

DRILLING REPORT

Deer Park Molybdenum Property

Trail Creek Mining Division

Located 29 Km. West of Castlegar, B.C.

NTS 82 E/8

Lat. $49^{\circ}20'N$

Long. $118^{\circ}02'W$

Owned and Operated By

Utah Mines Ltd.

Work Performed Between September 14 - November 25, 1981

Tom Pollock, M.Sc.A
Utah Mines Ltd.

Vancouver, B.C.
April, 1982

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SIMPLIFIED GEOLOGY AND DIAMOND DRILL HOLES COLLAR LOCATION
PLAN (Scale 1:5000)

Plate
1

SUMMARY

The Deer Park Property is located 29 kilometers west of Castlegar, B.C.

The 1981 drill program consisted of deepening DP-14 drilled by Utah Mines Ltd. in 1980 and then drilling a new hole DP-15 for a total meterage of 1121.7 metres (3680 feet).

Both holes returned discouraging results because of their presence in pink granite which was present in sub-surface quantities much larger than anticipated.

INTRODUCTION

GENERAL STATEMENT

During 1981, a second season of drilling was completed by Utah Mines Ltd. on the Deer Park Molybdenum Property. The program consisted of deepening DP-14 started in 1980 and then drilling a new hole (DP-15) both of which were in the vicinity of the northwest breccia. The geologist supervising the work for Utah Mines Ltd. was Tom Pollock with Jonas Rybij as his assistant.

This report will claim the major costs of this summers drill program for assessment purposes.

LOCATION AND ACCESS

The Deer Park Molybdenum Property is located approximately 29 kilometres west of Castlegar, B.C. (Figure 1). The claims lie within the Kettle River map sheet, NTS 82 E/8, at latitude 49°20'N and longitude 118°02'W.

Access to the property is by Highway No. 3, west from Castlegar, for 41 kilometres and then north 12 kilometres by a gravel road.

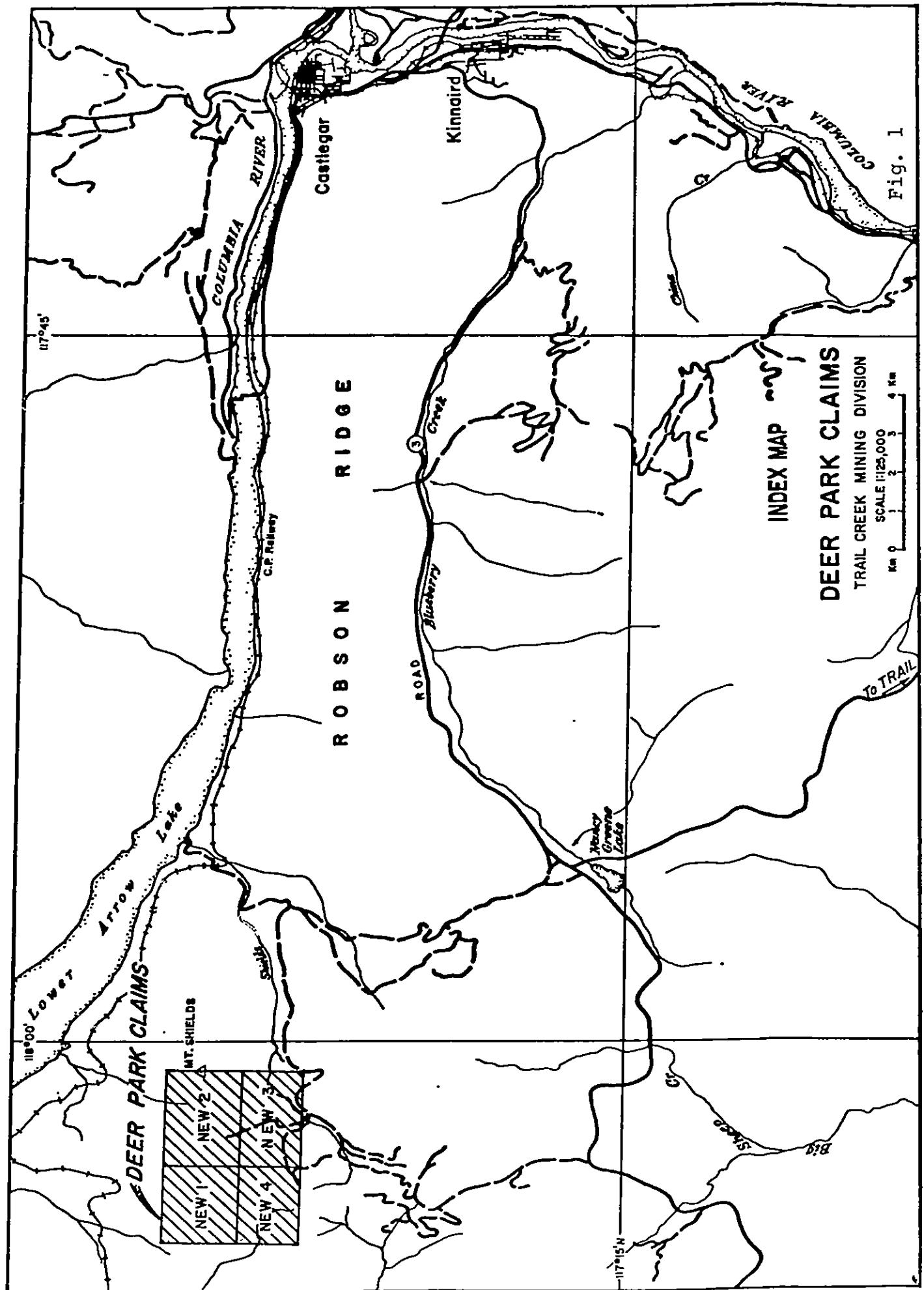
PHYSICAL SETTING

The claims lie within the Christina Range of the Monashee Mountains. Property relief varies from 1000 to 1788 metres at the top of Mount Shields, which is a prominent landmark in the area.

The region is generally heavily timbered and as a result logging operations at various scales are continually present. Approximately 10% of the property is clear of trees due to logging and the presence of soil free rock ridges.

HISTORY

Previous exploration work dates back to the early 1900's when the property was known as the Midas Group. Most of the work at that time consisted of driving short adits and shafts on mineralized quartz veins. More recent work by West Coast Mining and Exploration, and Amax Ltd. included geological mapping, soil sampling, geophysical surveys and diamond drilling. In 1971, West Coast Mining and Exploration drilled seven holes totalling 549m.



During 1974, Amax Ltd. drilled six holes totalling 1582m, bringing the total meterage drilled before Utah optioned the property in 1979 to 2131m.

The 1979 field work by Utah Mines Ltd. consisted of geological remapping, diamond drill core relogging and localized sampling of the core, geochemical surface rock sampling and an altimeter survey.

Utah Mines Ltd. began their first season of drilling on the property in 1980. One hole DP-14 was drilled to a depth of 762.6 metres with the objective of intersecting the source of molybdenum bearing porphyry dykes found in the breccia units.

CLAIMS

During May 1980, the 130 two-post claims comprising the Deer Park Property were abandoned and re-staked by Amex Exploration Services Ltd. for Utah Mines Ltd. Four "NEW" claims totalling 63 units were located, giving the property one Legal Corner Post and one Anniversary Date, namely, May 21st. The following table gives the status of the four NEW claims.

<u>Claim Name</u>	<u>Record No.</u>	<u>Loc. Date</u>	<u>Rec. Date</u>	<u>Expiry Date</u>
NEW 1	514	May 20/80	May 21/80	May 21/90
NEW 2	515	May 17/80	May 21/80	May 21/90
NEW 3	516	May 19/80	May 21/80	May 21/90
NEW 4	517	May 19/80	May 21/80	May 21/90

Table I: Pertinent data on the NEW claims composing the Deer Park Property.

Two claims, Camel 25 and 26 previously owned by Amax Ltd. fall within the re-staked ground, however, they have since been sold to Utah Mines Ltd. and will become part of the "NEW" claims when they are allowed to lapse in one year.

GEOLOGY

Regional Geology:

The Deer Park Property is underlain by the Nelson intrusions (granodiorite, granite, monzonite and quartz monzonite) which has been intruded by the Cretaceous Valhalla Granites and the Paleocene Coryell Intrusions (syenite, monzonite and granite).

Rhyolite, dacite tuffs, continental sediments and rhyolite lavas of the Kettle River Formation overlie and may be in part correlative with the Coryell Intrusions. They are overlain in turn by basic volcanics of the Phoenix Group and Miocene olivene basalts.

Older rock in the area include the Rossland Group (Jurassic) volcanics, the Anarchist Group (Permian) sediments and the Mount Roberts Formation (Permian and/or Pennsylvanian) sediments. The oldest rocks are paragneiss, crystalline limestone and pegmatite of the Proterozoic Monashee and Grand Forks Groups.

All formations except the Miocene basalts have experienced some deformation. Prominent north-trending fault and linear zones are displayed by large valleys in the area.

LOCAL GEOLOGY

Bedrock is composed of a variety of intrusive rocks which range considerably in grain size, texture and composition. A hornblende biotite monzonite and a leucocratic syenite are separated by a northwest trending 600 metre wide aphanitic granite porphyry which is intruded by irregular medium grained aplitic granite bodies in the northwest (see Plate 1 in map pocket).

A polyolithic breccia zone trends east-west across the northwest intrusive grain and measures approximately 300 x 1200 metres. Fragment size and matrix are highly variable and the presence of breccia fragments not representing the adjoining country rocks suggests some transportation of the fragments.

A dominantly northwest striking, near-vertical swarm of feldspar porphyry, lamprophyre and dacite dikes cut most of the above units. The dikes are both pre and post brecciation except for the molybdenum positive dikes (described in the following section), which are contemporaneous with brecciation.

The property abounds with air-photo lineaments striking in many directions. The most prominent of these is the Deer Park Fault which has a strike of 146° and a dip to the northeast at 80°. This fault is of particular interest because it parallels the general strike of the area and cuts between the two west breccias.

On surface the fault is easily recognized in the logged off areas as a slight depression roughly three metres wide cutting across country. The direction of movement on the fault is as yet unknown but might be determined on surface if the fault was uncovered by trenching.

MINERALIZATION AND ALTERATION

Molybdenum is the most abundant economic mineral on the property. It has been found in pink/grey syenite and granite porphyry, units 12, 12b and 12c, dark grey granite porphyry, unit 8, and dark grey feldspar porphyry, unit 10, within the vicinity of the breccia bodies. Molybdenite is also found within the matrix of the breccias and vug fillings with magnetite, specularite and pyrite.

Little molybdenum mineralization has been found on surface and to date only short, sporadically mineralized, sections have been encountered in diamond drilling by both West Coast Mining and Exploration, and Amax. The best intersections were 15.2 metres in DP 71-7 containing 0.22% Mo and 18.3 metres in DP 74-4 containing 0.10% Mo including 3.1 metres of 0.28% Mo. Minor amounts of copper and zinc were also encountered.

Tungsten may also be of importance on the property; DP 74-2 averaged 0.0197% WO₃ over the 212 meter length of the hole.

A variable, locally intense quartz-magnetite vein stockwork cuts all rock types but appears most intense peripheral to the breccias. A weak clay-pyrite alteration halo is coincident with the west breccia and centered around a small, but strong, quartz-sericite-pyrite zone around the old shaft. The quartz-sericite-pyrite forms the matrix to the breccia at this locality and some disseminated Mo is also conspicuous with the alteration. A small clay-pyrite zone is present in the east breccia.

1981 DRILL PROGRAM

OBJECTIVES

Strong phyllitic alteration was intersected in the bottom of DP-14 drilled in 1980. The hole was deepened in 1981 to determine whether the alteration continued to depth and if so, its significance. It was also hoped that the hole would intersect the northwest breccia at depth in order to determine its extent.

A second hole (DP-15) was drilled to the south of DP-14 between the two west breccia pipes. It was postulated that this hole would intersect a highly siliceous molybdenite bearing zone associated with a deep-seated intrusion. The west breccias and the argillic alteration intersected in DP-14 are believed to be part of this system.

DRILL HOLE SUMMARIES

Longyear Canada Limited utilizing a Longyear "44" diamond drill performed the required drilling for this summer's drill program. To date two holes (DP-14 and DP-15) have been drilled on the property totalling 1884.3 metres of which 1121.7 metres were drilled this summer. DP-14 was totally confined to the claim NEW 2 while DP-15 was confined to NEW 3.

The first phase of the 1981 drill program began on September 21 and consisted of the extension of DP-14 starting at 762.6 metres. The hole was situated 404 metres, at a bearing of 38.5°, northeast of the Legal Corner Post (LCP) for the NEW claims (Plate 1). The hole was collared in coarse grained quartz monzonite at a bearing of 180° and inclined at -70°. On October 12, the hole was terminated at 951.6 metres as the rock was becoming more massive and alteration was decreasing.

Core recovery for the extension DP-14 averaged greater than 90%, although local sections were far below this where sheet fracturing occurred in the rock.

The second phase of the drill program consisted of drilling a new hole (DP-15) south of DP-14 to a depth of 932.7 metres. The hole was located 358 metres east-southeast of the LCP for the NEW claims at a bearing of 096.0°. DP-15 was collared in polymictic breccia at a bearing of 215° and inclined at ~81°. This hole was terminated on November 23 due to the lack of mineralization or alteration. Core recovery averaged greater than 95% except where sheet fracturing was present.

All the core drilled during this summer was logged in detail by Tom Pollock, a Utah Mines Ltd. geologist. After the core was logged, it was split in half with one-half of the core returning to the core box to be stored on the property inside a wooden core shack. Of the remaining core, alternate three metre sections were sent to Chemex Labs Ltd. for analysis. The remaining three metre sections were bagged and stored in the core shack. The wooden core boxes in the core shack (located 350 metres north of the LCP for the property) are clearly labelled with metal tags giving the hole and box number, and the meterage contained within.

Further data accompanying this drill report is found in the Appendices following the report. The data consists of the complete diamond drill logs and associated assay logs for both holes drilled, found in Appendices D and E respectively. A statement of qualifications, statement of major costs and major contract invoices are given in Appendices A, B and C respectively.

The two following tables give the Sperry-Sun survey results taken down both holes.

<u>Depth (m)</u>	<u>Azimuth</u>	<u>Inclination</u>
0.0	180.0	-70.0
15.2	183.0	-70.0
213.7	193.5	-70.0
428.5	196.5	-70.0
752.8	199.0	-70.7
951.6	213.0	-70.0

Table II: Sperry-Sun survey results for DP-14.

<u>Depth (m)</u>	<u>Azimuth</u>	<u>Inclination</u>
0.0	215.0	-81.0
304.8	218.0	-83.0
609.6	214.0	-84.0
801.6	225.0	-84.0
914.4	227.5	-84.0

Table III: Sperry-Sun survey results for DP-15.

DRILL HOLE GEOLOGY

Lithology:

The extension of DP-14 and the majority of DP-15 were in pink granite.

The pink granite in the bottom of DP-14 was very similar to that in the mid-sections of the hole. The only noticeable change from where it started at 480 metres to the bottom of the hole was in the quartz content of the rock. At the start it was difficult to see quartz in the rock without the use of a hand lense, however in the lower 150 metres quartz was easily visible. The pink granite in DP-14 was characterized by its coarse grained to crowded porphyry texture, weak magnetism, extreme hardness (where unaltered), weak alteration of biotite and hornblende to chlorite, and its homogeneity.

Pink granite was present in DP-15 from 58.4 metres to the bottom of the hole. It was similar to that described above except for the first 150 metres in which the rock had a strong porphyritic texture and was therefore called granite porphyry. It consisted of 20 - 25% subhedral potassic feldspar phenocrysts

in a very fine grained to aphanitic potassic feldspar rich matrix. The grain size of the matrix continually became coarser with depth until the rock reached a homogeneous coarse grained rock as seen in DP-14

The top 58.4 metres of DP-15 were in polymictic breccia. As its name implies, the fragment types making up the breccia were numerous although the surrounding rock lithologies predominated. The matrix was siliceous, dark grey-green colour, with 1% pyrite, weak magnetism and many small veinlets containing quartz, carbonate, fluorite and magnetite. The angle of the contact between the breccia and its host is unknown due to the paucity of outcrop.

The predominant dyke type intersected in both holes was andesitic in nature and most of these were present above 500 metres. The next most common dyke type was aplitic in nature and these mainly occurred below 500 metres. Other dykes intersected were porphyritic but very few in number. A small number of the aplite dykes contained disseminated molybdenite as did a single granite porphyry dyke intersected in the polymictic breccia unit. Of particular interest near the bottom of both holes was the presence of sheet fracturing. It was present in DP-14 from 790 to 856 metres and from 906 to 930 metres. In DP-15, it occurred mainly from 860 to 905 metres although local sections up to five metres in length occurred below 700 metres. A small percentage of the fractures cut the core at 30° making the dip of the fractures close to that of the Deer Park Fault. Therefore, some of the sheet fracturing might have resulted from movement on the Deer Park Fault.

In most cases the fracturing was perpendicular to the core axis and averaged one fracture per centimeter. This tight fracturing occurred over roughly 50% of the above mentioned intervals. In other locations the fracturing decreased to as little as one fracture every 10 centimetres. Fracturing occurred only where the rock was fresh even though well altered rock was present between some fractured sections. On occasion the rock was not completely broken through, while in other locations it was intensely fractured into irregular pieces.

Alterations:

The most common form of alteration logged in the 1981 drilling was propylitic in nature. The degree of this alteration was rarely greater than weak and was characterized by the alteration of biotite plus minor hornblende to chlorite and on occasion epidote. Alteration to at least the propylitic stage is present in all the pink granite.

Argillic alteration occurs sporadically throughout the pink granite with the longest intersections being roughly 50 metres. Within these zones the degree of alteration varied from locally weak to strong. The length of the argillic altered sections decreased greatly below 700 metres.

As the extent of argillic alteration increased in the pink granite the following changes occurred in the rock: 1) the colour changed from dark red to whitish pink to totally white; 2) pyrite content increased, partially at the expense of biotite and magnetite; 3) the hardness of the rock decreased and 4) the clay content + minor quartz and carbonate increased at the expense of feldspar.

Locally the rock has a fragmented texture composed of a siliceous matrix containing white clay altered fragments. Weak clay alteration envelopes surround quartz veins only in the argillic altered sections. Quartz veins out of the argillic zones have no alteration envelopes.

Mineralization:

Core from the 1981 drilling program returned discouraging results in regards to mineralization. Molybdenum in the pink granite averaged less than 20 ppm. Molybdenum anomalies that were present, were generally from disseminated molybdenite either in aplite dykes or locally in the granite. The polymictic breccia was anomalous from 39 to 48 metres and averaged 0.12 percent molybdenum. The molybdenite was in a disseminated form and in quartz veinlets. Molybdenite in the medium grained biotite hornblende monzonite intersected in DP-14 down to 480 metres averaged roughly 30 ppm molybdenum.

The occurrence of zinc was slightly more erratic than molybdenum particularly from 412 to 600 metres in DP-15 and in the monzonite unit in DP-14. Anomalies in DP-15 were largely the result of sphalerite in aplite and to a lesser extent andesite dykes. Zinc in the pink granite averaged 60 ppm; while in the monzonite unit it averaged roughly 150 ppm with some of the largest anomalies once again being the result of sphalerite rich dykes.

Tungsten over the entire length of both holes was relatively minor averaging less than 10 ppm.

Fluorine values decreased down-hole in DP-15 from an average of 1800 ppm to 1300 ppm. Results from DP-14 showed that the fluorine in the monzonite unit was at least 300 ppm less than in the pink granite.

CONCLUSIONS

Exploration work completed to date on the Deer Park Property by Utah Mines has indicated the following:

- 1) The pink granite unit lying along the northern edge of the northwest breccia is much larger than anticipated. It is believed that the granite is part of a circular or oval shaped pipe, steeply dipping to the southeast.
- 2) The pink granite has no anomalous molybdenum and should be avoided as much as possible in further drilling.
- 3) The northwest breccia definitely tapers with depth but to what extent is unknown as no breccia was intersected at depth in either deep hole. However from the large amount of pink granite cut by DP-14 and DP-15, and its position in relation to the northwest breccia it is believed that the breccia does not exist below 750 metres.
- 4) Most of the molybdenite on the property lies peripheral to and within the breccia units. The northwest breccia is of particular interest because of its contained molybdenite bearing pink to grey syenite and granite porphyry dikes.
- 5) The property abounds in structure, particularly in regards to faults and fractures.
- 6) The Deer Park Fault at one period acted as a channelway for upward moving hydrothermal fluids. In the three drill holes that intersected the fault, the fault zone consisted of clay altered fragmented rock in a quartz and carbonate matrix having very little molybdenite. Sporadic clay altered rock was present for up to six metres out from the fault zone.
- 7) Since there were no changes in lithology logged across Deer Park Fault that was intersected by three holes, it is doubtful that there has been much movement on the fault.
- 8) The width of the Deer Park Fault decreases with depth from approximately seven metres on surface to less than one-half metre at 700 metres below surface.
- 9) It is possible that some of the sheet fracturing found near the bottom of DP-14 and DP-15 is the result of movement on the Deer Park Fault.

The age relationships between the various rock units on the property are difficult to comprehend with certainty. However from DP-15, it is believed that the pink granite unit has intruded the aphanitic granite porphyry and most likely the biotite hornblende monzonite. This suggests that the fragments were transported over some distance and not merely, as in the case of the northwest breccia, off the upper side or top of the pink granite. Pink granite fragments are also found in the northwest breccia indicating that the breccia did not result from the pink granite but instead postdates it. The northwest striking swarm of dikes on the property are both pre and post breccia.

REFERENCES

- BOTEL, W.G. 1971, Annual Report 1971 Part II Deer Park Property: West Coast Mining and Exploration.
- LAUB, M.G., and LeBEL, J.L., 1974 Final Property Report Deer Park Property (#587): AMAX.
- NORMAN, G., 1980 Progress Report on Deer Park Molybdenum Prospect: Utah Mines Ltd.
- POLLOCK, T., 1980, Progress Report on the Deer Park Mo Prospect.
- SELLMER, H.W., and DePAOLI, G.M., 1974,1973 Geological, Geochemical and Geophysical Report Deer Park Property, Amax.
- STEVENSON, J.S., 1940, Report on the Midas Group, in VOKES, F.M., ed., Molybdenum Deposits of Canada: Geological Survey of Canada, Economic Report No. 20, P. 287 - 288.
- VERMAN, H., 1970, Annual report Part III Deer Park Property: West Coast Mining & Exploration.

APPENDIX A

STATEMENT OF QUALIFICATIONS

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The field work for this report was done by the following person whose qualifications are outlined below:

T. Pollock, Geologist for Utah Mines Ltd., Vancouver, British Columbia. Completed Hon. B.Sc. (geology) at Queen's University, Kingston, Ontario in 1977; completed M.Sc.A. at McGill University, Montreal, Quebec in 1980; employed by the Ontario Geological Survey as an assistant geologist during the 1974 and 1975 summer field seasons; employed by Inco Limited as a field geologist for the 1976, 1977 and 1978 summer field seasons; employed by the Geological Survey of Canada as a geologist, December 1977 to April 1978; employed by Kelvin Energy Ltd. during the 1979 field season as a field geologist; employed by Utah Mines Ltd. from May 1980 to date as a geologist under the supervision of J.B. Richards, P. Eng.

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APPENDIX B

STATEMENT OF COSTS

STATEMENT OF MAJOR COSTS

	<u>TOTAL COST</u>	<u>CUMULATIVE TOTAL</u>
Longyear Canada Inc.	\$126,258.47	\$126,258.47
Field Supplies	11,084.15	137,342.62
Imperial Oil Limited	10,406.13	147,748.75
Sandner Brothers Lumber Co. Ltd	8,749.00	156,497.75
Groceries	6,517.72	163,015.47
Amex Exploration Services Ltd.	3,957.20	166,972.67
Sperry-Sun of Canada Ltd.	2,800.00	169,772.67
Tilden Rent-a-Truck	2,594.83	172,367.50
Monte Carlo Motor Inn	2,334.46	174,701.96
Chemex Labs Ltd.	2,083.23	176,785.19
Pacific Western Air	1,949.82	178,735.01
North Shore Assoc. for the Mentally Retarded	1,591.80	<u>180,326.81</u>

Therefore, the total value of expenditures towards the Deer Park Property in 1981 were at least: \$180,326.81.

APPENDIX C
MAJOR INVOICES

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annanis Island, New Westminster, B.C. V3M 5P5

Telephone 604-524-2511

Telex 43-51280

Invoice No. 1999

Cust. No. 6051

Job No. 6294

Dest. 062

Utah Mines Ltd.,
Suite 1600,
1050 W. Pender St.,
Vancouver, British Columbia
V6E 3S7

Utah Deer Park
Invoice date: October 27/81
for October 1981

To: Invoice for diamond drilling performed on mining properties located near Castlegar, British Columbia during period September 24-October 11, 1981 per agreement.

Hole No.	Size	From	To	Total	Rate	Amount
DP14	BQ Wireline	2502	3000	498	29.00	14,442.00
		3000	3107	107	32.00	3,424.00
				605		17,866.00

Client Charges-attached
A & W Trucking (1975) Ltd.

Plus 18%	1,045.00
	188.10
	1,233.10

Moves

Hole DP14	
18 1/2 hours @ 66.00	1,221.00
22 hours @ 28.00	616.00
	1,837.00

Reaming Casing

Hole DP14	
40 1/2 hours @ 66.00	2,673.00
5 hours @ 28.00	140.00
1 NQ Bit GR71239	477.00
1 NQ Shell (see later invoice)	-
Prorated recovery (see later invoice)	-
	477.00
Plus 18%	85.86
	562.86

Client Testing

Hole DP14	
2 hours @ 66.00	132.00

\$ 24,443.96

Longyear

~~S.I.F.P.~~

~~11/26/81~~

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue
 Annacis Island, New Westminster, BC V3M 5P5
 Telephone 604-524-2511
 Telex 43-51280
 Invoice No. 2000
 Cust. No. 6051
 Job No. 6294
 Dest. 062

Utah Mines Ltd.,
 Suite 1600,
 1050 W. Pender St.,
 Vancouver, British Columbia
 V6E 3S7

Utah Deer Park
 Invoice date: November 10/81
 for October 1981

To: Invoice for diamond drilling performed on mining properties located near Castlegar, British Columbia during period October 12-27, 1981 per agreement.

Hole No.	Size	From	To	Total	Rate	Amount
DP14	BQ Wireline	3107	3122	15	32.00	480.00
DP15	Overburden	0	16	16	Hourly Rate	-
	NQ Wireline	16	1500	1484	23.50	34,874.00
		1500	1756	256	24.90	6,374.40
				1771		41,728.40

Client Charges-attached
Thiessen Equipment Ltd.

	1,380.70
Plus 18%	<u>248.53</u>
	1,629.23

Moves

Hole DP14 to DP15	
47 1/2 hours @ 66.00	3,135.00
4 hours @ 61.40	245.60
64 hours @ 28.00	<u>1,792.00</u>
	5,172.60

Reaming Casing

Hole DP14	
Prorated recovery-see later invoice	-

Client Testing

Hole DP14	
2 1/2 hours @ 66.00	165.00

Hole DP15

1 hour	<u>66.00</u>
	231.00

Penetration of Overburden

Hole DP15	
8 hours @ 66.00	528.00
1 NW Shoe E1897	
1 3 7/8" tricone	
Plus 18%	<u>62.96</u>
	412.71
	940.71
\$	<u>49,701.94</u>

Longyear

12/2/81

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, BC V3M 5P5

Telephone 604-524-2511

Telex 43-51980

Invoice No. 2176

Cust. No. 6051

Job No. 6294

Dest. 062

PPPPPPP
DEC021981

UTAH MINES LTD.
EXPLORATION DEPT.

Utah Mines Ltd.,
Suite 1600,
1050 W. Pender St.,
Vancouver, British Columbia
V6E 3S7

Utah Deer Park
Invoice date: November 26/81
for November 1981

To: Invoice for diamond drilling performed on mining properties located near Castlegar, British Columbia during period October 27-November 16, 1981 per agreement.

Hole No.	Size	From	To	Total	Rate	Amount
DP15	NQ Wireline	1756	2000	244	24.90	6,075.60
	"	2000	2272	272	26.90	7,316.80
	BQ Wireline	2272	2500	228	26.90	6,133.20
	"	2500	2681	181	29.00	5,249.00
				925		24,774.60 ✓

Client Charges-attached
Johnston Terminals Ltd.

	534.89
Plus 18%	<u>96.28</u>
	631.17

Reaming Cave and Lost Circulation
Hole DP15

34 hours @ 66.00 ~ 2,244.00

Hole DP14
Prorated recovery-see later invoice

2,244.00 ✓

Client Testing

Hole DP15
3 hours @ 66.00 198.00

Hole Reduction

Hole DP15
11 hours @ 66.00 726.00 ✓

\$ 28,573.77 ✓

Longyear

W981 Park
12/23/81

Utah Mines Ltd.,
Suite 1600,
1050 W. Pender St.,
Vancouver, British Columbia
V6E 3S7

LONGYEAR LTD INC.

CONTRACT DRILLING DIVISION

721 Aldford Avenue
Annacis Island, New Westminster, BC V3M 5P5
Telephone 604-524-2511
Telex 43-51280

Invoice No. 2177
Cust. No. 6051
Job No. 6294
Dest. 062

Utah Deer Park
Invoice date: December 9/81
for November 1981

To: Invoice for diamond drilling performed on mining properties located near Castlegar, British Columbia during period November 16-26, 1981 per agreement.

Hole No.	Size	From	To	Total	Rate	Amount
DP15	BQ Wireline	2681	3000	319	29.00	9,251.00
		3000	3061	61	32.00	1,952.00
				380		11,203.00

Demobilization

Lump sum 2,800.00

Moves

Hole DP15
1 hour 66.00

Move Out

41 hours @ 66.00	2,706.00
57 hours @ 28.00	1,596.00
	<u>4,302.00</u>
	<u>4,368.00</u>

Reaming Cave and Lost Circulation

Hole DP14	(233.64) CR.
Prorated recovery-lump sum	(42.06) CR.
Plus 18%	(275.70) CR.
	<hr/>
	\$ 18,095.30
	<hr/>

IMPERIAL OIL LIMITED
P.O. BOX 7100 DON MILLS, ONT. M3C 2X5

2916241793

ACCT. NO. NUMBER

1 PREVIOUS BALANCE	43032	40
2 PAYMENTS RECEIVED/ADJUSTMENTS		
04 NOV.	2081.86	
20 NOV.	2221.76	
3 UNPAID BALANCE	6 U.S. EXCHANGE	
4 ADD CREDIT CHARGE	7 NEW BALANCE	
683494	683494	
5 ADD PURCHASES	8 MINIMUM PAYMENT	
683494	683494	

STATEMENT DATE 11 23 81

291624179340196AAA

PLEASE RETURN THIS PORTION WITH YOUR PAYMENT ANY CHARTERED BANK MAY PAY IMPERIAL ON YOUR BEHALF

35.0

PO BOX 7120
DON MILLS, ONT. M3C 2X5
CREDIT CARD STATEMENT

UTAH MINES LTD
STE 1600
1050 W PENDER ST
VANCOUVER BC

V6E 3S7

PLEASE PRINT CHANGE OF
NAME OR ADDRESS HERE

NEW BALANCE
6834.94

YOU MAY PAY
EITHER AMOUNT

MINIMUM PAYMENT
6834.94

PAYMENT NOW DUE
SEE REVERSE FOR DETAILS

2916241793068349406834945 A A



10/13/81

Lumber Co. Ltd.

SANDNER
BROTHERS

P.O. BOX 40.

CHRISTINA LAKE, B.C. V0H 1E0

TELEPHONE 447-9411 TELEX 041 542

September 29, 1981

UTAH MINES LTD.
1600 - 1050 Pender Street
Vancouver, B.C.

To rental work at Shields Creek on road repair and drill setup.

Aug. 20 - 1 hours move time TD25 @ 93.00	93.00
Low bed CP12-CP11 1.5 hrs @ 60.00	90.00
Aug. 21 - Work at culvert 4 hrs @ 93.00	372.00
- Work on road (culvert to cabin) 5 hrs @ 93.00	465.00
- Swamper 9 hrs @ 12.00	108.00
- Move out to low bed 1 hr @ 93.00	93.00
- Low Bed CP11-CP12 1.5hrs @ 60.00	90.00
Sep. 18 - Walk out TD25C from CP4 3 hrs @ 93.00	279.00
21 - Work with drill crew 8 hrs @ 93.00	744.00
22 - Work with drill crew 11.5 hrs @ 93.00	1,069.50
23 - Work with drill crew 5 hrs @ 93.00	465.00
- Low bed move in and out 3 hours each way	
6 hours @ 60.00	360.00
- Walk TD25C highway back to CP4-3 hrs 3 @ 93	279.00
Sep. 21 - Hough 80 loader 5 hrs @ 50.00	250.00
22 - Hough 80 loader 1 hrs @ 50.00	50.00
Sep. 21 - 518 Skidder to pull A&W truck (snow-no chains)	
1 hours @ 55.00	55.00

Invoice total	4,962.50

INVOICE NUMBER 143884

OK /7.21
D22: Part

Jay, Attk

RECEIVED

OCT 23 1981

10/26/81
UTAH MINES LTD.
EXPLORATION DEPT.

Lumber Co. Ltd.



SANDNER
BROTHERS

P.O. BOX 40,

CHRISTINA LAKE, B.C. V0H 1E0

TELEPHONE 447-9411 TELEX 041-542

UTAH MINES LTD.
1600 - 1050 Pender Street
Vancouver, B.C.

Low bed move to Shields Creek October 14, 1981 3 hours @ 45.00	135.00
To move drill rig in Shields area October 15, 1981 D6 Cat 9 hours @ 55.00	495.00
Broken Chokers	160.00
Low bed move from Shields Creek October 16, 1981 3 hours @ 45.00	135.00
Invoice Total	925.00

INVOICE NUMBER 143893

Dear Paul

OKB Deles

UTAH MINES LTD. -- EXPLORATION DEPT.

DISTRIBUTION

Item	Major	Minor	Act.	Exp.	Amount
0	A336	0410	0	0	925.00
0		0	0	0	
0		0	0	0	
0		0	0	0	
0		0	0	0	
Entered		Invoice A no.			
Prices		Discount			
ed by		Amount Payable			
		Check No.			



SANDNER
BROTHERS

Lumber Co. Ltd.

P.O. BOX 40,

CHRISTINA LAKE, B.C. V0H 1E0

TELEPHONE 447-9411 TELEX 041-542

December 9, 1981

Canadian Longyear Ltd.
721 Aldford, Annacis Island
New Westminster, B.C.

November 25, 1981

Low bed move TD25 to Shields Mountain Road	2.5 hours @ 50.00	125.00
--	-------------------	--------

November 25, 1981

TD25 work involved with moving drill rig out of Shields Mountain area	10.5 hours @ 93.00	976.50
Swamper	10.5 hours @ 12.00	126.00

November 26, 1981

TD25 to finish drill loading and back to highway	10 hours @ 93.00	930.00
Swamper	10 hours @ 12.00	120.00
Low bed Shields Mountain back to Cut Block	2.5 hours @ 50.00	125.00

INVOICE TOTAL \$2,492.50

INVOICE NUMBER 143911

PAY FROM NORTH BAY

Approved by

Charge to:

32/30 Stah New York
"Charge Client"
extra copies

RECEIVED
DEC 15 1981

C. L. SANDNER

D. W. SANDNER

K. G. SANDNER

AMEX EXPLORATION SERVICES LTD.

A.A.(AB) ABLETT

Confidential Work

BUS. 376-0433
RES. 376-7490

1714 CLIFFORD AVE.
V2B 4G6

BOX 286
KAMLOOPS, B.C.

Utah Mines Ltd.
1600-1050 West Pender Street,
Vancouver, B.C.

RECEIVED
JUN 26 1981

June 2nd, 1981.

JUN 26 1981

UTAH MINES LTD.
EXPLORATION DEPT.

6126181

Attention: Mr. Andy Schmidt

RE: 2men assisting Castlegar geophysics program,
June 1st to 15th / 1981.

AMEX FEES:

29 Days @ \$133.00/ day = \$3,857.00

Bus fare - 2 men, Kamloops to Castlegar
and return to Kamloops - 100.20

TOTAL REQUESTED - \$3,957.20

Respectfully submitted,

OK /A2S.

Pres Park

A. A. Goblett, President,
Amex Exploration Services Ltd.

Amex Job Number - 81-39

"OVER 125,000 MINERAL CLAIMS AND UNITS STAKED FOR THE MINING INDUSTRY"
MAGNETOMETER AND GEOCHEMICAL SURVEYS. CLAIM STAKING, LINE CUTTING, SURVEYING, ETC.

huntec
(70) LIMITED



ONTARIO, CANADA
MIR 546
PHONE 416 751-8055
TELEX 06-963640
CABLE: HUNTOR,
TORONTO

UTAH MINES

PAGE 2

SOO
TO:

SHIP
TO:

7/23/81

RECEIVED

JUL 21 1981

UTAH MINES LTD.
EXPLORATION DEPT.

CUSTOMER ORDER NO.	DATE OF ORDER	SHIPPING ORDER NO.	DATE INVOICED	INVOICE NO.
		R0066		7155
HUNTEC ACCOUNT NO.	F. O. B. - C. I. F.	SHIP VIA	PREPAID	COLLECT

BOX / ITEM	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION	UNIT PRICE	BALANCE ON ORDER	THIS SHIPMENT	AMOUNT
		<u>RENTAL RATES:</u>				
		30 Days @ \$ 105.70/day From June 3 to July 2, 1981 Inclusive	3,171.00			
		Less 3 Days @ \$ 105.70 inoperative time of equipment	(317.10)			
		TOTAL THIS INVOICE				\$2,853.90 =====
		ALL INVOICES DUE WITHIN 30 DAYS OF DATE ON INVOICE.				



P.O. BOX 4026

EDMONTON, ALBERTA

T6E 4S8

INVOICE DATE
1981 10 21

DELIVERY TICKET No.

JOB No.

RENTAL ORDER No.
SSB-634

INVOICE No.

CUST. ORDER No.

DATE SHIPPED

1981 07 21

VIA

BUS

FROM

EDMONTON

TO

UTAH MINES
FAIRMONT,
B.C.

UTAH MINES LIMITED
1600, 1050 WEST PENDER STREET
VANCOUVER, BRITISH COLUMBIA
V6E 3B7

TERMS: Net 30 Days.

11/3/81

PROBE No.

MONTHLY RENTAL (EST) OF STANDARD SPERRY-SUN MAGNETIC SINGLE-SHOT
INSTRUMENT COMPLETE, TYPE "B" FROM SEPTEMBER 22/81 THRU OCTOBER 21/81
ONE (1) MONTH @ \$1,400.00 PER MONTH ----- \$1,400.00

TOTAL INVOICE AMOUNT ----- \$1,400.00

NO INSURANCE

RENTAL CONTINUED

LWT:s1v



P.O. BOX 4026

EDMONTON, ALBERTA

T6E 4S8

INVOICE DATE 1981 11 30	DELIVERY TICKET No.	JOB No.	RENTAL ORDER No. SSB-634	INVOICE No. C 13152
CUST. ORDER No.	DATE SHIPPED 1981 07 21	VIA BUS	FROM EDMONTON	TO UTAH MINES FAIRMONT, B.C.
[REDACTED] UTAH MINES LIMITED 1600, 1050 WEST PENDER STREET VANCOUVER, BRITISH COLUMBIA V6E 3B7				

TERMS: Net 30 Days.

PROBE No.

12/9/81

MONTHLY RENTAL (EXT) OF STANDARD SPERRY-SUN MAGNETIC SINGLE-SHOT
INSTRUMENT COMPLETE, TYPE "B" FROM OCTOBER 22/81 THRU NOVEMBER 21/81
ONE (1) MONTH @ \$1,400.00 PER MONTH _____

\$1,400.00

TOTAL INVOICE AMOUNT _____ \$1,400.00

NO INSURANCE

RENTAL CONTINUED

LWT:cfm

PHOENIX Geophysics Limited

200 YORKLAND BLVD WILLOWDALE ONTARIO CANADA M2J 1R5

RECEIVED
TELEPHONE (416) 493-6350
Telex 06 986856
PHEXCO TORONTO

JUN 24 1981

UTAH MINES
EXPLORATION LTD.

INVOICE NO. 2483
DATE: May 27, 1981

Utah Mines
664 West 30'th Ave.,
VANCOUVER, B.C.,

3	Georeel Spools @ \$168.00/each	\$504.00
3	Georeel Handles @ \$.64.00/each	256.00 \$192.00
	3500M I.P. Field Wire @ \$.28¢/each	980.00
		<hr/>
		\$1,740.00

PHOENIX GEOPHYSICS LIMITED.

A830 006 #360.00
 DEER PARK 006 1,316.00
1,676.00

✓
OK/
AJJ.

*Sp. +
1 Spool 360.00 - 168.00
3 handles = 192.00

\$ 1,676.00*

*TOTAL Long conductor due 360.00
VAT 1316.00
DEER PARK*

APPENDIX D
DIAMOND DRILL LOGS

D.D.H. - DP-14 EXT.

COMPOSER DRILL LINE

CORE SIZE : BQ SCALE : 1:100
CASING COLLAR ELEV.: GROUND ELEV.: 1555 m
COORDINATES : 70305 N. 70242 E.
INCLINATION : -70° AZIMUTH : 180°

PRO : Deer Park
DATE STARTED : Sept 21/81
DATE FINISHED : Oct 12/81
TOTAL DEPTH : 951.6 m

HOLE NO. : DP-14 extension
PAGE NO. 51A OF 64
REF. TO CLAIM CORNER: 400m NE of LCPE 038.5
LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : B4

SCALE : 1:100

PRODUCT : Deer Park

HOLE No. : DP-14

CASING COLLAR ELEV.:

GROUND ELEV.: 1555 m

DATE STARTED: Sept 21 1981

PAGE NO. 52 OF 64

COORDINATES : 70305 N.

70242 E.

DATE FINISHED: Oct 12 1981

REF. TO CLAIM CORNER: 400m NE of LCP © 03

INCLINATION : -70

AZIMUTH : 180°

TOTAL DEPTH : 957.6 m

LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING			SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)
							INTERVAL	% CORE RECOVERED	% SULPHIDES			
765	Silicate Sericite Clay Chalcocite	mod.	mod.	Pyrope Augite Plagioclase K-feldspar Qtz	Dike contact @ 45°	Pink Granite				765		
766		mod.	mod.		- pink, hard, coarse grained, all mafics gtz stringers & py chloritized, weakly magnetic, 1-1.5% diss. hematite w/ trace mag., feldspar → min 90% K-feldspar, 0.2 cm gtz w/ py, tr fl. hem.		61.5					
767		mod.	mod.		25° 767.85-768.6m Fine grained Andesite, dark green. Contact 50° mod. magnetic, occ. carb. in w/ py.		102			768		
768		mod.	mod.		Pink Granite							
769					30° 768.6-773.5m							
770					Fine grained Andesite							
771					- dark green, mod. magnetic, can be scratched, irregular carb-gtz ms common					771		
772												
773					0.2 cm carb. in - lower 0.45m light green + highly pyritiferous avg 5%							
774	weak, locally mod. locally				5cm gtz in w fl. Pink Granite					774		
775					1.5cm gtz in - commonly clay altered, where this occurs the rock is white, if only weak in intensity rock is still hard, where alt. 5% py, non-magnetic							
776					10 fractures/m²							
777					776.5-777.0: strongly clay altered, rock can be squeezed by hand.					777		
778					- although rock is white, it can just be 0.2 cm gtz in barely if at all scratched.							
779					3 fractures/m² - diss hem, also fine mag. looking specks but not magnetic, few veins.							
780										780		

COMPOSITE DRILL LOG

CORE SIZE : 139

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-14

CASING COLLAR ELEV. :

GROUND ELEV.: 1555 m

PAGE NO. 53 OF 64

COORDINATES :

70305 N

70242 E

DATE STARTED :

Oct 12/81

REF. TO CLAIM CORNER: 700 M NE of LCP & 036

INCLINATION :

-90°

AZIMUTH : 180°

TOTAL DEPTH : 951.6 m

LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY				
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	SAMPLE No.	SAMPLE INTERVAL (m)
780	Silica Sericite Clay Chlorite	weak	py to py		Pink Granite hairline gt. w/ls common. - clay, clay altered to white but still hard, 3-4% dissepy, trace f, mafic minerals not present (altered to py?), black am. mag. specks	780	975.3	2%	NIL	47827	780
781	weak	weak	py to py			781	929	...			
782						781.4	...	NIL			
783						781.4	97.5%			47828	783
784					1.3 cm dark grey gt. w/ w py. - end of clay alt., contacts are gradational over a few cm.	781.4	97.5%			47828	786
785					& pink granite, mafics consist of chl + mag., trace py, w. clay alt. chl+mag. → py, w. mafic ghosts.	781.4	97.5%				
786					- first sign of sheet fracturing.	781.4	97.5%				
787						781.4	66.7				
788						781.4	105				
789					where sheet fractures exist core is like poker chips	781.4	17.8				
790						781.4	100				
791						781.4	NIL				
792						781.4	NIL				
793						781.4	NIL				
794						781.4	NIL				
795					20 fractures/m	781.4	NIL				

COMPOSITE DRILL LOG

CORE SIZE : BQ

SCALE :: 1:100

Project : Deer Park

HOLE No.

DP-14

CABIN COLLAR ELEV:

GROUND ELEV.: /555 M

PROJECT :

Dear Pork

HOLE No.

第二部分

GROUND ELEV.: 1555 M

DATE STARTED :

PAGE NO. 54 OF 64

COORDINATES

D 242 E

DATE FINISHED:

REF. TO CLAIM CORNER: 400M NE f LCP @ 038.5'

INCLINATION

AZIMUTH : 180°

DATE FINISHED:

REF. TO CLAIM

ALTERATION

— 10 —

TOTAL DEPTH :

LOGGED BY

COMPOSITE DRILL LOG

CORE SIZE : BG SCALE : 1:100 PROJ : Deer Park
 CASING COLLAR ELEV.: GROUND ELEV.: 1555. m DATE STARTED :
 COORDINATES : 70305 N, 70242 E DATE FINISHED : Oct 12/81
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 951.6 m
 HOLE NO. : DR-14
 PAGE NO. 55 OF 64
 REF. TO CLAIM CORNER: 400m NE of LCP C 038:
 LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION	FRACTURING MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	LOGGED BY : J. Pollock					
						DRILLING INTERVAL % CORE RECOVERED	% SULPHIDES	1/2 % ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)
810	SILICA								810		
811	SERICITE			Pink Crystite							
812	CLAY			- pink, hard, light grey rounded, f.g., 3 cm, f.g. red xenoliths common. due to flow banding - magnetic, matrix mod. alt. to chl plus 23 fractures/m spil.		95.5					
813				- all fracturing @ 90° to core axis		84.2			813		
814											
815				sheet fracturing 0.1 cm f.g. m.							
816											
817											
818				very few veins		104			816		
819											
820				818 - 825.5 m - strongly broken to small pieces		818.5			819		
821				- locally f.g.		819.3					
822				sheet fractured 11 fractures/10cm		31.3			822		
823				- half this length in poker chip - like pieces, as thin as 0.2 cm, avg 0.5 cm.		820.8					
824				"		821.8					
825						822.7					
						823.7					
						824.7					
						825.7					
						50					

COMPOSITE DRILL LOG

CORE SIZE : BP

SCALE : 1:100

PROJECT : Deer Park

HOLE No.

DP-14

CASING COLLAR ELEV:

GROUND ELEV.: 1555 m.

PAGE No.

56 OF 64

COORDINATES :

70305 N. 70242 E.

REF. TO CLAIM CORNER: 400 m NE of LCP @ 038°

INCLINATION :

-70°

AZIMUTH : 180°

DATE FINISHED: Oct 12/81

LOGGED BY

T. Pollock

TOTAL DEPTH : 951.6 m

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL			% SULPHIDES	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)
							DRILLING INTERVAL	% CORE RECOVERED	% ESTIMATED				
825	SILICA SERICITE CLAY CHLORITE	strong	arg		Pink Granite - similar to above, locally has a crowded porphyry texture.		75.4				47835		825
826					- strongly fractured, all @ 90° to ca. 13/m commonly rock is partially fractured but there is not a clean break through.		75	75	NIL				828
827							83.3						
828							83.3						
829	mod						75.4						
830							75						
831							75						
832					Pink granite - local f.g. sections, all rock is magnetic		75						
833					- rock shows signs of polar dip fracturing but the rock is not broken shear through.		75						
834							75						
835							75						
836					20 fractures/m		75						
837	weak	f.f.			836.4 - 0.4m ptg.m. weak clay alteration, white pink colour.		75				47836		837
838					upper contact of alt. has an aplite or v.f.g. version of pink granite, contact @ 10° and 4cm wide.		75						
839					0.7m barren gfm. throughout alt. zone are f.g. versions of the rock that vary from red to beige, some have minor fl.		75						
840							75						

COMPOSITE DRILL LOG

CORE SIZ : BQ

SCALE : 1:100

CASING COLLAR ELEV.:

GROUND ELEV.: 1555, m

COORDINATES

70305 N. 70242 E.

70242 E.

INCLINATION

AZIMUTH : 180°

PROJ : Deer Park

DATE STARTED

DATE FINISHED

DATE FINISHED: Oct 12/81
TOTAL PAGES: 3511

TOTAL DEPTH : 15.6 m

HOLE No.

DP-14

PAGE No. 57 OF 64

REF. TO CLAIM CORNER: 400 m NE of LCP @ 038°

LOGGED BY

T. Pollock

COMPOSITE DRILL LOG

CORE SIZE	BQ	SCALE	1:100	PROJ.	Deer Park	HOLE NO.	D-14
CASING COLLAR ELEV.:		GROUND ELEV.:	1555	DATE STARTED:		PAGE NO.	50 OF 64
COORDINATES	70305	N.	70242	E.	DATE FINISHED: Oct 42/81	REF. TO CLAIM CORNER:	100M NE PLCP @ 038S
INCLINATION	-70°	AZIMUTH	180°	TOTAL DEPTH	951.6 m	LOGGED BY	J. Pollock
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLGY	COMMENTS:	Avg. Core Rec'y/Hole	
	SILICA SERICITE CLAY				DESCRIPTIVE GEOLOGY		
855	mod.				Pink Granite		855
856							
857	mod.				Olengt-cllm. - similar to above,	96.6	
858					858.5 - 860.0m: slightly f.y. than usual w a speckled texture from fine biotite, bio rad. alt. to chl & epid., magnetic w diss sph.	Tr	858
859							
860							
861							861
862	mod				Olengt-cllm.		
863					2 grey ol. msw part. to, 2m very weak clay alt. envelopes 0.12m dark gry m w py.	96.2	
864							864
865					0.4m gry msw = chl, very weak clay alt around m.	92	
866					- rare rounded black xenolith.		
867					- appears to be very fine diss sph.	92.9	
868							867
869							
870							870

COMPOSITE DRILL LOG

CORE SIZE : BQ SCALE : 1:00 PROJ. : Deer Park HOLE NO. : DP-14
 CASING COLLAR ELEV. : GROUND ELEV. : 1555. DATE STARTED : PAGE NO. : 59 OF 64
 COORDINATES : 70305' N. 70242' E. DATE FINISHED : Oct 12/81 REF. TO CLAIM CORNER : 100M NE 1/4 KCP 0385
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 957.6 m LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION	FRACTURING MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY			SAMPLE INTERVAL (M)
						DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	
870	SILICA								870
871	SERICITE			0.3cm gneissic py		- e.g., pinky hard, weakly magnetic, - py present only where rock is altered white, here the magnetite & chl. are also gone.	99.7	Tr	871
872	CLAY					- local zones where alt. has just started.	99.9	NIL	872
873	CHLORITE								873
874	mod.								874
875	mod			0.2cm gneissic py ← trace maf in clay altered zone.					875
876				0.3cm gneiss.					876
877						- 10 fractures /m			877
878									878
879	mod			1.5cm grey brecciated zone					879
880						7 fractures /m			880
881				1cm grey brecciated zone					881
882				0.5cm dark grey gt. m.					882
883				Contact sharp @ 15°					883
884				Red Aphyllite?					884
885				- v.f.g, dark red, hard, weakly mag. - commonly has flow banding. - lower contact ≈ 11 to chl. therefore very long from 885.5 - 888.5m					885

COMPOS DRILL LOG

CORE SIZE : B9 SCALE : 1:100 PROJ. : Deer Park HOLE NO. : 01-14
 CASING COLLAR ELEV. : GROUND ELEV. : 1555 DATE STARTED :
 COORDINATES : 70305 N. 70242 E. F: 242 DATE FINISHED : Oct 12/81 PAGE NO. 60 OF 64
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 951.6 m REF. TO CLAIM CORNER : 400M NE of LCP #038
 LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : BQ SCALE : 1:100 PROJ : Deer Park HOLE No. : D-14
 CASING COLLAR ELEV. GROUND ELEV.: 1555. m DATE STARTED :
 COORDINATES : 70305 N. 70242 E. DATE FINISHED : Oct 12/81
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 951.6 m
 ALTITUDE :
 PAGE No. : 61 OF 64
 REF. TO CLAIM CORNER : 900M NE of LCP E 038.
 LOGGED BY : T. Pollock

COMPOSITION DRILL LOG

CORE SIZE : BQ	SCALE : 1:100	PROJECT : Dear Park	HOLE No. :
CASING COLLAR ELEV.:	GROUND ELEV.: 1555m	DATE STARTED :	PAGE NO. 62 OF 64
COORDINATES : 70305 N. 70242 E.		DATE FINISHED : Oct 12/81	REF. TO CLAIM CORNER : 400m NE of LCP 20385
INCLINATION : -70°	AZIMUTH : 180°	TOTAL DEPTH : 851.6 m	LOGGED BY : T. Pollock

COMPOSITE DRILL LOC

CORE SIZE : B9 SCALE : 1:100 PROV : Deer Park HOLE NO. : DP-14
 CASING COLLAR ELEV. : GROUND ELEV. : 1555 m DATE STARTED :
 COORDINATES : 70305 N. 70242 E. DATE FINISHED : Oct. 12/81
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 951.6 m
 REF. TO CLAIM CORNER : 400m NE of KPC 038.5
 PAGE NO. 63 OF 64
 LOGGED BY : T. P. Hatch

COMPOSIT DRILL LO

CORE SIZE : BQ SCALE : 1:100 PROJ. : Deer Park
 CASING COLLAR ELEV. : 1555.5 m GROUND ELEV. : 1535 m DATE STARTED : Sept 21/18/
 COORDINATES : 70305 N. 70242 E. DATE FINISHED : Oct 12/18/
 INCLINATION : -70° AZIMUTH : 180° TOTAL DEPTH : 951.6 m
 HOLE No. : DP-14
 PAGE No. 64 OF 64
 REF. TO CLAIM CORNER : 100M NE of LCP @ 038.5°
 LOGGED BY : T. Bell

D.D.H. - DP-15

COMPOSITE DRILL LOG

CORE SIZE : N.Q. SCALE : 1:100 PROJECT : Deer Park
 HOLE No. : D.P.-15
 CASING COLLAR ELEV. : 1570.5 m GROUND ELEV. : 1570.0 m DATE STARTED : Oct 16/81.
 PAGE No. / OF 63
 COORDINATES : 68°56' N. 81°38' E. DATE FINISHED : Nov 23/81.
 REF. TO CLAIM CORNER : 358m @ 26.0° from LCP
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : 932.7 m
 LOGGED BY : T. Pollock

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL		% SULPHIDES	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (M)
							100	% ESTIMATED				
0	SILICA SERICITE CLAY CHLORITE				DESCRIPTIVE GEOLOGY							
1					Depth Inclination Azimuth							
2					304.8 -83° 218°							
3					609.6 -84° 214°							
4					Casing 4.9m.							
5					801.6 -84° 225°							
6					914.4 -84° 227.5°							
7					Bio-Feld And. Popp. 20cm. Polymictic Breccia							
8					py. stringers -60-70% fragments, numerous types including andesite dyke of various types							
9					pink granite to granodiorite, matrix black colour to small pink pheno-							
10					10cm Job dyke fragments sub-rounded to angular							
11					Dark Grey Feld Popp. 1% py as diss. + fine stringers, tr, mo, mag. alx.							
12					Dyke unit above might be unit 19.							
13					Polymeritic Breccia							
14					-rock fragments are an agglomeration of many rock types.							
15					0.6cm carb-chlm. - matrix is a sil. dark grey green colour.							
					- no fragments w/ mo.							
					- many fractures along chl. m/f's.							
					Contact sharp @ 80°							
					13.9 - 15.67m: Biotite Andesite (sa) mag., carb. m/f's, common, tr. py, dark green hard							

COMPOSITE RILL LOG

CORE SIZE : N.Q	SCALE : 1'100	PROJECT : Deer Park	HOLE No. : D.P.-15
CASING COLLAR ELEV. : 1570.5 m	GROUND ELEV. : 1570.0 m	DATE STARTED : Oct 16/81.	PAGE NO. 2 OF 63
COORDINATES : 68°56' N. 81°38' E.		DATE FINISHED : Nov. 23/81	REF. TO CLAIM CORNER :
INCLINATION : -80°	AZIMUTH : 215°	TOTAL DEPTH : 932.7 m	LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : N.Q. SCALE : 1:100 PROJECT : Deer Park HOLE No. : D.P.-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81. PAGE NO. 3 OF
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : N.Q. SCALE : 1:100 PROJECT : Deer Park HOLE No. : D.P.-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81.
 COORDINATES : N. E. DATE FINISHED:
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m
 REF. TO CLAIM CORNER :
 LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL			SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)
							STREAK	SERICITE	CLAY			
45												
46					0.2cm gtz.-mo-mag-pym. Pink Aplite, few phenos. 0.35% mo, diss. vns. Contacts sharp @ 20° Pink Aplite							
47					- 0.15% mo, w diss mag, hem,							
48					2cm gtz.-carb mix py. + f1 Polymictic Breccia - Pink Aplite - here the rock is a mixture of the							
49					cross-cutting carb. vns. two rock types. carb vns. cut gtz. vns w. mag-hem.							
50					Contact sharp @ 20° 50.1 - 52.35m							
51					clay alt vndith? w mag, hem, py.	Pink Aplite						
52					0.4cm carb vn w f1	f.g., hard, fresh, carb, gtz mag vnlts. common, no visible bio.						
53					Contact @ 30°	Polymictic Breccia						
54					5cm clay-carb. broken zinc - possible fault	- weakly magnetic, strongly broken, - all fragments subangular to angular						
55					Parallel carb. vnlts. X-cut breccia fragments, also cut a gtz. vn w mag, hem, py.							
56												
57												
58												
59					0.4cm carb. vn.							
60					Contact sharp @ 35°	Granite Porphyry						

COMPOSITE DRILL LOG

CORE SIZE

N.Q.

SCALE : 1:100

PROJECT

Deer Park

HOLE No.

D.P.-15'

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED :

Oct. 16/81.

PAGE No. 5 OF

COORDINATES :

N.

E.

DATE FINISHED :

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH :

REF. TO CLAIM CORNER :

LOGGED BY

T. Rollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS :	AVG. CORE REC'D/HOLE	DRILLING			SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)
							INTERVAL	% CORE RECOVERED	% SULPHIDES			
60	SERICITE						60.1	100	Tr	NIL		60
61	SERICITE						61.1	100	Tr			61
62	CLAY						62.1	97.8		NIL		62
63	CHLORITE				very few veins.		63.1	85				63
64		mod. mod.	mag, py, fl.		- pink, hard, fresh. - matrix f.g., locally aphanitic, - 20-35% mainly K-feld phenos, mainly subhedral, 2mm-1cm, commonly dark pink but some w/ white rims + dark pink cores, - weakly magnetic.		64.1	125				64
65					- 10% mafics, very weakly alt. by chl. - trace diss. fl, also diss mag.		65.1					65
66					- locally the core is all grey - possibly the start of alt. but the rock is still hard - 70+ % K-feldspar.		66.1					66
67					- fractures commonly chlorite coated.		67.1					67
68							68.1					68
69					Alcm gtz vn. w mag, cu. ← bio-feld. and porp. fragment rounded v.t.g. salt + pepper fragments seen		69.1					69
70							70.1					70
71							71.1					71
72							72.1					72
73							73.1					73
74					rock very consistent, occasional grey zone, fractures @ 15° + 60° - very few veins.		74.1					74
75							75.1					75

COMPOSITE DRILL LOG

CORE SIZE : N.Q

SCALE : 1:100

PROJECT : Deep Port

D.P.-15

CASING COLLAR ELEV.:

GROUND ELEV.

DATE STARTED : Oct 16 / 81

HOLE No.

COORDINATES

N. E.

ANSWER

PAGE No. 6 OF

INCLINATION

E.

TOTAL DEPTH :

LOGGED BY

INCLINATION : - 80°

AZIMUTH : 915°

TOTAL DEPTH :

T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : N.Q.

SCALE : 1:100

PROJECT : *Be a Park*

CASING COLLAR ELEV.:

GROUND FLOOR

SEARCHES

HOLE No.

D.P.-15

COORDINATES

N = 5

PAGE No. 7 OF

INCLINATION

AZIMUTH 1

TOTAL DEPTH

NEW TO TEAM CORNER.

INCLINATION : -80°

AZIMUTH :

TOTAL DEPTH

LOGGED BY : T: Pollock

COMPOSITE DRILL LOC

CORE SIZE : N.Q.

SCALE : 1:100

PROJECT : Deep Park

Page 15

CASING COLLAR ELEV.:

GROUND FL FV 2

DATE STARTED : Oct 11/81

HOLE No.

COORDINATES

H. E

DATE FINISHED

PAGE No. 8 OF

INCLINATION

-80°

AZIMUTH : 215°

TOTAL DEPTH :

LOGGED BY: _____

: T. Pollock

COMPOSITE DRILL LOG					
CORE SIZE :	N.Q.	SCALE :	1:100	PROJECT :	Deer Park
CASING COLLAR ELEV.:		GROUND ELEV.:		DATE STARTED :	Oct. 16/81
COORDINATES :	N.	E.		DATE FINISHED :	
INCLINATION :	- 80°	AZIMUTH :	215°	TOTAL DEPTH :	m
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS :
120	SILICA SERICITE CLAY CHLORITE				AVG. CORE REC'D/HOLE
121					DESCRIPTIVE GEOLOGY
122					Granite Porphyry
123					- similar to above, mafics have a definite green tinge from chl. alt.
124					- occasional bio. andesite porphyry xenolith
125					- very few veins
126					Fracture w fl. chl.
127					
128					
129					
130					
131					
132					
133					
134					Contact @ 85°
135					133.7 - 136.3m Porphyritic Feld Bio. Andesite
DRILLING INTERVAL		% CORE RECOVERED	% SULPHIDES		SAMPLE No.
120.4			110		120
103	Tr	Nil			
123.5					123
94.2					
126.5					126
102					
129.5					129
96.8					
83.6	Tr	Nil			132
106					
133.5					135

COMPOS DRILL LOG

CORE SITE : N.Q.

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : D.P.-15'

CASING COLLAR ELEV.:

GROUND ELEV.:

Oct 16/81.

PAGE No. 10 OF

COORDINATES :

N.

E.

REF. TO CLAIM CORNER:

INCLINATION :

-80°

AZIMUTH : 915°

TOTAL DEPTH :

LOGGED BY

T. Pollock

DEPTH (M)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL			% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							DRILLING INTERVAL	% CORE RECOVERED	M					
135	SILICA SERICITE CLAY CHLORITE	moderate	weak	mag	Porphyritic Feld. Bio Andesite Contact @ 135m		135.6	99.5	15	15	N.L.	47880	135	
136					next 0.3m Porp. feld. Andesite		136.7	100						
137					next 0.3m same as granite below		137.7	99.3						138
138					137.75 - 138.7m : granite, m.g., 5% mag in disseminations + stringers		138.7							
139					0.3m granite w 3% mag.		139.7							
140					Granite Porphyry		140.7							
141					- phenos increased to 35-40% thus decreasing the strong porphyry texture or giving it a crowded porp. look		141.7							141
142					- matrix mod. alt. to chl plus minor epid.		142.7							
143					- diss mag. fl.		143.7							
144					- rare and xenolith		144.7							144
145					- no veins		145.7							
146							146.7							
147							147.7							147
148					148m > matrix finer grained than above, locally .5% diss py, 10-15% phenos		148.7							
149							149.7							
150							150.7							150

COMPOSITE DRILL LO

CORE SIZE : N.Q.

SCALE : 1:100

Project : Deer Park

HOLE No.

- 13 -

CASING COLLAR ELEV.

GROUND ELEV.:

DATE STARTED : _____

-15-

COORDINATES

11

5

第二部分

PAGE No. / OF

INCLINATION

AZIMUTH : 215°

TOTAL DEPTH :

Accessed 2018

ALTERATIO

COMMENTS

LOGGED BY : J. Pollock

COMPOSITION DRILL LOG

CORE SIZE : N.Q.

SCALE : 1:100

PROJECT : *Pass Port*

HOLE No. : D.P.-15

CASING COLLAR ELEVATION

GROUND ELEMENT

DATE STARTED : Oct 16/81

HOLE No.

COORDINATES

N **S**

DATE STARTED : Oct 16/81

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COORDINATES

N. **E.**

DATE FINISHED:

REF ID: A11111111

INCLINATION

AZIMUTH 13

LOGGED BY : T. Pollock

COMPOSITE DRILL LOG													
CORE-SIZE	N.Q.		SCALE	1:100	PROJECT	Deer Park		HOLE No.	D.P.-15				
CASING COLLAR ELEV.			GROUND ELEV.		DATE STARTED	Oct. 16/81.		PAGE NO.	13 OF				
COORDINATES	N.		E.		DATE FINISHED			REF. TO CLAIM CORNER:					
INCLINATION	-80°		AZIMUTH	215°	TOTAL DEPTH			LOGGED BY	T. Pollock				
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	Avg. Core Rec'y/Hole	Drilling Interval	% Core Recovered	% Sulphides	% Estimated	Sample No.	% Sample Recovered	Sample Interval
-180	SILICATE SERICITE CLAY CHLORITE	Weak	Mg.		DESCRIPTIVE GEOLOGY								180
-181		Weak					100	NIL	NIL				
-182							101						183
-183							101.1						
-184							101.2						
-185							101.3						186
-186							101.4						
-187							101.5						189
-188							101.6						
-189							101.7						
-190							101.8						
-191							101.9						
-192							102						
-193							102.1						
-194							102.2						
-195							102.3						
					Diacmgtz-carb vn w py cuts v offsets qtz-mag vn ohl-py stringers,		102.4						
							102.5	5	16%				195

COMPOSIC DRILL LOG

CORE SIZE : N.Q.

SCALE : 1:100

PROJECT : Deepak

D.P.-15

CASING COLLAR ELEV.:

GROUND FLOOR

DATE SEARCHED: 1

HOLE No.

COORDINATES

14

5

INCLINATION

AZIMUTH : 215°

TOTAL DEPTH :

PAGE No. 15 OF

DATE FINISHED:

Oct. 16/81

REF. TO CLAIM CORNER

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T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : N.Q

SCALE : 1:100

Deer Park

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : _____

D.Y. 15

COORDINATES

N E

DATE FINISHED: 4

HOLE No

INCLINATION

AZIMUTH 3

TOTAL DEPTH 1

PAGE No. 17 OF

INCLINATION : - 81° AZIMUTH : 215°

AZIMUTH 3

TOTAL DEPTH 1

REF. TO CLAIM CORNER :

INCLINATION : - 81° AZIMUTH : 215°

AZIMUTH 3

TOTAL DEPTH 1

LOGGED BY : J. Pollock

COMPOSITE DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJ : Deer Park

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/18/

HOLE No. :

1015

COORDINATES :

N.

E.

DATE FINISHED : Nov 23/18/

PAGE NO. 18 OF 63

INCLINATION :

- 80°

AZIMUTH : 215°

TOTAL DEPTH : 932.7 m

REF. TO CLAIM CORNER :

LOGGED BY

T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY			
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED
255	SILICA SERICITE CLAY CHLORITE	weak	mag	mag	← crumbly, soft.		103	122	Tr	100
256		weak	mag	mag	- crowded porphyry texture - weakly magnetite - only trace py - mafic only weakly altered - homogeneous looking		N.L.	255
257		weak	mag	mag			102	...	N.L.	258
258		weak	mag	mag			101	...	N.L.	261
259		weak	mag	mag			103	...	N.L.	264
260		weak	mag	mag			103	...	N.L.	267
261		weak	mag	mag			103	...	N.L.	270
262		weak	mag	mag			103	...	N.L.	
263		weak	mag	mag			103	...	N.L.	
264		weak	mag	mag			103	...	N.L.	
265		weak	mag	mag			103	...	N.L.	
266		weak	mag	mag			103	...	N.L.	
267		weak	mag	mag			103	...	N.L.	
268		weak	mag	mag			103	...	N.L.	
269		weak	mag	mag			103	...	N.L.	
270		weak	mag	mag			103	...	N.L.	

COMPOSITE DRILL LOG

CORE SIZE : NQ . SCALE : 1:100 PROJECT : Deer Park
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81
 COORDINATES : N. E. DATE FINISHED : Nov 23/81
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : 932.7 m
 HOLE No. : D-15
 PAGE No. 19 OF 63
 REF. TO CLAIM CORNER:
 LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE						
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Mo	SAMPLE No.	% SAMPLE RECOVERED
-270	SILICATE SERPENTINE CLAY	weak	mag.				270	11	Fr	NIL		270
-271		weak	mag.				271.8	99.3				273
-272							272.8	91 "				
-273							273.8	100				276
-274							274.8					
-275							275.8					
-276							276.8					
-277							277.8					
-278							278.8					
-279							279.8					
-280							280.8					
-281							281.8					
-282							282.8					
-283							283.8					
-284							284.8					
-285							285.8					

COMPOSITE DRILL LOG

CORE SIZE : N9

SCALE : 1:100

PROJ : Deer Park

HOLE NO.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE NO. 20 OF 63

COORDINATES :

N.

E.

DATE FINISHED : Nov 23/81

REF. TO CLAIM CORNER:

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH : 932.7 m

LOGGED BY

T Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DESCRIPTIVE GEOLOGY					
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED Mo	SAMPLE No.	% SAMPLE RECOVERED
285	SILICA SERICITE CLAY CHLORITE	weak	mag								285	
286					- fresh, hard							
287					- mottled light pink on dark pink (K-feldspar phenos)							
288					- weakly magnetic							
289					- no liming							
290					0.5 cm carb fill from fractured granite							
291					ch + fl also							
292					- matrix varies from grey to pink, - 30-40% dark red K-feld phenos giving the rock a crowded porphyry texture						288	
293												
294												
295												
296												
297					- local sections where the rock is completely grey and py is replacing biotite, this is the beginning of clay alteration						291	
298					- no mo							
299												
300					- occasional sc dyke fragment & patch (max 2m ²) carb.							

COMPOSITE DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJ : Deer Park

HOLE No.

: ४१५

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/18
DATE FINISHED : Nov 23/18

PAGE No. 21 OF 63

COORDINATES

N.

2

DATE FINISHED : Nov '23 / 8

REF. TO CLAIM CORNER :

INCLINATION

AZIMUTH : 215°

TOTAL DEPTH : 932.7

LOGGED BY

: T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJECT : Deer Park
DATE STARTED : Oct 16/81

HOLE No. : DR-15

CASING COLLAR ELEV:

GROUND ELEV.:

DATE FINISHED :

PAGE NO. 22 OF 63

COORDINATES :

N.

E.

REF. TO CLAIM CORNER:

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH : 932.7 m

LOGGED BY : T. Pollock

DEPTH (m)	SILICA	SERICITE	CLAY	CHLORITE	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	Mo ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL	
-315											315.5	29.0	...			315		
-316											316.5	103	...	Fr	NIC			
-317											317.5					318		
-318											318.5					319		
-319											319.5					320		
-320											320.5					321		
-321											321.5					322		
-322											322.5					323		
-323											323.5					324		
-324											324.5					325		
-325											325.5					326		
-326											326.5					327		
-327											327.5					328		
-328											328.5					329		
-329											329.5					330		
-330											330.5							

COMPOSITION DRILL LOG

CORE SIZE

N9

SCALE

1:100

PROJECT

Deer Park

HOLE NO.

DP-15

CASING COLLAR ELEV.

GROUND ELEV.

COORDINATES

N

E

DATE STARTED: Oct 16/81
DATE FINISHED: Nov 23/81

PAGE NO. 23 OF 63

INCLINATION

80°

AZIMUTH

215°

TOTAL DEPTH: 932.7 m

REF. TO CLAIM CORNER:

LOGGED BY

T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE NO.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							DESCRIPTIVE GEOLOGY						
330	SILICATE	weak	CLAY				330.0	102	NIL		330		
331	SEPICTITE	weak	CLAY		20 cm dyke w red int. texture, disc pythons	- weakly altered by clay - biotite alt. to white clay - 2-3% py, disc hem.	330.0 - 331.0	97.7	23%	NIL			
332							331.0	100	NIL		333		
333					8 cm dykes similar to above, likely aplite		331.0 - 333.0	96.8	NIL				
334							333.0	100	NIL		336		
335							333.0 - 335.0	96.8	NIL				
336							335.0	100	NIL		339		
337					2 red aplite dykes similar to above (20cm)	- locally some k-feld. pheno. are clay white + very soft in a much harder but still weakly alt. dark red matrix.	335.0 - 337.0	96.8	NIL				
338					0.8 cm carb. in.		337.0	100	NIL		342		
339							337.0 - 339.0	96.8	NIL				
340							339.0	100	NIL		345		
341					15 cm red aplite in K-feld. pheno.	← many large (over areas up to 5 cm ²) areas strong in py & carb.	339.0 - 341.0	96.8	NIL				
342					5 cm py - carb in w py & brecciated granite		341.0	100	NIL				
343					0.5 cm carb in w py		341.0 - 343.0	96.8	22%	NIL			
344					ropy		343.0	99.3	NIL				
345					much carb. in rock. - unaltered sections showing up approaching end of clay alt.		343.0 - 345.0	99.3	NIL				

COMPOSITE DRILL LOC

CORE SIZ^E : NQ

SCALE : 1:100

PROJ : Deer Park
DATE STARTED : Oct 16/81
DATE FINISHED : Nov 23/81
TOTAL DEPTH : 932.7 m

HOLE No. : 15

CASING COLLAR ELEV.:

GROUND FLOOR:

DATE STARTED : Oct 16/18
DATE FINISHED : Nov 23/18

PAGE NO. 24 OF 63

COORDINATES

N E

448

REF. TO CLAIM CORNER :

INCLINATION

-80°

AZIMUTH : 345°

TOTAL REVENUE 838.7

J. Pollock

COMPOSITE DRILL LOC

CORE SIZ : NQ

SCALE : 1:100

PROJ : Deer Park
DATE STARTED : Oct 16/81

HOLE No.

- 15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/18

PAGE NO. 25 OF

COORDINATES

N

E

DATE FINISHED

REF. TO CLAIM CORNER

INCLINATION

- 32 -

AZIMUTH : 215°

TOTAL DEPTH :

三

LOGGED BY

: T. Pollock

COMPOSITE DRILL LOG

co

NQ

SCALE

1/100

8801

Deer Park
Oct 16/81

HOLE No.

Dr. 15

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES

11

5

INCLINATION

- 8/25

AZIMUTH : 215°

TOTAL DEPTH : 932.7 m

PAGE NO. 26 OF

REF TO CLAIM CORNER

REF. TO CLAIM CORNER: 2

: T. Pollock

CORE SIZE		SCALE	1:100	PROJECT	Deer Park	HOLE NO.	DP-15
CASING COLLAR ELEV.		GROUND ELEV.		DATE STARTED	Oct. 16/81	PAGE NO.	27 OF
COORDINATES				DATE FINISHED		REF. TO CLAIM CORNER:	
DEPTH (m)	ALTERATION	FRACTURING MINERALS	GEOLOGY	COMMENTS:	Avg. Core Rec'y/Hole	LOGGED BY	T. Pollock
390	SILICA						
391	SERPENTINE						
392	CLAY						
393	CHLORITE						
394							
395							
396							
397							
398							
399				- a majority of the rock is dark pink feld. phases, giving the rock an overall dark pink colour.			
400							
401							
402							
403							
404				0.5 cm aplite dyke in mag, hem, chl.			
405				0.1 cm chl. mlt.			

COMPOSITION DRILL LOG

CORE SIZE : NQ

SCALE : 1:100 .

PROJECT : Deer Park
DATE STARTED : Oct. 16/81

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16 18

PAGE NO. 28 OF

COORDINATES

N. E.

DATE FINISHED

REF. TO CLAIM CORNER :

INCLINATION

-80°

AZIMUTH : 215°

TOTAL DEPTH

LOGGED BY

COMPOSITE DRILL LOG

CORE SIZE

WQ

SCALE

1:100

PROJECT

Deer Park
Oct 16/81

HOLE No.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES

N.

E.

DATE STARTED:

DATE FINISHED:

PAGE NO. 29 OF

REF. TO CLAIM CORNER:

INCLINATION

-80°

AZIMUTH

215°

TOTAL DEPTH :

LOGGED BY

T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY		
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES
420	STILICHA SERICITE CLAY CHLORITE	weak	weak - red	Mg / Fe py.	Cranifer - crowded porphyry texture - local sections to very weak 20 cm pink gal. dyke clay alt.	100	420	NIL	420
421						97.2	421	NIL	423
422						97.2	422	NIL	426
423						96.8	423	NIL	429
424						98.1	424	NIL	432
425					1.5 cm gal. py., no Med. Grained cream coloured hard dykes Contact 20°	97.3	425	NIL	432
426					12 cm pink gal. dyke ~ dykes weakly magnetic	95.8	426	NIL	435
427					10 cm pink gal. dyke.	102	427	NIL	
428						102	428	NIL	
429						102	429	NIL	
430						102	430	NIL	
431						102	431	NIL	
432						102	432	NIL	
433						102	433	NIL	
434					431.2 - 432.3 m: rock is grey, most 1 cm pink gal. in.	102	434	NIL	
435					likely the start of clay alt.	95.8	435		

COMPOS DRILL LOG									
CORE SIZE :		SCALE : 1:100		PROJECT : Deer Park		HOLE No. : DP-15			
CASING COLLAR ELEV. :		GROUND ELEV. :		DATE STARTED : Oct 16/81		PAGE No. 30 OF			
COORDINATES :	N.	E.	DATE FINISHED :		TOTAL DEPTH :	m	REF. TO CLAIM CORNER :		
INCLINATION :	-80°	AZIMUTH :	215°				LOGGED BY	J. Pollock	
DEPTH (m)	ALTERATION	FRACTURING MINERALS	GEOLOGY	COMMENTS:	Avg. Core Rec'y/Hole		Drilling Interval	% Core Recovered	% Sulphides
433	SILICA SERICITE CLAY CHALCO	weak		0.2 cm felsic py	Granite		433.0	95.0	.5
436					- very c.s.g. to crowded porphyry				
437					- mottled light & dark pink				
438					- occasional 5b & 5c xenoliths				
439					- fresh, hard.				
440				25cm pink m.g. gneiss	dye.		440.4	100	
441					- rare 5b xenolith.				
442							442.4	99.9	
443				442.8 - 448.5m			443.5	100	
444					- here the rock has a very weak				
445					porphyritic texture				
446					- the rock looks like one mass				
447					of k-feldspar in patches, irregular				
448					ws at chl, calc, mag.				
449					minor py.				
450					- local weak clay alt.				

COMPOSITION DRILL LOG

CORE SIZE

NP

SCALE : 1:100

PROJECT :

Deer Park
Oct. 16 18/

HOLE No.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES :

N.

E.

DATE STARTED :
DATE FINISHED :

PAGE NO. 32 OF

INCLINATION :

- 80°

AZIMUTH : 215°

TOTAL DEPTH :

m

REF. TO CLAIM CORNER :

T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING INTERVAL			% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							% CORE RECOVERED	DRILLING INTERVAL	% SULPHIDES					
465	SILICA SERICITE CLAY CHLORITE													
466					20 cm pink gabbro dyke. 5 py, tr m.			Granite. - crowded porphyry texture - occasional sc! xenolith.						
467					20 cm clay zones									
468								← green, quite soft, locally broken or total clay zones.						
469								1% very fine py.						
470								- one contact of alt @ 30°, but generally contacts gradual.						
471					0.2 cm glf m w py.									
472					0.3 cm glf m.									
473														
474					10 cm grey + white glf m w py, minor carb. 0.1 cm carb m.			- fresh, pink, hard,						
475														
476														
477														
478					0.3 cm glf m.			← alternating green soft and weathered sections.						
479					← strong magnetite									
480								479.8 m: clay alt. contact @ 60°						

COMPOSITION DRILL LOG									
CORE SIZE		SCALE : 1:100		PROJECT : Deer Park		HOLE No. : DP-15			
CASING COLLAR ELEV.:		GROUND ELEV.:		DATE STARTED : Oct. 16/81		PAGE NO. 33 OF			
COORDINATES :		N. E.		DATE FINISHED :		REF. TO CLAIM CORNER :			
INCLINATION :		-80°		AZIMUTH : 215°		TOTAL DEPTH : m		LOGGED BY : T. Pollock	
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	Avg. Core Rec'y/Hole	Drilling Interval % Core Recovered	% Sulphides Mo	Sample No. % Sample Recovered Sample Interval
480	SERICITE CHLORITE CLAY	mod. locally broken			DESCRIPTIVE GEOLOGY		480.0		480
481	weak				- Granite - crowded porphyry		480.0 - 481.0 77.8	NIL	
482					- mainly clay altered, quite soft stalwart of fine 0.5-1.0 mm py, dark grey gt. mfts. -		481.0 - 482.0 5.1%	NIL	483
483							482.0 - 483.0 134	NIL	
484					1cm clay/gt. zone		483.0 - 484.0 88.6	NIL	486
485					← rock here has a black 3cm v.f. aplite dyke mottling from mag, chl & fine black mfts!		484.0 - 485.0 86.8	NIL	
486					3cm aplite dyke		485.0 - 486.0 92.3	NIL	
487					1cm chl-bronzed gt. zone		486.0 - 487.0 70.8	47939	489
488					0.2cm mag m.		487.0 - 488.0 60.	NIL	
489							488.0 - 489.0 38		492
490							489.0 - 490.0 40.	NIL	
491					Fine Grained Andesite		490.0 - 491.0 40.		495
492					- 3% coarse clsp, 2-3% carb in irregular ms,		491.0 - 492.0 40.		
493					492.0 - 494.3: dyke here has white euhedral feld. phenos in an v.f.g. grey soft matrix.		492.0 - 493.0 40.		
494					2-3% fine ppp, strongly broken, much clay.		493.0 - 494.0 40.		
495							494.0 - 495.0 40.		

COMPOS DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJECT : Deer Park
DATE STARTED : Oct 16/81

HOLE No.

: DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES :

N.

E.

DATE FINISHED:

PAGE NO. 34 OF

INCLINATION :

-30

AZIMUTH : 215°

TOTAL DEPTH :

m

REF. TO CLAIM CORNER:

LOGGED BY

: T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY			% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							DRILLING INTERVAL	% CORE RECOVERED						
495	SILICATE SERICITE CLAY CHLORITE	weak			Combat very irregular		495.3	84.7	12		Tr	47940		495
496					1 m past dyke has strongly mag, py, hem.		496.0	97.6						498
497		weak			10 cm sil. zone w/ py, mag, maf	Granite	497.0	97.6		NIL				501
498					- weakly porphyritic		498.0							
499					- rock locally has an even eg. texture.		499.0							502
500					0.2 cm dyke (green) cuts - magnetic, hard, a stock work of apatite dykes (< 2cm)		500.0							
501	weak						501.0							
502		weak			40 cm apatite dyke		502.0							
503					5 py -	- chl-mag milts common	503.0							
504					0.8 cm aphoritic apatite dyke		504.0							
505					15 cm gabbro dyke		505.0							
506							506.0							
507							507.0							
508							508.0							
509							509.0							
510							509.5							

COMPOSIC DRILL LOG

CORE SIZE

WQ

SCALE : 1:100.

PROJECT

Deer Park

HOLE No.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

COORDINATES :

N.

E.

DATE STARTED : Oct 16/81
DATE FINISHED :

PAGE No. 35 OF

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH :

m

REF. TO CLAIM CORNER:

T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL			% SULPHIDES	NO. ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							DRILLING INTERVAL	% CORE RECOVERED	% CORE RECOVERED					
-510	STRUCTURE													SR
-511	SEPTITE				1cm mag-clstns	- weakly porphyritic								
-512	CLAY				1cm sp.	- fresh								
-513	CHLORITE					rare 5b or 5c xenolith.								513
-514														
-515						0.3cm green gty m.								
-516						strong magnetite	- rock is quite magnetic							516
-517							from ms, blobs, disseminations.							
-518						4cm beige sil. zone w								
-519						no ribbons and sp. patches.								
-520						30cm beige to dark grey zone	~ 0.6 cm apatite m w fl + mo							519
-521						w diss magnetite	cuts a and ? xenolith in granite							
-522						1.5cm pink apatite m w								522
-523						mag in down center.								
-524						0.2cm mag m.	- the rock here is approaching an							
-525							equigranular texture + is mortled							
							white from white feldspar							
							crystals.							
							- rare 5b xenolith.							

COMPOS~~E~~ DRILL LO

CORE SIZE : *NP*

SCALE : 1:100

PROJECT : Deer Park

HOLE No.

DF-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE No. 36 OF

COORDINATES

DATE FINISHED

REF. TO CLAIM CORNER :

INCLINATION

N. E.
AZIMUTH : 25°

TOTAL DEPTH :

LOGGED BY

COMPOSITION DRILL LOG

CORE SIZE

SCALE

1:100

PROJECT

Deer Park

HOLE No.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE NO. 37 OF

COORDINATES

DATE FINISHED:

REF. TO CLAIM CORNER:

INCLINATION

TOTAL DEPTH :

LOGGED BY

80

AZIMUTH : : 275°

TOTAL DEPTH :

T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16 181

PAGE NO. 38 OF 63

COORDINATES

N. F.

DATE FINISHED: Nov 23/81

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INCLINATION

- 10 -

AZIMUTH : 245°

TOTAL DEPTH : 932.7

T. Pollock

COMPOSITOR DRILL LOG

CORE SIZE : NQ SCALE : 1:100 PROJECT : Deer Park
 HOLE No. : DP-15
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : Oct. 16/81.
 PAGE No. 39 OF
 COORDINATES : N. E. DATE FINISHED :
 REF. TO CLAIM CORNER :
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m
 LOGGED BY : T. Bell

COMPOSIC DRILL LOC

CORE SIZE : *No*

SCALE : 1:100

PROJECT : Deer Park
DATE STARTED : Oct 16/81

CASING COLLAR ELEV.:

GROUND FLOOR

DATE STARTED : Oct 16/18.

COORDINATES

N.

DATE FINISHED

INCLINATION

-80°

AZIMUTH : 215°

TOTAL DEPTH :

1

DP-15

HOLE No.

10

PAGE No. 40 OF

REF. TO CLAIM CORNER 2

: T. Pollock

COMPOSITION DRILL LOG

CORE SIZE : Nq

SCALE : 1:100

PROJECT : Deer Park

HOLE No.

DP-15

CASING COLLAR ELEV.

GROUND FLOOR:

DATE STARTED : Oct 16/81

PAGE NO. 41 OF

COORDINATES

N. E.

DATE FINISHED:

REF. TO CLAIM CORNE

INCLINATION

AZIMUTH : 270°/S^W

TOTAL DEPTH

LOGGED BY

: T. Pollock

COMPOS DRILL LOG

CORE SIZE : NQ

SCALE : 1:100

PROJECT : Deer Park
DATE STARTED : Oct 16/81

HOLE No.

PP-75

CASING COLLAR ELEV.

GROUND FLOOR:

DATE STARTED : Oct 16/8

PAGE No. 42 OF

COORDINATES

N. E.

DATE FINISHED :

REF ID: A1A9H-00000-1

INCLINATION

-80°

AZIMUTH : 345°

TOTAL DEPTH

1888-2

: T. Pollock

COMPOSITION DRILL LOG

CORE SIZE : NP SCALE : 1:100 PROJECT : Deer Park
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : Oct. 16 /81
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : -80° AZIMUTH : 213° TOTAL DEPTH : m
 HOLE No. : DP-15
 PAGE No. 43 OF
 REF. TO CLAIM CORNER :
 LOGGED BY : T. Pollock

COMPOSITE RILL LOG

CORE SIZE : N/A

SCALE : 1:100

PROJECT : *Dear Park*

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE No. 44 OF

COORDINATES

DATE FINISHED :

REF. TO CLAIM CORNER 2

INCLINATION

AZIMUTH : 215°

TOTAL DEPTH :

LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE S

10

SCALE

1:100

PROJET

Deer Park
Oct 16/81

HOLE No.

DP-15

CASING COLLAR ELEV.

GROUND ELEV.:

COORDINATES

11

INCLINATION

-80°

AZIMUTH : 315°

TOTAL REVENUE

TOTAL DEPTH

PAGE No. 45 OF

REF. TO CLAIM CORNER

T Pollock

COMPOSITION DRILL LOG

CORE SIZE :	NQ	SCALE :	1:100	PROJECT :	Deer Park	HOLE No. :	DP-15
CASING COLLAR ELEV.:		GROUND ELEV.:		DATE STARTED :	Oct 16/81	PAGE No.	46 OF
COORDINATES :	N.	E.		DATE FINISHED :		REF. TO CLAIM CORNER :	
INCLINATION :	-80°	AZIMUTH :	215°	TOTAL DEPTH :	m	LOGGED BY	J. Pollock
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	Avg. Core Rec'y/Hole	
	SILICA	SESSITE	CLAY	CHLORITE			
675							
676							
677							
678							
679							
680							
681							
682							
683							
684							
685							
686							
687							
688							
689							
690							

COMPOSITE DRILL LOG

CORE SIZE : NQ - BQ SCALE : 1:100 PROJECT : Deer Park
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81 HOLE No. : DP-15
 COORDINATES : N. E. DATE FINISHED:
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m
 LOGGED BY : T. Pollock

DEPTH (m)	SILT:M SERICATE CLAY	ALTERATION effloccite	FRACTURING weak	MINERALS pyrophyllite	GEOLOGY weak	COMMENTS: End of NQ 692.5m	AVG. CORE REC'Y/HOLE	DESCRIPTIVE GEOLOGY			
								DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED
-690								102	NIL		100
-691								95.8	NIL		95.8
-692								100	NIL		100
-693								100	NIL		100
-694								100	NIL		100
-695								100	NIL		100
-696								100	NIL		100
-697								100	NIL		100
-698								100	NIL		100
-699								100	NIL		100
-700								100	NIL		100
-701								100	NIL		100
-702								100	NIL		100
-703								100	NIL		100
-704								100	NIL		100
-705								100	NIL		100

COMPOSIC DRILL LOG

CORE SIZE : BQ SCALE : 1:100 PROJECT : Deer Park
 CASING COLLAR ELEV. : GROUND ELEV. : DATE STARTED : Oct 16/81
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m
 HOLE No. : DP-15
 PAGE No. 48 OF
 REF. TO CLAIM CORNER :
 LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE						
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED
705	SILICA SERICITE CLAY CHLORITE	weak	py				96.7	Tr	NEL		47975	705
706					- local patches of solid gfy in fl. - very weakly magnetic		100					708
707							88.1	Tr	NEL			711
708					← start of "poker chip" fracturing, avg 0.6 cm wide		100					714
709							96.7	Tr	NEL			717
710							100					720
711							100					
712					- locally strongly broken, avg 1 fracture per 0.6 cm.		100					
713							100					
714							100					
715					0.3 cm gfy in 1.5 cm m-like structure high in py.		100					
716							100					
717					- rare and. porp. xenolith.		100					
718					0.3 cm gfy in		100					
719					10cm sil. zone in trace maf, clay alt. env.		100					
720							100					

COMPOSITION DRILL LOG

CORE SIZE : BQ SCALE : 1:100 PROJECT : Deer Park HOLE No. : DP-15
CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct. 16/81 PAGE NO. 79 OF
COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE	: 39	SCALE	: 1:100	PROJECT	: Deer Park	HOLE No.	: DP-15
CASING COLLAR ELEV.		GROUND ELEV.		DATE STARTED	: Oct 16/81	PAGE NO.	: 50 OF
COORDINATES	: N.	E.		DATE FINISHED		REF. TO CLAIM CORNER:	
INCLINATION	: -80°	AZIMUTH	: 215°	TOTAL DEPTH	: m	LOGGED BY	: J. Pollock
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLGY	COMMENTS:	Avg. Core Rec'y/Hole	
735	SILICA SERICITE CLAY CHALCO	weak	mag				735
736		mod.	mag		0.2cm grt in. - dark pink, fresh, hard, - weakly magnetic. - gtg in/lts common.		
737		weak	mag				
738		mod.	mag				738
739		mod.	mag				
740		mod.	mag				
741		mod.	mag				741
742		mod.	mag		0.3cm grt in. - rare and. porp. ? xenolith.		
743		mod.	mag				
744		mod.	mag				744
745		mod.	mag				
746		mod.	mag		0.8cm carb-f1 in. - weakly altered around gtg ms, very weakly magnetic		
747		mod.	mag		10cm and porphyry dyke.		747
748		mod.	mag		0.4cm greenish gtg in.		
749		mod.	mag		0.4cm gtg in w f1.		
750		mod.	mag		0.4cm dark orange 8cm aplite dyke.		750
						DRILLING INTERVAL m	
						% CORE RECOVERED	
						% SULPHIDES	
						% ESTIMATED	
						Sample No.	
						% SAMPLE RECOVERED	
						SAMPLE INTERVAL m	

COMPOSITE DRILL LOG

CORE SIZE : BP SCALE : 1:100 PROJECT : Deer Park HOLE No. : DP-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81 PAGE NO. 51 OF
 COORDINATES : N. E. DATE FINISHED :
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m REF. TO CLAIM CORNER:
 LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY			
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED
750	SILICA						750.1	107		750
751	SERICITE						751.	Tr	NIL	
752	CLAY						751.2			753
753	CHLORITE						752.			
754	weak	break	mag		5cm and. purp. dyke	Granite	752.1			
755					- crowded porphyry to v.c.g.		752.2			
756					- light to dark pink		753.			756
757					- fresh, hard.		753.1			
758					- very little magnetite		754.			759
759							754.1			
760							755.			762
761							755.1			
762							756.			765
763							756.1			
764							757.			
765					0.2 cm gr/m.		757.1			
					1.3 cm pink apophyllite dyke.		758.			
					0.4 cm gr/m w/f. local salmon pink sections but no m.		758.1			
							759.			
							759.1			
							760.			
							760.1			
							761.			
							761.1			
							762.			
							762.1			
							763.			
							763.1			
							764.			
							764.1			
							765.			
					0.2 cm gr/m.					

COMPOS DRILL LOG

CORE SIZE : Bq

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND FL FV:

DATE STARTED : 10-11-1961

HOLE No.

COORDINATES

N 5

REF. TO CLAIM CORNER

INCLINATION

AZIMUTH 1

第二部分

LOGGED BY

INCLINATION : **-80°**

AZIMUTH : 2/5°

TOTAL DEPTH :

LOGGED BY : / : 10/04/20

CORE SIZE		89	SCALE	1:100	PROJECT	Deer Park	HOLE No.	DP-15
CASING COLLAR ELEV.:			GROUND ELEV.:		DATE STARTED:	Oct 16/81	PAGE No.	54 OF
COORDINATES :		N.	E.	DATE FINISHED:		REF. TO CLAIM CORNER:		
INCLINATION	: -80°	AZIMUTH	: 215° <th>TOTAL DEPTH :</th> <td>m</td> <th>LOGGED BY</th> <td></td> <td>T. Pollock</td>	TOTAL DEPTH :	m	LOGGED BY		T. Pollock
DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLGY	COMMENTS:	Avg. Core Rec'y/Hole	Drilling Interval	% Core Recovered
795	SILICA SERICITE CLAY CHLORITE	weak	0.4cm gyl in 2cm clay att env.	Sperry - Sun test @ 801.6m Azimuth - 225°, Inc. - 84°	Granite - very weakly magnetic		795	795
796	very weak	weak	0.3cm gyl in				796	
797							797	
798					- around 798m weakly pegmatitic		798	
799							799	
800							800	
801							801	
802							802	
803					- fresh, some very weak clay alteration associated with gyl mbs.		803	
804					- local pegmatitic sections in fl. - rare anal. porp xenolith		804	
805							805	
806					- 806.3-808.2m: salmon pink, mixture between peg & start of clay alteration, 1.5-2py		806	
807							807	
808					0.3cm gyl in py, carb, fl. contact @ 45°		808	
809					v.f.g., greenish grey dyke, local hematite stain, silvery, iridescent, apatite		809	
810					10°		810	

COMPOSIC DRILL LOG

CORE SIZE : BQ

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE No. 55 OF

COORDINATES :

N.

E.

DATE FINISHED :

REF. TO CLAIM CORNER :

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH :

m

: T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	LOGGED BY			
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED SAMPLE No.
-810	SILICA									
	SERICITE									
	CLAY									
	CHLORITE									
-811	weak				0.2cm gtym					
					← considerable f1 in alt. section					
-812										
-813										
-814										
-815					40cm gtym @ 20° w dark grey zones.					
					815-816.1m: dyke similar to above, has the texture					
					of a f.g. st., fine diss py, ham, no visible m.					
-816	weak				Contact 25:					
-817										
-818										
-819					0.3cm gtym w py - dark pink, fresh, hard,					
					2cm clay alt. env - weakly magnetic					
-820										
-821										
-822										
-823										
-824										
-825					-fresh, hard					

COMPOSITION DRILL LOG

CORE SIZE : B9 SCALE : 1:100 PROJECT : Deer Park HOLE No. : DP-15
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81 PAGE NO. 56 OF
 COORDINATES : N. E. DATE FINISHED : REF. TO CLAIM CORNER :
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m LOGGED BY : T. Pollock

COMPOSITE DRILL LOG

CORE SIZE : B4

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 4/81

PAGE No. 62 OF

COORDINATES

N. : E.

DATE FINISHED:

REF TO SLA/WL CORNER

INCLINATION

AZIMUTH : 245°

TOTAL DEPTH

LOGGED BY : T. Pollack

COMPOSITE DRILL LOG

CORE SIZE : BCP SCALE : 1:100 PROJECT : Deer Park
 CASING COLLAR ELEV.: GROUND ELEV.: DATE STARTED : Oct 16/81
 COORDINATES : N. E. DATE FINISHED:
 INCLINATION : -80° AZIMUTH : 215° TOTAL DEPTH : m
 HOLE No. : DP-15
 PAGE NO. 58 OF
 REF. TO CLAIM CORNER:
 LOGGED BY : T. Pollock

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE				
							DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED
855	SILICA SERIZITE CLAY CHLORITE	weak	mag. mineral		Pink Granite					
856	locally weak				- fresh, dark pink					
857	weak				- very coarse grained, could be called 0.2 cm each m.	a crowded porphyry				
858					- 10-15% gneiss					
859					- 10% scattered, minor mag. / fels only 0.3 cm gneiss.					
860					- very few veins.					
861										
862					0.2 cm gneiss in 5cm clay alt. env.	local weak clay alteration generally 0.1cm gneiss m.				
863						surrounding gneiss veins.				
864										
865						local poster chip fracturing.				
866										
867					Two 0.2 cm gneiss in pyroxene clay alt. env.					
868										
869										
870					0.4 cm gneiss m w fl.					

COMPOSITE DRILL LOG

CORE SIZE : BQ

SCALE : 1:100

PROJECT : Deer Park

HOLE No.

DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct, 16/81

PAGE NO. 59 OF

COORDINATES :

N. E.

DATE FINISHED :

REF. TO CLAIM CORNER :

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH :

m

T. Pollack

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'Y/HOLE	DRILLING INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL	LOGGED BY
870														
871														
872														
873														
874														
875														
876														
877														
878	as envelopes. weak	very strong	ref.		- now strongly broken - fractures avg 0.5cm apart, some fractures are not clearly broken through. - other spots the rock is in pieces like gravel - Rock is still very hard & unaltered. - poor recovery.		871.1	91.4						870
879							871.7	26.7	.2					
880								21.1						
881								72.2						
882								87.2						
883								86.5						
884								88.6						
885								92.6						

COMPOSITE DRILL LOC

CORE SIZE : BQ	SCALE : 1:100	PROJECT : Deer Park	HOLE No. : DP-15
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED : Oct 16/81	PAGE No. 60 OF
COORDINATES :	N.	E.	REF. TO CLAIM CORNER :
INCLINATION : -80°	AZIMUTH : 215°	TOTAL DEPTH : m	LOGGED BY : T Pollock
ALTERATION	COMMENT		

DEPTH (m)	ALTERATION	SERICITE CLAY CHLORITE	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DESCRIPTIVE GEOLOGY			DRILLING INTERVAL m	% CORE RECOVERED	% SULPHIDES	% ESTIMATED	SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL (m)
								weak	weak	weak							
885	SZ12CA										885.4	92.6			885		
886						0.2 cm glt. m w 6 cm clay alt. env.											
887			Strong								886.4						
888						0.7 cm glt. m 0.6 cm glt. m.	← here the rock is grey, still quite hard, with glt. on stockwork, 2% pyrite, diss pp.				887.4	92.7					
889											888.4						
890											889.4						
891						0.5 cm glt. m.	strongly fractured, locally the core is in pieces.				890.4	38.3					
892											891.4	61.8					
893											892.4	29.8					
894											893.4						
895						0.3 cm glt - ch / m, very weak clay alt.					894.4						
896											895.4						
897											896.4						
898						0.4 cm glt. m, clay alt. env.	minor diss hem.				897.4						
899											898.4						
900											899.4						
											900.4						

COMPOSIC DRILL LOG

CORE SIZE

SCALE

PROJECT : Deer Park

HOLE No.

DP-15

CASING COLLAR ELEV.:

1 GROUND ELEV.:

DATE STARTED :

PAGE No. 61 OF 63

COORDINATES

N. E.

DATE FINISHED:

REF. TO CLAIM CORNER :

INCLINATION

AZIMUTH

TOTAL DEPTH : 932.7

LOGGED BY

COMPOSIC DRILL LOG

CORE SIZE : 39

SCALE : 1:100

PROJECT : Deer Park

HOLE No. : DP-15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED : Oct 16/81

PAGE NO. 62 OF 63

COORDINATES :

N.

E.

DATE FINISHED : Nov 23/81

REF. TO CLAIM CORNER :

INCLINATION :

-80°

AZIMUTH : 215°

TOTAL DEPTH : 932.7 m


LOGGED BY :

DEPTH (m)	ALTERATION	FRACTURING	MINERALS	GEOLOGY	COMMENTS:	AVG. CORE REC'D/HOLE	DRILLING				SAMPLE No.	% SAMPLE RECOVERED	SAMPLE INTERVAL
							INTERVAL	% CORE RECOVERED	% SULPHIDES	% ESTIMATED			
915	SILICA						913	TR	TR	100	48010	915	
916	SERICITE						913	TR	TR	100	48010	915	
917	CLAY						913	TR	TR	100	48010	915	
918	CHLORITE	weak					913	TR	TR	100	48010	915	
919							913	TR	TR	100	48010	915	
920							913	TR	TR	100	48010	915	
921							913	TR	TR	100	48010	915	
922							913	TR	TR	100	48010	915	
923							913	TR	TR	100	48010	915	
924							913	TR	TR	100	48010	915	
925							913	TR	TR	100	48010	915	
926							913	TR	TR	100	48010	915	
927							913	TR	TR	100	48010	915	
928							913	TR	TR	100	48010	915	
929							913	TR	TR	100	48010	915	
930							913	TR	TR	100	48010	915	

COMPOSITION DRILL LOG

CORE SIZE : B4	SCALE : 1:100	PROJECT : Deer Park	HOLE No. : DP-15
CASING COLLAR ELEV.:	GROUND ELEV.:	DATE STARTED : Oct 16/81	PAGE NO. 63 OF 63
COORDINATES : N.	E. ..	DATE FINISHED : Nov 23/81	REF. TO CLAIM CORNER :
INCLINATION : -80°	AZIMUTH : 215°	TOTAL DEPTH : 932.7 m	LOGGED BY : T. Pollock

APPENDIX E
DIAMOND DRILL ASSAY LOGS
(To be held confidential for 5 years)



**PART
1
1988**

10.30P

UTAH MINES LTD.

EXPLORATION DEPARTMENT

Vancouver, British Columbia

SIMPLIFIED GEOLOGY

Work by : T.R.POLLOCK	Date : Dec. 1980	NTS Ref. 82-E-8
Drawn by : Ram N. Gopal	Revised : Feb. 1982	
SCALE 1:5000		
METRES 100	0	300
100	200	400 METRES