Great Lyell Diamond Drill Bore No. 3

core not held

Location: Approximately 320' S.S.W. of the Great Lyell Shaft.

Length of hole: 401'

Purpose: To test the McPhar I.P. anomaly lying to the east of the collar position.

Co-ordinates of Collar: 11,689.766' S, 45.209' W, R.L. 1172.14'

Commenced: 1st September, 1961 **Completed:** 27th September, 1961.

Surveys:

Depth	Angle	Bearing
Collar	-45°	62°00'
390'	-37°	- (acid tube)

Assays:

% Cu.

0' - 150'	N.A.
150' - 160'	0.09
160' - 170'	0.20
170' - 175'	0.30
175' - 190'	0.19
190' - 210'	0.05
210' - 215'	0.16
215' - 255'	0.05
255' - 260'	0.50
260' - 275'	0.07
275' - 280'	0.40
280' - 290'	0.10
290' - 305'	0.05
305' - 310'	0.10
310' - 325'	0.04
325' - 330'	0.10
330' - 350'	0.06
350' - 365'	0.10
365' - 401'	0.06

% FeS_2

150' - 170'	3.95
170' - 180'	1.23
180' - 200'	4.28
200' - 250'	2.57
250' - 260'	0.71
260' - 270'	1.38
270' - 280'	0.07
280' - 290'	0.82
290' - 340'	1.82
340' - 401'	4.74

Core Recovery Grades

0' - 120' 6"	C
120' 6" - 125' 10"	A
125' 10" - 128' 4"	B
128' 4" - 133' 5"	A
133' 5" - 141'	B
141' - 153' 9"	A
153' 9" - 159' 2"	C
159' 2" - 165' 7"	B
165' 7" - 167' 3"	A
167' 3" - 172' 3"	B
172' 3" - 174' 3"	A
174' 3" - 175' 8"	B
175' 8" - 185' 2"	A
185' 2" - 188' 8"	C
188' 8" - 193' 11"	B
193' 11" - 232' 5"	A
232' 5" - 236' 2"	B
236' 2" - 252' 8"	A
252' 8" - 255' 6"	B
255' 6" - 293'	A
293' - 300'	B
300' - 372' 11"	A
372' 11" - 374' 8"	C
374' 8" - 377' 10"	B
377' 10" - 381' 10"	A
381' 10" - 382' 11"	B
382' 11" - 383' 9"	C
383' 9" - 393' 10"	A
393' 10" - 401'	B

Geological Log

0' - 35'	Cement, detritus, etc.
35' - 55'	Greenish chloritic schist fragments.
55' - 70'	Pinkish quartz sericite schist with large (¼") brick red spots. 55'-59' 59' - 63' White quartz-chlorite-siderite veining.
70' - 77'	Dark green chloritic schist.
77' - 140'	Pink quartz sericite schist. 77' - 81' mainly quartz-siderite-chlorite veining. 81' - 109' Tends to a quartz chlorite sericite schist. 109' - 118' Almost complete core loss. Some pyrite at 118'. 119' - 128' Veinlets and blebs of quartz-siderite material are prominent. 136'- 140' Spotted with chlorite.
140' - 166'	Dark green chlorite schist. Veinlets and blebs of white quartz-siderite. 140' - 145' Slightly pink - gradational material a little fine pyrite present. S.C.A. 50° at 145'.
166' - 180'	Pink quartz sericite schist, slightly hematitic. 166'-168'6" Quite hematitic. Fine pyrite present in bands not parallel to schistosity. 172' - 176' White quartz-siderite-chlorite vein with fine pyrite and some coarse blebs of chalcopyrite. 176' - 176'6" Very pyritic pale grey sericitic schist.
180' - 185'6"	Pink and green quartz sericite chlorite schist.
185'6" - 192'	Pink quartz sericite schist. Small patches of hematitic material occur. Little pyrite.
192' - 200'6"	Purplish pink quartz sericite hematite schist. Fine pyrite is present, sometimes concentrated in bands parallel to schistosity. S.C.A. 50° at 194'.
200'6" - 209'	Greyish green chlorite schist with patches of hematite-rich material to 203'. Blebs of quartz-siderite material common.
209' - 213'	Pinkish quartz sericite chlorite schist. Numerous cracks filled with quartz-siderite.
213' - 226'	Purplish grey quartz sericite hematite schist 217' - 217'6", 219' - 221'. Pink quartz sericite schist, quite pyritic.
226'- 235'	Greyish quartz sericite schist with some flecks of dark green chlorite. Small patches of pink pyritic quartz sericite schist frequently occur.

235' - 308' Quartz sericite chlorite schist.
Varies from quartz sericite schist (pink) to quartz chlorite schist (green), as well as including gradational material.
235' - 236' Flecked with hematitic material.
244'9" - 245'6", 247'6" - 248' White quartz siderite veining
S.C.A. 45° at 235'.
Where patches of quartz sericite schist occur, moderate pyrite also occurs.
250' - 252' Pink quartz sericite schist.
252' - 253' Quartz siderite chlorite vein.
256' - 257' Pink quartz sericite schist.
278' - 282' Slightly hematitic, with some pyrite.
282' - 285' Considerable quartz-siderite-chlorite vein material with a little pyrite and chalcopyrite.

300' - 303' Quartz siderite chlorite vein - very pyritic at 302'.

Small blebs and veinlets of quartz-siderite common throughout.

308' - 401' Grey green chloritic schist (which varies to dark green by 318', reverting to grey green again by 350').
S.C.A. 50° at 318', 65° at 348'.
Where small patches of quartz sericite schist occur have fine grained pyrite associated with it. Elsewhere pyrite is sparse.
350' - 352'9" Quartz-siderite vein.

Small veinlets of quartz-siderite material common to 401'.

Completed.