

CRA EXPLORATION PTY. LIMITED
DRILL-HOLE SUMMARY LOG

695033

HOLE NAME: DD95 ZF36 AMG EAST 360558.4 NORTH 5349716.7
 PROSPECT FIREWOOD STING GRID EAST 60203 NORTH 44187
 EL: ZEEHAN 2 EL34/88 RL DEPTH 218.0 m

DATE DRILLED: APRIL 1995
 LOGGED BY: SJTear
 DRILLING CO.: DDTAS
 DRILL TYPE: DIAMOND
 DRILL RIG: L738
 LOC DRILL CORE: ZEEHAN

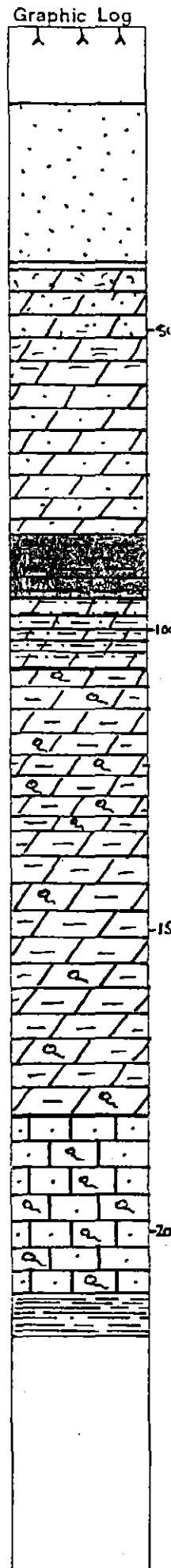
SURVEYS:					
DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	082°	-45°	218	-	-49
50	087	-47.5			
100	084.5	-50			
150	084	-50			
200	081.5	-49			

OBJECTIVES OF HOLE:
 To test Upper Zone secondary dolomite beneath area where air-core traverses intersected extensive Zn anomalism in decomposed dolomite up to 2% Zn.

LITHOLOGICAL SUMMARY:			
FROM	TO	FORM CODE	COMMENTS
0	13	Qha	Overburden; no recovery
13	39	Sc	Med grained sandstone with sandy clay zones +/- limonite + siliceous alteration Crotty Quartzite
39	58.1	Ogud	Mixed limestone/dolomite and sandstone with sandy clay zones
58.1	85.0	Ogud	Dolomitised calcarenites +/- matrix breccias +/- clay zones
85.0	94.0	Ogdc	Dark grey clay zone
94.0	100.9	Ogud	Dolomite - ?argillaceous calcarenites minor bioclasts
100.9	134.4	Ogud	Dolomitised argillaceous bioclastic calcisiltite - faulted base
134.4	163.3	Ogud	Dolomitised argillaceous calcarenite - vuggy; bioclastic, burrowed
163.3	172.7	Ogud	Partially dolomitised grey calcarenite with synd brecciation
172.7	181.7	Ogud	Dolomitised calcisiltite
181.7	211	Ogul	Fine grained calcarenite; bioclastic
211	218	Ogsi	Transitional Siltstone Unit.

MINERALISATION SUMMARY:			
FROM	TO	COMMENTS	
36.7	39	0.28% Zn	Light brown sandy clay with limonitic staining immediately overlying dolomite.
85	88	0.28% Zn	Dark grey clays +/- siderite in dolomite.
44.6	46.1	0.27% Zn	Light brown sandy clay with limonite.

CONCLUSIONS:
 Mineralisation occurs at upper sandstone / limestone contact possibly within the sandstone - ? shear related mineralisation.
 projection of anomalous surface values shows potential existing at deeper depths approx 250-270m d/hole.
 Bedding @ 95m 55° to c/a @ 123m 60° to c/a @ 198m 60° to c/a.



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DRILL CORE LOG

SHEET No. 1 of 7
TENEMENT NAME FIREWOOD SIDING No. 07

CO-ORDINATES 360558E AZIMUTH 071 mag. 083 AMG DRILLERS Diamond Drilling COMMENCED 29/3/95 DEPTH 218.0m HOLE No. ZF86
RL COLLAR 5349716N INCLINATION 45° DRILL TYPE LY38 COMPLETED 1/5/95 CASING LEFT DPO No(s) 77694

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)										REL Fean	REL Feo	REL Mn	REL Zn
0	13	0		Qha	Overburden.						0	13	0	0
13	14.6	81		Sc	Fine grained light grey quartz arenite - massive bedding.						13	14.6	1.3	81
											14.6	17.6	2.7	90
											17.6	20.6	2.8	92
14.6	18.0	90		Sc	Brown weathered, brecciated sandstone.						20.6	23.6	3.0	100
											23.6	26.6	2.35	78
											26.6	29.0	1.1	46
											29.0	31.0	0.8	40
18.0	24.0	95		Sc	Sandy clay? fault gouge or heavily weathered.						31.0	32.6	1	63
											32.6	35.2	2	77
											35.2	38.1	2.3	79
24.0	25.4	70	5	Sc	Laminitic clay / mudstone.		5465701	24.18	25.42		38.1	38.6	0.5	100
											38.6	41.6	2.5	83
25.4	30.8	60		Sc	Silicified quartzite - mylonite look to some of the rocks; ductile faulting		5465702	25.42	26.6		41.6	44.6	1.5	50
							5465703	26.6	29.0		44.6	47.6	2.3	77
											47.6	50.6	2.2	73
											50.6	53.3	2.4	88
30.8	36.2	70	5	Sc	light grey / white sandy clay possibly faulted	@ 35.2					53.3	55.3	1.7	85
											55.3	56.6	1.1	85
											56.6	59.6	2.5	83
36.2	39.0	75	5	Sc	light brown sandy clay with some laminitic staining		5465704	35.2	36.7		59.6	62.6	2.4	80
							5465705	36.7	38.1		62.6	65.6	2.3	77
							5465706	38.1	39.0		65.6	68.6	1.8	60
39.0	44.60	66		Ogud	mixed limestone and quartzite unit; with orange brown sandy clays; badly broken core; possible silicification		5465707	39.0	41.6		68.6	71.6	2.2	74
							5465708	41.6	44.6		71.6	74.6	2.2	74
											74.6	75	0.25	63
											75	76	0.4	40
											76	79	1.15	38
44.60	47.99	77		Ogfc	Orange/brown sandy clay		5465709	44.6	46.1		79	82	1.3	43
							5465710	46.1	47.6		82	85	1.66	55
											85	88	3	100

695034

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DRILL CORE LOG

SHEET No. 4

TENEMENT NAME Fremont S.D.M.C. No. 057

PLAN - MAP REFERENCE

CO-ORDINATES 360558E AZIMUTH 071 MAG DRILLERS DD TAS COMMENCED 29.3.95 DEPTH 218m HOLE No. ZF36

RL COLLAR 5349716N INCLINATION 45° DRILL TYPE LY38 COMPLETED 1.5.95 CASING LEFT 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 (%)	
105.0	107.0	78	SX	Qzd.	Limestone sand - ? cavity or fault zone.		5465745	104.2	105.4			83	90.8	2.8	100
							46	105.4	107.4			90.8	93	1.5	68
							67	107.4	109.0			93	94	0.45	45
107.0	123.0	65		Qzd	Dark grey argillaceous calcillite locally non-calcareous - ? Possible siltstone unit. Bioturbated with limestone sand (Travertine); locally bioturbated; locally broken core + core loss.	Locally pyritic @ 109.3m.	48	109.0	111.0			94	96.6	1.5	58
							49	111.0	112.0			96.6	98.5	1.8	95
							5465750	112.0	115.0			98.5	99.5	0.75	75
							51	115.0	118.0			99.5	102.8	1.1	33
							52	118.0	122.4			102.8	105.4	1.8	69
									122.4			105.4	106	0.55	92
									106			106	109	1.6	53
									109			109	112	1.52	50
									112			112	115	0.7	23
									115			115	118	0.5	17
									118			118	120.8	1.9	68
									120.8			120.8	122.4	1.27	79
									122.4			122.4	124	1.4	88
									124			124	126.4	1.3	54
123.0	126.4	60		Qzd	Possible syndimentary breccias - bioturbated ground dark grey argillaceous weathly calcareous calcillite.	Minor blebs of pyrite; some quartz veining; ore cavity lined with pyrite.						126.4	128.9	1.6	64
									128.9			128.9	130	0.6	55
									130			130	132.1	2.1	100
									132.1			132.1	133	0.7	78
									133			133	136	2.7	90
126.4	132.5	80		Qzd	Grey/dark grey argillaceous calcillite weathly calcareous very uniform looking rock.	Thin quartz veinlets 70° E c/A localised zones of internal brecciation.	54	126.5	131.2			136	139	2.5	83
							55	131.2	135			139	142	2.9	96
									135			142	144.5	2.5	100
									144.5			144.5	147.5	1.0	33
132.5	133.0	78		Qzd	?Weathered zone; brown matrix to grey limestone probably calcillite; localized fault breccias.							147.5	148.9	0.8	62
									148.9			148.9	151	1.1	52
									151			151	153.6	0.56	22
									153.6			153.6	156.2	0.7	27
									156.2			156.2	158.9	1.7	74

695037

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DRILL CORE LOG

SHEET No. 6
No. 077

TENEMENT NAME FIREWOOD SIDING
PLAN - MAP REFERENCE

CO-ORDINATES 360558 E AZIMUTH 071 MAG DRILLERS DDTAS COMMENCED 29.3.95 DEPTH 218 m HOLE No. ZF36
RL COLLAR 5349716 N INCLINATION 45° DRILL TYPE LY 38 COMPLETED 1.5.95 CASING LEFT 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 (Fe)	REC (Ti)	REC (M)	REC (Ni)	
169.0						interstitial pyrite replacement mineralisation @ 167.4m.						158.5	160	0.5	10
												160	163	0.5	17
												163	166	2.7	90
169	172.7	57		Ognd	Grey synsedimentary brecciated partially dolomitised calcareite - locally extensive dolomitised Broken core possible fault zone sub- parallel to c/A. Vuggy	Muir- pyrite blebs	545765	169	174.2			166	169	2.6	87
												169	172	1.7	57
												172	174.2	1.65	66
												174.2	177.2	2.4	80
												177.2	178	0.5	63
												178	181	1.9	63
172.7	174.5	66		Ognd	Broken core - dolomitised ? calcareite / calcisiltite with dark grey clay zones.		545765	169	174.2			181	184	2.5	83
												184	187	2.9	47
												187	190	2.45	98
												190	196	6.0	100
												196	199	2.9	98
174.5	178.6	72		Ognd	Grey vuggy dolomitised coarse ? bioclastic calcareite.		66	174.2	177.2			199	202	2.7	90
												202	205	3.0	100
												205	208	1.6	55
178.6	181.7	63		Ognd	Dark grey dolomitised calcisiltite		67	177.2	181.7			208	211	0.3	10
												211	214	1.2	40
181.7	184.4	90		1 Ognd	Mixed grey micritic fine calcareite + dark grey argillaceous material; locally bioclastic; often discrete argillaceous bands < 1.5m thick see synsed brecciation of micritic material	Bedding ⁶⁰ to c/A.	68	181.7	184.0			214	217	2.1	70
												217	218	0.85	85
							69	184.0	187.0						
198.4	199.9	95	4X	Ognd	Weathered micrite and argillite with calcite veining; broken core.	vein sub-parallel to c/A.									

695039

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 DRILL CORE LOG

SHEET No. 7 of 7

TENEMENT NAME FIREWOOD Siding No. 2F36

PLAN - MAP REFERENCE

CO-ORDINATES 360558E AZIMUTH 071 MAG DRILLERS DDTAS COMMENCED 29.3.95 DEPTH 218m HOLE No. 2F36

RL COLLAR 5349716N INCLINATION 45° DRILL TYPE LY 38 COMPLETED 1.5.95 CASING LEFT DPO No(s)

DEPTH		Core Rnc. %	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)																				
199.9	208	100	1	Ogsl	lt grey fine grained calcarenite with dark grey red grained argillaceous calcarenite on -	poss bedding 50° to c/a minor calcite veining 35° to c/a some veining sub-parallel to c/a. increase in veining downhole.															
208	211	10	3	Ogsl	Cavity with major core Coarse grained limestone.																
211	216	50	5x	Ogsl	Broken core; weathered limestone - leached appearance possible minor dolomitisation black clays. Dk grey block limestone in places. ? siltstone thin.																
216	217.9	95	1	Ogsl	(green) dark grey argillaceous calcarenite / calcarenite. disrupted bedding.	minor calcite infill + veins.															
217.9	218.0	50	5	Ogsl	Broken core / clay gouge?																

695040