805052

CRA EXPLORATION PTY. LIMITED

DRILL-HOLE SUMMARY LOG

EL NAME: MT DUNDAS
EL NUMBER: EL45/92
DATE DRILLED: JUN '94
LOGGED BY: RGP

HOLE NAME: DD94 DM211
PROSPECT: MARIPOSA

AMG EAST:
AMG NORTH:
RL:

GRID EAST: 67380 E
GRID NORTH: 59403 N
TOTAL DEPTH: 150.6

DEPTH	AZIM. (~~MAGN~~ AMG)	INCLIN.
0	252	-45
50	245	-44.5
100	245	-44
150	246	-41

OBJECTIVES OF HOLE: To test for structurally controlled or stratabound mineralisation at Dundas Gp - Gordon Lst contact.

LITHOLOGICAL SUMMARY:

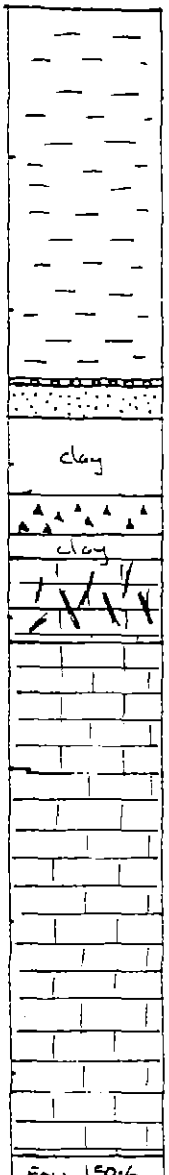
DFROM	DTO	COMMENTS
0	49.25	DUNDAS GROUP SILTSTONE
49.25	49.45	OWEN CONGLOMERATE ? ?? ??
49.45	53.95	MOINA SANDSTONE
53.95	64.0	CARBONACEOUS CLAY
64.0	69.5	DOLOMITE BRECCIA - Gt+Sp 67.5 - 69.3.
69.5	72.2	DECOMPOSED LIMESTONE
72.2	83.4	VEINED CALCARENITE
83.4	150.6	CALCARENITE - LIME MUDSTONE

MINERALISATION SUMMARY:

DFROM	DTO	COMMENTS
67.5	69.3	1.8 m @ 9.84% Zn 6.5% Pb 67 ppm Ag

CONCLUSIONS: Contact between Dundas Gp - Gordon Lst is NOT faulted. Thin conglom - sst units between Dundas Gp - Lst may be all that was deposited of the Owen Conglom - More sst, i.e. the Mariposa area may have been an Ordov topo high.

Clays - mineralised dolomite breccia may be an important stratabound location for mineral.



805053

MARIPOSA

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1 of 1

TENEMENT NAME MT. DUNDAS No. E4451

PLAN – MAP REFERENCE

CO-ORDINATES 67380E 59403N AZIMUTH 252° DRILLERS DD TAS COMMENCED 7/6/94 DEPTH 150.6 m. HOLE No. DD94DM2

RL COLLAR INCLINATION -45° DRILL TYPE LY38 COMPLETED 16/6/94 CASING LEFT DPO No(s)

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log RQD	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by)
0	30.0	–	–		PRECOLLAR Dundas Gp siltstones?						
30.0	49.25		HQ	3B	DUNDAS GP - CHLORITIC SILTSTONE Banded green and red chloritic and haematitic shale/siltstone. Chlorite is dominant with haematite probably after oxidation of chlorite. Core is strongly fissile, but it is unclear if partings are bedding or cleavage. From 48.0 - 49.25, siltstone is slightly yellowish, possibly Ordovician weathering? 35.2 S_0? = C.A. ≯ 70° 39.3 " ≯ 60° 42.8 " ≯ 68° 46.3 " ≯ 63° 48.8 " ≯ 66°		3981448	44.8	49.25		
49.25	49.45		HQ	5X	CONGLOMERATE (OWEN CONGLOMERATE?) Red haematitic pebble conglomerate consisting of rounded quartzite clasts and minor angular chloritic siltstone clasts derived from underlying unit. Possibly a condensed equivalent of Owen conglomerate? Contact is not faulted, probably disconformable. Yellowing of underlying siltstone suggests some time break?		449	49.25	49.45		

DRILL RUNS FR	TO	REC	R
0	30.0	–	–
	33.0	3.1	3
	36.0	2.95	3
	39.0	2.8	3
	42.0	2.85	3
	44.8	2.9	4
	48.0	2.8	4

805054

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 2 of 2

TENEMENT NAME ..... No. .....

PLAN -- MAP REFERENCE .....

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. Dm 211

RL COLLAR ..... INCLINATION ..... DRILL TYPE ..... COMPLETED ..... CASING LEFT ..... DPO No(s) .....

DEPTH From (M)	DEPTH To (M)	Core Rec (M)	Core Size	Graphic Log RQD	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ..... DRILL RUNS FR	TO	REC	RQD
49.45	53.95		HQ	5x	SANDSTONE (MOINA SANDSTONE ?) Pinkish-yellow to dark grey unit consisting of unconsolidated quartz sand and grit, massive quartzite, porous sandstone, siltstone and minor clays. Siltstone bands are well bedded. Possible condensed Moina Sandstone. No evidence for faulting at either upper or lower contact. Bedding to C.A. angles suggest ~20° angular discordance between sandstone and Dundas Grp siltstone. 51.3 S_o - C.A. ∢ 46° 52.2 S_o ∢ 48° 52.6 S_o ∢ 42°	3987450	49.45	53.95		48.0	51.0	2.5	5
												54.0	2.6	5
												56.5	2.8	5
												57.0	0.55	5
												60.0	2.9	5
												63.0	2.1	5
												65.3	2.1	4
												65.9	0.55	5
												67.0	0.7	5
53.95	64.0		HQ	5	CARBONACEOUS CLAY. Start of Gordon Limestone. Dark grey to black massive carbonaceous clay. Minor yellow-grey sideritic clay between approx 57.2 - 57.6. Becomes intermixed with rubbly dolomite from 59.0 - 64.0		451	53.95	56.0					
							452	56.0	58.0					
							453	58.0	60.0					
							454	60.0	62.0		1.41 Zn, 1.61 Pb			
							455	62.0	64.0					
64.0	67.5		HQ	5x	BRECCIATED DOLOMITE Grey massive recrystallised dolomite cut by 1-5mm light brown dolomite (ferroan?) veins. Core strongly broken + becoming more veined toward 67.5m.		456	64.0	66.9					
							457	65.9	67.5					

805055

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

TENEMENT NAME ..... No. .....

PLAN — MAP REFERENCE .....

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. Dm 211

RL COLLAR ..... INCLINATION ..... DRILL TYPE ..... COMPLETED ..... CASING LEFT ..... DPO No(s) .....

DEPTH From (M)	DEPTH To (M)	Core Rec (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ..... DRILL RUNS) Zn%	Pb%	Ag			FR	TO	REC	RC
7.5	69.3		HQ		DOLOMITE BRECCIA WITH GALENA-SPHALERITE Light yellow brown. Fragments of grey brecciated dolomite floating in matrix of light yellow-brown dolomite (siderite?). Only 10% breccia fragments. Galena-Sphalerite minerals in dol-siderite matrix ~ 10% Ga, 5% Sp.		3987458	67.5	69.3		9.84	6.50	107			67.0	69.0	1.9	3
																	72.0	2.65	5
																	74.75	2.65	4
																	76.3	1.5	3
																	78.0	1.4	3
																	81.0	2.9	3
																	83.25	2.25	4
																	83.75	0.5	4
9.3	69.5		HQ		BRECCIATED DOLOMITE As for 64.0 - 67.5.		459	69.3	69.5							REDUCE TO NQ			
																83.75	84.8	0.9	2
																	86.6	1.7	
9.5	72.2		HQ		DECOMPOSED LIMESTONE Dark grey strongly decomposed limestone, locally totally decomposed to clay.		460	69.5	72.2								88.4	1.8	
																	91.4	3.0	
																	94.4	3.0	
																	97.4	2.95	
2.2	83.4		HQ		VEINED CALCARENITE Light grey medium grained calcarenite locally well bedded (e.g. 80°). Cut by irregular veins of white calcite & light brown dolomite. Veins ~ 10% of interval. 80.0 S_0 = C.A. @ 49°		461	72.2	75.9								100.6	3.0	
							462	75.9	79.7								103.4	2.95	2
							463	79.7	83.4								105.85	2.45	3
																	108.95	3.05	2
																	112.0	3.0	2
																	113.2	0.65	1
																	115.4	2.1	1
83.4	147.6		NQ		INTERBEDDED CALCARENITE - LIME MUDSTONE Grey to dark grey irregularly banded lime mudstone with common 1-5 m interbeds of light grey med g/s calcarenite. Approx proportions lime mudstone 60% - calcarenite 40% Bands in lime mud can be planar but dismembered, to teased & wispy - varying degrees of sedimentary boudinage - "boudins"												118.4	3.0	1
																	121.4	3.0	2
																	124.4	DIDN'T MEA	
																	127.4	2.85	1
																	130.4	3.05	
																	133.4	3.0	
																	136.2	2.75	
																	139.2	3.0	1
																	141.9	1.95	1

805056

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 4 of 4

TENEMENT NAME ..... No. .....

PLAN – MAP REFERENCE .....

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. DM211

RL COLLAR ..... INCLINATION ..... DRILL TYPE ..... COMPLETED ..... CASING LEFT ..... DPD No(s) .....

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ..... DRILL RUNS FR	TO	REC	RC
3.4	147.6				are bounded by stylolites. Locally original bedding is preserved.						141.0	142.9	1.5	4
	CTD											144.0	1.1	3
					84.4 S_o – C.A.	∠ 55°						147.1	3.1	2
					86.2 S_o	∠ 48°						148.1	0.9	3
					95.2 S_o	∠ 47°						150.6	2.45	2
					105.9 S_o	∠ 44°								
					110.0 S_o	∠ 36°								
					111.0 S_o	∠ 52°								
					135.8 S_o	∠ 51°								
					141.8 S_o	∠ 50°								
					143.3 S_o	∠ 50°								
147.6	150.6		NQ		PLANAR BANDED LIME MUDSTONE									
	EOH				Grey well laminated lime mudstone. 5cm pug band at 147.6m.									
					148.1 S_o – C.A.	∠ 50°								
					149.3 S_o	∠ 50°								
					DOWNHOLE SURVEYS.									
					50 m –44.5° → 245 AMG									
					100 m –44° → 245 AMG									
					150 m –41° → 246 AMG									