

ANALYTICAL DATA FROM DRILL HOLES

DD84BB4, DD84BB5,

BEULAH AREA, EL 7/73

92-3300.

T.W. Dickson

ANALYTICAL DATA FROM DRILL HOLES DD84BB4, DD84BB5, BEULAH AREA, EL 7/73

T.W. Dickson

This report provides analytical data on two drill holes put down by CRA Exploration Pty Ltd in 1984. The core logs were previously reported in report TCR85-2330 but at the time of that report the assay data were not available and were not included in subsequent reports on the tenement.

Approximate AMG co-ordinates for the drill hole collars are:

DD84BB4	450 590 m E,	5 408 460 m N
DD84BB5	451 010 m E,	5 408 530 m N

The collar locations are plotted on plan TASH 2507 in volume 2 of TCR 85-2330.

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C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOGTENEMENT NAME EL 7/3 Sheffield SHEET 1 OF 5
No. 1PLAN - MAP REFERENCE Gog 1:25000CO-ORDINATES Line 2W 82m N DRILLERS Overland COMMENCED November 1984 DEPTH 218.8m HOLE No. DR0678
Azimuth 000 deg. INCLINATION - 57° DRILL TYPE Diamond COMPLETED November 1984 CASING LEFT..... DPO No(s) 31925P.2
1.53 C R A EXPLORATION
JUL 23 '92

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by <u>ALS</u>)							
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Au
7.0	9.8		NQ		Weathered broken core, rapidly alternating mid grey fine-medium grained poorly sorted sandstones and dark grey shale. 10-20cm units, pervasive CaCO ₃ alteration.	989501	7.0	10.0		75	25	160	1	1200	450	680	<3
						02	10.0	13.0		75	15	100	1	2600	680	290	3
						03	13.0	16.0		76	20	95	1	2200	570	330	<3
9.8	13.2		"		as above but fresh. traces of pyrite on cleavage. cleavage // bedding.	04	16.0	19.0		75	10	105	1	2700	640	1850	3
13.2	14.1		"		Med grained tuffaceous ss+ feldspar and lithic clasts to 3mm, pervasive and minor vesicled CaCO ₃ , pyrite on some cleavage faces.	05	19.0	22.0		68	20	85	1	1800	740	610	<3
						06	22.0	25.0		65	20	80	1	1050	750	240	10
14.1	17.5		"		Rapidly alternating poorly sorted sandstones and siltstones/shales, some bleached pyritic patches at 14.7m, minor lithic clasts to 3mm.	07	25.0	28.0		60	30	75	<1	1150	680	200	<3
						08	28.0	31.0		65	20	80	<1	1400	720	350	<3
						09	31.0	34.0		65	20	85	<1	850	720	340	<3
17.5	17.7		"		medium-coarse grained quartz bearing poorly sorted lithic ss+ with f.g. pyrite clasts/clots to 3mm (angular). pervasive CO ₃ alt.	10	34.0	37.0		65	20	90	<1	1700	740	340	<3
						11	37.0	40.0		75	25	85	1	1350	730	460	<3
17.7	20.35		"		alternating dirty sandstones and shales, minor pyrite on joint faces, minor disseminated pyrite in sandstones.	12	40.0	43.0		70	20	80	<1	980	720	260	3
						13	43.0	46.0		70	20	70	<1	1050	710	260	<3
20.35	20.60		"		poorly sorted dark grey medium grained lithic ss+ with trace - 1% clasts, pyrite and bleached carbonate rich patches to 15cm diameter joint plane pyrite.	14	46.0	49.0		65	15	75	<1	1600	640	350	<3
						15	49.0	52.0		70	20	70	<1	1550	740	230	<3
						16	52.0	55.0		55	20	60	<1	1050	820	270	<3
20.60	24.2		"		dark grey alternating shales and sandstones, 1mm-10cm beds, trace carbonate veins, minor joint plane pyrite.	17	55.0	58.0		90	15	70	<1	1150	620	640	3
						18	58.0	61.0		70	15	60	<1	900	740	720	<3
24.2	25.1		"		medium grained poorly sorted lithic ss+, 1% calc. py. cleavage 10° to bed.	19	61.0	64.0		120	40	50	<1	2400	730	990	<3
25.1	25.4		"		dark grey strongly foliated shale.	20	64.0	67.0		75	95	90	1	2200	1050	1150	<3
25.4	27.6		"		dark grey alternating trace pyrite ss+ and non pyritic (?) shales, joint plane pyrite.	21	67.0	70.0		65	25	61	<1	1750	700	980	<3
						22	70.0	73.0		60	65	55	<1	1450	640	1000	<3
27.6	29.0		"		Dark grey shale with minor sandy inter beds, strongly cleaved, pervasive CaCO ₃ .	23	73.0	76.0		65	25	105	<1	1850	720	1150	5
29.0	30.5		"		Alternating sandstones and shales, poorly slumped, carbonate veining.	24	76.0	79.0		50	20	100	<1	1700	650	1100	3
30.5	47.4		"		Dark grey-black alternating lithic ss+ and shale, ss+ dominant. bedding 1mm - 0.5m, 3mm pyrite vein acc with carbonate veins between 26.0 and 36.4m. Trace disseminated pyrite, pervasive CO ₃ . cleavage // bedding, shale clasts in sandstones. Sandstone graded coarse to fine in downhole direction.	25	79.0	82.0		75	25	105	<1	1400	660	1600	<3
						26	82.0	85.0		65	30	90	<1	720	660	2150	<3
						27	85.0	88.0		10	30	140	<1	910	810	4350	3
						28	88.0	91.0		10	10	150	<1	780	970	3150	3
			BQ			29	91.0	94.0		10	10	130	<1	1750	820	3900	<3
47.4	60.0		at 50.5m.		Homogeneity siltstone and shale, moderately cleaved. pervasive CaCO ₃ .	30	94.0	97.0		70	150	210	2	1750	1000	4200	5

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C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOGSHEET 2 OF 5
TENEMENT NAME EL7/73 Sheffield No.

PLAN - MAP REFERENCE Gog 1:25000

CO-ORDINATES Line 2W 82 m N DRILLERS Overland COMMENCED November 1984 DEPTH 218.8 m HOLE No. DD 56864
Azimuth 000 mag. INCLINATION -57° DRILL TYPE Diamond COMPLETED November 1984 CASING LEFT DPO No(s) 31925

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by A.L.S.)							
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Au
60.0	61.0		BQ		Bleached strongly carbonate altered lithic sandstone with very weak chlorite alt. trace pyrite disseminated and trace pyrite veinlets.	989531	97.0	100.0		40	90	65	<1	1800	940	3550	3
						32	100.0	103.0		10	15	35	1	510	440	3050	<3
61.0	63.15		"		Poorly sorted quartz rich sandstone, heavily CO ₂ alt., minor chlorite veinlets, fault zone at 62.8 m.	33	103.0	106.0		20	20	55	212	590	180	3850	3
						34	106.0	109.0		10	15	65	<1	330	600	3850	3
63.15	68.8		"		Thin bedded to laminated alternating sst, siltstone and shale, cleavage // bedding, trace pyrite. sst mid-dark grey, sh dark grey black.	35	109.0	112.0		20	30	50	1	610	530	3150	3
						36	112.0	115.0		20	35	100	<1	1100	1050	4400	3
68.8	76.1		"		Dominantly medium-fine lithic sst, some with trace disseminated pyrite, minor carbonate, veining often with associated pyrite.	37	115.0	118.0		15	20	120	<1	510	1100	3950	<3
						38	118.0	121.0		40	20	170	<1	1350	1100	4340	<3
76.1	76.9		"		Slumped sst and shale, interbedded sequence, minor carbonate veining, some with pyrite associated.	39	121.0	124.0		40	105	135	2	970	1250	7700	<3
						40	124.0	127.0		110	80	110	5	4400	970	3470	<3
76.9	77.65		"		Medium grained poorly sorted sst with minor chlorite veining.	41	127.0	130.0		160	720	1550	17	1300	500	1640	<3
77.65	77.8		"		Slumped sandstone/pebble conglomerate, pervasive CO ₂ alt.	42	130.0	133.0		25	65	160	<1	960	1450	6950	<3
77.8	79.2		"		Medium grained poorly sorted sandstone with minor chlorite veining.	43	133.0	136.0		25	80	185	1	1150	1550	7100	<3
79.2	84.2		"		Polymictic lithic sedimentary breccia, clasts to 5cm, slumped laminated fg. sst and silt clasts, bleached carbonate rich sst clasts.	44	136.0	139.0		20	30	170	<1	1150	2600	2300	<3
						45	139.0	142.0		20	25	145	1	750	1800	7500	<3
84.2	86.6		"		Iron rich bed for clasts in unit above, bleached quartzofeldspathic strongly carbonate altered, carbonate veined and minor chlorite veined sst. Chlorite vein stockwork at 86.6 m.	46	142.0	145.0		15	30	110	<1	970	3500	2000	<3
						47	145.0	148.0		10	35	120	1	490	5850	1850	<3
						48	148.0	151.0		10	35	100	<1	560	6850	1600	<3
86.6	94.7		"		light grey quartzofeldspathic medium grained sst, CO ₂ vein & pyrite.	49	151.0	154.0		20	30	115	<1	890	8100	2650	<3
94.7	99.4		"		Sandstone dominant alternating sst, silt and shale, moderately CO ₂ veined, pyrite veins at 97.4, 98.1.	50	154.0	157.0		20	20	230	<1	350	3500	1950	<3
						51	157.0	160.0		20	25	250	<1	270	2550	1800	<3
99.4	103.6		"		light grey med grained quartzofeldspathic sst with some slight reddening between 100.8 and 102.5 m.	52	160.0	163.0		20	30	180	<1	280	2250	1800	<3
						53	163.0	166.0		40	95	175	1	450	5250	1300	10
103.6	104.4		"		Polymictic sedimentary breccia with several types of sst clasts, silt and shale clasts, dark grey coloured breccia.	54	166.0	169.0		40	60	165	1	500	4550	1700	<3
						55	169.0	172.0		30	120	110	1	780	2400	7000	<3
104.4	105.3		"		light grey poorly sorted medium to coarse sst, lithic clasts to 5mm minor chlorite (?) veining.	56	172.0	175.0		55	15	105	1	1050	5200	6600	<3
						57	175.0	178.0		15	45	110	1	340	3950	1450	<3
105.3	105.9		"		Dark grey polymictic breccia with sandstone, siltstone and fg. interbedded coarse intrusive (?) clasts, CO ₂ alt principally in groundmass and veins.	58	178.0	181.0		20	25	135	1	230	2850	1050	3
						59	181.0	184.0		20	40	170	74	380	2950	1050	<3
105.9	108.3		"		Grey poorly sorted medium grained sst, minor chlorite veining.	60	184.0	187.0		20	65	135	1	260	3400	770	<3

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C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOGSHEET 4 OF 5
TENEMENT NAME EL 7/73 Sheffield
PLAN - MAP REFERENCE Gog 1:25000
DEPTH 218.8m HOLE No. DD84884
COMPLETED Nov 1984 DPO No(s) 31925CO-ORDINATES Line 2 W 82m N DRILLERS Overland
Azimuth 000° mag. INCLINATION -57° DRILL TYPE Diamond

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analyzed by <u>PLS</u>)									
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Am		
144.5	153.6		BQ		Pale yellow-yellow green fg sst with minor chlorite and trace CO ₂ veinlets, trace fuchsite.														
153.6	160.9		"		Med green fg sst, med-intense chlorite veinlets, trace fuchsite. Minor zones of weak pervasive hematization associated with fractures at 158.8-160.1m. Carbonate veins to 10mm wide.														
160.9	163.4		"		Grey green fg poorly sorted sst with minor chlorite veining, trace fuchsite.														
163.4	164.1		"		yellow bleached fg sst and major quartz carbonate vein, intense chlorite veining on margins of bleached zone.														
164.1	173.8		"		grey green fg poorly sorted sst with minor chlorite veining increasing to intense veining at bottom 80cm of interval.														
173.8	174.7		"		Yellow carbonate rich fg poorly sorted sst, minor to trace chlorite veins.														
174.7	176.1		"		Grey yellow-green yellow fg poorly sorted sst with moderate chlorite and minor carbonate veining.														
176.1	187.2		"		grey green fg med grained poorly sorted lithic sst minor chlorite and carbonate veining, sst chlorite clots to 2mm, minor hematization associated with fractures, minor bleached zones.														
187.2	193.2		"		Fine-med grained poorly sorted sst, dr. fuchsite, strongly reddened by pervasive hematite, minor beds of polymeric sedimentary breccia, minor chlorite veining. Qtz-calcite-dolomite(?) veins at 191.2m.														
193.2	195.6		"		Medium-coarse poorly sorted lithic sst. Moderately chlorite veined, locally intensely. Dominantly green coloured with minor zones of reddening. Reddening at expense of chlorite.														
195.6	198.4		"		Dark red brown polymeric lithic sedimentary breccia; clasts to 5cm, mainly up to 2cm, very strong pervasive carbonate alt.														
198.4	199.25		"		Green coloured fine grained sst - pebble breccia, minor chlorite vein, calcite-dolomite(?) veins common, calcite-barite veins at 199.1m, 10cm wide.														
199.25	207.4		"		Polymeric sedimentary breccia, clasts to 5cm, sst, s/sst, ch. clasts trace fuchsite, minor bleaching around carbonate veinlets.														

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

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SHEET 1 OF 5
TENEMENT NAME E.L. 7/73 Sheffield No.
PLAN - MAP REFERENCE Gog. 1:25000
DEPTH 207.0 HOLE No. D094885
CASING LEFT DPO No(s) 31935/1

COORDINATES Line 2E 210m N DRILLERS Overland COMMENCED Nov 1984
Azimuth 011° mag. INCLINATION -56° DRILL TYPE Diamond COMPLETED Nov 1984

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by A.L.S.)								
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Au	
0	8.6				Roller pre-collar													
8.6	8.87		NQ		Weathered iron stained core, v. ugly. Quartzose fine-medium grained poorly sorted sericitic sandstone.	989571	8.6	11.6		130	620	240	11	1650	3600	1100	3	
						72	11.6	14.6		50	260	230	4	1150	3500	1100	<3	
8.87	10.15		"		Slightly weathered quartz sericitic fine med grained poorly sorted sst. feldspar pseudomorphs to 8mm. Minor chlorite veinlets, moderate carbonate veinlets, trace - 1% vfg galena ass. with carbonate veinlets. Trace minor clasts of fuchsite to 5mm	73	14.6	17.6		40	65	200	3	1350	2600	780	<3	
						74	17.6	20.6		340	300	175	46	4550	4350	590	<3	
						75	20.6	23.6		680	920	250	76	4250	5300	620	<3	
10.15	10.25		"		Carbonate vein zone, clasts of sst, veinlets and clasts of pyrite, 1% vfg-med grained galena.	76	23.6	26.6		75	85	160	7	5250	2550	790	<3	
						77	26.6	29.6		50	240	120	7	2250	2350	620	<3	
10.25	10.5		"		Poorly sorted medium grained sericitic sst, feldspar pseudomorphs trace fuchsite, core angle 60°	78	29.6	32.6		155	1000	340	22	2950	3800	740	3	
						79	32.6	35.6		185	1250	850	6	2250	2000	870	<3	
10.5	10.6		"		Carbonate zone with pyrite to 5%, trace vfg galena	80	35.6	38.6		95	450	230	3	1400	3050	890	<3	
10.6	14.9		"		Poorly sorted med grained sandstone ± feldspar pseudomorphs. Sericitic. trace fuchsite. Minor chlorite and carbonate veining, some carbonate veining with pyrite selvages.	81	38.6	41.6		55	900	310	5	1300	2250	740	3	
						82	41.6	44.6		185	390	175	3	1700	2050	1300	15	
14.9	14.95		"		Grey and red chert horizon, carbonate veins minor pyrite, sericitic on joints.	83	44.6	47.6		95	95	120	3	4250	2300	750	3	
14.95	19.75		"		Grey quartz sericitic sandstone, poorly sorted, massive, trace minor fuchsite to 10mm, chlorite veinlets trace, minor carbonate veinlets some with tr. pyrite ass.	84	47.6	50.6		55	870	115	4	3850	1350	710	3	
						85	50.6	53.6		35	35	110	1	2650	1300	1700	3	
19.75	22.4		"		Quartz sericitic med grained sst with 10% carbonate veins. 19.9m - 10cm with pyrite, trace galena. 21.8m - 5cm chalcopyrite - galena - pyrite - carbonate vein	86	53.6	56.6		30	25	110	<1	1500	1150	2650	<3	
						87	56.6	59.6		20	60	160	5	1500	1650	4180	<3	
22.4	27.55		"		Med grained quartz sericitic sst, minor carbonate and carbonate - pyrite veins. Minor fuchsite clasts to 10mm.	88	59.6	62.6		40	40	100	1	1550	2400	970	<3	
						89	62.6	65.6		20	45	130	1	1850	1900	1100	5	
27.55	29.2		"		Strongly cleaved, broken sericitic quartz rock with major carbonate veining. Prob originally a sst. Chlorite net veining med-intense from 28.3m - 29.2m.	90	65.6	68.6		15	30	110	1	1250	1450	650	<3	
						91	68.6	71.6		30	45	135	1	1750	1450	2000	<3	
29.2	43.45		"		Dominantly yellowish grey quartz sericitic med grained sst. Minor zones of moderate-intense carbonate-chlorite net veining. Trace minor fuchsite as clasts and disseminated fractures controlled at 37.4m. Carbonate veins to 2cm thick with trace pyrite and galena at 38.1m, 38.6m. Trace chalcopyrite at 40.5m.	92	71.6	74.6		45	150	110	2	3050	1250	710	<3	
						93	74.6	77.6		35	55	175	1	1550	1300	1400	3	
						94	77.6	80.6		20	25	95	1	3100	1200	150	<3	
						95	80.6	83.6		25	30	100	1	3200	1050	580	<3	
43.45	47.4		"		Cleaved broken core, grey green red grained qtz sericitic sst, minor chlorite veinlets, carbonate veinlets 10%.	96	83.6	86.6		20	25	80	1	3800	1050	1100	<3	
						97	86.6	89.6		30	25	85	1	2500	1250	760	<3	
47.4	48.4	20%	"		Core recovery 20% carbonate vein fragments and pyrite, chlorite veinlet sst recovered.	98	89.6	92.6		20	30	110	1	7050	1300	570	<3	
						99	92.6	95.6		25	35	110	1	5850	1450	1000	3	

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C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOGSHEET 2 OF 5
TENEMENT NAME FL 7173 Sheffield

PLAN - MAP REFERENCE 909 1:25000

COORDINATES Line 2 E 210m N DRILLERS Overland COMMENCED Nov 1984 DEPTH 207.0 HOLE No DDBR 885
Azimuth 011° mag INCLINATION -56° DRILL TYPE Diamond COMPLETED Nov 1984 CASING LEFT DPO No(s) 3/925/1

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by P.L.S.)							
From (M)	To (M)									Ca	Pb	Zn	Ag	S	Mn	Ba	Au
48.4	57.5		NG		Dark grey green poorly sorted med grained sericitic sst. Chlorite clots to 3mm, Moderate chlorite veinlets, minor carbonate veins.	989600	95.6	98.6		25	20	20	1	5500	1350	800	3
						01	98.6	101.6		15	15	95	1	3250	1900	1850	3
57.5	62.15		-		Grey-yellow med grained poorly sorted sericitic sst. Moderate carbonate veining, trace fuchsite to 5mm.	02	101.6	104.6		30	15	130	1	3750	2050	3500	3
						03	104.6	107.6		25	30	180	1	4400	2450	640	<3
62.15	62.35		"		Pyritic carbonate rich sst and carbonate vein.	04	107.6	110.6		20	25	165	1	2450	1500	780	3
62.35	65.0		"		Dark grey green poorly sorted medium grained sst, minor carbonate veining, minor-moderate chlorite veining including net veined zone at 64.5-66.8m.	05	110.6	113.6		20	30	210	1	1450	1750	900	10
						06	113.6	116.6		20	45	145	1	1800	1150	2100	3
65.0	65.2		"		Vitric tuff pale brown weakly chlorite veined, minor carbonate veins Shards to 3mm.	07	116.6	119.6		25	60	125	1	1950	810	720	<3
						08	119.6	122.6		30	60	155	1	2100	940	610	3
65.2	75.0		-		Dark grey green poorly sorted med grained sst, minor zones of 3mm laminar carbonate clots, minor carbonate and med chlorite veining. Core angle 60°	09	123.6	125.6		35	60	165	1	2550	1250	1250	<3
					Pyrite with some carbonate veins	10	125.6	128.6		70	35	145	1	2050	1150	990	<3
						11	128.6	131.6		20	25	95	1	2250	1050	860	<3
75.0	78.0		"		Mid grey green somewhat bleached looking medium grained poorly sorted sst. Chloritic clots to 3mm prominent minor carbonate and chlorite veinlets.	12	131.6	134.6		25	25	85	1	2050	1150	620	<3
						13	134.6	137.6		15	20	125	<1	1300	2200	720	3
78.0	80.1		"		Dark grey green poorly sorted medium-course sst, minor chlorite veinlets, minor zones of bleaching sst. with carbonate veins which have little or no associated pyrite. Trace very fine veinlet pyrite.	14	137.6	140.6		15	25	95	<1	2850	1350	1200	<3
						15	140.6	143.6		15	25	125	<1	550	1150	900	<3
80.1	87.9		"		Medium grey green polystratified sedimentary breccia with sandy interbeds to 90cm thick. Clasts max size 10cm, usually less than 3cm. Dominantly sedimentary clasts - sst and minor vitric tuff (P). Some laminated clasts. Some clasts with fuchsite grains. Trace carbonate veining. Mainly generally weakly pyritic - vfg pyrite. Core angles 80.5m-80° 84.5m-65°, 85.3m 60°	16	143.6	146.6		15	30	100	2	1150	1350	720	3
						17	146.6	149.6		15	20	95	<1	1250	1400	1250	<3
						18	149.6	152.6		55	25	115	<1	1400	1300	910	<3
						19	152.6	155.6		25	40	85	<1	990	1050	640	<3
						20	155.6	158.6		35	30	85	1	2400	980	760	<3
						21	158.6	162.0		10	25	140	<1	210	920	800	<3
						22	162.0	166.4		15	20	85	<1	190	950	730	<3
87.9	88.75		"		Mid grey green med-course poorly sorted sst. Moderate chlorite veinlets with trace associated pyrite. Core angles 88.75m-70°	23	166.4	169.4		20	20	90	<1	140	1050	520	3
						24	169.4	172.4		10	25	75	<1	170	1350	590	<3
88.75	90.0		"		Yellow-brown vfg vitric tuff shards to 3mm. Small zones of carbonate clots to 4mm scattered with zonal structure	25	172.4	175.4		15	25	70	<1	190	930	740	<3
						26	175.4	178.4		15	25	75	<1	190	1200	650	3
90.0	93.55		"		Medium grey green poorly sorted med grained sst. Small brecciated zones with pale green vitric tuff zone 90.4-91.4. Slt pyrite in fault. Trace fuchsite.	27	178.4	181.4		20	40	120	<1	720	1250	2150	<3
						28	181.4	184.4		15	25	80	<1	260	1150	950	3
						29	184.4	187.4		30	50	120	<1	1200	1300	760	<3

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

055010

SHEET 3 OF 5

TENEMENT NAME FL 7/23 Sheffield

PLAN - MAP REFERENCE Crug 1:25000

CO-ORDINATES Line 2E 210m N DRILLERS Overland COMMENCED Nov 1984

DEPTH 207.0 HOLE No DD 84 98 5

Azimuth 011 deg INCLINATION -56° DRILL TYPE Diamond COMPLETED Nov 1984

CASING LEFT DPO No(s) 31925

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analyzed by <u>ALS</u>)							
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Al
93.55	98.35		NQ		20 cm of polymictic breccia followed by grey yellow - gran sericitic ss+ and ss+ breccia, dark matrix with 1-2% pyrite. Minor pyrite-chlorite carbonate veinlets, Trace fuchsite to 5mm.	989630	187.4	190.4		135	55	105	<1	1300	1300	530	3
						31	190.6	193.4		45	50	100	<1	1500	1500	580	<3
						32	193.4	197.6		55	30	100	<1	1150	1300	590	<3
98.35	98.50		"		Pale yellow brown vitric tuff with glass shards. v.fg matrix shade 5mm	33	197.6	200.4		35	65	140	<1	1150	1200	470	5
18.5	101.35		"		Yellow green poorly sorted medium grained lithic feldspathic (pseudomorph) ss+. Trace pyrite veinlets and minor chlorite veinlets, minor carbonate veinlets. Occasional trace disseminated pyrite.	34	200.6	203.4		45	50	145	<1	340	1100	580	5
						35	203.4	207.0		60	55	155	<1	580	1250	370	<3
101.35	102.65		BQ		Pale yellow brown to green highly sericitic vitric tuff. Shards to 3mm. Chlorite and carbonate veining at 102m. - minor	Detection Limits				2	5	2	1	10	5	10	3
			at							PPR							PPR
102.65	103.9		102.6		Med-fg, poorly sorted mid grey green sericitic ss+. Dominantly brecciated with dark chloritic matrix. Veinlet pyrite throughout minor trace chalcopyrite, Minor carbonate veining.												
103.9	104.7		"		Pale yellow brown vitric tuff (sericitic) with shards. Major carbonate veining, some with associated chlorite and pyrite.												
104.7	106.45		"		Poorly sorted medium to fg. granitic ss+ with minor polymictic sedimentary breccia. Clasts of ss+ and intermediate fg. vitric, some reddened clasts. Minor carbonate veining, moderate chlorite veining, some with 5% pyrite over small intervals. Minor brecciation of ss+.												
106.45	107.75				Pale yellow brown - medium green vitric tuff, shards to 4mm. Contains 6 cm diamite ss+ clast, pressure shadow shows undeformed tuff												
107.75	110.4				Grey green med-fine grained very poorly sorted ss+, minor sericite. Possible sandy tuff. Minor - moderate chlorite veins, minor carbonate veins, trace fuchsite.												
110.4	113.15				Green - green yellow moderately sericitic vitric tuff, shards to 5mm. Major carbonate speckling and veining. Minor pyrite veinlets 110.4 - 110.45												
113.15	123.6				Dominantly green, carbonate red medium sand sized feldspathic (pseudomorph) very poorly sorted sandy tuff(?) Fine down hole. Brecciated at 119.4 - 120m, pyritic matrix, minor carbonate and chlorite with pyrite veining												

JUL 26, 1984 10:01 AM CR.A. EXPLORATION

055011

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

SHEET 4 OF 5
TENEMENT NAME EL 7/73 Sheffield
PLAN - MAP REFERENCE Gog 1:25000
DEPTH 207.0m HOLE No DDP 805
COMPLETED Nov 1984 DPO No(s) 21925

COORDINATES Line 2E 210m N DRILLERS Overland COMMENCED Nov 1984
Azimuth 011° mag INCLINATION -56° DRILL TYPE Diamond

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by PLS)									
From (M)	To (M)									Cu	Pb	Zn	Ag	S	Mn	Ba	Au		
123.6	123.75		BR		Yellow brown vitric tuff shales to 10mm, sericitic														
123.75	124.55		"		Fine-mud sand size very poorly sorted feldspar (pseudomorph) tuff (?) Mod chlorite veining														
124.55	124.7		"		Yellow brown vitric tuff, sericitic, shales to 10mm														
124.7	126.2		"		Pink brown sfg. opt. moderately sericitic, fine shales, brecciated with pyrite-chlorite veinlets														
126.2	127.25		"		Vitric tuff (5cm) overlain by matrix poor green vitric tuff (Core angle 60°)														
127.25	129.5		"		Matrix rich sandy tuff, some shales, brecciated with chlorite veinlets														
129.5	134.15		"		Sandy tuff with shalve leaning and brecciated zones (bleached) Pyrite in chlorite veinlets in breccia														
134.15	134.3		"		Vitric tuff, very small shales, pink-brown														
134.3	134.6		"		Interbedded sandy and vitric tuffs														
134.6	136.8		"		Vitric tuff and feldspathic vitric tuff, pale brown, minor pyrite-carbonate veining														
136.8	139.1		"		Mediu sand sized sediment with minor clasts of reddened sst. Trace fuchsite - clasts and veining (mudstone) 137.7-138m														
139.1	140.2		"		fault zone in brown vitric tuff														
140.2	144.35		"		Sandy matrix poor shalve bearing feldspathic tuff with secondary breccia zone from 145.0-145.4m. Minor chlorite-pyrite vein, Tr Chlorite														
144.35	144.6		"		fault zone in brown vitric tuff														
144.6	145.4		"		Sandy tuff as in 140.2-144.35m														
145.4	148.8		"		Fault zone, very broken core, fragments of vitric tuff, sandy tuff, carbonate vein. Trace fuchsite														
148.8	152.5		"		Pink brown to grey green to green sandy tuffs, All very poorly sorted, variable amount of matrix, Trace pyrite, minor chlorite, minor carbonate veining														
152.5	153.15		"		Intermediate dyke, nonfoliated, phenos (pseudomorph) of feldspar and pyroxene. bleached margins, strongly chloritized downward margin. Strongly altered														

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JUL 23 '92 18:02 C R A EXPLORATION

