FORM No. H.E. 443

DRILLING RECORD

AREA: MIDDLE GORDON INVESTIGATION.

LOCATION: QUARRY 'B'.

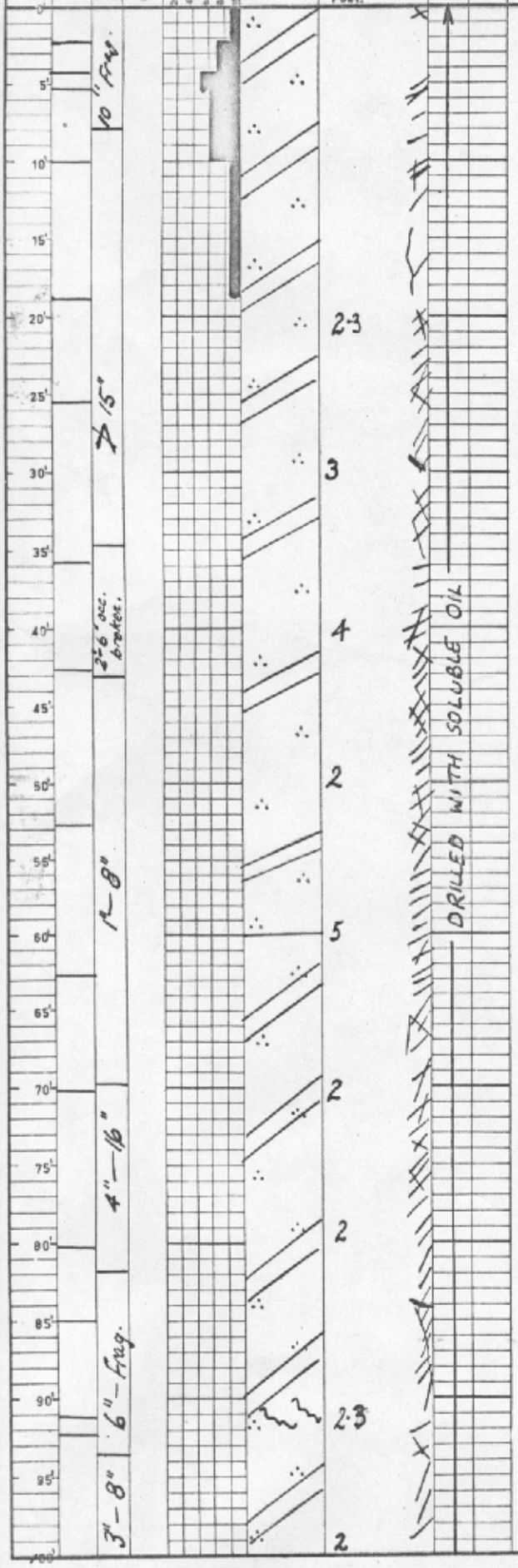
GEOLOGICAL PLAN: SURVEY PLAN: 397-739

DATES (a) DRILLED: APRIL, MAY 1967. (b) WATER TABLE:

METHOD: D.D. E1000. DIAMETER: NMLC, BMLC.

SITE REMARKS:

POSITION	CO-ORDINATES:	E: 397.2147	N: 739.1565	HOLE No. 6942
	ON LINE:	BEARING:	AT CH:	
	AT STN:	BEARING:	DIST:	FILE No.
LEVEL	SURFACE	COLLAR	WATER TABLE	
		1190		SHEET 1 OF 3 SHEETS
INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	
	VERT/~~HOR~~/INC.	90°		



REMARKS

0'0" to 60'0" – Possibly only boulders down to 8'. Weathered to slightly decomposed white-light grey foliated metaquartzite.

Below 25' thin decomposed schist and/or chlorite partings parallel to the foliation appear. Joints widely to moderately widely spaced, open, and weathered. Rock occasionally slightly friable on top 12' elsewhere may be somewhat floury, but becoming more glassy and fresher below 50'. Occasional coarse quartz veining seen. Foliation planes vary from closely spaced to absent. Probably suitable for aggregate where fresh.

40' Foliation 60° to ⊥ to core axis.

60' to 102'0" – Light-dark grey well foliated, but occasionally dense & glassy, metaquartzite with thin green & light brown weathered – decomposed chlorite or sericite partings parallel to foliation. Rock fresh overall but chlorite or sericite weathered. Joints tight to open, somewhat discoloured. Most core breaks are along foliation. Marginally suitable for aggregate, possibly when fresh.

FORM No H.E. 443

DRILLING RECORD

AREA: MIDDLE GORDON INVESTIGATION	POSITION	CO-ORDINATES:	E:	N:
LOCATION: QUARRY 'B'		ON LINE:	BEARING:	AT CH:
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST:
DATES (a) DRILLED: APRIL MAY '67 (b) WATER TABLE:	LEVEL.	SURFACE	COLLAR	WATER TABLE
METHOD: D.D. E1000 DIAMETER: NMLC, BMLC.				
SITE REMARKS:	INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION
		VERT/~~HOR~~/~~INC~~.	90°	

HOLE No. 6942

FILE No.

SHEET 2 OF 3 SHEETS

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY %	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
100'										102'0" to 128'0" - Dense white - light grey weathered metaquartzite showing thin schist or chlorite partings
105'		6" 10"								which are often decomposed. Rock tends to have floury appearance and is often dis-
110'		6" - Freq.				2-3				- coloured. Becomes foliated, fresher and shows fewer partings towards base and is gradational to unit
115'										below. Joints widely - moderately widely spaced, open and slightly weathered. Marginally suitable.
120'						2-3				
125'						Some joints possibly foliation breaks				
130'		Generally 3" - 12"				3-4				128'0" to 193'0" - Fresh light grey to dark grey-green well foliated metaquartzite, with thin slightly weathered green chlorite or sericite partings.
135'										(Probably fresh equivalent of rock at 60'). Joints widely - moderately widely spaced, slightly open fresh.
140'						3-4				Chlorite partings become more common below. Core breaks along both joints and foliation.
145'										Angle of foliation variable. Considered to be unsuitable for aggregate.
150'						3				137' Foliation 10° — 15° Sample taken 138'
155'										158' Foliation 90° 160' Foliation 75°
160'						2				161'9" to 162'3" - Decomposed quartzite breccia or weathered in situ, closely interfoliated chlorite/quartzite.
165'										
170'						2				
175'										
180'		1" - 8" occ. fragmented.				4-5				180' Foliation becomes contorted.
185'										192' Foliation 65°
190'						1				
195'										
200'										

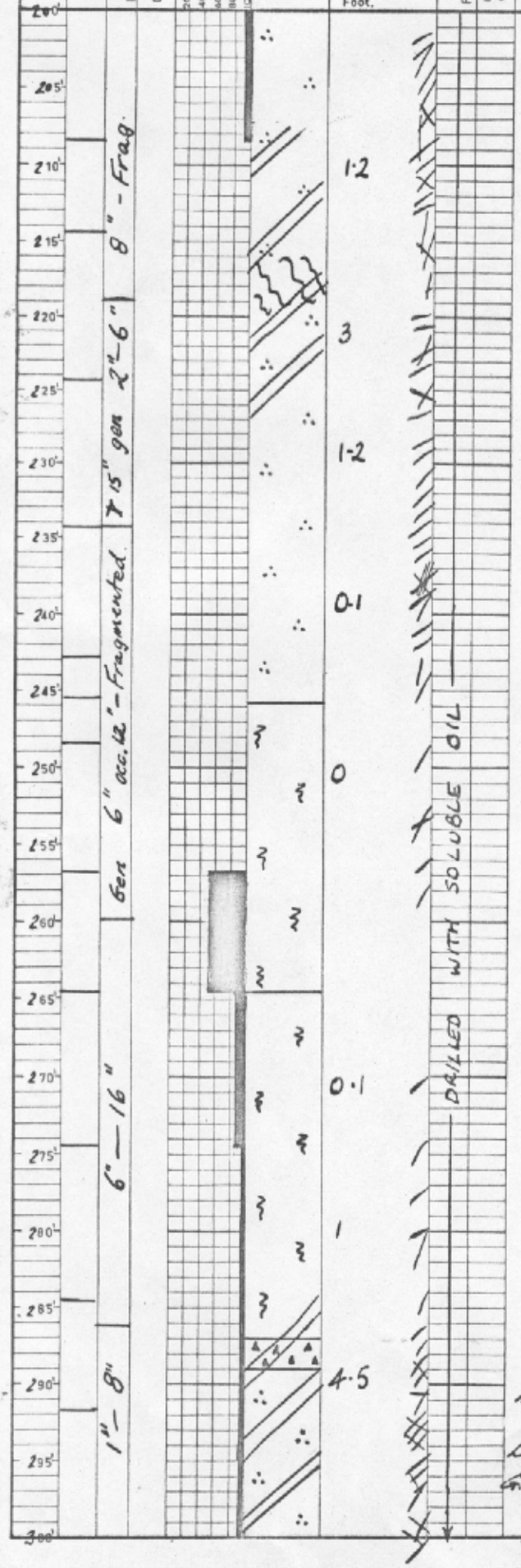
DRILLED WITH SOLUBLE OIL

DRILLING RECORD

AREA: MIDDLE GORDON INVESTIGATION.
LOCATION: QUARRY 'B'
GEOLOGICAL PLAN: SURVEY PLAN:
DATES (a) DRILLED: APRIL MAY 1967 (b) WATER TABLE:
METHOD: D.D.E1800 DIAMETER: NMLC AMLC
SITE REMARKS:

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 6942
	ON LINE:	BEARING:	AT CH:	
	AT STN:	BEARING:	DIST:	FILE No.
LEVEL.	SURFACE	COLLAR	WATER TABLE	
INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION	SHEET 3 OF 3 SHEETS
	VERT ~~/HOR LINE~~	90°		

DEPTH | CORE DRAWN | CORE LENGTH | CASING | RECOVERY % (20 40 60 80 100) | GRAPHIC LOG | JOINTS No. Per Foot. | FLUID RETURN | GROUND WATER | WATER PRESSURE TESTS LEAKAGE



Hole completed 300'. Logged by G.E. Rawlings 15.5.67.

REMARKS

193'0" to 245'8" – Light grey dense meta-quartzite showing occasional thin chlorite seams up to ½" and occasional pockets of drusy cavities maybe filled by limonite. Below 207' rock becomes broken up, floury and shows zones of limonite staining down to 226'. Joints closely – widely spaced tight or slightly open, weathered in zone indicated. Foliation weakly developed, many core breaks parallel to it. Below 234' chlorite bands become thicker. Rock generally suitable for aggregate.

233' Foliation 45°

245'8" to 264'5" – Interfoliated dark grey-black mica chlorite schist and thin grey metaquartzite bands occasionally up to 3' thick. Rock fresh – patchily weathered. Joints widely spaced, slightly open, fresh occasionally, quartz chlorite boudins present. Foliation strongly developed in schist generally absent in quartzites. Large core loss. Unsuitable for aggregate.

264'5" to 287'0" – Light to dark grey contorted chlorite mica schist with quartzite bands up to ½" which demonstrate strong folding. Rock very widely jointed, breaks usually occur along foliation. Fresh. Unsuitable for aggregate.

287'0" to 289'0" – Fault breccia composed of angular to sub-rounded fragments of light grey quartzite up to 1" dia. set in green-grey matrix of schisty and granular material

289'0" to 300'0" – Light – dark grey to red-brown metaquartzite grading down into light grey-green – dark grey fractured, mottled foliated meta-quartzite, probably is sheared or metamorphosed conglomerate. Relict pebbles probably seen. Joints moderately closely – closely spaced. Open, stained. Unsuitable for aggregate