CRA EXPLORATION PTY. LIMITED

DRILL-HOLE SUMMARY LOG

304135

HOLE NAME: DD96SW3 · **AMG** **EAST** 375756 **NORTH** 5324105

PROSPECT Swift Creek **GRID** **EAST** 5280 **NORTH** 10800N

EL: Swift Creek **EL** 64/94 **RL** **DEPTH** 61.6m

DATE DRILLED: 1/4/96 - 13/4/96

LOGGED BY: Sandy Meapes

DRILLING CO.: All Terrain Explor^n

DRILL TYPE: Diamond BQTK

DRILL RIG: "Gopher"

LOC DRILL CORE: Zeehan shed

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0 m	106°	50°			
60.1m	111°	46½°			

OBJECTIVES OF HOLE:

Test Gordon Group along strike from wacker sample that returned 0.15%Pb. Predicted intersection at 13m

LITHOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	6	Cg	
6	11.3	Ogbr	Dolomite breccia with white calcite matrix, and micrite.
11.3	35.6	Ogul	Shallowing upward cycles ("PAC's")
35.6	42.1	Ogbr/Ogss	Variably dolomitised and silicified limestone breccia. Originally coarse grained, equigranular calcarenite
42.1	54.3		Quartzite. Brecciated in places. Dolomite cemented
54.3	61.6	Ogul	Shallowing upward sequence ("PAC")

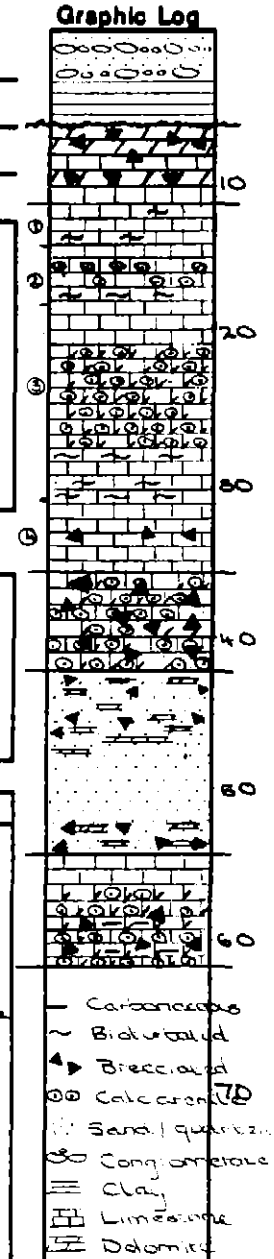
MINERALISATION SUMMARY:

FROM	TO	COMMENTS
		No significant mineralisation intersected.

CONCLUSIONS:

- 12m dolomite cemented Quartzite possibly "Lords Siltstone" equivalent.
- No mineralisation developed below 12m clastic unit (inadequate seal - probably porous and permeable when mineralising fluids passed through)
- Mineralisation recorded in wacker hole at 5295 E (0.15%Pb) is limited.

Graphic Log



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Tenement Name Swift Ck NO 64/94
Prospect Swift Creek

CRA EXPLORATION PTY LIMITED

DRILL CORE LOG

Local
5280E 10800N
CO-ORDINATES 375756mE AZIMUTH 094° Mag DRILLERS A.T.E. COMMENCED 1/4/96 DEPTH 61.6m HOLE No. DD96SW3
RL COLLAR 5324105mN INCLINATION 50° DRILL TYPE Gopher COMPLETED 13/4/96 CASING LEFT PVC to 6m DPO No(s) 82160

Depth From (m)	Depth To (m)	Core Rec %	Rock Quality	Form Code	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	Dfrom (m)	Dto (m)	MagSus Depth	MagSus ×10⁻⁵ Value	Recovery From (M)	Recovery To (M)	Recovery Cut (M)	Recovery Rec (M)	Recovery Rec %
0	6			Cg	COVER		547350	4.6	5.8	6.5	2	0	1.6	1.6	0.1	6
					Sandstone gravels and					7.0	ch	1.6	3.1	1.5	0.35	23
					cobbles underlain by					7.5	0	3.1	4.6	1.5	0	0
					yellowish brown, gritty clays					8.0	0	4.6	6.1	1.5	1.3	87
										8.5	0	6.1	7.6	1.5	1.0	67
6	11.3			Dgbr	DOLOMITE BRECCIA AND MICRITE		507	5.8	7.6	9.0	1	7.6	9.1	1.5	1.4	93
					Light grey dolomite breccia		508	7.6	9.1	9.5	2	9.1	10.6	1.5	1.5	100
					with white calcite matrix	Minor patches of fine	509	9.1	10.6	10.0	4	10.6	12.1	1.5	1.5	100
					and light grey micrite	grained sulphide replacement				10.5	2	12.1	13.6	1.5	1.5	100
					with ? oncolitic/algal ball	(pyrite) associated with	510	10.6	11.4	11.0	2	13.6	15.1	1.5	1.5	100
					horizons	dolomite breccia				11.5	1	15.1	16.6	1.5	1.5	100
										12.0	3	16.6	18.1	1.5	1.5	100
11.3	35.6			Dgul	SHALLOWING UPWARD CYCLES ("PACS")					12.5	1	18.1	19.6	1.5	1.5	100
					① 11.3-14.0m		511	11.4	13.6	13.0	1	19.6	21.1	1.5	1.5	100
					Banded to nodular, grey	13.1m: Bedding to core				13.5	3	21.1	22.6	1.5	1.5	100
					and dark grey limestone (dolomitic)	angle (in banded				14.0	3	22.6	24.1	1.5	1.5	100
					Minor bioturbation (horizontal	unit) ≈66°				14.5	5	24.1	25.6	1.5	1.1	73
					burrows)	⇒ bedding = 64°W				15.0	4	25.6	27.1	1.5	1.5	100
					② 14.0-17.9m					15.5	6	27.1	28.6	1.5	1.5	100
					As above, overlain by					16.0	4	28.6	30.1	1.5	1.5	100
					medium to coarse grained					16.5	3	30.1	31.6	1.5	1.5	100
					calcarenite, grading					17.0	5	31.6	33.1	1.5	1.5	100
					upwards to v. fn grained					17.5	7	33.1	34.6	1.5	1.5	100
					calcarenite with dark	18.3m: Bedding to core angle				18.0	3	34.6	36.1	1.5	1.4	93
					grey lime mudstone laminae	(in micrite) ≈ 49-52°				18.5	4	36.1	37.6	1.5	1.6	94
					③ 17.9-30.7m	⇒ Bedding 80°W				19.0	7	37.6	39.1	1.5	1.5	100
					Banded to nodular, grey		512	19.6	21.1	19.5	8	39.1	40.6	1.5	1.5	100
					and dark grey, bioturbated		513	21.1	22.6	20.0	5	40.6	42.1	1.5	1.5	100
					(horizontal burrows) lime		514	22.6	24.1	20.5	12	42.1	43.6	1.5	1.5	100
					mudstones overlain by a		515	24.1	25.6	21.0	14	43.6	45.1	1.5	1.5	100
					thick sequence of medium		516	25.6	27.7	21.5	20	45.1	46.6	1.5	1.5	100
					to coarse grained, dolomitized,					22.0	20	46.6	48.1	1.5	1.5	100

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Tenement Name Swift Ck NO64/94
Prospect Swift Creek

CRA EXPLORATION PTY LIMITED

DRILL CORE LOG

CO-ORDINATES Local 5280E 10800N 375756mE AZIMUTH 094° Mag DRILLERS ATE COMMENCED 1/4/96 DEPTH 61.6m HOLE No. DD96SW3

RL COLLAR 5324105mN INCLINATION 50° DRILL TYPE Gopher COMPLETED 13/4/96 CASING LEFT 75mm PVC to 6m DPO No(s) 82160

Depth From (m)	Depth To (m)	Core Rec %	Rock Quality	Form Code	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	Dfrom (m)	Dto (m)	MagSus Depth	MagSus Value	Recovery From (M)	Recovery To (M)	Cut (M)	Rec (M)	Rec %
					equigranular calcarenite	Some patches of				22.5	23	48.1	49.6	1.5	1.5	100
					Also quite siliceous in places	pyrite replacement				23.0	21	49.6	51.1	1.5	1.45	97
					Common cross cutting					23.5	20	51.1	52.6	1.5	1.55	103
					calcite veining, minor quartz					24.0	26	52.6	54.1	1.5	1.5	100
					veining					24.5	21	54.1	55.6	1.5	1.5	100
					Dolarenite has interlocking					25.0	17	55.6	57.1	1.5	1.5	100
					crystal texture. Significant					25.5	10	57.1	58.6	1.5	1.5	100
					alteration					26.0	10	58.6	60.1	1.5	1.5	100
					Grades upward into					26.5	15	60.1	61.6	1.5	1.5	100
					light grey micrite with					27.0	10					
					dark grey cryptalgal laminae					27.5	11					
					and minor "birdseye" texture					28.0	9					
										28.5	9					
					⊕ 30.7–35.6m	Some patches of				29.0	11					
					Banded lime mudstone	pyrite replacement	5423817	31.1	31.8	29.5	4					
					overlain by variably	(zones up to 10cm, 10-20%				30.0	6					
					brecciated lime mudstone,	pyrite)				30.5	6					
					overlain by light grey micrite					31.0	2					
					with cryptalgal laminae					31.5	3					
										32.0	8					
35.6	42.1			Cgb	CARBONATE BRECCIA					32.5	5					
					Variably dolomitised and		518	35.6	37.6	33.0	4					
					silicified limestone breccia.		519	37.6	39.1	33.5	5					
					Some zones of coarse		520	39.1	40.6	34.0	6					
					grained, equigranular		521	40.6	42.25	34.5	6					
					Dolarenite recognised					35.0	5					
					where alteration less					35.5	9					
					intense					36.0	20					
										36.5	18					
42.1	43.8				QUARTZITE					37.0	25					
					Very siliceous, variably brecciated	Common sulphidic	522	42.25	43.75	37.5	15					
					quartzite (originally v f gr silty	clay laminae and				38.0	14					

sandstone) with dolomite cement. Trace haematite staining

fractures

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Tenement Name Swift Ck NO 64/94
Prospect Swift Creek

CRA EXPLORATION PTY LIMITED

DRILL CORE LOG

CO-ORDINATES 375 756 mE / 5312405 mN (Local 5280E 10800N) AZIMUTH 094° Mag DRILLERS ATE COMMENCED 1/4/96 DEPTH 61.6 m HOLE No. DD96SW3
RL COLLAR .... INCLINATION 50° DRILL TYPE Gopher COMPLETED 13/4/96 CASING LEFT 75mm PVC below DPO No(s) 82160

Depth From (m)	Depth To (m)	Core Rec %	Rock Quality	Form Code	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	Dfrom (m)	Dto (m)	MagSus Depth	MagSus Value	Recovery From (M)	Recovery To (M)	Recovery Cut (M)	Recovery Rec (M)	Recovery Rec %
43.8	44.6				QUARTZITE	Sulphide in fractures				38.5	9					
					Extremely hard, very		522/523	43.75	45.1	39.0	12					
					siliceous, non-calcareous,					39.5	15					
					flecked with black mineral					40.0	7					
					(? biotite) and sparsely					40.5	10					
					studded with fine grained					41.0	6					
					pyrite					41.5	11					
										42.0	14					
44.6	46.6				QUARTZITE	Sulphidic clay laminae				42.5	15					
					Brecciated, siliceous, dolomite	and fractures	524	45.1	46.6	43.0	8					
					cemented (originally carbonate					43.5	15					
					cemented, v fn gr quartz					44.0	8					
					sandstone grading to siltstone)					44.5	6					
					Calcite veining					45.0	19					
										45.5	11					
46.6	53.4				QUARTZITE	Minor sulphide veins				46.0	9					
					Very siliceous, non calcareous,	and fractures	525	49.6	51.1	46.5	19					
					black flecked (? biotite) with					47.0	5					
					sparse fine pyrite studs.					47.5	5					
					Originally very fine grained					48.0	4					
					to granular, lithic quartz					48.5	5					
					sandstone.					49.0	6					
					Quartz veins					49.5	5					
										50.0	5					
53.4	54.3				QUARTZITE	Minor pyrite veins				50.5	6					
					Brecciated, dolomite		526	53.3	54.3	51.0	6					
					cemented, common carbonate					51.5	7					
					veins. Originally carbonate					52.0	6					
					cemented, v fn gr quartz					52.5	6					
					sandstone.					53.0	5					
										53.5	20					
										54.0	20					

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Tenement Name Swift Ck NO 64/94
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CRA EXPLORATION PTY LIMITED

DRILL CORE LOG

CO-ORDINATES Local 5280E 10800N ~~575750mE~~ AZIMUTH 094° Mag DRILLERS ATE COMMENCED 1/4/96 DEPTH 61.6m HOLE No. DD96SW3

RL COLLAR 5324105mN INCLINATION 50° DRILL TYPE Gopher COMPLETED 13/4/96 CASING LEFT 75mm to 6m DPO No(s) 82160

Depth From (m)	Depth To (m)	Core Rec %	Rock Quality	Form Code	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	Dfrom (m)	Dto (m)	MagSus Depth	MagSus Value	Recovery From (M)	Recovery To (M)	Recovery Cut (M)	Recovery Rec (M)	Recovery Rec %
54.3	61.6			Oqul	SHALLOWING UPWARD SEQUENCE ("PAC")		SH72627	54.3	55.6	54.5	9					
					Light grey, laminated micrite		528	55.6	57.1	55.0	7					
					grading down to darker grey		529	57.1	58.6	55.5	17					
					possibly argillaceous, ? dolomitic	Minor patches of	530	58.6	60.1	56.0	8					
					limestones with coarse grained	replacement sulphide	531	60.1	61.6	56.5	5					
					dol arenite horizons	(pyrite)				57.0	4					
					Quite brecciated in places					57.5	2					
										58.0	4					
										58.5	5					
						Survey				59.0	7					
						Depth Azim Incl				59.5	15					
						60.1m : 099° Mag 46.5°				60.0	10					
										60.5	9					
										61.0	11					
										61.5	12					

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