

LEONAR PROPERTY - DIAMOND DRILL LOG

DD-32

09/127

D.H. #1

Dated started - Aug. 2, 1972
 Date completed - Aug. 2, 1972
 Elev. 4081' -
 Logged by G. Boggess

<u>From</u>	<u>To</u>	<u>Distance</u>	<u>Recovery</u>	
	7	7	0	OB
	9	2	1½	Mixed Diorite por and cgl
	17	8	8	Leuco Gran; buff; fg contact @ 9'
17	38½	21½	21	Mixed diorite por & AQ; at 22' badly broken and specks of pyrite in hairlike fr. faint remnant bedding 55°; 6" cgl at 23'; RW joints through- out at 6" to 1' intervals
38½	49½	11	11	Leuco Gran; 41-46 RW; strong alt. broken, shattered appearance, occ pyrite in fr.
49½	53.0	3½	3½	H Gran; pink and green alt of fels
53	57.0	4	4	Mixed Aplite and Dioritized sediments
57	73.5	16½	16½	SK and AQ; RW locally; occ specks of Cpy ? and Py at 65'
73½	76.0	2½	2½	Aplite
75	80.0	4	4.0	Mixed SK & AQ; well bedded @ 50°
80	88.0	8	8	H.Gran; partly alt, bleached from 84-88
88	92.5	4½	4½	SK, closely veined with Quartz at 15°; banded with ¼" magnetite & acc py at 91½' (See assays below)
92.5	97	4½	4½	LS magnetite with cpy & Py @ 97'
97	103	5.0	5	LS & SK with mag & minor cpy, py and epidote. (See assay below)
103	103½	½	½	Ls, fg contact zone
103½	120	16.5	16	H.Gran; welded contact @ 45° @ 103½'
120	129	9.0	9	Aplite Dyke; some H Gran material embedded
129	141	12.0	11.8	H.Gran; slightly grnsh due to Chlorite alt.
141	144	4.0	4	Aplite Dyke
144	158	4.0	4	SK with some magnetite and minor py.
148	171	23.0	22.8	H.Gran, alt, bleached, chloritized, RW ¼" Qtz veinlet at 0° @ 158,163,165, 170.
171	192	21	21	Fresh H.Gran, loc bleached at 181½ to 188

END

95% Core recovery.

Assays

<u>% Cu</u>	<u>% Fe</u>	<u>Au</u>	<u>Ag</u>	
.11	18.6	Tr.	.16	Oz/ton
.06	16.1	-	-	



DD-32

CW Q61882-
Q61892

J.D. Grouse, Roy 105-D-11
S. Takacs, E. Knapp APR 72

D.D.H. #2

Date started - July 1971
Date completed - August 1971
Elev. 4081' - Dip - 90°
Logged by G. Boggaram

From	To	Distance	Recovery	
0	7	7	0	CB
7	52	52	50	H.Gran, grey to light pink col; AW @ 33' 46, little alt.
52	55	3	3	Gran; bleached RW minor py; faint remnant bdg 20° @ 55'
55	125½	70½	69½	H.Gran; at 98' badly broken, minor alt, RW along the fr.
125½	126	½	½	Green SK on welded contact
126	180	54	53½	Ls and occ dolomitic? Light grey to buff; remarkably alt bands to 133'; green serpentine at 133½, 141-143 loc; alt fands 147-150; contact @ 150' @ 35° with another texture of Ls - structureless @ 155-158 & 163-165; actinolite mixed with magnetite @ 175-6, with minor Cyp and Py (bedding 75°)
180	183½	3½	3½	Andesite Dyke
183½	192½	9	8¾	Magnetite & SK with Cpy, Py and pyrrhotite; (See assays below)
192½	194	1½	1½	Ls and Sk
194	200	6	6	H.Gran; badly broken shattered appearance, may be a shear zone?
200	203	3	3	Andesite Dyke, welded contact @ 200'
203	224	21	20½	H.Gran; remnant bedding locally evident at 205' @ 65° RW loc 212-222
224	235½	11½	11½	Greenish andesite Dyke, minor specks py

235.5' End of Hole

95.5% Core recovery

ASSAYS

	% Cu	% Fe	Au	Ag	
183½	.26	24.9	.005	.14	Oz/ton
186	.02	44.3	-	-	



09/1127

D.D.H. #3

Date started - Aug. 4, 1972
 Date completed - Aug. 6, 1972
 Elev. 4081' - Dip - 70°
 Logged by G. Boggaram

<u>From</u>	<u>To</u>	<u>Distance</u>	<u>Recovery</u>	
0	4	4	0	O.B.
4	25	21	19½	Hb Gran; light grey to pink, fels embedded in fine ground mass; badly broken @ 11-12.
25	58	33	27½	Sk & AQ; greenish & brownish occ RW @ 27', 29-30, 33-42; minor specks py, pyrr, mag & cpy as @ 51'; good thin bdg @ 40°; cgl @ 58-9.
58	158	100	99½	Diorite por, SK & AQ? light grey color with feldspar pheros locally; faint bedding loc; mostly brown & green SK 88-93, RW @ 133, 137-40, 142-3, 147-153; from 70-72 py & mag in hair like fr; at 73' brecciated? py, pyrr disseminated; ¼" Qtz veinlet with py & pyrr @ 79; badly broken @ 89-103' with py scattered in fr; from 105-111, 117, py dissemi; at 130' fractures filled with calcite? minor py; at 143 brecciated? at 157 badly broken, shattered throughout.
158	186	28	27½	Bleached and altered Hb Gran; fine grained contact @ 158' for 2'; mafics serpentized; breccia @ 170'; strong alt; loc aplitic @ 185-6.
186	257½	71½	70	Fresh Hb Gran; 205-210 bleached greenish, then brownish to 218 and then mixed; from 222-257½ fresh H. Gran.
257½	259½	2	2	Andesite dyke, greenish
259½	267	7½	7½	Hb Gran; fresh.
267	271	4	4	Andesite dyke fine gr. greenish.

271' End of Hole

97% Core Recovery

NO ASSAYS

D.D.H. #4

Date Started - Aug. 7, 1972
Date Completed - Aug. 9, 1972
Elev. 4103' - Dip -90°
Logged by G. Boggaram

From	To	Distance	Recovery	
0	7	7	0	OB
7	92	85	84½	Hb Gran; light brown to grey, med to coarse grained, strong alt thro'out, shattered appearance @ 12-14, 20-23, 26; may be a shear zone? RW @ 33, bleached, chloritized; occ py @ 37; about 3" dyke @ 42'; from 44-46 broken chloritized & occ py; 3" dyke @ 48'; fracture 60° to the core, highly bleached @ 68-70, fels alt to serpentine beyond 70; mafics completely bleached 80-92 except loc; pebbles & sand @ 67½-70 may be shear zone.
92	94	2	2	SK contact, 1/16" Jasper @ 94 with minor mag; fr 45° to the core.
94	98	4	4	Ls, white to light grey
98	101	3	3	Sk
101	127	26	26	Ls; from 105-110 mottled with frags surrounded by faint black rims, bedding indistinct; 3" mag @ 125' & 126".
127	128	1	1	H Gran
128	131½	3½	3½	Sk; mag, minor Cpy and Py @ 129'.
131½	134	2½	2½	H.Gran
134	163	29	29	SK, light brown to grey; from 136½-138, 140-142, 149, occ Cpy? Py and pyrrhotite; @ 149 frac 60° to core; @ 151' - 4" dyke; 1/16" Qtz veinlets with Py @ 152; occ Py & pyrrhotite @ 160'; 163; mixed SK & AQ, well bedded AQ @ 35°-40°, partly bleached;
163	178½	15½	15½	H .Gran; @ 162 frac with dyke material? broken badly.
178½	181	2½	2½	SK, badly broken, serpentized.
181	183½	2½	2½	H. Gran.
183½	185	1½	1½	SK, badly broken
185	207	22	21½	Ls; @ 191 frac 60° to the core; occ mag.
207	221	14	13½	Mag Sk, strong alt @ 207, serpentized; massive mag w loc py & minor cpy (See assays below)
221	224	3	3	H.Gran; gneissic banding or remnant bdg @ 75°.
224	227	3	3	Andesite dyke, light grey to green.

END

96% Core Recovery.

ASSAYS

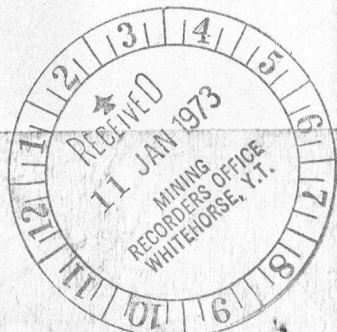
	% Cu	% Fe	Au	Ag	
207 214	7	.05	45.9	.005	.08 oz/ton
214 220½	6½	.01	42.9	-	-



Date Started - Aug. 9, 1972
Date completed - Aug. 13, 1972
Elev. 4224' - Dip -90°
Logged by G. B. Oggaram

D.D.H. #5

From	To	Distance	Recovery	
0	15	15	0	OB
15	90	75	88 1/2	Sk, AQ & Cgl; brown & grey colour; compact tex; little alt; Py ' Pyrr disseminated @ 18'; 6" Cgl @ 19'; semi-rounded frags or pebbles contain closely-packed fels phenocrysts and impart a Cgl-like appearance @ 29; epidote & Qtz veinlets with Py @ 24', may be Cgl, shows bedding @ 50°; scattered Py in frags; strong alt @ 34; from 36 1/2-45 Cgl; @ 44 1/2" Qtz vein with Py & epidote bedding at 60°; Cgl at 48; 6" Hornfels @ 51'; 52-54 hair-like fr with Py, pyrr, & occ speck Cpy; @ 66 badly broken, at 71 fr 45° to core - scattered py & Pyrr in fr; from 73-90 sediments & Cgl; badly broken @ 80 with diss. py.
90	98	8	8	Dioritized por; closely packed with plagioclase phenocrysts; broken core throughout; from 93-96 shattered appearance; sand-like @ 96; 1/8" Qtz veinlets with py @ 98'.
98	100	2	2	Cgl
100	106	6	6	Sli dioritized Qtz or Gywk; mostly fg, light grey with rel few wh fels phenos.
106	109	3	3	Di por; closely packed white plag phenos; remnant bdg visible, minor py.
109	112 1/2	3 1/2	3 1/2	Alt sed -Sk w epid, light grey green, minor py & pyrr, minor chlor on frac; bdg 70°.
112 1/2	114	1 1/2	1 1/2	Di por (same as 106-109)
114	117	3	3	Same as 100-106, but shattered w white veinlets along core.
117	129	12	12	Same as 106-109; light greenish-white to 124', then grey.wh.; 1/8" Qtz veinlet parallel core @ 118'.
129	146	17	17	Same as 100-106; loc grnsh due to chlor along the fr, some of which have Qtz veinlets along core causing shattered appearance; brnsh & gy fg unalt seds @ 131-1 1/2, - bdg @ 55°; badly broken @ 134; shattered appearance @ 138; minor py; @ 139' bdg 45°.
146	155	9	9	Same as 106-109, Di Por; diss py @ 146.
155	166	11	11	Same as 100-106, minor alt, shattered appr. @ 156, minor py; fr parallel to core; bdg is 70° @ 163'.
166	169	3	3	Same as 106-109, Di Por
169	189	20	20	Same as 100-106, minor Chlor & epi, occ py; shattered appear; RW @ 185, 1/10" Qtz veinlets @ 186, minor py.
189	208	19	19	Cgl, same as 15-90, badly broken @ 196'; RW @ 202, bdg @ 70° @ 206.
208	211	3	3	Same as 100-106.
211	221	11	11	Same as 106-109, RW @ 220 - Di Por.
221	232	11	11	Same as 90-98, broken, RW @ 230, 1/10" Qtz veinlets parallel to core occ py.



D.D.H. #5

<u>From</u>	<u>To</u>	<u>Distance</u>	<u>Recovery</u>	
232	234	2	2	Alt sed, broken badly, slicken-sided? serpentized.
234	243	9	9	Same as 106-109, Di Por.
243	253	10	10	Same as 90-98, shattered appear @ 248, occ py.
253	260 $\frac{1}{2}$	7 $\frac{1}{2}$	7	Same as 106-109, badly broken @ 255, occ py.
260 $\frac{1}{2}$	274	13 $\frac{1}{2}$	13 $\frac{1}{2}$	Andesite Dyke, light grey, fine gr. shattered appearance RW @ 271
274	296	22	22	Same as 100-106, badly broken throughout, occ py, 6"; Cgl @ 188.
296	301	5	5	Leuco Gran, light grey, bleached, shattered appear throughout.
301	310	9	9	Same as 106-109, RW loc
310	314	4	4	Same as 100-106, 6" cgl @ 311 $\frac{1}{2}$
314	315	1	1	Cgl.
315	319	4	4	Same as 100-106.
319	322	3	3	Same as 106-109, Di Por.
322	329	6	6	Same as 100-106, strong alt, shattered appear thro'out.
329	330	1	1	Same as 106-109 - Di Por.
330	331	1	1	Hornfels?; brnish.
331	335	4	4	Same as 106-109, Di Por.

335' End Of Hole

NO ASSAYS

D. D. H. #6

Date started - Aug. 13, 1972
 Date completed - Aug. 15, 1972
 Elev. 4227' - Dip -90°
 Logged by G. Boggaram

From	To	Distance	Recovery	
0	19	19	0	OB - casing to 19'.
19	20	1	1	A Q & SK, mostly boulders & pebbles.
20	92½	72½	72	Ls. light grey med gr, mostly structureless to 60'; then some streaks of black material; shattered appear @ 26, fr parallel to core @ 47, Vuggy @ 61, RW @ 77 loc; buff contact zone @ 81-88, then light grey again; 6" SK breccia @ 92-92½.
92½	93½	1	1	Gran SK
93½	198	104½	104½	AQ, some SK & Di Por alt @ 103, 112, etc; grey greenish & brownish; some mottled; loc 6" cgl @ 125 & 185'; minor py, irregular banding @ 135; occ py & pyrrhotite @ 165, strong alt @ 175-177; badly broken @ 189, occ py Cgl @ 190, 192, 195-6, 198.

198' End of Hole

NO ASSAYS