

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

SHEET No. 099

TENEMENT NAME Probasco Range No. 099

PLAN - MAP REFERENCE

365296 E
CO-ORDINATES S357810N AZIMUTH 200° mag DRILLERS DD TFS COMMENCED 3/7/95
RL COLLAR INCLINATION 45° DRILL TYPE UG50 COMPLETED 17-7-95

DEPTH 248 m HOLE No. ZR103

CASING LEFT DPO No(s)

DEPTH		Core Rec. %	R-Q 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 (mm)	Rec (To)	Rec (M)	Rec %	
0	10	-	-	Qha	Overburden and weathered clays							0	10	0	0
												10.0	10.5	0.3	60
												10.5	12.0	1.5	100
10	10.5	60	5	Ogdc	Black clay		5466236	10	10.5			12.0	13.5	0.75	50
							38					13.5	15.0	0.3	20
10.5	12.3	100	5	Ogdc	Brown/grey clay		39	10.5	12.3			15.0	15.5	0.25	50
												15.5	16.5	0.5	50
12.3	18.0	63	5	Ogdc	Dark brown clay							16.5	17.0	1.2	80
							38	12.3	15.0			18.0	19.5	0.4	26
18.0	27.0	47	5	Ogdc	Grey/light grey clay possibly weathered micrite/calcareous		37	15.0	18.0			19.5	21.0	0.3	20
							40	18.0	21.0			21.0	22.5	0.15	10
					micrite fragments non-calcareous.		41	21.0	24.0			22.5	24.0	0.6	40
							42	24.0	27.0			24.0	25.5	0.9	60
27.0	30.3	43	5	Ogdc	Dark grey rotted ? limestone / clay ? argillaceous unit.	!	43	27.0	30.3			25.5	27.0	0.75	50
												27.0	28.5	0.3	20
												28.5	30.0	1.0	66
30.3	31.5	66	5	Ogdc	Light grey clay - weathered micrite/calcareous (sandy) non-calcareous.		44	30.3	31.5			30.0	31.5	1.0	66
												31.5	33.0	1.2	80
												33.0	34.5	1.0	66
												34.5	36.0	1.2	90
31.5	34.2	73	5	Ogdc	Dark grey/black clay non-calcareous.		45	31.5	34.2			36.0	37.5	0.5	33
												37.5	39.0	1.2	80
												39.0	40.5	0.5	33
34.2	37.6	56	5	Ogdc	Light grey/cream clay non-calcareous.		46	34.2	37.6			40.5	41.7	0.6	50
												41.7	42.5	0.7	90
												42.5	43.5	0.8	80
37.6	40.6	56	5	Ogdc	Grey clay grading into dark grey clay to black clay. basal black clay contains non argillaceous calcareous fragments.		47	37.6	40.6			43.5	45.0	0.3	20
												45.0	46.5	0.75	50
												46.5	48.1	1.6	100
												48.1	49.5	1.4	100
												49.5	51.0	1.5	100

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

TENEMENT NAME PROFESSOR RANGE SHEET No. 6
No. 258

CO-ORDINATES 365296 E 5751810 N AZIMUTH 200° MAC DRILLERS DD TAS COMMENCED 3.7.95 PLAN - MAP REFERENCE.....
RL COLLAR..... INCLINATION 45° DRILL TYPE U.650 COMPLETED 17.7.95 DEPTH 248 m HOLE No. ZR103
CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. %	R.Q. ORTA	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)																					
151.0	161.9	100	2c	Qgm	Well cleaved dark grey U fine grained calcarenite with locally u. coarse bioclastic local zones of laminations interbedded with biotitic calcarenite beds; well bedded. Band 4cm a much coarser biotitic calcarenite - oncoid.	Bedding / cleavage parallel shear with calcite veining @ 151.5 for 15cm. 60° to c/a. Laminations 60 → 50° to c/a Band with calcite veining subs parallel to c/a.	546268	155.2	158.2													
151.0																						
161.0	165.9	100	2f	Qgd	Fine grained grey/dark grey calcarenite locally micritic; locally biotitic - sometimes coarsely so.	Well sheared and with calcite veining + stringer veining	69	164	165.9													
165.9	167.9	63	5x	QgPz	Sheared and broken core including core loss and dog zones; blocky argillite at base of shear zone - calcareous	Irregular cross cutting calcite veining Angle of shear 65-70° to c/a at basal contact.	70 71	165.9 167.75	167.75 169.9													
169.9	176.3	100	4c	Qgd	Med/fine grained grey/dark grey calcarenite with minor argillite beds; one small biotitic band 4cm. Well cleaved	cleavage 55° to c/a.	72	169.9	172.2													
176.3	178.7	100	4f	QgPz	Med grained grey calcarenite locally med-coarsely biotitic locally sheared.	Zone of more intense calcite veining 50° to c/a even calcite breccia veins, some shearing 30° to c/a.	73	176.3	178.6													
178.7	182.7	100	4c	Qsd	med/fine grained grey/dk grey calcarenite with minor argillite beds.	Cleavage 35° to c/a. bedding parallel.																

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

SHEET No. ②
TENEMENT NAME: PROFESSOR RANGE No. 019
PLAN - MAP REFERENCE.....
DEPTH 248 m HOLE No. ZR103
CASING LEFT..... DPO No(s).....

365296
CO-ORDINATES S351810N AZIMUTH 200° MAG DRILLERS DDTAS COMMENCED 3.7.95
RL COLLAR..... INCLINATION 45° DRILL TYPE 4650 COMPLETED 17.7.95

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 (mm)	REC (Tn)	REC (M)	REC (%)
						note variable bedding @ 180.35 - parallel to c/A. @ 181 45° E c/A.					173.1	173.6	0.5	100
											173.4	175.1	1.5	100
											175.1	176	0.9	100
											176	179.1	3.1	100
182.7	183.8	100	3v	Ogud	Grey altered calcarenite	Zone of calcite veining irregular + up to 5cm thick					179.1	180.3	1.25	100
											180.35	181.9	1.55	100
											181.9	183	1.1	100
183.8	188.7	91	3c	Ogud	Dark grey ^{grey} fine grained (? altered) calcarenite/micrite with thin argillite beds/bands Possible fault zone.	Bedding 25° E c/A. Calcite veining and shearing; cleavage 45° E c/A. Bedding @ 188m 45° E c/A.	5466274	184.75	187.1		183	184.25	1.25	100
											184.25	184.75	0.5	100
											184.75	185.6	0.75	100
											185.6	186.5	0.45	50
											186.5	187.1	0.6	100
188.7	192.4	100	2c	Ogud	Grey fine v. fine grained calcarenite/micrite - with birds eyes - possibly laminated locally	Bedding - parallel to Cleavage @ 20° to c/A, 45° to c/A Calcite veining locally Bedding @ 192.4 45° to c/A.	75	189.85	192.0		187.1	188.7	1.6	100
											188.7	189.85	1.15	100
											189.85	192.0	2.15	100
											192.0	194.1	2.10	100
											194.1	196.75	2.65	100
192.4	198.7	100	2c	Ogud	Grey/dark grey fine v. fine grained calcarenite; with minor argillite bands; coarse bioclastic band @ 193.95	Well cleaved locally; bedding 45° E c/A. Calcite veined zone 195.7-196.1 m. Otherwise major calcite stringer veining locally					196.75	199.0	2.25	100
											199.0	201.0	1.6	80
											201.0	202.75	1.75	100
											202.75	205.4	2.65	100
											205.4	206.25	0.85	100
											206.25	207.6	1.35	100
198.7	206.3	100	2c	Ogud	Almost a laminated micrite unit	Bedding 45° E c/A.					207.6	208.1	0.3	60
											208.1	208.8	0.7	100
200.3	207.5	100	3c	Ogud	Mixed unit of fine grained grey/dark grey calcarenite with minor argillite bands/bands < 2cm thick. Included are bioclastic bands and zones of burrowing; Almost micritic in places	Well cleaved often parallel to bedding Minor calcite veining except @ 205.2-205.3m 45° E c/A.	76	202.75	205.4		208.8	210.7	1.9	100
											210.7	211.7	1.0	100
											211.7	213.75	2.05	100
											213.75	214.9	1.15	100
											214.9	216.75	1.85	100
											216.75	217.65	0.9	100

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