

CRA EXPLORATION PTY. LIMITED  
DRILL-HOLE SUMMARY LOG

346096

HOLE NAME: DD95ZG414      AMG    EAST 364772    NORTH 5349759  
 PROSPECT GRIEVES      GRID    EAST 61072    NORTH 48311  
 EL: ZEEHAN 4      EL 39/89    RL      DEPTH 113

DATE DRILLED: 21/6/95  
 LOGGED BY: S.J. TEAR  
 DRILLING CO.: DD. T.A.S. LTD  
 DRILL TYPE: DIAMOND  
 DRILL RIG: U250  
 LOC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	143°	60°			
50m	141°	61°			
100m	141°	62°			

OBJECTIVES OF HOLE:  
 INFILL DRILLING AT THE LOWER SANDSTONE/LIMESTONE CONTACT  
 FOR THE GRIEVES MINERALISATION AIMING TO LOCATE DOWN  
 PLUNGE DIRECTION.

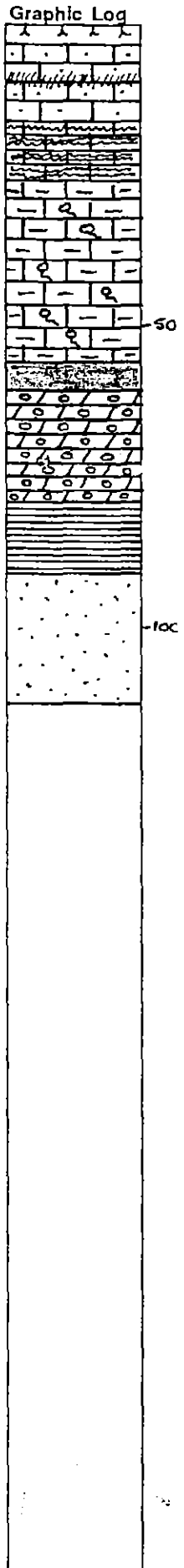
LITHOLOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	3.1	Qha	Overburden; no recovery
3.1	16.2	Ogul	Mixed light grey calcarenite and fault clay zones.
16.2	25.7	Ogmu	Laminated micrite unit
25.7	56.3	Ogul	Mixed argillaceous and clean calcarenite units locally biotitic; with dark grey clay zones.
56.3	60.7	Ogdc	Dark grey / black clay - dolomitised
60.7	79.6	Ogao	Dolomitised oolite unit - hematite alteration
79.6	91.35	Ogfc	Ferruginous Clay - altered sandstones, shales + silts
91.35	113.0	Om.	Orange/brown ferruginous sandstone - Moira Quartzite

MINERALISATION SUMMARY:

FROM	TO	COMMENTS
60.7	61.8	0.84% Zn hosted in dolomitic, sandy oolite unit - core loss (elevated comparable values in clay above oolite sample and immediately below.
79.6	80.7	0.39% Zn hosted in ferruginous clay - possibly once sideritic.

CONCLUSIONS:  
 Bedding @ 13m 60° to c/a, @ 80m 65° to c/a.  
 Drillhole failed to intersect significant mineralisation. The ferruginous clay may well be the silty transition unit; if so possibly a faulted base to the Gordon limestone / oolite unit.



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C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOGSHEET No. 1  
of 7TENEMENT NAME GRIEVES No. DP7

COORDINATES 364772 E 5349759 N AZIMUTH 131° MAG DRILLERS DD, TAS COMMENCED 21/6/95 DEPTH 113 HOLE No. Z9414  
 RL COLLAR ..... INCLINATION 60° DRILL TYPE 4250 DD COMPLETED 29.7.95 CASING LEFT ..... DPO No(s) .....

PLAN - MAP REFERENCE .....

DEPTH 113 HOLE No. Z9414

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

DEPTH		Core Rec. %	LG DATA	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)										REC (From)	REC (To)	REC (M)	REC (%)	
0	3.1	13	5	Qha	Overburden including light grey white sandstone fragments.							0	3.1	0.4	13
												3.1	4.6	1.0	67
												4.6	6.1	1.2	80
3.1	4.8	60	2	Ogsl	Grey med/fine grained calcarenite with argillite bands (irregular) locally biotactic bands with possible birds eyes.							6.1	6.9	0.5	63
												6.9	7.6	0.7	100
												7.6	8.4	0.5	63
												8.4	10.1	1.4	84
												10.1	11.6	0.5	33
4.8	6.1	100	5x	Ogfs	Calcareous and clay zones; clays are dark grey and contain large clots 2cm of calcarenite possible fault zone; could be surficial weathering.							11.6	13.1	1.2	80
												13.1	16.5	0.17	5
												16.5	17.9	1.4	100
												17.9	19.6	1.4	84
												19.6	21.1	1.5	100
												21.1	22.6	1.2	80
6.1	13.1	67	2x	Ogsl	Fine grained grey calcarenite locally micritic with birds eyes. one clay zone; calcarenite also has argillite bands - almost penetrate in places. locally dark grey due to alteration and/or weathering over biotactic band.	Minor calcite veining 30° E d.A. 45° E d.A. Bedding 60° E d.A.						22.6	23.0	0.4	100
												23.0	23.9	0.8	88
												23.9	24.7	0.4	50
												24.7	25.6	0.45	50
												25.6	27.3	1.1	60
												27.3	28.6	0.8	60
												28.6	30.1	1.5	100
												30.1	31.5	1.1	
13.1	16.2	0	-	-	Carbonyl.							31.5	33.1	1.4	
												33.1	34.6	1.4	
16.2	20.0	80	3x	Ogmu	Light grey micrite - buff grey colour due to weathering. Brecciated clay zone @ 16.8-17.0m. locally birds eyes, possible laminations locally.	Clauage 35° E d.A. Minor calcite veining sub parallel to d.A.	5465959	16.5	17.9			34.6	36.1	1.5	100
												36.1	37.6	1.5	100
												37.6	39.6	1.8	90
												39.6	40.4	0.8	100
												40.4	41.1	0.6	
												41.1	42.0	0.7	77
												42.0	43.6	1.6	100







364772E  
 CO-ORDINATES 5349759N AZIMUTH 131° MAG DRILLERS DDTAS COMMENCED 21.6.95 DEPTH 113 HOLE No. 2944  
 RL COLLAR..... INCLINATION 60° DRILL TYPE U250 COMPLETED 29.7.95 CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. / DATA	RQ	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)										Rec (m)	Rec (m)	Rec (m)	Rec (%)	
49.4	51.1	80	Sx	Ogdc	Black clay with rotted grey calcarenite clasts ? fault zone or rotted limestone.		5465972	49.4	51.1			43.6	45.2	1.6	100
												45.2	46.6	1.2	84
												46.6	48.2	1.6	100
												48.2	49.6	1.4	83
51.1	56.3	45	4x	Ogul	fractured grey fine grained calcarenite with argillaceous zones - coarsely bioclastic rapid deposition.		73	51.1	54.1			49.6	51.1	1.2	80
							74	54.1	56.3			51.1	52.6	1.0	67
												52.6	54.1	0.5	33
												54.1	55.6	0.5	33
												55.6	57.1	0.75	50
56.3	60.7	45	Sx	Ogdlc	Black clay - non calcareous with rock fragments	Siderite or dolomite alteration of fragments.	75	56.3	58.6			57.1	58.6	1.1	74
							76	58.6	60.7			58.6	60.1	0	0
												60.1	61.1	0.7	70
60.7	65.3	4	Sx	Ogpo	Brown sandy clay - karst infill ? major core loss		77	60.7	61.8			61.1	61.8	0.1	14
												61.8	64.1	0	0
							78	64.6	66.2			64.1	64.6	0	0
65.3	66.2	80	2f	Ogpo	Dolomitised equigranular bioclastic wack.							64.6	66.2	0.8	50
												66.2	69.6	1.0	70
												69.6	69.2	1.2	84
66.2	73.6	72	4f	Ogpo	Heavily fractured dolomitised calcite wack; major zone of broken core < 2cm pieces. Colouration varies between dk grey and light grey.	Major red hematite alteration. 67.6 - 71.8m	79	66.2	67.6			69.2	70.2	1.0	100
							80	67.6	69.2			70.2	71.8	1.6	100
							81	69.2	70.2			71.8	73.6	0.9	50
							82	70.2	71.8			73.6	76.6	0.4	14
							83	71.8	73.6			76.6	77.4	0.5	63
												77.4	78.9	0.6	40
73.6	76.5	14	Sx	Ogfc	Orange ferruginous clay zone.		84	73.6	76.5			78.9	79.6	0.35	50
												79.6	80.7	1.0	90
76.5	79.6	34	Sx	Ogpo	Dolomitised calcite		85	76.5	79.6			80.7	82.3	1.6	100
												82.3	83.8	1.5	100
79.6	81.7	90	5	Ogfc	Orange ferruginous clay	Fabric (? bedding) 65° to c/a.	86	79.6	80.7			83.8	85.5	1.7	100
												85.5	87.0	1.5	100
81.7	88.3	100	5	Ogfc	Orange ferruginous clay. Altered shales and siltstone +/- sandstone.		87	80.7	82.3			87.0	88.6	1.6	100

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C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOGTENEMENT NAME GRIEVES SHEET No. 6 of 7  
No. 6 of 7CO-ORDINATES 364772E 5349759N AZIMUTH 131 MAG DRILLERS DDTAS COMMENCED 21.6.95 DEPTH 113 HOLE No. ZG414  
RL COLLAR ..... INCLINATION 60° DRILL TYPE U250 COMPLETED 29.7.95 CASING LEFT ..... DPO No(s) .....

PLAN - MAP REFERENCE .....

HOLE No. ZG414

DPO No(s) .....

DEPTH		Core Rec. %	RQ DATA	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)										REC (From)	REC (To)	REC (M)	REC %	
							5465988	82.3	83.8			88.6	90.1	1.5	100
							89	83.8	85.5			90.1	91.35	1.5	80
							90	85.5	87.0			91.35	91.9	1.55	100
							91	87.0	88.6			92.9	94.4	1.0	66
												94.4	95.6	1.2	100
88.3	91.35	90	S	agfc	Orange/brown ferruginous clays with increased amounts of sandy zones and sandstone fragments.	Bedding fabric 65° E c/a.		88.6	90.1			95.6	97.1	1.5	100
							93	90.1	92.9			97.1	98.2	1.1	100
												98.2	99.6	0.7	50
												99.6	100.6	1.0	100
91.35	94.7	85	S	Om	Orange/brown ferruginous weathered sandstone; locally friable.	Bedding 65° E c/a. sheared lower contact 45-60° E c/a.		92.9	94.55			100.6	102.1	1.5	100
												102.1	103.1	0.8	80
												103.1	103.9	0.6	75
94.7	96.3	100	S	Om	Orange/brown shaley sandstone (sericitic?)			94.55	96.3			103.9	104.9	0.7	70
												104.9	106.4	1.5	100
												106.4	109.5	2.1	100
96.3	101.3	90	3f	Om	Silicic weathered quartzite light grey/grey	minor red hematitic colouration Bedding 70° to c/a. Irregular upper contact but possibly conformable.		96.3	98.2			109.5	111.0	1.5	100
								97	98.2	101.3		111.0	112.6	1.6	100
												112.6	113.0	0.4	100
101.3	104.65	75	4x	Om	fault zone; broken core with fracture planes 20° E c/a minor clay zones.	Red hematitic staining/alteration		101.3	103.1						
								5465999	103.1	104.9					
104.65	104.9	100	5x	Om	fault gully/shear zone.	65° E c/a - bedding parallel shear	5466000	104.9	106.4						
104.9	109.2	100	3b	Om	Maroon/red/grey hematitic silicic sandstone with altered siltstone/shale interbeds (occasional)	Bedding 60° E c/a.	5466058	106.4	107.8						
								59	107.8	109.2					
109.2	111.2	100	4f	Om	White silicic sandstone/quartzite	fractured quartzite.		109.2	111.2						

