CRA EXPLORATION PTY. LIMITED
DRILL-HOLE SUMMARY LOG

364053

HOLE NAME:	DD96ZP65		AMG	EAST	364329	NORTH	5356591
PROSPECT	PYRAMID		GRID	EAST	1720E	NORTH	1077N
EL:	ZEEHAN	EL28/88	RL	129m.		DEPTH	252m.

DATE DRILLED: 3/4/96
LOGGED BY: S.J.TEAR
DRILLING CO.: DD.TAS.
DRILL TYPE: DIAMOND
DRILL RIG: U250
LOC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0m	200°	69°			
50m	202°	70°			
100.5m	200°	69°			
200m	198°	69°			
251m	198°	68°			

OBJECTIVES OF HOLE:
Diamond drilltest of near surface mineralisation in ZWP27 at or around the 'Oceana Horizon' - middle zone test

LITHOGICAL SUMMARY:

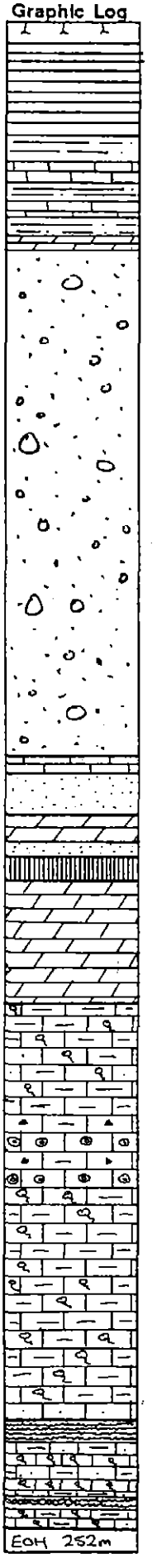
FROM	TO	FORM CODE	COMMENTS
0	3.2	Qha	Overburden
3.2	18.7	Sa	Grey non-calcareous siltstone with grey sandstone bands.
18.7	35.4	Ogsi	Dark grey/black argillaceous calcsiltite with bioclastic micrite bands
35.4	38.0	Ogdl.	Dolomite – ? shear zone
38.0	123.3	Ogsi	Series of silicic sandstones, quartzites and conglomerates. Rotted limestone unit.
123.3	125.8	Ogul	Fine grained grey quartzite
125.8	132.3	Ogsi	Dolomite - hematitically altered – poss faulted zone.
132.3	137.5	Ogdl	Dolomite - hematitically altered
137.5	140.9	Ogdl	Sheared zone with dolomite and dolomite breccias.
140.9	144.0	Ogfz	sheared dolomite - calcarenite at base.
144.0	164.8	Ogdl	Argillaceous bioclastic calcarenite
164.8	180.9	Ogul.	Shallow subtidal & intertidal calcarenites (+/- argillite) with oncolites.
180.9	206.5	Ogul	Argillaceous calcarenites with bioclastic bands.
206.5	234.6	Ogul.	Fine grained slightly argillaceous calcarenite with laminated micrite with
234.6	252.0	Ogul	

MINERALISATION SUMMARY:

FROM	TO	COMMENTS
40.9	41.2	0.4% Zn, 1.4% Pb – Galena and sphalerite veins in silicic quartzite.
38.0	140.9	The Silicic quartzite contains up to 9% Ca and averages nearly 500 ppm zinc.
		CONODONT AGE DATING. – Inconclusive for top of hole.

CONCLUSIONS:
The age dating suggests the top phyllite is Amber Slate. This seems to pass conformably into Siltstone Unit with an Amber Slate age!? The Quartzite is a local feature within the limestone signifying major syn-sed faulting + rapid sedimentological deposition - Anomalous in Zinc ∴ mineralising fluids have passed through.
Bedding @ 18.7m 60° to c/a. @ 108.5m 45° to c/a. @ 140.9m 60° to c/a. @ 164.8 50° to c/a @ 247.15m 55° to c/a.

Graphic Log



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

SHEET No. 1 of 8

ANG: 364329E 5356591N

TENEMENT NAME ZEEHAN 1 28/88 No.

PLAN – MAP REFERENCE PYRAMID

LOCAL CO-ORDINATES 1077N 1720E AZIMUTH 200° Ams. DRILLERS DDTAS COMMENCED 3/4/96

DEPTH 252m HOLE No. DD96ZP65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250-DIAMOND COMPLETED 22/4/96

CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Mag Susceptibility Depth	Value	Depth	Value	Depth	Value	REC (mm)	REC (%)	REC (m)	REC (%)
0	3.2	25	5x	Qha	Overburden. - peat and gravel.					0	0	15.5	10	31	10	0	2	0.3	20
										0.5	CL	16	11	31.5	0	2	3.2	0.3	25
										1	CL	16.5	0	32	0	3.2	4.2	0.7	70
3.2	18.7	47	4x	Ogsi	Grey siltstone - dan calcareous with occ fine grained clean bands of Sandstones. Brittle core. Possible Amber Slate - or Siltstone Unit	Plane 45° to c/A ? Bedding or cleavage.	547 1001	3.2	5.0	1.5	CL	17	CL	32.5	15	4.2	5.0	0.2	25
							2	9.4	11.0	2	0	17.5	CL	33	15	5.0	6.4	1.1	79
						Bedding @ 7.6m 50° to c/A.	3	15.9	18.7	2.5	CL	18	10	33.5	0	6.4	7.8	1.0	71
										3	15	18.5	55	34	5	7.8	9.4	0.8	50
										3.5	CL	19	5	34.5	0	9.4	11.0	0.8	50
										4	5	19.5	CL	35	10	11.0	12.5	0.3	20
18.7	35.4	97	1	Ogsi	Dark grey/black argillaceous calcsiltite with light grey often bedded/laminated calcarenite bands Argillite dominant. Occ biodetic micrite band.	Bedding 60° to c/A. cleavage 15° to c/A. Calcite veining 70° to c/A in argillite only < 3mm 5/10cm. Small shear zone @ 31m 45° to c/A. Bedding @ 33.2 35° to c/A.	4	18.7	20.4	4.5	CL	20	14	35.5	CL	12.5	14.0	0.8	7
										5	12	20.5	15	36	CL	14.0	15.9	0.5	26
							5	24.5	26.0	5.5	10	21	35	36.5	CL	15.9	18.9	2.0	67
										6	0	21.5	0	37	CL	18.9	20.0	0.9	81
							6	29.0	29.9	6.5	5	22	10	37.5	15	20.0	21.5	1.5	100
										7	CL	22.5	10	38	10	21.5	23.0	1.5	100
										7.5	13	23	8	38.5	5	23.0	24.5	1.5	100
										8	10	23.5	5	39	0	24.5	26.0	1.5	100
35.4	38.0	83	2f	Ogsl	Sheared zone with calcite dolomite veining Appearance of bioturbation at base.	Shearing? 70° to c/A.	7	35.4	38.0	8.5	CL	24	20	39.5	0	26.0	29.0	3.0	100
										9	CL	24.5	20	40	5	29.0	29.9	0.8	89
										9.5	10	25	11	40.5	0	29.9	32.0	2.1	100
										10	CL	25.5	20	41	0	32.0	33.4	1.4	100
										10.5	5	26	5	41.5	0	33.4	35.1	1.7	100
39.0	43.7	100	1		Silicic white/grey quartzite small vuggy appearance with alkali +/- pyrite fill. ?Conformable upper contact. Medium grained with fine black ?shale specks	minor irregular calcite veining	8	38.0	39.5	11	5	26.5	9	42	0	35.1	36.8	0.7	100
						semi-massive sphalerite/galena in calcite/dolomite vein @ 41.05m for 2cm. 70° to c/A.	9	39.5	40.9	11.5	CL	27	10	42.5	0	36.8	38.0	0.8	67
							10	40.9	41.2.	12	CL	27.5	10	43	2	39.0	39.5	1.5	100
							11	41.2	42.5	12.5	5	28	15	43.5	0	39.5	40.9	1.4	100
							12	42.5	43.7.	13	CL	28.5	CL	44	0	40.9	42.5	1.6	100
										13.5	CL	29	15	44.5	0	42.5	44.0	1.5	100
										14	11	29.5	11	45	5	44.0	47.0	3.0	100
43.7	48.4	100	1		med/coarse grained white/grey quartzite with alkali fspar clasts	Minor calcite veining 75° to c/A	13	43.7	46.0	14.5	CL	30	10	45.5	0	47.0	48.5	1.5	100
										15	CL	30.5	5	46	0	48.5	50.0	1.5	100

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 2 of 8

TENEMENT NAME PYRAMID No. 28/88

PLAN – MAP REFERENCE

AMG 364329 E

CO-ORDINATES 5356591N AZIMUTH 200° AMG DRILLERS DDTAS COMMENCED 31/1/96 DEPTH 252m HOLE No. DD96ZP6

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/1/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)
					vuc black phyllite fragments, pink feldspar + k-spar. locally coarser particularly at base.	minor disseminated pyrite. ?Bedding 40° to c/A. @ 484 Calcite infill crystals. Calcareous		50	-
48.4	62.0	100	1		Fine grained silicic quartzite massive sandstone. v. minor calcite in matrix - Massive quartzite	Minor calcite veining; localised zones of brecciation. Quartz/calcite veining planar features possibly cleavage <45° to c/A.	54701014 15 16	50 51.5 53.0	51.5 53.0 54.5
62.0	65.0	100	1		White/grey massive quartzite with occ fine conglomerate bands vuc black phyllite frags	Calcareous veining locally more thinner + intense	17	62.0	63.5
65.0	66.6	100	1		Fine grained conglomeratic quartzite with black phyllite clasts + a variety of others	Calcareous matrix locally (poss vug infill)			
66.6	92.6	100	1		Grey med/coarse grained silicic quartzite with black clasts out of qtz vein clasts; massive bedding Uniform looking.; mixed angular + rounded clasts Occ finer zones.	Occ calcite veining generally 70° to c/A. More intense veining at basal metre.	18 19 20 21	67.8 78.3 88.8 90.3	69.3 79.8 90.3 92.6
92.6	93.3	100	1		Altered fine conglomerate. with calcite in matrix	Quartz/pink carbonate vein 12cm 45° to c/A with green (? fuchsite) mineral on margins + surrounding veinlets	22 23	92.6 93.3	93.3 94.8

Magnetic Susceptibility —

Depth	Value	Depth	Value	Depth	Value	REC (from)	REC (to)	REC (m)	REC %
46.5	2	62	12	71.5	0	50	51.5	1.5	100
47	0	62.5	10	78	2	51.5	53.0	1.5	100
47.5	0	63	5	78.5	4	53.0	54.5	1.5	100
48	7	63.5	6	79	4	54.5	56.0	1.5	100
48.5	4	64	0	79.5	0	56.0	57.5	1.5	100
49	5	64.5	2	80	4	57.5	59.0	1.5	100
49.5	2	65	4	80.5	5	59.0	60.5	1.5	100
80	0	65.5	8	81	10	60.5	62.0	1.5	100
80.5	0	66	6	81.5	9	62.0	63.5	1.5	100
51	2	66.5	10	82	7	63.5	65.0	1.5	100
51.5	0	67	4	82.5	10	65.0	66.5	1.5	100
52	0	67.5	5	83	5	66.5	67.8	1.3	100
52.5	20	68	5	83.5	4	67.8	69.3	1.5	100
53	5	68.5	4	84	5	69.3	70.8	1.5	100
53.5	6	69	0	84.5	5	70.8	73.8	3.0	100
54	5	69.5	9	85	0	73.8	75.3	1.5	100
54.5	3	70	0	85.5	0	75.3	76.8	1.5	100
55	0	70.5	0	86	0	76.8	78.3	1.5	100
55.5	4	71	0	86.5	5	78.3	79.8	1.5	100
56	5	71.5	5	87	5	79.8	81.3	1.5	100
56.5	2	72	0	87.5	5	81.3	82.8	1.5	100
57	5	72.5	0	88	5	82.8	84.3	1.5	100
57.5	6	73	0	88.5	0	84.3	85.8	1.5	100
58	3	73.5	0	89	5	85.8	87.3	1.5	100
58.5	12	74	4	89.5	2	87.3	88.8	1.5	100
59	10	74.5	4	90	4	88.8	90.3	1.5	100
59.5	5	75	2	90.5	5	90.3	91.8	1.5	100
60	5	75.5	5	91	2	91.8	93.3	1.5	100
60.5	10	76	0	91.5	4	93.3	94.8	1.5	100
61	5	76.5	0	92	2	94.8	96.3	1.5	100
61.5	7	77	5	92.5	0	94.3	99.3	3.0	100

394052

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 3 of 8

TENEMENT NAME PYRAMID No. 28/88

PLAN – MAP REFERENCE

CO-ORDINATES 364329E 5356591N AZIMUTH 200° MAG DRILLERS DOTAS COMMENCED 3/4/96 DEPTH 252m HOLE No. DD96ZP65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/4/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)
93.3	97.8	100	1		Med/coarse silicic quartzite locally conglomeratic, grey reduction in amount of black angular clasts. patches of pink/brown alteration; more variety of clasts.	Occ calcite veining			
97.8	98.9	100	1		Brown, buff, pink altered? silicic med/coarse quartzite		25	97.8	98.8
98.8	104.9	100	1		light grey fine grained conglomerate - silicic massive - possible unpaved alteration ?hydrothermal greater variety of generally rounded clasts.	occasional calcite veining localised brecciation light green veining @ 103.3-10 - chlorite or fuchsite.	26	98.8	100.8
104.8	106.9	100	1		Pink hue to ?feldspathic med/coarse grained q/zite with coarser ?alkali fspar clasts.	Pink feldspar - also pink calcite - calcareous.	27 28	103.3 104.8	104.8 106.8
106.9	113.7	100	1		Med grained grey silicic quartzite with coarser zones.	Thin calcite veining. occ green veining and pink carbonate zones in matrix Bedding contact @ 108.5m 40° to c/a ?Buff dolomite in matrix			

Depth	Value	Depth	Value	Depth	Value	Recovery From (m)	Recovery To (m)	Recovery (m)	Recovery (%)
93	4	108.5	11	124	5	97.3	100.8	1.5	100
93.5	8	109	2	124.5	10	100.8	102.3	1.5	100
94	10	109.5	5	125	75	102.3	103.8	1.5	100
94.5	10	110	0	125.5	23	103.8	105.3	1.5	100
95	10	110.5	0	126	2	105.3	106.8	1.5	100
95.5	5	111	2	126.5	5	106.8	108.3	1.5	100
96	10	111.5	0	127	9	108.3	109.8	1.5	100
96.5	11	112	5	127.5	2	109.8	111.3	1.5	100
97	9	112.5	4	128	10	111.3	112.8	1.5	100
97.5	11	113	0	128.5	9	112.8	114.3	1.5	100
98	7	113.5	0	129	5	114.3	115.8	1.5	100
98.5	11	114	5	129.5	6	115.8	117.3	1.5	100
99	6	114.5	0	130	9	117.3	118.8	1.5	100
99.5	0	115	5	130.5	6	118.8	120.3	1.5	100
100	0	115.5	5	131	15	120.3	121.8	1.5	100
100.5	0	116	4	131.5	6	121.8	123.3	1.5	100
101	0	116.5	5	132	0	123.3	124.7	1.54	100
101.5	0	117	5	132.5	10	124.7	126.2	1.5	100
102	0	117.5	5	133	C/L	126.2	127.8	1.6	100
102.5	0	118	8	133.5	25	127.8	129.3	1.5	100
103	0	118.5	6	134	12	129.3	130.8	1.5	100
103.5	0	119	8	134.5	15	130.8	132.3	1.3	87
104	0	119.5	11	135	0	132.3	133.2	0.45	50
104.5	0	120	9	135.5	14	133.2	134.6	1.4	100
105	5	120.5	0	136	12	134.6	136.1	1.5	100
105.5	0	121	20	136.5	5	136.1	136.8	0.7	100
106	5	121.5	5	137	16	136.8	138.3	1.6	100
106.5	5	122	5	137.5	12	138.3	139.8	1.5	100
107	5	122.5	2	138	0	139.8	141.3	1.5	100
107.5	3	123	22	138.5	11	141.3	142.8	1.5	100
108	8	123.5	21	139	14	142.8	144.3	1.5	100

Magnetic Susceptibility

3640356

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 4 of 8

TENEMENT NAME PYRAMID No. 28188

364329E

CO-ORDINATES 5385911N AZIMUTH 200° AMG DRILLERS ODTAS COMMENCED 2/4/96

PLAN – MAP REFERENCE

DEPTH 252m HOLE No. DD96ZP65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/4/96

CASING LEFT DPO No(s)

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)
113.7	122.5	100	1		Medium grained dark grey silicic quartzite occ conglomeratic band. massive	rare veining becoming greater intensity d/hole.	347029	117.3	118.8	
121.5	123.3	100	2		Fine grained ? sandstone (non-calcareous) with bands of coarser calcareous material — ?limestone. Poss dolomite.		30	121.8	123.3	
123.3	125.8	100	2f		?Limestone band (argillaceous) ; matrix vuggy + calcareous	Top angle contact 10° c/A Bottom angle " 25° c/A.	31	123.3	125.8	
125.8	132.3	95	1		med/fine grained grey quartzite; occ blade shale bands with shearing.	Bedding sub parallel to c/A. Some cal/dol veining and minor brecciation.	32	125.8	127.8	
							33	130.8	132.3	
132.3	133.2	50	5x		Broken core + core loss Poss cavity		34	132.3	133.2	
133.2	137.5	100	3f	Qgdl	Brown/pink/buff ?dolomite massive looking (& possibly & weakly calcareous silicic quartzite) - soft. Zones of grey dolomite	Red hematitic alteration minor thin veinlets minor disseminated pyrite	35	133.2	134.6	
							36	134.6	136.8	
							37	136.8	137.5	
137.5	140.9	100	3f		Possible calcareous quartzite; light grey with pink hue	Shear zone @ 139.9m.	38	137.5	139.8	
							39	139.8	140.9	

ASSAY VALUES (Analysed by.....)

Mag Sus. Depth	Mag Sus. Value	Mag Sus. Depth	Mag Sus. Value	Rec (from)	Rec (to)	Rec (m)	Rec (%)
139.5	5	156	5	144.3	145.8	1.5	100
140	9	155.5	11	145.8	147.3	1.5	100
140.5	11	156	0	147.3	148.8	1.5	100
141	20	156.5	15	148.8	150.3	1.5	100
141.5	9	157	9	150.3	151.9	0.6	86
142	5	157.5	0	151.0	152.5	1.5	100
142.5	15	158	0	152.5	153.6	0.8	72
143	10	158.5	6	153.6	155.2	1.1	69
143.5	11	159	6	155.2	156.3	1.1	100
144	14	159.5	8	156.3	157.8	1.4	93
144.5	9	160	0	157.8 / 159.3	159.3 / 159.8	1.5 / 0.4	100 / 80
145	10	160.5	0	159.8	161.4	1.6	100
145.5	10	161	9	161.4	162.8	1.4	100
146	9	161.5	4	162.8	163.8	1.0	100
146.5	8	162	0	163.8	165.3	1.5	100
147	5	162.5	0	165.3	166.8	1.5	100
147.5	30	163	6	166.8	168.3	1.5	100
148	9	163.5	0	168.3	169.8	1.5	100
148.5	14	164	0	169.8	171.3	1.5	100
149	13	164.5	5	171.3	172.8	1.5	100
149.5	9	165	4	172.8	174.3	1.5	100
150	0	165.5	6	174.3	175.8	1.5	100
180.5	5	166	5	175.8	177.3	1.5	100
151	5	166.5	4	177.3	178.8	1.5	100
161.5	0	167	5	178.8	180.3	1.5	100
152	16	167.5	5	180.3	181.8	1.5	100
152.5	0	168	11	181.8	183.3	1.5	100
153	0	168.5	5	183.3	184.8	1.5	100
153.5	clc	169	5	184.8	186.3	1.5	100
154	5	169.5	2	186.3	187.8	1.5	100
154.5	clc	170	5	187.8	189.3	1.5	100

364057

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 5 of 9

TENEMENT NAME PYRAMID No. 28188

PLAN – MAP REFERENCE

CO-ORDINATES 364329E. 5356591N AZIMUTH 200° AMG DRILLERS DDTAS COMMENCED 31/4/96 DEPTH 252m HOLE No. DD96ZP65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U25D COMPLETED 22/4/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)
140·9	142·9	100	1	Ogdl	Dolomite - grey/dark grey well bedded locally; argillaceous zones and dolomitised fenestral micrite.	bedding 60° to c/A but locally faulted	5471040	140·9	142·9	
142·9	143·2	100	5X	Ogfz	Shear Zone - brecciated dolomite clasts.	Upper contact 45° to c/A.	41	142·9	144·3	
143·2	143·45	100	1	Ogdl	Altered dolomite.					
143·45	144·0	100	1	Ogbr	Pink/buff/brown/fawn calcite - dolomite vein:- breccia vein with pink altered clasts.	Contacts 75° to c/A at base & Top.				
144·0	145·8	100	1	Ogmu	Grey dolomitised fine grained calcarenite. Locally bedded. Possibly a micrite (laminated) unit + birds eye micrite.	Bedding 50° to c/A cal/dol veining <1cm 70–80° to c/A. 40° to c/A	42	144·3	145·8	
145·8	152·8	95	1	Ogdl	Grey dolomitised fine grained calcarenite ? locally argillaceous. + locally Ogmu type.	Occ cal/dol filled vug. Bearing mm veined even brecciated.	43	148·8	150·3	
152·8	155·2	92	3F	Ogdl	Sheared zones in dolomite - possible cavities - dk grey clays.					
155·2	155·8	100	1	Ogdl	Varied dolomite.		44	153·6	155·8	

ASSAY VALUES (Analysed by .....)

Mag Sus. Depth	Mag Sus. Value	Mag Sus. Depth	Mag Sus. Value	Rec (from)	Rec (to)	Rec (M)	Rec %
170·5	4	186	6	189·3	190·8	1·5	100
171	4	186·5	5	190·8	192·3	1·5	100
171·5	2	187	9	192·3	193·8	1·5	100
172	0	187·5	6	193·8	195·3	1·5	100
172·5	5	188	9	195·3	196·8	1·5	100
173	0	188·5	10	196·8	198·3	1·5	100
173·5	5	189	15	198·3	199·8	1·5	100
174	2	189·5	16	199·8	201·3	1·5	100
174·5	0	190	16	201·3	202·8	1·5	100
175	0	190·5	13	202·8	204·3	1·5	100
175·5	0	191	10	204·3	205·8	1·5	100
176	2	191·5	10	205·8	207·3	1·2	80
176·5	2	192	10	207·3	208·8	1·5	100
177	0	192·5	10	208·8	210·3	1·5	100
177·5	0	193	10	210·3	211·8	1·5	100
178	5	193·5	12	211·8	213·3	1·5	100
178·5	0	194	11	213·3	214·8	1·5	100
179	2	194·5	14	214·8	216·3	1·5	100
179·5	8	195	10	216·3	217·8	1·5	100
180	5	195·5	9	217·8	219·3	1·5	100
180·5	4	196	6	219·3	220·8	1·5	100
181	6	196·5	10	220·8	222·3	1·5	100
181·5	5	197	20	222·3	223·8	1·5	100
182	5	197·5	12	223·8	225·3	1·5	100
182·5	10	198	20	225·3	226·8	1·5	100
183	9	198·5	6	226·8	228·3	1·5	100
183·5	5	199	14	228·3	229·8	1·5	100
184	10	199·5	10	229·8	231·3	1·5	100
184·5	10	200	10	231·3	232·8	1·5	100
185	5	200·5	10	232·8	234·3	1·5	100
185·5	5	201	9	234·3	236·8	1·5	100

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 6 of 8

TENEMENT NAME PYRAMID No. 28188

PLAN – MAP REFERENCE

CO-ORDINATES 3643296E 5356591N AZIMUTH 200° AMG DRILLERS DDTAS COMMENCED 3/4/96 DEPTH 252m HOLE No. DD96PYP65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/4/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	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 .....) Mag SUS - Mag SUS Depth	Value	Depth	Value	REC (from)	REC (to)	REC (m)	REC (%)
155.8	157.5	100	3f	Ogfz	Sheared zone with lt grey pink altered and brecciated ?dolomite locally.	cal/dol veins 70° to c/A. dol breccia 157.3-157.5. two phases of veining	5471045	155.8	157.5		201.5	10	217	10	235.8	237.2	1.0	71
											202	10	217.5	7	237.2	238.8	1.6	100
											202.5	12	218	11	238.8	240.3	1.5	100
											203	10	218.5	15	240.3	241.8	1.5	100
157.5	160.6	95	3f	Ogdl	Veined dolomitised fine grained calcarenites occ small sheared zone	Veining cal/dol and often small and irregular locally brecciation.	46	157.5	159.8		203.5	8	219	10	241.8	244.8	3.0	100
											204	10	219.5	6	244.8	247.8	3.0	100
											204.5	9	220	5	247.8	250.8	3.0	100
											205	5	220.5	7	250.8	252.0	1.2	100
160.6	164.8	100	1	Ogdl	Partially dolomitised laminated calcarenite. - hints of syn sed breccias decrease in dolomitisation downhole.	occ calcite veining irregular Bedding @ 165.8 45° to c/A. Pyrite blebs + semi massive with calcite infilling part of matrix to a syn sed breccia @ 164.3 m. Minor pyrite with calcite veins	47	163.8	164.8		205.5	11	221	6				
											206	10	221.5	6				
											206.5	6	222	10				
											207	6	222.5	10				
											207.5	11	223	11				
											208	8	223.5	11				
											208.5	0	224	10				
											209	5	224.5	9				
											209.5	6	225	7				
164.8	171.8	100	1	Ogul	Fine grained grey calcarenite locally micritic interbedded with more argillaceous med grained (locally non calcareous) calcarenites. light grey calcarenites can be brecciated. occ bioclastic band ?subtidal facies.	Bedding 50° to c/A.					210	5	225.5	6				
											210.5	6	226	9				
											211	5	226.5	6				
											211.5	6	227	10				
											212	9	227.5	10				
											212.5	5	228	12				
											213	9	228.5	13				
											213.5	10	229	5				
											214	10	229.5	9				
171.8	174.8	100	1	Ogul	Argillaceous bioclastic Calcarenite with tetradium. locally light grey micrite bands.	some calcite veining 70° to c/A.					214.5	6	230	5				
											215	7	230.5	2				
											215.5	10	231	6				
											216	6	231.5	5				
174.8	178.5	100	1	Ogpo	Dominantly med grained equigranular calcarenite.	Calcite veining 1 per 10cm generally 70° to c/A.	48	176.8	177.3		216.6	8	232	2				

3641059

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 7 of 8

TENEMENT NAME PYRAMID No. 28188

364329 E

CO-ORDINATES 535691N AZIMUTH 200° AMG DRILLERS DDTAS COMMENCED 3/4/96 DEPTH 252m HOLE No. DD96ZP65

PLAN – MAP REFERENCE

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/4/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)
78.5	180.9	100	1	Ogul	Dominantly argillaceous bioclastic calcarenite with tetradium					
180.9	206.5	98	1	Ogul	Possible start of Myrtle Fm. Interbedded fine grained, locally micritic + coarsely bioclastic calcarenite with argillaceous bands. ?PAC units - but no real laminated micrite units - Oncolites locally. Some birds eye micrites. Poss laminated micrite 182.3-183.3 more channel like towards base Disturbed bedding at base (v.c. variable bedding angles)	Bedding 50° to c/a. calcite veining increases in intensity towards base of units generally <1cm 70° to c/a	5141049	182.0	183.3	
							50	192.3	193.8	
							51	202.8	204.3	
							52	205.8	206.5	
206.5	209.7	90	1	Ogul	Altered (?oolted) argillaceous limestone		53	206.5	207.7	
209.7	216.3	100	1	Ogul	Interbedded argillaceous calc arenite and burrowed fine grained calcarenite. with bioclastic calcarenite bands - bands rather uniform 10cm thickness		54	207.7	208.8	
216.3	231.9	100	1	Ogul	Fine grained grey calcarenite with occasional argillaceous beds and zones; occ bioclastic scattered occ argillaceous bioclastic unit.	Bedding 50° to c/a.	55	219.3	220.8	

ASSAY VALUES (Analysed by.....)

Mag Sus Depth	Mag Sus Value	Mag Sus Depth	Mag Sus Value
232.5	5	248	0
233	6	248.5	5
233.5	5	249	7
234	9	249.5	5
234.5	6	250	5
235	5	250.5	6
235.5	5	251	5
236	4	251.5	0
236.5	5	252	6
237	C/L	2	
237.5	5		
238	5		
238.5	5		
239	9		
239.5	9		
240	5		
240.5	5		
241	2		
241.5	5		
242	10		
242.5	5		
243	0		
243.5	2		
244	10		
244.5	7		
245	6		
245.5	6		
246	8		
246.5	2		
247	5		
247.5	2		

364060

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 8 of 8

TENEMENT NAME PYRAMID No. 28/83

PLAN – MAP REFERENCE

364329E.

CO-ORDINATES 5356591N AZIMUTH 200° AMG DRILLERS DDTAS COMMENCED 3/4/96 DEPTH 252m HOLE No. DD962P65

RL COLLAR 129m INCLINATION 69° DRILL TYPE U250 COMPLETED 22/4/96 CASING LEFT DPO No(s) 82159

DEPTH From (M)	DEPTH To(M)	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.....)
					Core orientation @ 226.8m. bedding sub-vertical.						
231.9	232.2	100	5	Ogfz	Small shear zone	55° to c/A. ? bedding parallel.					
232.2	234.6	100	1	Ogul	Intermixed argillaceous calcarenite and light grey fine calcarenite.		547 056	232.8	234.3		
234.6	238.2	96	3f	Ogmu	Laminated micrite unit with birds eye micrites.	Bedding 55° to c/A.					
238.2	247.16	100	1	Ogul	Intermixed argillaceous calcarenite and fine-grained nodular light grey calcarenite locally with discrete argillite bands and discrete bioclastic bands	?large coral @ 238.7-238.95m Core Orientation @ 238.8m sub-vertical bedding Minor calcite veining.	57	240.3	244.8		
247.15	249.4	100	1	Ogmu	Laminated micrite unit with abundant birds eye micrites	Bedding 55° to c/A.					
249.4	252.0	100	1	Ogul	Grey med/fine grained bioclastic calcarenite with large argillite masses – <6cm. Large coral bioclasts <5cm	Core Orientation @ 250.8m	58	249.4	250.8		
					END OF HOLE 252m.						

364061