

CRA EXPLORATION PTY. LIMITED
 DRILL-HOLE SUMMARY LOG

301051

HOLE NAME: DD96DS99 AMG EAST 366069 NORTH 5357571
 PROSPECT: SUNNY CORNER GRID EAST 65634 NORTH 57626
 EL: MT DUNDAS EL 45/92 RL 183m. DEPTH 165.9m

DATE DRILLED: 24/1/96
 LOGGED BY: S.J. TEAR
 DRILLING CO.: DD.TAS P/L
 DRILL TYPE: DIAMOND
 DRILL RIG: LONGYEAR 38
 LOC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	093°	50°			
50m	097°	54°			
98m	099°	52.5°			
152m	102°	55.5°			

OBJECTIVES OF HOLE:

Diamond Drilltest of i) anomalous surface geochem - Upper sandstone / limestone
 ii) Down-dip test of the Siltstone Unit and its underlying units - 'Oceana Horizon'

LITHOLOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	8	Qha	Overburden.
8	59	Sc	White uniform friable sandstone
59	72.5	Ogdc	Dark grey clays with sandstone fragments and breccia zones.
72.5	134.0	Ogud	Dolomitised calcarenite with minor interstitial argillite. Occasional broken core / faulted zones.
134.0	165.9	Ogud	Brecciated dolomite; major core loss from 151.7m.
HOLE ABANDONED			

MINERALISATION SUMMARY:

FROM	TO	COMMENTS
114.5	116.1	Dark coloured sphalerite (coarse) ? veining in rotted dolomite clays 4.99% Zn 0.799% Pb. 5.7 ppm Ag.
122.5	123.9	1.36% Zn 0.78% Pb - disseminated sphalerite and galena in clays
151.7	153.8	1.38% Zn 0.17% Pb - brecciated dolomite start of major core loss zone

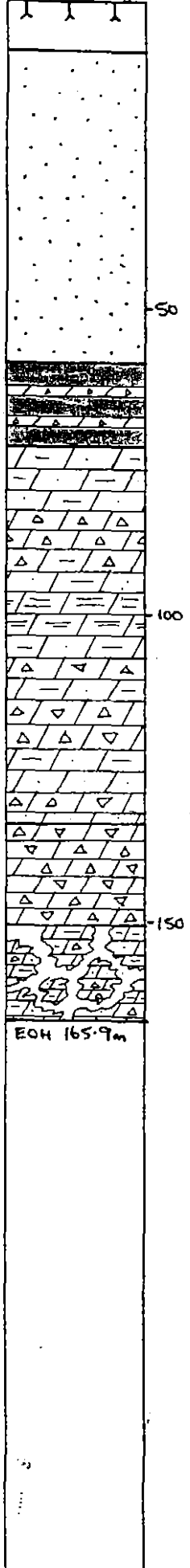
CONCLUSIONS:

Hole abandoned at 165.9m due to bad ground and loss of water at the bit face.

Mineralisation

Bedding @ 52.5m 75° to d.A.

Graphic Log



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

SHEET No. 1 of 5

AMG: 56606AE 5357571N

CO-ORDINATES: 081° Mag

DRILLERS: DDTAS COMMENCED 24/1/96

RL COLLAR: 18.3m INCLINATION: 50°

DRILL TYPE: LY38(H) COMPLETED 19/2/96

TENEMENT NAME: MT DUNDAS No.

PLAN - MAP REFERENCE: SUNNY CORNER

DEPTH: 165.9 HOLE No. 0896 DS99

CASING LEFT: DPO No(s) 82152

DEPTH		Core Rec. %	RAD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)									
From (M)	To (M)										MAC		SUS		REC From	REC To	REC (M)	REC %		
												Depth	Value	Depth	Value					
0	8	-	-	Qha	Overburden							8	0	23.5	0	0	8	0	0	-
8	17.5	4x	33	Sc	Med/fine grained sandstone with fine grained conglomerate	Bedding 70° to c/a.						8.5	0	24	0	8	11.5	1	29	
												9	0	24.5	0	11.5	14.5	1.6	53	
												9.5	0	25	0	14.5	20.5	2.05	34	
												10	0	25.5	0	20.5	23.5	2.3	77	
17.5	22.5	4x	50	Sc	Limonitic fine/med grained sandstone - rotted core becoming grey/green d/hole.		5852801	17.5	20.5			10.5	0	26	0	23.5	26.5	1.8	50	
												11	0	26.5	0	26.5	29.5	2.2	73	
												11.5	0	27	0	29.5	32.0	2.3	92	
22.5	26.5	3x	63	Sc	Med grained brown/grey sandstone with x-bedding; locally coarser and localised core loss.							12	0	27.5	0	32.0	34	1.6	81	
												12.5	0	28	0	34.0	35.5	1.5	100	
												13	0	28.5	0	35.5	39.1	1.4	53	
												13.5	0	29	0	38.1	41.5	3.4	100	
												14	0	29.5	0	41.5	44.1	2.5	97	
												14.5	0	30	0	44.1	47.4	2.8	86	
26.5	30	3x	80	Sc	Mixed lt grey/green clays fine/med sandstones (locally coarse); >1cm qtz clots.							15	0	30.5	0	47.4	50.0	2.6	100	
												15.5	0	31	0	50.0	53.5	3.4	97	
												16	0	31.5	0	53.5	56.2	2.86	96	
												16.5	0	32	0	56.2	58.3	1.75	88	
30	52.5	28	90	Sc	Med grained white uniform sandstone with occ limonitic patches; occ silicic look to rock; becoming greyer downhole.	occ fault breccia/clay eq 32m, 41m. Bedding 70° to c/a.	02	31.0	32.0			17	0	32.5	0	58.3	59.5	1.7	100	
												17.5	0	33	0	59.5	61.1	0.4	24	
												18	0	33.5	0	61.1	62.5	1.35	96	
												18.5	ck	34	0	62.5	63.8	0.25	19	
												19	1	34.5	0	63.8	65.5	1.7	100	
												19.5	2	35	0	65.5	66.6	1.1	100	
52.5	53.2	4B	80	Sc	Black shale unit	Bedding 75° to c/a.						20	2	35.5	0	66.6	68.5	1.75	92	
												20.5	0	36	0	68.5	69.6	0.6	70	
53.2	59	2c	63	Sc	White silicic med/fine grained sandstone with localised breccias(?)		05	58.3	59.5			21	0	36.5	0	69.6	70.5	0.4	48	
												21.5	0	37	0	70.5	71.8	1.3	100	
												22	0	37.5	0	71.8	72.5	0.7	100	
												22.5	0	38	0	72.5	74.1	1.05	64	
59	61.1	5x	67	Ogdc	Rotted dk grey/black/brown clays	Pass. fault breccias at 60.8m	06	59.5	61.1			23	0	38.5	0	74.1	75.6	1.4	95	

SURVEYS
 50m 54° to 097°
 98m 52.5° to 099°
 152m 55.5° to 102°

301052

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

SHEET No. 2 of 5

TENEMENT NAME... MT. DUNDAS No. 45/92

PLAN - MAP REFERENCE... SUNNY CORNER

DEPTH... 165.9M HOLE No. DS99

CASING LEFT... DPO No(s) 82152

CO-ORDINATES 366069E 535757N AZIMUTH 081 Mag DRILLERS DOTAS COMMENCED 24/1/96
RL COLLAR 183m INCLINATION 50° DRILL TYPE LY38(H) COMPLETED 19/2/96

DEPTH		Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)							
From (M)	To (M)										MAC SUS				REC (From)	REC (To)	REC (M)	REC (To)
61.1	69	5x	83	Ogck	Dark grey clay - possible dolomite		5852807	61.1	62.5		39	0	54.5	0	75.6	78.8	1.57	4.5
							08	62.5	63.8		37.5	0	55.5	0	73.8	80.1	1.2	9.0
69	69.6	5x	50	Ogck	Sandstone fragments in grey light grey clays		09	63.8	65.5		40	0	55.5	0	80.1	81.5	1.15	8.4
							10	65.5	66.6		40.5	0	56	0	81.5	83.2	1.5	8.9
							11	66.6	68.5		41	0	57.5	0	83.2	84.4	1.1	9.4
69.6	70.0	5x	50	Ogck	Sandy clay - metal content? specks of pyrite		12	68.5	69.6		41.5	0	57	0	84.4	86.0	0.8	8.2
							13	69.6	70.0		42	0	57.5	0	86.0	87.6	1.5	9.4
70.0	72.5	5	80	Ogck	Dark grey? sandstone with washed out clays Ferruginous clay 70.7-71.2 NQ @ 72.3m		14	70.0	72.5		42.5	0	58	0	87.6	88.4	0.6	7.4
											43	0	58.5	0	88.4	89.5	0.9	7.9
											43.5	0	59	0	89.5	90.2	0.7	9.6
											44	0	59.5	0	90.2	91.0	0.7	8.5
											44.5	0	60	0	91.0	92.5	1.4	9.3
72.5	91.2	4x	84	Ogud	Dolomitised argillaceous calcarenite - is heavily fractured? fault altered minimal veining; poss syn-sed breccias	Partial to complete dolomitisation @ 73m 3cm clay gouge with galena blabs 75° to c/a.	15	72.5	74.1		45	0	60.5	10	92.5	93.3	0.8	10.0
							16	74.1	75.6		45.5	0	61	0	93.3	94.9	1.6	10.0
							17	75.6	77.2		46	0	61.5	0	94.9	96.5	1.5	9.1
							18	77.2	78.8		46.5	0	62	0	96.5	97.2	0.5	7.4
							19	78.8	80.1		47	0	62.5	0	97.2	97.9	0.7	9.6
							20	80.1	81.5		47.5	0	63	0	97.9	98.5	0.5	8.3
91.2	96.8	968	100	Ogud	Grey dolomitised calcarenite with minor argillaceous material locally small breccias		21	81.5	83.2		48	0	63.5	5	98.5	99.6	1.05	9.5
							22	83.2	84.4		48.5	0	64	0	99.6	101.5	1.7	9.1
							23	84.4	86.0		49	0	64.5	0	101.5	102.9	1.3	9.6
							24	86.0	87.6		49.5	0	65	4	102.9	104.5	1.6	10.0
96.8	98.5	4x	100	Ogud	As before but broken core		25	87.6	88.4		50	0	65.5	5	104.5	106.0	1.5	10.0
							26	88.4	89.5		50.5	0	66	0	106.0	107.5	1.5	10.0
98.5	101	3x	100	Ogud	Broken core but possibly more argillaceous, with clay zones - 60° to c/a.	Minor galena in fractures and calcite/dolomite veins rare pyrite blabs	27	89.5	91.0		51	0	66.5	0	107.5	109.1	1.6	10.0
							28	91.0	92.5		51.5	0	67	0	109.1	110.5	1.4	10.0
							29	92.5	93.3		52	0	67.5	0	110.5	112.0	1.5	10.0
							30	93.3	94.9		52.5	0	68	0	112.0	113.5	1.5	10.0
101	106.1	4x	100	Ogud	Grey dolomite with dolomite veining - locally brecciated Random vein orientation; occ clay zones.	Minor galena blabs in veins	31	94.9	96.5		53	0	68.5	0	113.5	114.5	1.0	10.0
							32	96.5	97.9		53.5	0	69	0	114.5	116.1		5.0
							33	97.9	99.6		54	0	69.5	1	116.1	117.7	1.6	10.0

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

SHEET No. 3 of 5
No. 45/921

TENEMENT NAME.....

PLAN - MAP REFERENCE. SUNNY CORNER

DEPTH. 165.9m HOLE No. DS99

CASING LEFT..... DPO No(s) 82152

366069C
CO-ORDINATES 5357571N AZIMUTH 081° Mag DRILLERS DDTAS COMMENCED 24/1/96
RL COLLAR 183m INCLINATION 50° DRILL TYPE LY38(H) COMPLETED 19/2/96

DEPTH		Core Rec. %	ROD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)							
From (M)	To (M)										MAC				SUS			
										Depth	Value	Depth	Value	REC (From)	REC (To)	REC (M)	REC (%)	
106.1	109.1	4x	100	Ogud	Partially rotted dolomite minor veining; minor argillaceous material - broken core.	Scm dol vein @ 108.15m 80° to c/a	34	99.6	101.5	70		85.5	CLL	177	119.1	1.4	100	
							35	101.5	102.9	70.5	0	86	S	119.1	120.0	0.9	100	
							36	102.9	104.5	71	0	86.5	S	120.0	120.9	0.9	100	
							37	104.5	106.1	71.5	0	87	S	120.9	122.5	1.0	62	
							38	106.1	107.5	72	2	87.5	S	122.5	123.9	1.0	70	
109.1	113.5	4x	100	Ogud	Sheared dolomite with minor dolomite veining - extensive dolomitisation - weathered core.	Minor pyrite / sphalerite / galena occurrences.	39	107.5	109.1	72.5	19	88	S	123.9	125.5	1.6	100	
							40	109.1	110.5	73	8	88.5	O	125.5	127.0	1.5	100	
							41	110.5	112.0	73.5	5	89	O	127.0	128.5	1.5	100	
							42	112.0	113.5	74	4	89.5	Z	128.5	130.1	1.6	100	
							43	113.5	114.5	74.5	5	90	S	130.1	131.5	1.4	100	
113.5	123.5	5x	95	Ogud	Greater fracturing of core; clay zones; dolomitised limestones	Minor sphalerite; brown/red sphalerite veinlet @ 114.7m Galena + sphalerite dissemin in clay @ 123.3m.	44	114.5	116.1	75	5	90.5	S	131.5	132.4	0.9	100	
							45	116.1	117.7	75.5	6	91	6	132.4	134	1.6	100	
							46	117.7	119.1	76	4	91.5	S	134	135.3	1.3	100	
							47	119.1	120.0	76.5	5	92	8	135.3	136.1	0.8	100	
							48	120.0	120.9	77	4	92.5	10	136.1	137.3	0.9	75	
123.5	127.0	4x	95	Ogud	Lt grey dolomitised limestone with dolomite veining from 125-126.6m. Lower contact is 45° to c/a.		49	120.9	122.5	77.5	5	93	S	137.3	138.2	0.6	67	
							50	122.5	123.9	78	5	93.5	O	138.2	140.1	0.85	50	
							51	123.9	125.5	78.5	4	94	O	140.1	141.0	0.8	88	
							52	125.5	127.0	79	4	94.5	S	141.0	142.0	0.55	54	
										79.5	5	95	S	142.0	142.7	0.45	66	
127.0	134.0	4x	100	Ogud	Dolomite with occasional dolomite veining and cavities veining 75° to c/a; occ dol breccia 20cm @ 133.5m.	Sphalerite in dol veining	53	127.0	128.5	80	5	95.5	6	142.7	144.0	1.1	83	
							54	128.5	130.1	80.5	5	96	S	144.0	145.0	0.8	81	
							55	130.1	131.5	81	8	96.5	S	145.0	145.9	0.7	77	
							56	131.5	132.4	81.5	3	97	4	145.9	147.1	0.65	56	
							57	132.4	134.0	82	5	97.5	6	147.1	147.8	0.7	100	
134.0	151.7	5x	70	Ogud	Brecciated/broken core dolomite with major clay zones (breccia zones) with argillaceous units Clay zones 40° to c/a ? bedding or shearing.	Occ sulphides in the clays	58	134.0	135.3	82.5	5	98	8	147.8	148.5	0.65	90	
							59	135.3	137.3	83	5	98.5	S	148.5	149.1	0.35	62	
							60	137.3	140.1	83.5	1	99	9	149.1	150.6	0.9	60	
							61	140.1	142.0	84	3	99.5	S	150.6	151.7	0.55	50	
							62	142.0	145.9	84.5	5	100	1	151.7	152.2	0.3	60	
							63	145.9	147.8	85	5	100.5	8	152.2	153.2	0.4	25	

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

SHEET No. 4 of 5

TENEMENT NAME EL 45/92 No. 4 of 5

PLAN - MAP REFERENCE SUNNY CORNER

DEPTH 165.9m HOLE No. DS99

CASING LEFT..... DPO No(s) 82152

CO-ORDINATES 366069E S35.7571N AZIMUTH 081° Mag DRILLERS DOTAS COMMENCED 24/1/96
RL COLLAR 1.83M INCLINATION 50° DRILL TYPE LY38(H) COMPLETED 19/2/96

DEPTH		Core Rec. %	RAD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)							
From (M)	To (M)										MAG		SLS		REC (Fe)	REC (Cu)	REC (M)	REC (%)
										Depth	Value	Depth	Value					
151.7	165.9	5x	12	Qgd	As before but with major core loss.		5852865	147.8	149.1		101	5	116.5	3	183.8	184.5	0.15	21
							66	149.1	151.7		101.5	5	118.	0	184.5	185.2	-	0
							67	151.7	153.8		102	4	117.5	3	186.2	187.4	0.15	7
							68	153.8	158.5		102.5	2	118	4	187.4	188.5	0.08	7
HOLE ABANDONED AT 165.9m.																		
							69	161.5	162.9		103	1	118.5	5	188.5	189.4	-	0
							70	162.9	165.9		103.5	8	119	4	189.4	190.5	-	0
											104	5	119.5	5	190.5	191.5	-	0
											104.5	2	120	5	191.5	192.2	0.1	14
											105	5	120.5	6	192.2	192.9	0.1	14
											105.5	0	121	5	192.9	194.5	0.2	12
											106	0	121.5	c/L	194.5	195.4	0.1	11
											106.5	2	122	2	195.4	195.9	0.25	50
											107	0	122.5	6				
											107.5	2	123	c/L				
											108	4	123.5	5				
											108.5	3	124	6				
											109	5	124.5	5				
											109.5	6	125	10				
											110	6	125.5	5				
											110.5	4	126	9				
											111	5	126.5	13				
											111.5	1	127	8				
											112	0	127.5	0				
											112.5	5	128	8				
											113	2	128.5	5				
											113.5	5	129	6				
											114	2	129.5	8				
											114.5	2	130	6				
											115	c/L	130.5	5				
											115.5	c/L	131	5				
											116	0	131.5	5				

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

SHEET No.
TENEMENT NAME EL 45/92 No. 5 of 5
PLAN - MAP REFERENCE SUNNY CORNER
DEPTH 165.9m HOLE No. DS99
CASING LEFT DPO No(s) 82152

CO-ORDINATES 366069E
535757N AZIMUTH 081° Mag DRILLERS DOTAS COMMENCED 24/1/96
RL COLLAR 18.5m INCLINATION 50° DRILL TYPE LY38(H) COMPLETED 19/2/96

DEPTH		Core Rec. %	RAD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)					
From (M)	To (M)										MAC	SUS	Depth	Value	Depth	Value
											132	5	147.5	5	163	0
											132.5	6	148	5	163.5	CL
											133	9	148.5	4	164	CL
											133.5	9	149	0	164.5	5
											134	15	149.5	CL	165	CL
											134.5	10	150	5	165.5	2
											135	10	150.5	2		
											135.5	5	151	CL		
											136	5	151.5	4		
											136.5	CL	152	3		
											137	5	152.5	CL		
											137.5	5	153	CL		
											138	CL	153.5	4		
											138.5	4	154	CL		
											139	CL	154.5	0		
											139.5	CL	155	CL		
											140	4	155.5	CL		
											140.5	4	156	CL		
											141	8	156.5	CL		
											141.5	CL	157	CL		
											142	6	157.5	4		
											142.5	0	158	CL		
											143	5	158.5	CL		
											143.5	2	159	CL		
											144	6	159.5	CL		
											144.5	5	160	CL		
											145	5	160.5	CL		
											145.5	CL	161	CL		
											146	CL	161.5	5		
											146.5	CL	162	CL		
											147	5	162.5	0		

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