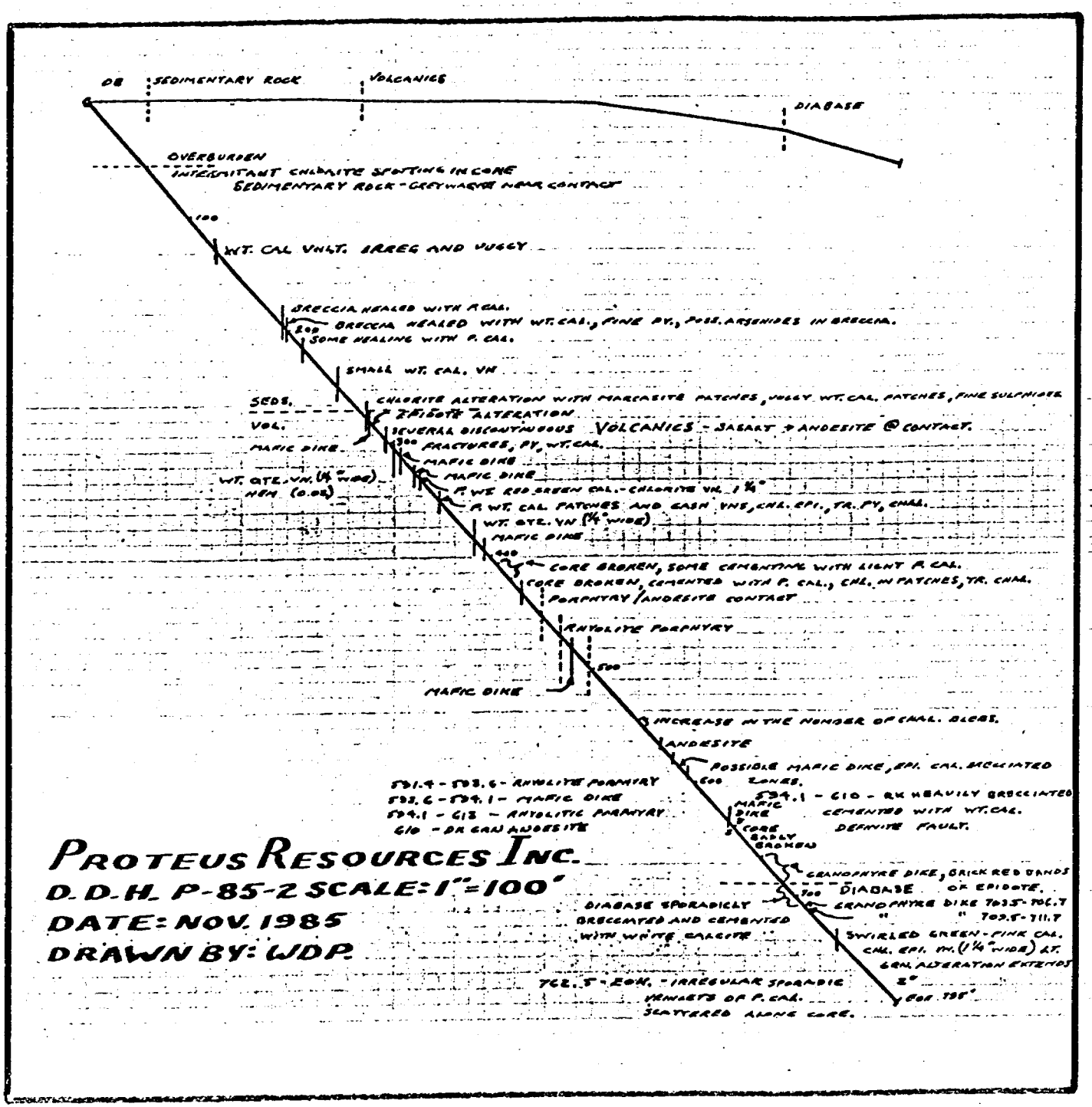
LOGGED BY _____

FOOTAGE FROM	FOOTAGE TO	DESCRIPTION	SAMPLE NO.	SAMPLE % SULPHIDES	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE FOOTAGE TOTAL	ASSAYS %	ASSAYS %	ASSAYS Ag OZ/TON	ASSAYS OZ/TON	
		RIC PG 3 & 4 P-85-15 206.	#4 38438		225	226.5	1.5'			0.02		
			#5 38437		266	267	1'			0.02		
			#6 38440		293	294.5	1.5'			trace		

LANGRIDGE ... TORONTO — 366-1168


NEW LISKEARD
LAKE TIMISKAMING
HAILEYBURY
NORTH COBALT
HWY 567
HWY 11B
PROTEUS SITE X
HWY 11
LATCHFORD
HWY 65W
HWY 65E
NEW LISKEARD
HAILEYBURY
PROTEUS SITE
N. COBALT
HWY 11B
LAKE TIMISKAMING
TEMAGAMI
HWY 11
NORTH BAY
HWY 11
PROTEUS CLAIM GROUP
LORRAIN
Twp


OB
SEDIMENTARY ROCK
VOLCANICS
CHILL MARGIN DIABASE IRON
OVERBURDEN
@ 33' OCCASIONAL BANDS OF CHLORITE SPOTTING
SEDIMENTARY ROCK, WACKE TO FELDSPATHIC WACKE @ CONTACT.
ROCK MILDLY BROKEN UP.
WHITE QTZ. VN. (0 + ½"); KNOTS OF CHALCOPYRITE IN VEIN, OCCASIONAL FRAGMENTS OF WALL ROCK, CHLORITE ON FRACTURE SURFACE.
100
A FEW EPIDOTE SEAMS IN THE CORE @ IRREGULAR INTERVALS
GOUGY LOOKING SEAM IN CORE, FINE DUSTING OF PYRITE AND CHALCOPYRITE.
CORE BROKEN UP
MICROFRACTURING AND ALTERATION, PYRITE AND SPHALERITE IN WALL ROCK ALONG ALTERATION
VOLCANICS - ANDESITE PORPHYRY
CORE SOMEWHAT BROKEN
200
F. AND GREEN CAL. CHL. VN ⅛" WIDE, CHLORITE IN VEIN AND FRACTURE SURFACE, SOME BRECCIATION CEMENTED WITH ROCK FLOUR ALONG VN. EDGE.
GREY-GREEN FINE GRAINED DIKE 2½" WIDE, SULPHIDES IN DIKE.
FINE DUSTING OF PYRITE THROUGH CORE
ANDESITE
ANDESITE PORPHYRY
MINOR BRECCIA HEALED WITH PINK CALCITE; CHALCOPYRITE IN FRACTURE WITH CALCITE.
RHYOLITE PORPHYRY
ANDESITE
300
PINK. CAL. VN. 0 - ¼", CHALCOPYRITE IN VN.
PINK AND WT. CAL. FRACTURES, CHLORITE ALTERATION.
400
WT. CAL. QTZ. VN ½" WIDE, CHALCOPYRITE IN VEIN.
WT. CAL. QTZ. VN. ½" WIDE, CHLORITE
RHYOLITE PORPHYRY
P. CAL. VN. (IRREGULAR); SOME QTZ., LIES ALONG H.W. OF SMALL MAFIC DIKE.
500
MANY SMALL IRREGULAR P. CAL. BASH VEINS AND VEINLETS
BROWN-BLACK-SILVER CHLORITE, SPECULAR HEM, IRREGULAR.
MAFIC DIKE .8' WIDE.
WT. QTZ. VN. 3/8" WIDE, HEM IN VN.
3 MAFIC DIKES, HANGING WALL
600
@ 590' MAFIC DIKE FROM PORPHYRY TAKES ON RED COLOUR IN PATCHES
MAFIC DIKES
DIABASE CHILL MARGIN
DIABASE
END OF HOLE 695'.
PROTEUS RESOURCES INC.
D.D.H. P-85-1
SCALE: 1" = 100'
DRAWN BY: W.D.P.
DATE: NOV. 1985



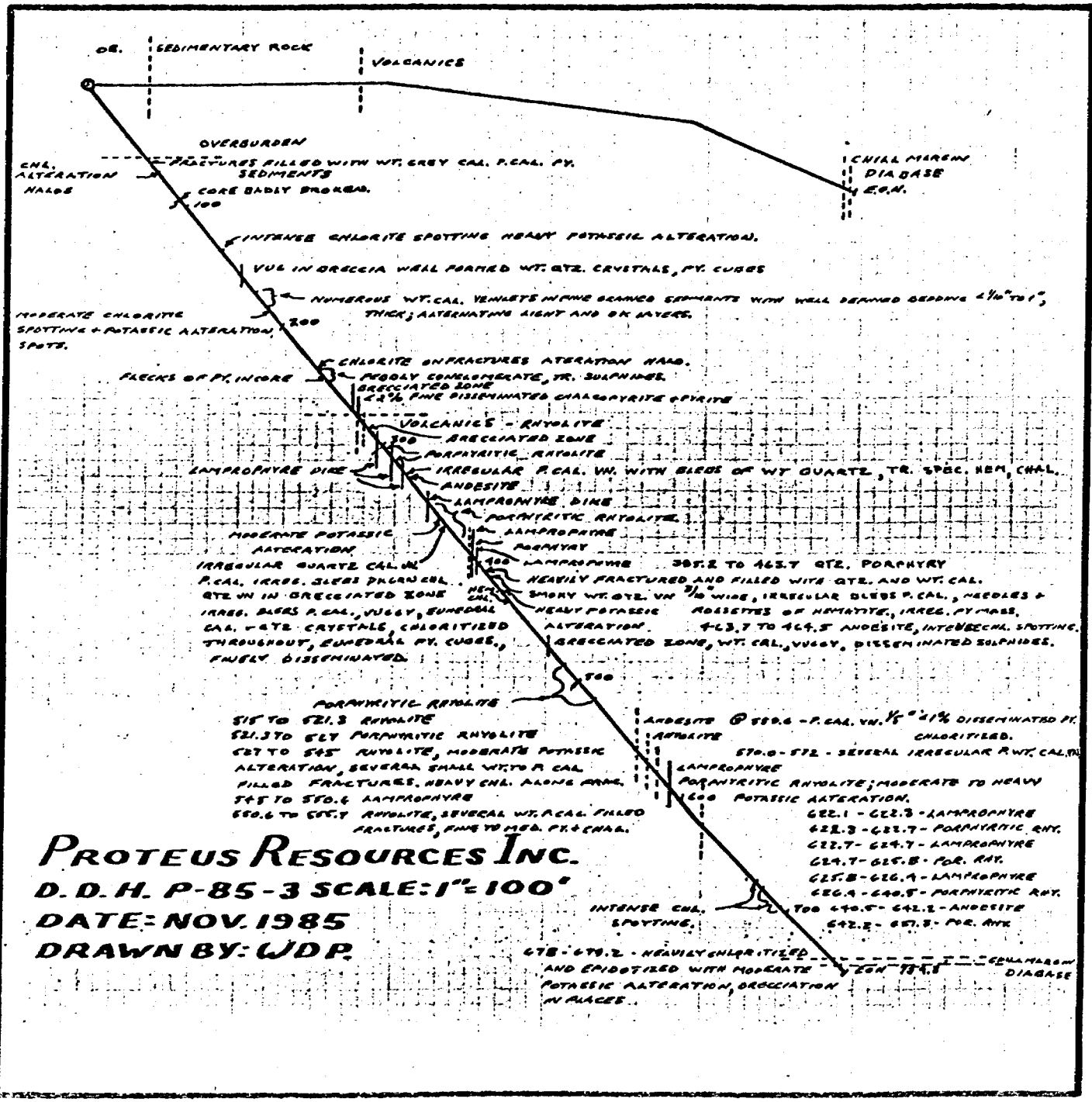
PROTEUS RESOURCES INC.

D.D.H. P-85-2 SCALE: 1"=100'

DATE: NOV. 1985

DRAWN BY: WDP.

P-85-2

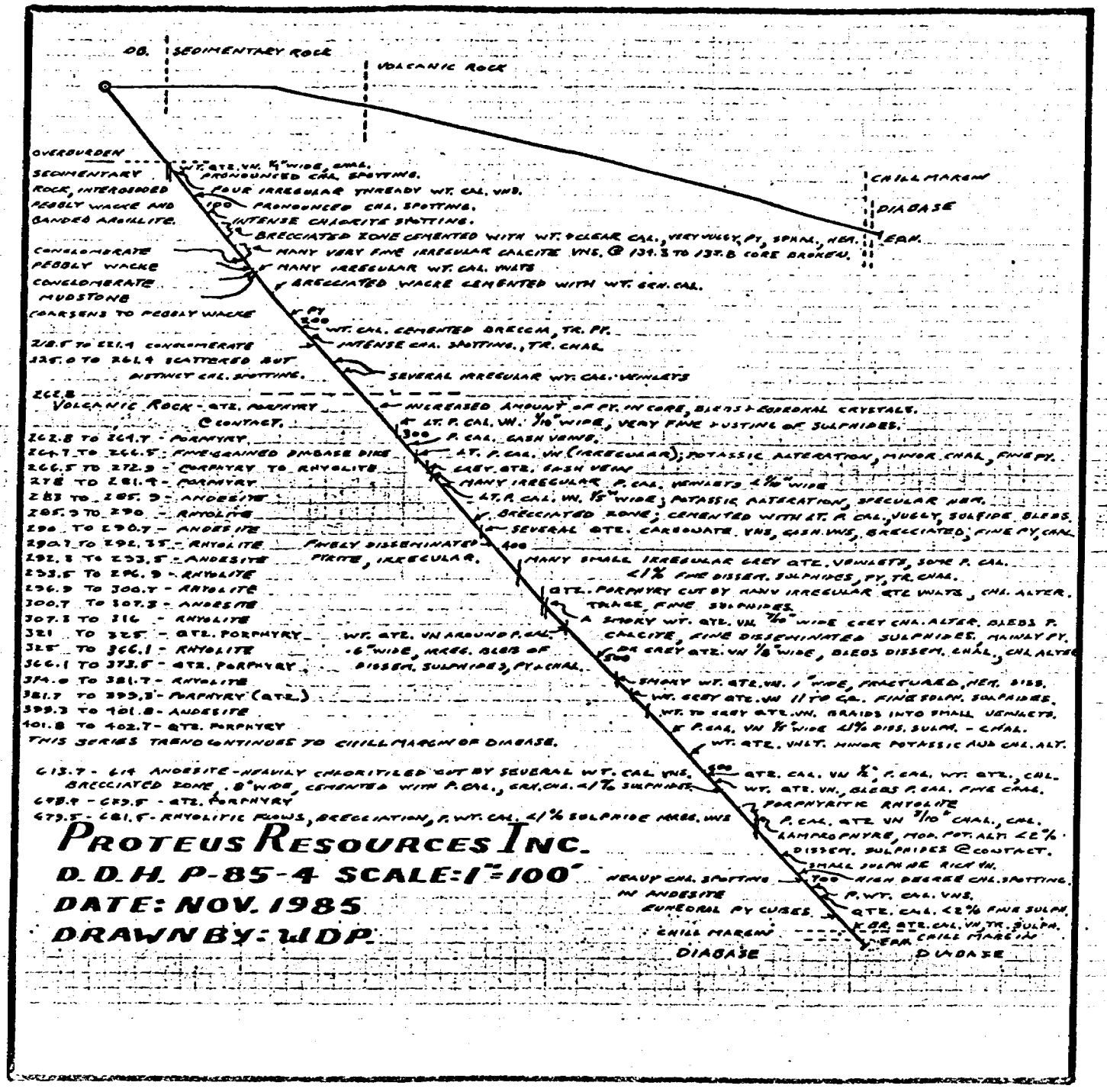


PROTEUS RESOURCES INC.

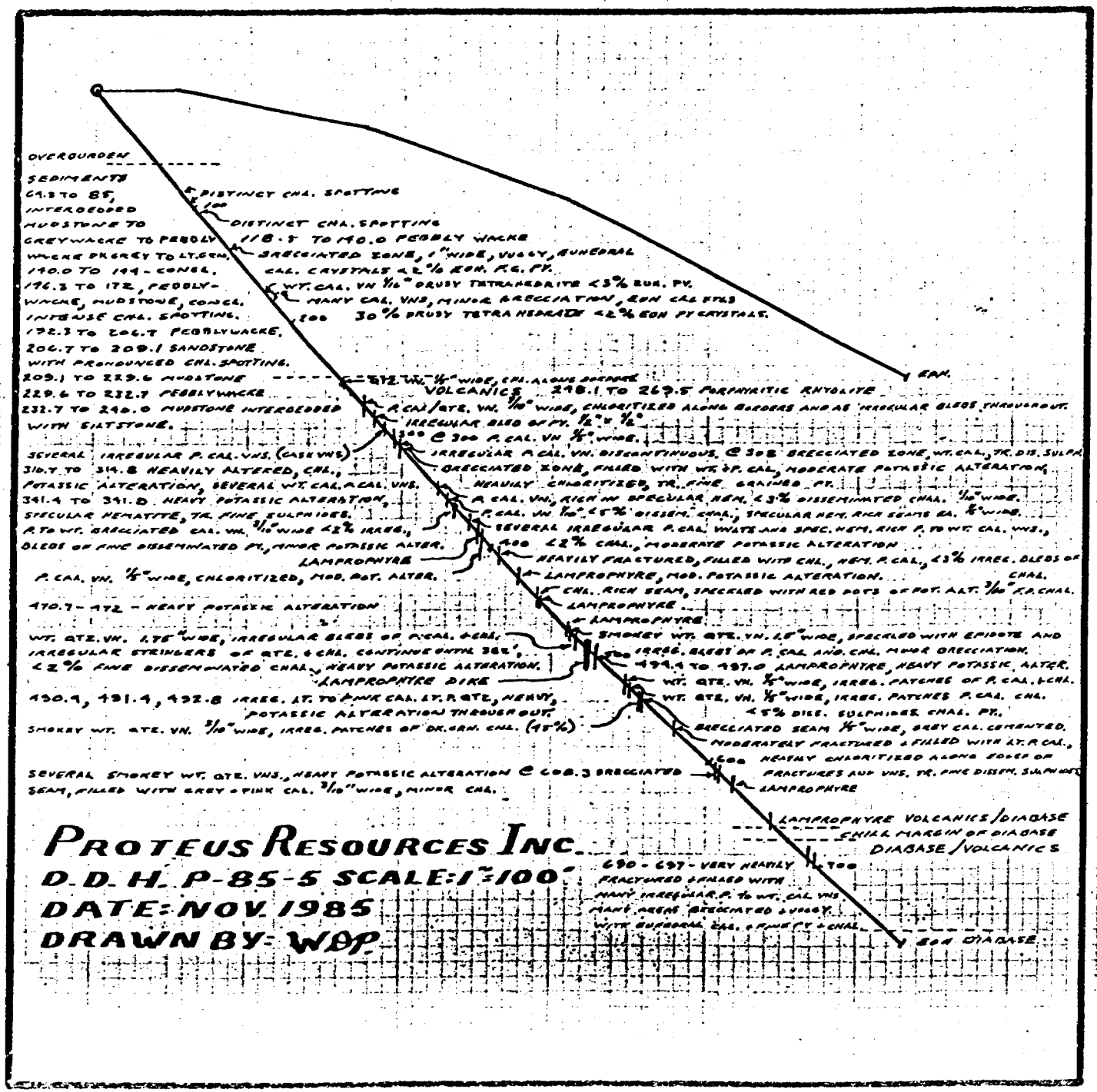
D. D. H. P-85-3 SCALE: 1" = 100'

DATE: NOV. 1985

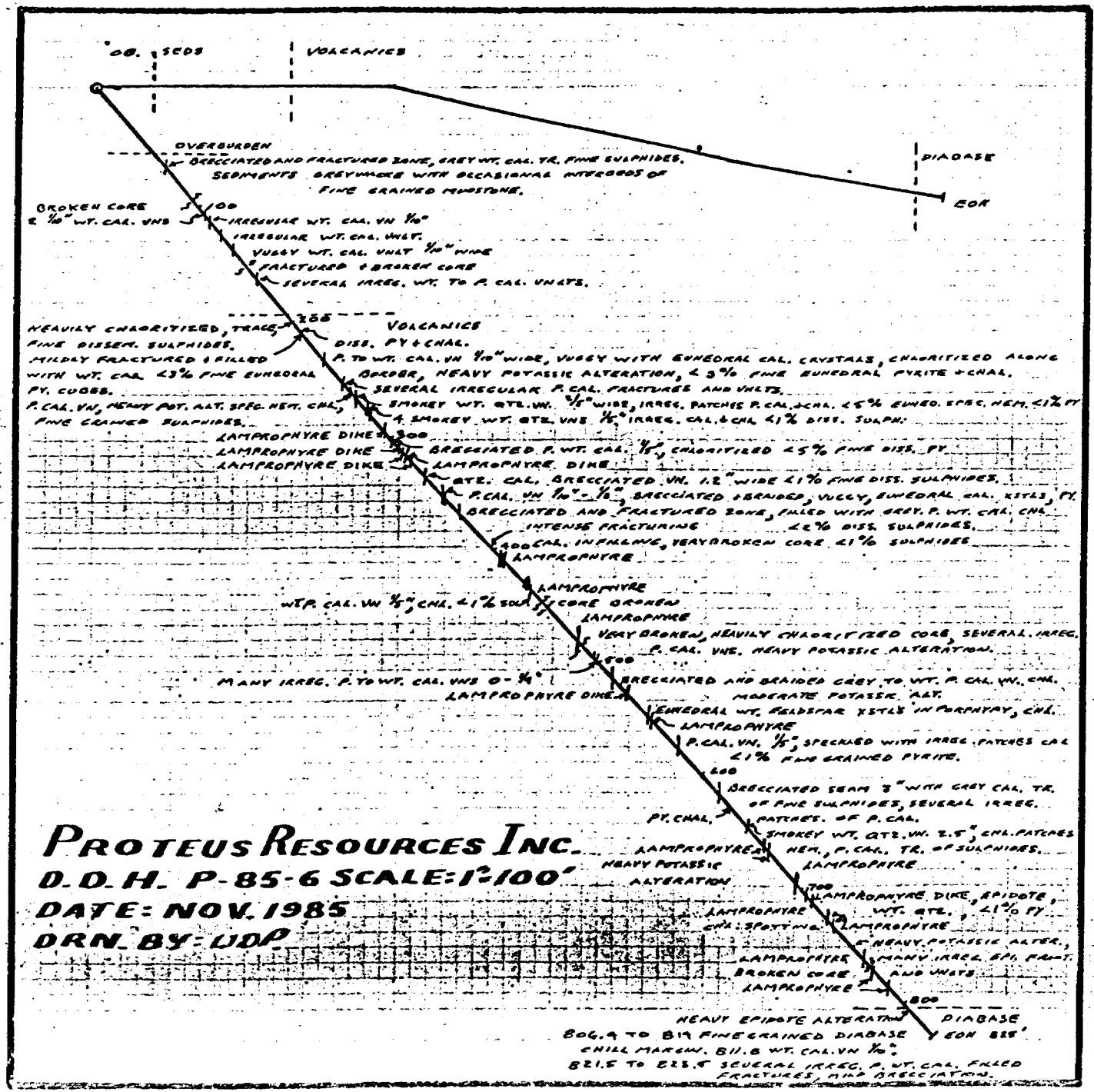
DRAWN BY: W.D.P.


DD. SEDIMENTARY ROCK
VOLCANIC ROCK
OVERBURDEN
SEDIMENTARY ROCK, INTERBEDDED PEBBLY WACKE AND BANDED ARGILLITE.
CONGLOMERATE
PEBBLY WACKE
CONGLOMERATE
MUDSTONE
COARSENS TO PEBBLY WACKE
218.5 TO 221.4 CONGLOMERATE
225.0 TO 261.4 SCATTERED BUT DISTINCT CAL. SPOTTING.
262.8 VOLCANIC ROCK - QTZ. PORPHYRY
C CONTACT.
262.8 TO 264.7 - PORPHYRY
264.7 TO 266.5 - FINE-GRAINED DIABASE DIKE
266.5 TO 272.3 - CRYPTARY TO RHYOLITE
272 TO 281.9 - PORPHYRY
283 TO 285.3 - ANDESITE
285.3 TO 290 - RHYOLITE
290 TO 290.7 - ANDESITE
290.7 TO 292.35 - RHYOLITE
292.3 TO 293.5 - ANDESITE
293.5 TO 296.3 - RHYOLITE
296.3 TO 300.7 - RHYOLITE
300.7 TO 307.3 - ANDESITE
307.3 TO 316 - RHYOLITE
321 TO 325 - QTZ. PORPHYRY
325 TO 366.1 - RHYOLITE
366.1 TO 373.5 - QTZ. PORPHYRY
374.0 TO 381.7 - RHYOLITE
381.7 TO 399.3 - PORPHYRY (QTZ.)
399.3 TO 401.8 - ANDESITE
401.8 TO 402.7 - QTZ. PORPHYRY
THIS SERIES TREND CONTINUES TO CHILL MARGIN OF DIABASE.
613.7 - 614 ANDESITE - HEAVILY CHLORITIZED CUT BY SEVERAL WT. CAL. VNS.
BRECCIATED ZONE, 8" WIDE, CEMENTED WITH P. CAL., GRN. CHL. <1% SULPHIDE
628.9 - 629.5 - QTZ. PORPHYRY
629.5 - 681.5 - RHYOLITIC FLOWS, BRECCIATION, P. WT. CAL. <1% SULPHIDE MNRS. VNS
PROTEUS RESOURCES INC.
D.D.H. P-85-4 SCALE: 1"=100'
DATE: NOV. 1985
DRAWN BY: WDP
OVERBURDEN
WT. QTZ. VN. ½" WIDE, CHAL. PRONOUNCED CHL. SPOTTING.
FOUR IRREGULAR THREADY WT. CAL. VNS.
PRONOUNCED CHL. SPOTTING.
INTENSE CHLORITE SPOTTING.
BRECCIATED ZONE CEMENTED WITH WT. & CLEAR CAL., VERY WILLY, PY, SPHAL., HEM.
MANY VERY FINE IRREGULAR CALCITE VNS. @ 131.3 TO 137.8 CORE BROKEN.
MANY IRREGULAR WT. CAL. VNLTS
BRECCIATED WACKE CEMENTED WITH WT. GRN. CAL.
PY
300
WT. CAL. CEMENTED BRECCIA, TR. PY.
INTENSE CHL. SPOTTING., TR. CHAL.
SEVERAL IRREGULAR WT. CAL. VEINLETS
INCREASED AMOUNT OF PY. IN CORE, BLEBS & EUHEDRAL CRYSTALS.
LT. P. CAL. VN. 1/16" WIDE, VERY FINE DUSTING OF SULPHIDES.
300
P. CAL. CASH VEINS.
LT. P. CAL. VN (IRREGULAR); POTASSIC ALTERATION, MINOR CHAL, FINE PY.
GREY QTZ. CASH VEIN
MANY IRREGULAR P. CAL. VEINLETS 1/16" WIDE
LT. P. CAL. VN. 1/8" WIDE; POTASSIC ALTERATION, SPECULAR HEM.
BRECCIATED ZONE; CEMENTED WITH LT. P. CAL., JUGGY, SULFIDE BLEBS.
SEVERAL QTZ. CARBONATE VNS, CASH VNS, BRECCIATED, FINE PY, CHAL.
400
FINELY DISSEMINATED PYRITE, IRREGULAR.
MANY SMALL IRREGULAR GREY QTZ. VEINLETS, SOME P. CAL.
<1% FINE DISSEM. SULPHIDES, PY, TR. CHAL.
QTZ. PORPHYRY CUT BY MANY IRREGULAR QTZ VNLTS, CHL. ALTER.
TRACE, FINE SULPHIDES.
A STORY WT. QTZ. VN. 1/16" WIDE GREY CHL. ALTER. BLEBS P.
CALCITE, FINE DISSEMINATED SULPHIDES, MINOR PY.
OR GREY QTZ. VN 1/8" WIDE, BLEBS DISSEM. CHAL., CHL. ALTER
500
SHONY WT. QTZ. VN. 1" WIDE, FRACTURED, HEM. STN.
WT. GREY QTZ. VN 11° TO CA. FINE SULPH. SULPHIDES.
WT. TO GREY QTZ. VN. BRAIDS INTO SMALL VEINLETS.
P. CAL. VN 1/8" WIDE <1% DISS. SULPH. - CHAL.
WT. QTZ. VNLT. MINOR POTASSIC AND CHL. ALT.
500
QTZ. CAL. VN ¼", P. CAL. WT. QTZ., CHL.
WT. QTZ. VN., BLEBS P. CAL. FINE CHAL.
PORPHYRITIC RHYOLITE
P. CAL. QTZ VN 1/10" CHAL., CHL.
LAMPROPHYRE, MOD. POT. ALT. <2%
DISSEM. SULPHIDES @ CONTACT.
SMALL SULPHIDE RICH VN.
HEAVY CHL. SPOTTING
IN ANDESITE
EUHEDRAL PY CUBES.
CHILL MARGIN
DIABASE
700
HIGH DEGREE CHL. SPOTTING.
P. WT. CAL. VNS.
QTZ. CAL. <2% FINE SULPH.
MOD. QTZ. CAL. VN, TR. SULPH.
CHILL MARGIN
DIABASE
CHILL MARGIN
DIABASE

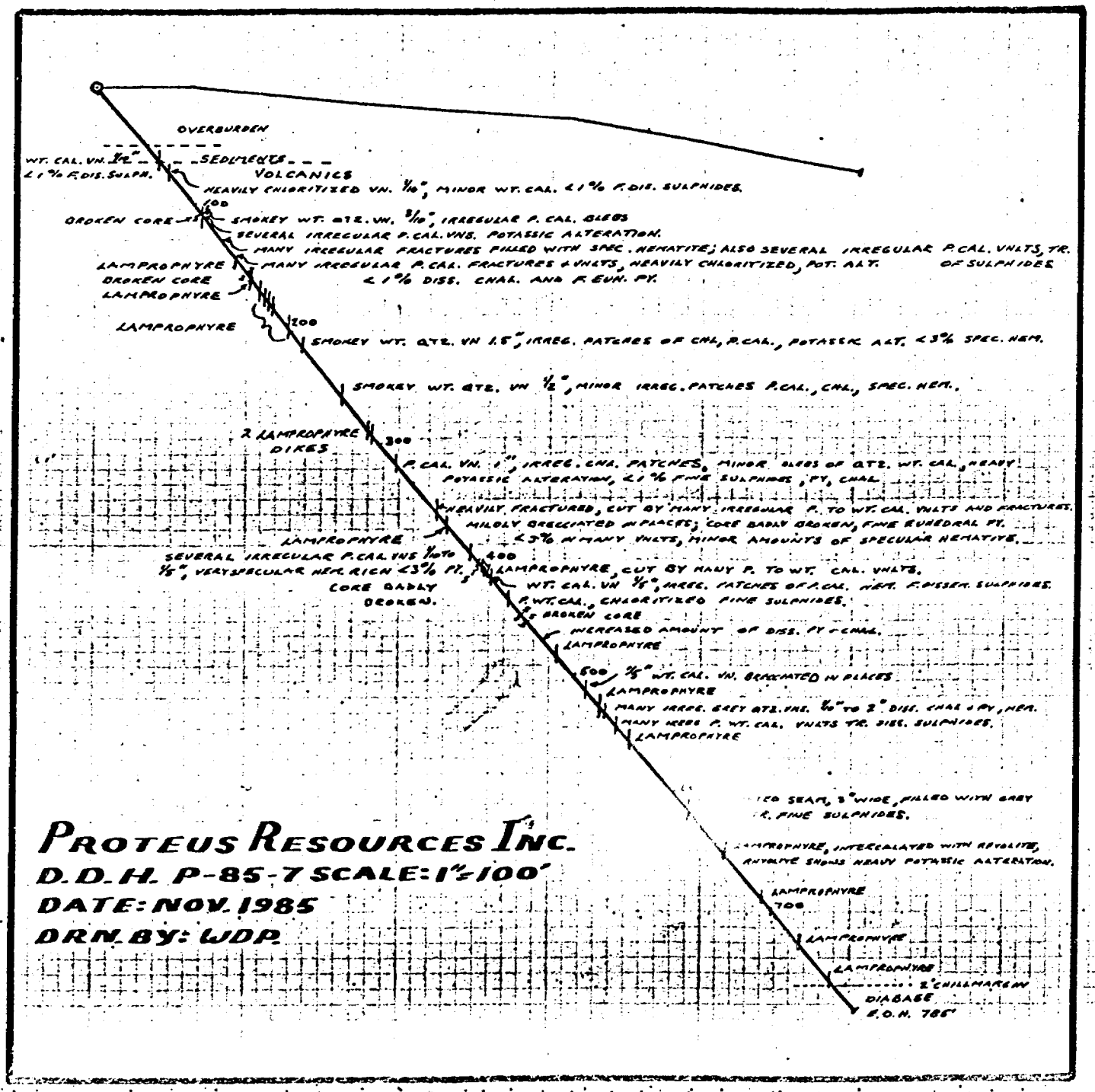
P. 85-4


OVERBURDEN
SEDIMENTS
61.3 TO 85, INTERBEDDED MUDSTONE TO GREYWACKE TO PEBBLY WACKE DK.GREY TO LT.GRN.
140.0 TO 144 - CONGL.
176.3 TO 172, PEBBLY-WACKE, MUDSTONE, CONGL.
INTENSE CHL. SPOTTING.
172.3 TO 204.7 PEBBLYWACKE.
204.7 TO 209.1 SANDSTONE WITH PRONOUNCED CHL. SPOTTING.
209.1 TO 229.6 MUDSTONE
229.6 TO 232.7 PEBBLYWACKE
232.7 TO 240.0 MUDSTONE INTERBEDDED WITH SILTSTONE.
DISTINCT CHL. SPOTTING
DISTINCT CHL. SPOTTING
118.5 TO 140.0 PEBBLY WACKE
BRECCIATED ZONE, 1" WIDE, VUGGY, RUNDBAL CAL. CRYSTALS <2% EQN. PY.
WT. CAL. VN 1/16" DRUSY TETRAHEDRITE <3% EUH. PY.
MANY CAL. VNS, MINOR BRECCIATION, EQN CAL STKS
30% DRUSY TETRAHEDRITE <2% EQN PY CRYSTALS.
EQN.
VOLCANICS 248.1 TO 269.5 PORPHYRITIC RHYOLITE
QTZ. VN. 1/8" WIDE, CHL. ALONG BORDER
P. CAL/QTZ. VN. 1/10" WIDE, CHLORITIZED ALONG BORDERS AND AS IRREGULAR BLEBS THROUGHOUT.
IRREGULAR BLEB OF PY. 1/2" x 1/2"
300 @ 300 P. CAL. VN 1/8" WIDE.
IRREGULAR P. CAL. VN. DISCONTINUOUS. @ 308 BRECCIATED ZONE, WT. CAL., TR. DIS. SULPH.
BRECCIATED ZONE, FILLED WITH WT. & P. CAL., MODERATE POTASSIC ALTERATION,
HEAVILY CHLORITIZED, TR. FINE GRAINED PY.
SEVERAL IRREGULAR P. CAL. VNS. (CASE VNS)
310.7 TO 314.8 HEAVILY ALTERED, CHL., POTASSIC ALTERATION, SEVERAL WT. CAL. & CAL. VNS.
P. CAL. VN, RICH IN SPECULAR HEM. <3% DISSEMINATED CHAL. 1/16" WIDE.
341.4 TO 341.8 HEAVY POTASSIC ALTERATION, SPECULAR HEMATITE, TR. FINE SULPHIDES.
P. CAL. VN 1/16" <5% DISSEM. CHAL., SPECULAR HEM. RICH SEAMS EA. 1/8" WIDE.
P. TO WT. BRECCIATED CAL. VN. 3/16" WIDE <2% IRREG., BLEBS OF FINE DISSEMINATED PY, MINOR POTASSIC ALTER.
SEVERAL IRREGULAR P. CAL. VNLTS AND SPEC. HEM. RICH P. TO WT. CAL. VNS., 400 <2% CHAL., MODERATE POTASSIC ALTERATION
HEAVILY FRACTURED, FILLED WITH CHL., HEM. P. CAL., <3% IRREG. BLEBS OF CHAL.
LAMPROPHYRE
P. CAL. VN. 1/8" WIDE, CHLORITIZED, MOD. POT. ALTER.
LAMPROPHYRE, MOD. POTASSIC ALTERATION.
CHL. RICH SEAM, SPECKLED WITH RED DOTS OF POT. ALT. 3/16" P.P. CHAL.
LAMPROPHYRE
470.7 - 472 - HEAVY POTASSIC ALTERATION
LAMPROPHYRE
SMOKEY WT. QTZ. VN. 1.5" WIDE, SPECKLED WITH EPIDOTE AND
WT. QTZ. VN. 1.75" WIDE, IRREGULAR BLEBS OF P. CAL. & CAL.
IRREGULAR STRINGERS OF QTZ. & CHL. CONTINUE UNTIL 382',
<2% FINE DISSEMINATED CHAL., HEAVY POTASSIC ALTERATION.
LAMPROPHYRE DIKE
490.4 TO 497.0 LAMPROPHYRE, HEAVY POTASSIC ALTER.
WT. QTZ. VN. 1/8" WIDE, IRREG. PATCHES OF P. CAL. & CHL.
490.4, 491.4, 492.8 IRREG. LT. TO PINK CAL. LT. P QTZ., HEAVY, POTASSIC ALTERATION THROUGH OUT.
WT. QTZ. VN. 1/8" WIDE, IRREG. PATCHES P. CAL. CHL.
<5% DISS. SULPHIDES. CHAL. PY.
SMOKEY WT. QTZ. VN. 3/16" WIDE, IRREG. PATCHES OF DK. GRN. CHL. (45°)
BRECCIATED SEAM 1/8" WIDE, GREY CAL. CEMENTED.
MODERATELY FRACTURED & FILLED WITH LT. P CAL., HEAVILY CHLORITIZED ALONG EDGES OF FRACTURES AND VNS. TR. FINE DISSEM. SULPHIDES
SEVERAL SMOKEY WT. QTZ. VNS., HEAVY POTASSIC ALTERATION @ 500. BRECCIATED SEAM, FILLED WITH GREY & PINK CAL. 3/16" WIDE, MINOR CHL.
LAMPROPHYRE
LAMPROPHYRE VOLCANICS/DIABASE
CHILL MARGIN OF DIABASE
DIABASE/VOLCANICS
690 - 697 - VERY HEAVILY FRACTURED & ENLACED WITH MANY IRREGULAR P. & WT. CAL VNS. MANY AREAS BRECCIATED & VUGGY WITH EUHEDRAL CAL. & FINE PY & CHAL.
EOH DIABASE
PROTEUS RESOURCES INC.
D.D.H. P-85-5 SCALE: 1"=100'
DATE: NOV. 1985
DRAWN BY: WDP

P-85-5


OB.
SEDS
VOLCANICS
OVERBURDEN
BRECCIATED AND FRACTURED ZONE, GREY WT. CAL. TR. FINE SULPHIDES.
SEDIMENTS GREYWACKE WITH OCCASIONAL INTERBEDS OF FINE GRAINED MUDSTONE.
DIABASE
EOH
BROKEN CORE
< 1/10" WT. CAL. VNS
IRREGULAR WT. CAL. VN 1/10"
IRREGULAR WT. CAL. VNLT.
VUGGY WT. CAL. VNLT 1/10" WIDE
FRACTURED & BROKEN CORE
SEVERAL IRREG. WT. TO P. CAL. VNLTS.
255
VOLCANICS
HEAVILY CHLORITIZED, TRACE FINE DISSEM. SULPHIDES.
DISS. PY & CHAL.
MILDLY FRACTURED & FILLED WITH WT. CAL. <3% FINE EUHEDRAL PY. CUBES.
P. TO WT. CAL. VN 1/10" WIDE, VUGGY WITH EUHEDRAL CAL. CRYSTALS, CHLORITIZED ALONG BORDER, HEAVY POTASSIC ALTERATION, < 3% FINE EUHEDRAL PYRITE + CHAL.
SEVERAL IRREGULAR P. CAL. FRACTURES AND VNLTS.
P. CAL. VN, HEAVY POT. ALT. SPEC. HEM. CHL.,
SMOKEY WT. QTZ. VN. 1/8" WIDE, IRREG. PATCHES P. CAL. & CHL. < 5% EUHED. SPEC. HEM. < 1% FY
FINE GRAINED SULPHIDES.
4 SMOKEY WT. QTZ. VNS 1/8" IRREG. CAL. & CHL < 1% DISS. SULPH.
LAMPROPHYRE DIKE
300
LAMPROPHYRE DIKE
LAMPROPHYRE DIKE
BRECCIATED P. WT. CAL. 1/8", CHLORITIZED < 5% FINE DISS. PY.
LAMPROPHYRE DIKE
QTZ. CAL. BRECCIATED VN. 1.2" WIDE < 1% FINE DISS. SULPHIDES.
P. CAL. VN 1/10" - 1/8", BRECCIATED & BRAIDED, VUGGY, EUHEDRAL CAL. XSTLS, PY.
BRECCIATED AND FRACTURED ZONE, FILLED WITH GREY. P. WT. CAL. CHL.
INTENSE FRACTURING < 2% DISS. SULPHIDES.
400 CAL. IN FILLING, VERY BROKEN CORE < 1% SULPHIDES
LAMPROPHYRE
LAMPROPHYRE
W/ P. CAL. VN 1/8", CHL. < 1% SOUL
CORE BROKEN
LAMPROPHYRE
VERY BROKEN, HEAVILY CHLORITIZED CORE, SEVERAL IRREG.
P. CAL. VNS. HEAVY POTASSIC ALTERATION.
500
MANY IRREG. P. TO WT. CAL. VNS 0 - 1/4"
LAMPROPHYRE DIKE
BRECCIATED AND BRAIDED GREY TO WT. P. CAL. VN., CHL.
MODERATE POTASSIC ALT.
EUHEDRAL WT. FELDSPAR XSTLS IN PORPHYRY, CHL.
LAMPROPHYRE
P. CAL. VN. 1/8", SPECKLED WITH IRREG. PATCHES CAL
< 1% FINE GRAINED PYRITE.
600
BRECCIATED SEAM 3" WITH GREY CAL. TR.
OF FINE SULPHIDES, SEVERAL IRREG.
PY. CHAL.
PATCHES OF P. CAL.
SMOKEY WT. QTZ. VN. 2.5", CHL. PATCHES
LAMPROPHYRE
HEM., P. CAL. TR. OF SULPHIDES.
LAMPROPHYRE
HEAVY POTASSIC
ALTERATION
LAMPROPHYRE
700
LAMPROPHYRE DIKE, EPIDOTE, WT. QTZ., < 1% FY
LAMPROPHYRE
CHL: SPOTTY
HEAVY POTASSIC ALTER., MANY IRREG. SPL FRACT.
AND VNLTS.
LAMPROPHYRE
BROKEN CORE
LAMPROPHYRE
800
HEAVY EPIDOTE ALTERATION
DIABASE
806.9 TO 819 FINE GRAINED DIABASE
CHILL MARGIN. 811.8 WT. CAL. VN 1/8".
821.5 TO 823.5 SEVERAL IRREG. P. WT. CAL. FILLED FRACTURES, MINOR BRECCIATION.
EOH 825'
PROTEUS RESOURCES INC.
D.D.H. P-85-6 SCALE: 1"=100'
DATE: NOV. 1985
DRN. BY: UDP

P-85-6

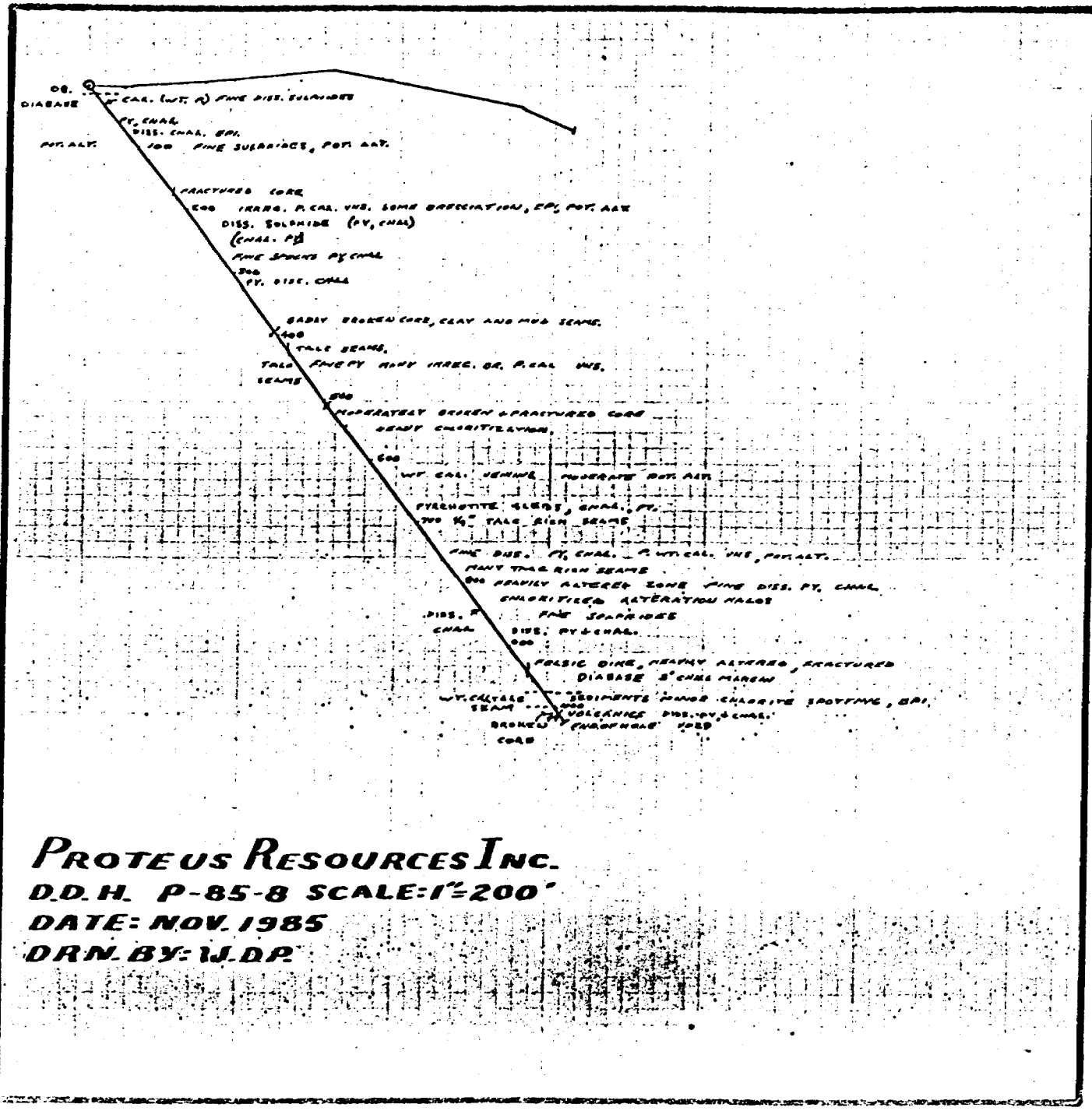


PROTEUS RESOURCES INC.

D.D.H. P-85-7 SCALE: 1"=100'

DATE: NOV. 1985

DRN. BY: WDP.

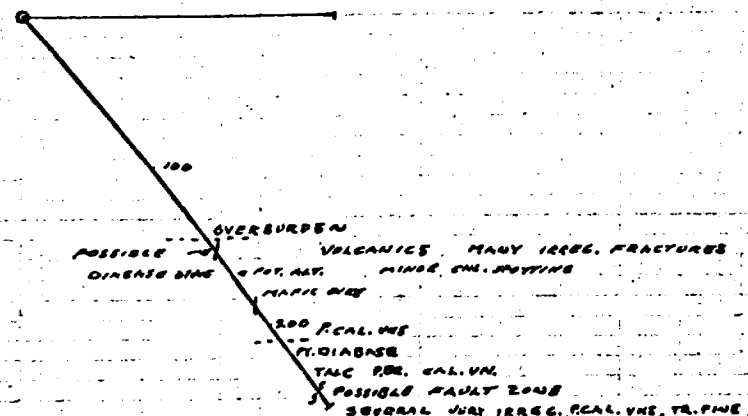


PROTEUS RESOURCES INC.

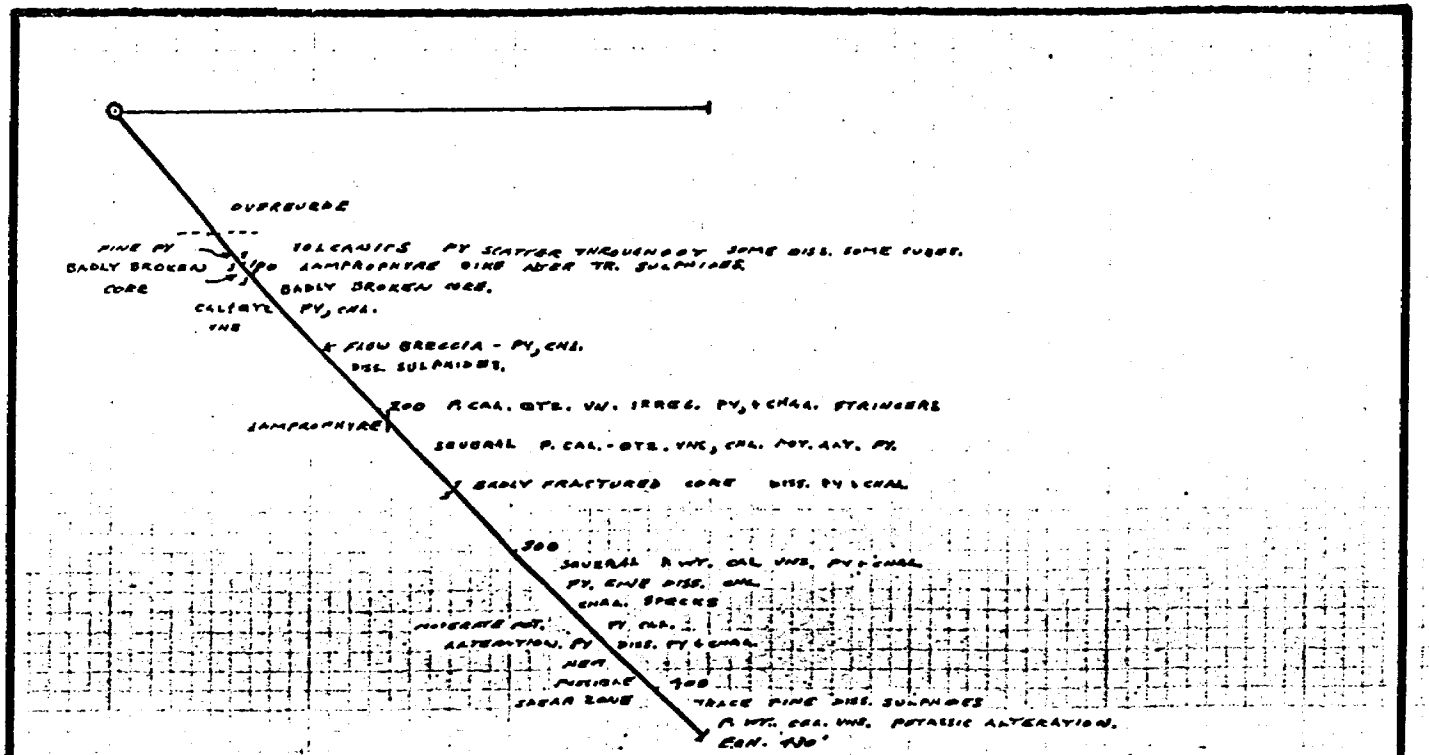
D.D.H. P-85-8 SCALE: 1"=200'

DATE: NOV. 1985

DRN. BY: W.D.P.



PROTEUS RESOURCES INC.
D.D.H. P-85-9 SCALE: 1"=100'
DATE: NOV. 1985
DRAWN BY: WDP

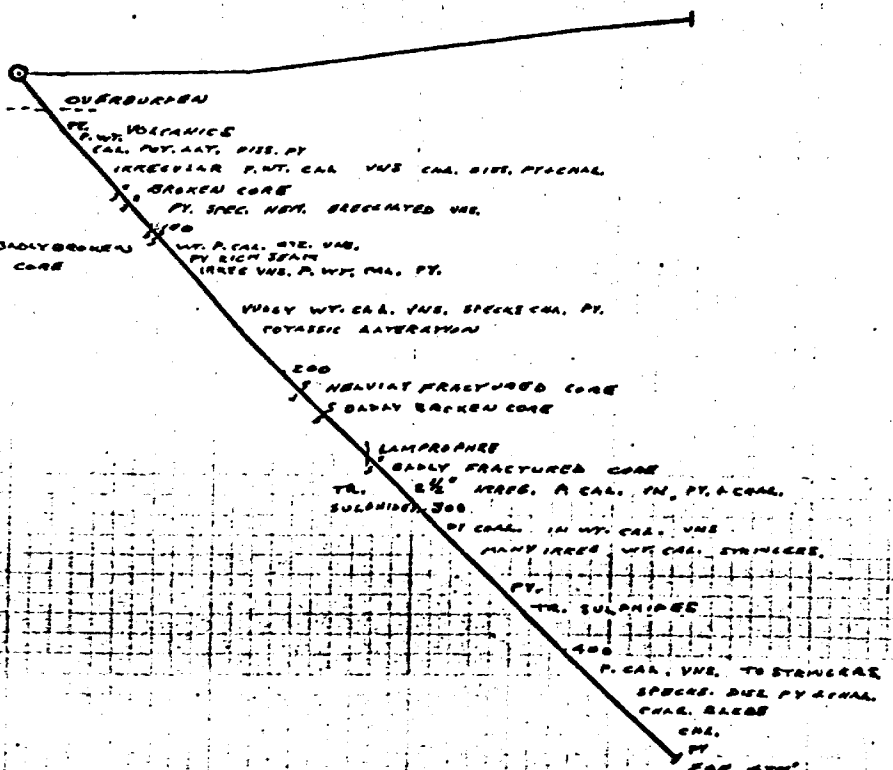


PROTEUS RESOURCES INC.

D. D. H. P-85-10 SCALE: 1" = 100'

DATE: NOV. 1985

DRN. BY. W.D.P.

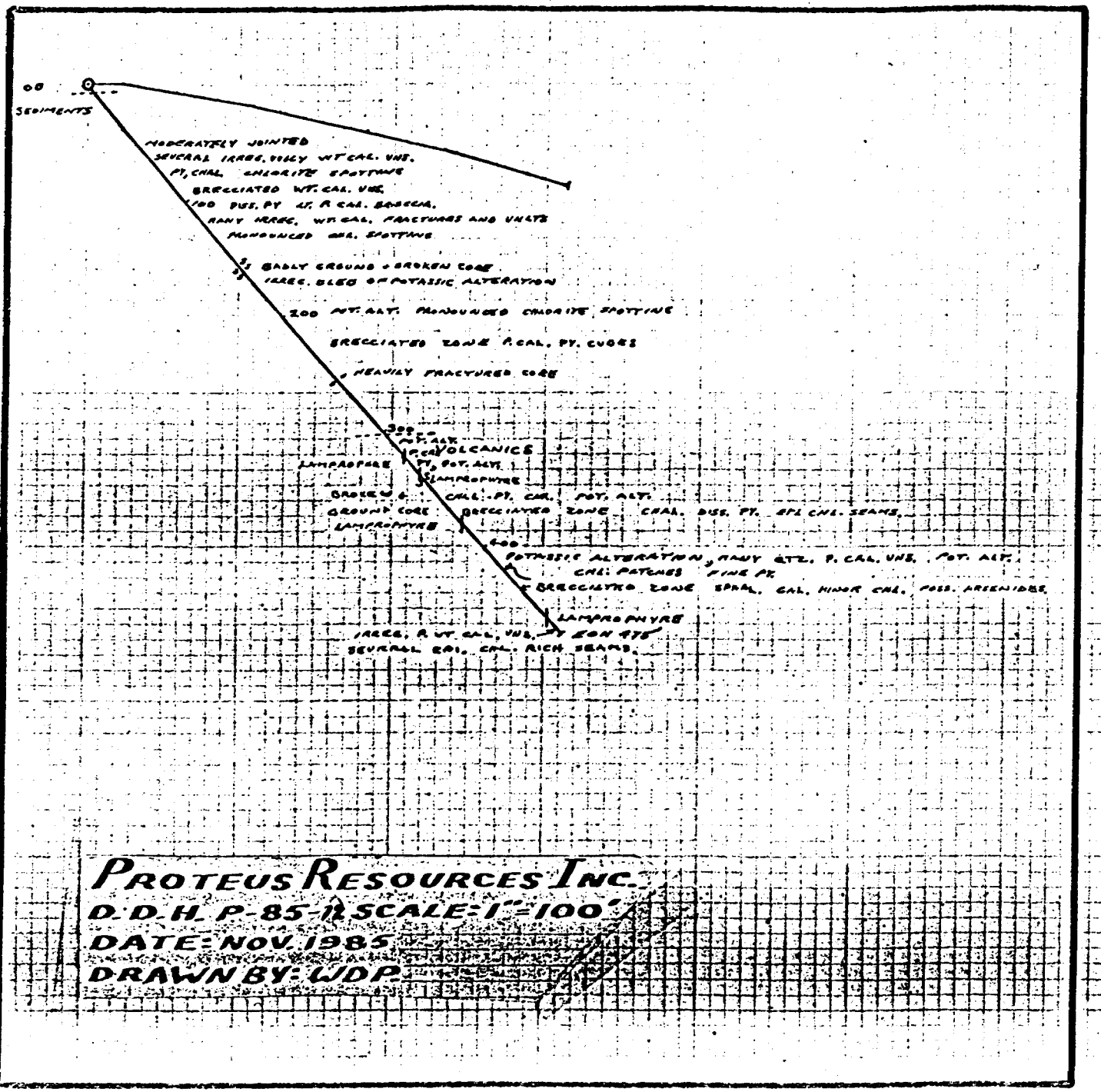


PROTEUS RESOURCES INC.

D.D.H. P-85-11 SCALE: 1"=100'

DATE: NOV. 1985

DRN. BY: WDP

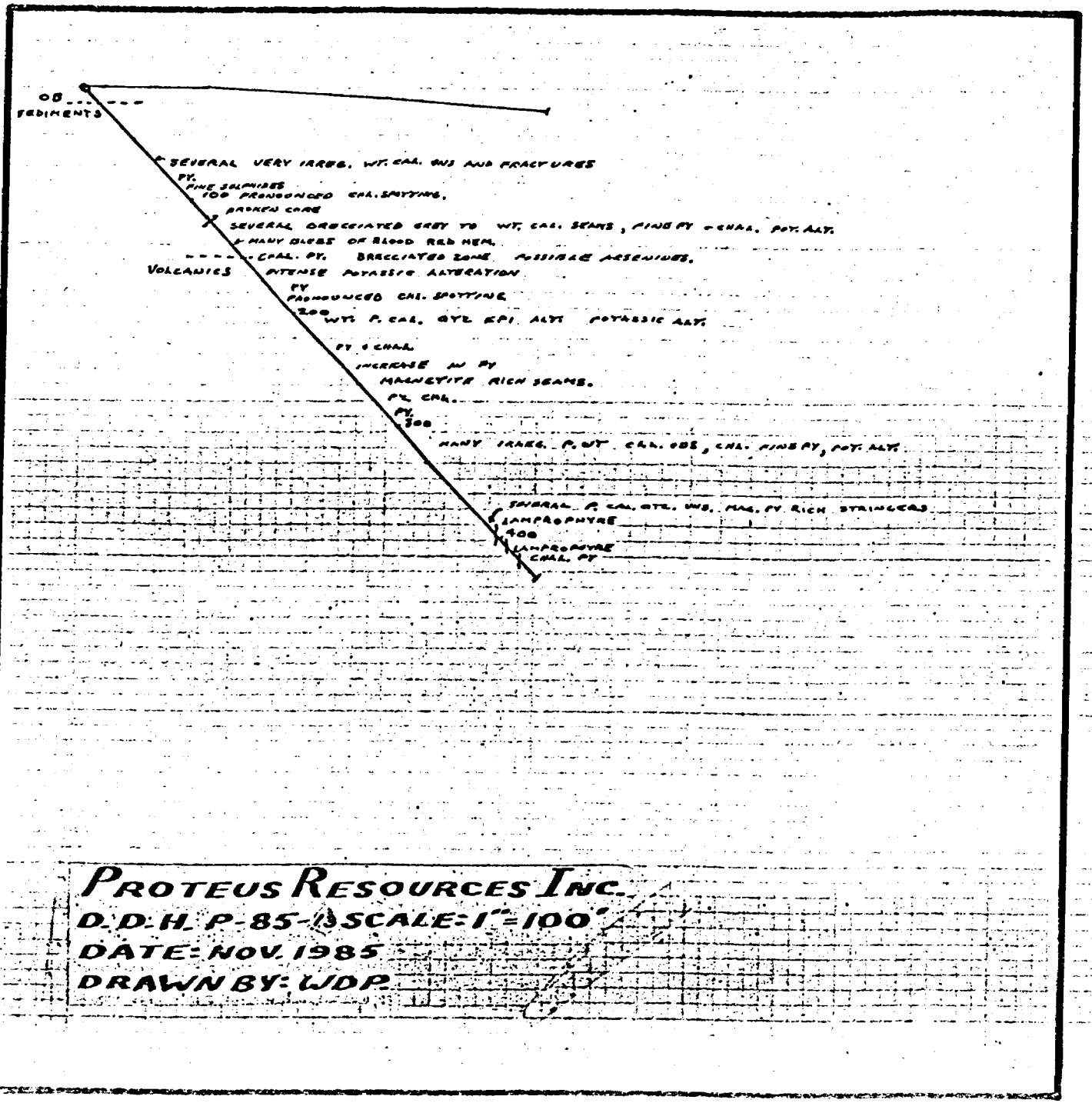


PROTEUS RESOURCES INC.

D.D.H. P-85-11 SCALE: 1"=100'

DATE: NOV. 1985

DRAWN BY: WDP

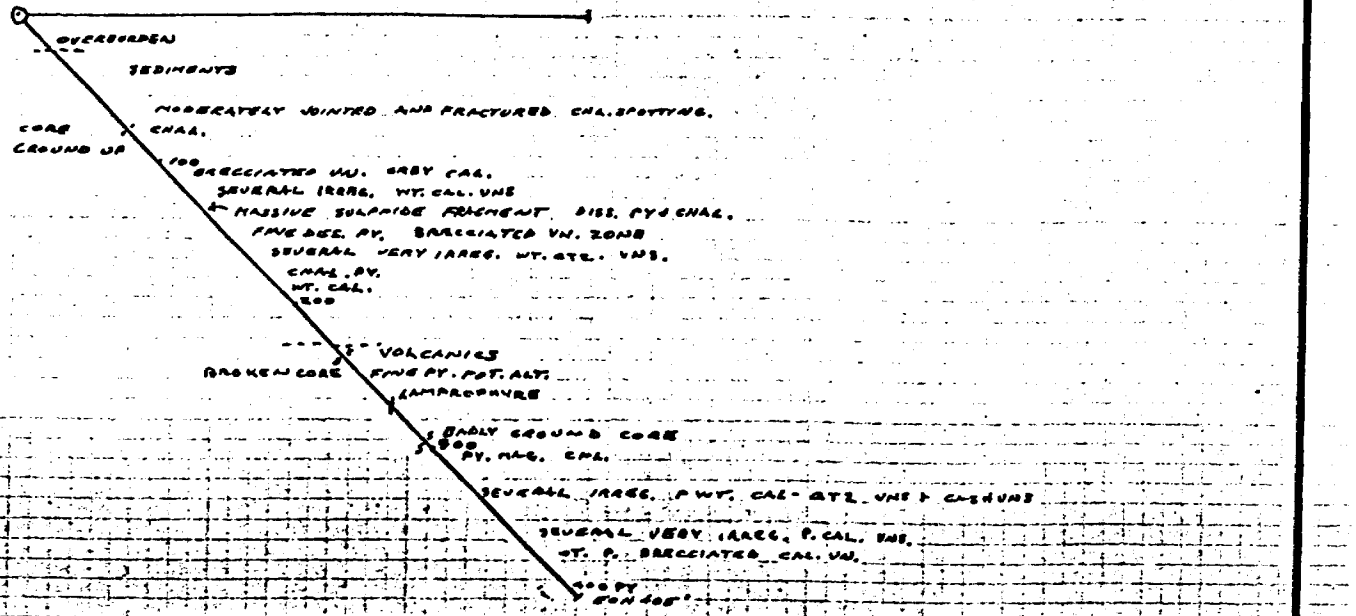


PROTEUS RESOURCES INC.

D.D.H. P-85-13 SCALE: 1"=100'

DATE: NOV. 1985

DRAWN BY: WDP

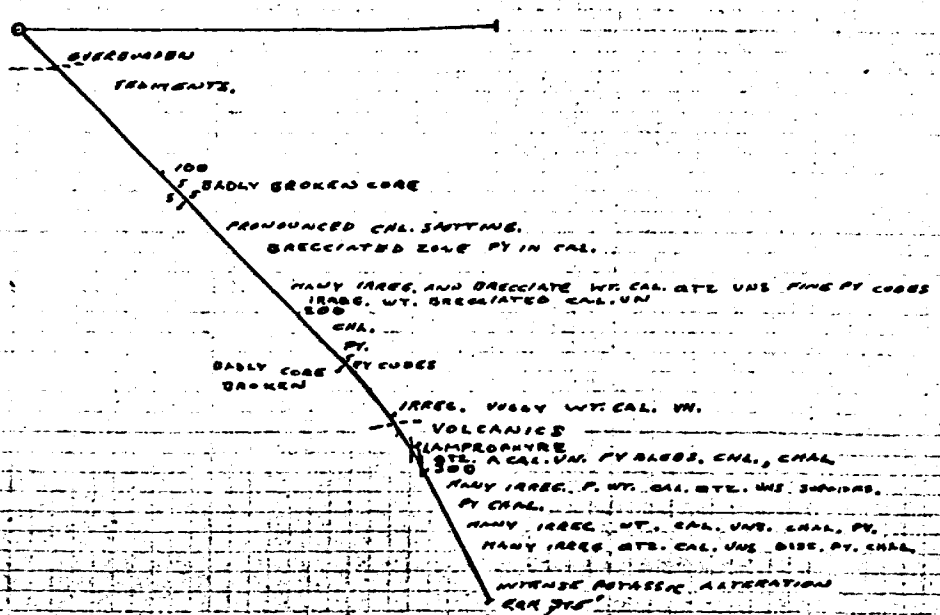


PROTEUS RESOURCES INC.

D.D.H. P-85-14 SCALE: 1" = 100'

DATE: NOV. 1985

DRAWN BY: WDP



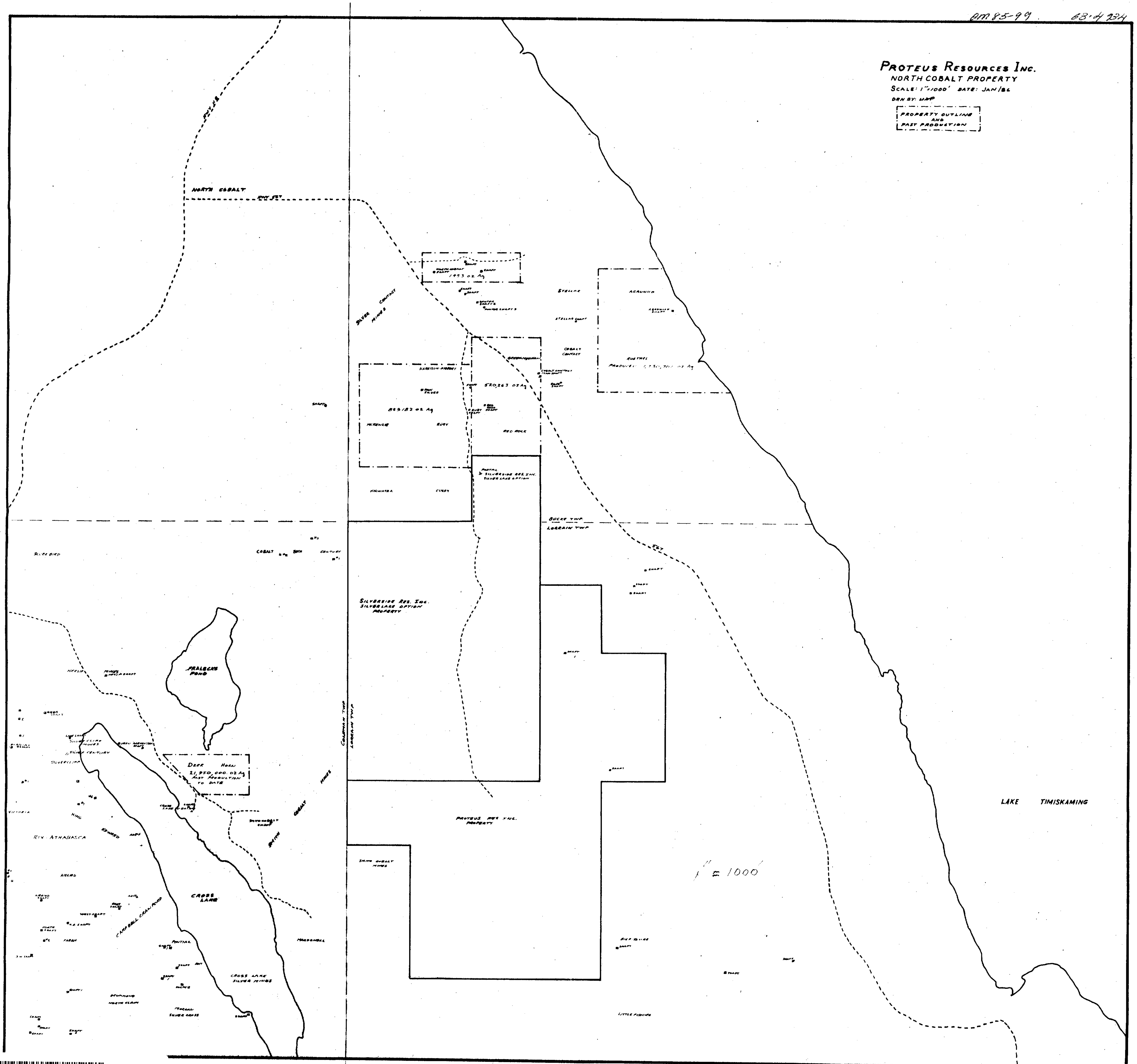
PROTEUS RESOURCES INC.

D.D.H. P-85-13 SCALE: 1" = 100'

DATE: NOV. 1985

DRAWN BY: WDP

OM85-99 63.4934



31M05NE0108 63.4934 LORRAIN

200

BUCKE TWP

LORRAIN TWP

CON 12

COLEMAN TWP

LORRAIN TWP

CON 11

POWER LINES

PATENTED CLAIM
SE¼ of NE¼ N½ LOT 1 CON 12

PATENTED CLAIM
NE¼ of SE¼ S½ LOT 1 CON 12

T-27917

T-27789

T-27790

T-27793

T-27828

T-25997

T-3521

T-46861

T-25661

T-11627

T-31634

T-31635

T-46862

AMADOR MINE

POND

ARIZONA

PROTEUS RESOURCES INC.

GEOLOGICAL ORIENTATION PLAN

SYMBOLS

LEGEND

SILVER VALUES

GOLD VALUES

DIABASE - PURPLE PINK

SEDIMENTARY ROCK - BROWN

ULTRAMAFIC VOLCANICS GREEN

SCALE: 1"=400'

DATE: OCT 1985

DRAWN: W.B.P.

CHECKED:

OM85-99

63.4934

31M05NE0108 63.4934 LORRAIN

PROTEUS RES. INC.

DDHOLES SOUTH GRID BASE MAP

SCALE: 1" = 40' JULY 86

P-86-16
P-86-17
P-86-19
P-85-11
P-86-1
P-86-18
P-85-10
P-86-24
P-86-2
P-86-20
P-86-29
P-86-12
P-86-26
P-86-13
P-86-27
P-86-25
P-86-14
P-86-28
P-86-34
P-86-31
P-86-30
P-86-5
P-86-6
P-85-9
P-86-35
P-86-33
P-86-22
P-86-23
P-86-21
P-86-15
P-86-36
P-86-32

400 N
200 N
0
200 S
400 S
600 S
1000 W
800 W
600 W
400 W
200 W
0
200 E
400 E

63-4934

31MRSNE0166 63.4934 LORRAIN

31M05NE0108 63.4934 LORRAIN