

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

SHEET No.

TENEMENT NAME DOONAH No.

PLAN - MAP REFERENCE.....

CO-ORDINATES 5362635 N 830435 E AZIMUTH 310 TRUE (298°M) DRILLERS D.K. PARRY COMMENCED 10-9-91 DEPTH 268.01 HOLE No. RR 81 DC 13

RL COLLAR 2/4 m INCLINATION -45° DRILL TYPE BOYLES 37 COMPLETED 27-9-91 CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	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)										Sn	W	Cu	Pb	Zn	Ag			
0	15.0		N9		TRICONE (Collo in volcanics)		974301	12.0	21.0		55	-	55	65	405	-			
12.0	32.5				VOLCANICS	Vesicular porcelanites	302	21.0	27.0		15	-	75	30	360	-			
32.5	43.6				GREY SHALE	Well bedded. Thin pyrite, quartz veins. Dark grey	303	27.0	32.5		10	-	110	45	465	-			
						43.0-43.6	304	32.5	36.0		10	25	95	90	765	-			
							305	36.0	40.0		10	15	35	55	160	-			
43.6	44.5				QUARTZITE	Microcon. shale partings	306	40.0	43.6		6	-	30	50	130	-			
44.5	44.9				GREY SHALE		307	43.6	45.2		-	190	460	85	580	-			
44.9	45.2				QUARTZITE		308	45.2	50.0		7	45	145	160	270	-			
45.2	47.4				GREY SHALE	Thin fold closure	309	50.0	52.7		15	55	105	115	205	0.5			
47.4	47.9				QUARTZITE	Quartz, carbonate veins	310	52.7	56.4		25	80	175	60	250	1.0			
47.9	50.0				BLACK SHALE	Thin quartz veins	311	56.4	59.9		50	45	170	685	305	17.0			
50.0	50.7				QUARTZITE	Thin grey shale Quartz veins	312	59.9	64.5		35	80	250	120	270	1.5			
							CUT 313	64.5	65.3		680	-	510	15%	2650	295			
50.7	51.4				GREY SHALE		CUT 314	65.3	66.1		150	-	135	230	435	275			
51.4	52.7				QUARTZITE		315	66.1	69.5		2.0	120	190	120	180	1.0			
52.7	53.8				GREY SHALE		316	69.5	73.5		15	35	85	110	160	0.5			
53.8	54.8				QUARTZITE		317	73.5	76.5		10	40	45	80	205	0.5			
54.8	55.6				GREY SHALE	Carbonate veins	318	76.5	79.5		10	85	265	130	535	0.5			
55.6	56.4				QUARTZITE		319	79.5	82.5		15	70	150	75	280	-			
56.4	57.3				GREY SHALE	Quartz & carbonate veins	320	82.5	85.5		6	20	45	45	80	-			
57.3	58.5				QUARTZITE	" "	321	85.5	88.5		15	-	25	110	205	-			
58.5	59.9				GREY SHALE		322	88.5	91.5		15	-	35	110	145	-			
59.9	82.9				QUARTZITE/ MINOR GREY SHALE	64.5-66.0 Galena conc. with carbonate veins	323	91.5	94.3		10	-	30	85	115	-			
							CUT 324	94.3	94.5		600	-	960	7.65%	4650	295			
82.9	97.5				GREY SHALE/ MINOR QUARTZITE	94.3-94.5 Galena + pyrite conc with carbonate veins	325	94.5	97.5		-	-	35	80	120	-			
							326	97.5	100.5		15	30	85	40	160	-			
97.5	98.5				QUARTZITE		327	100.5	103.5		6	40	120	45	165	-			
98.5	119.8				GREY SHALE/ MINOR QUARTZITE	Some slumping Occasional quartz, sulfide veining	328	103.5	106.5		6	60	75	160	180	-			
							329	106.5	109.5		8	45	130	370	275	2.0			
							330	109.5	112.5		9	60	90	50	140	-			
119.8	123.3				QUARTZITE		331	112.5	115.5		15	-	30	155	435	-			

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

SHEET No. 2

TENEMENT NAME DONAH No.

PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DP 81 OC 13

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	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)										Sn	W	Cu	Pb	Zn	Ag		
123.3	142.5				GREY SHALE / MINOR QUARTZITE		974332	115.5	118.5		5	-	25	20	205	-		
142.5	146.7				BRECCIA	Fragments of vesicular volcanics in grey shale	333	118.5	121.5		10	-	40	95	195	1.0		
							334	121.5	124.5		7	10	50	15	130	-		
146.7	150.3				GREY SHALE	Minor siderite veins	335	124.5	127.5		6	20	60	55	120	-		
150.3	159.9				BLACK SHALE / MINOR GREY SHALE	Abundant siderite, quartz veins, often pyritic.	336	127.5	130.5		3	-	50	10	95	-		
						Some bedded pyrite	337	130.5	133.5		10	30	70	230	1150	0.5		
						Brecciated in part.	338	133.5	136.5		8	35	100	40	170	-		
159.9	190.0				VOLCANICS	Vesicular generally (Some sections non-vesicular)	339	136.5	139.5		5	-	40	40	205	-		
							340	139.5	142.5		10	25	70	55	130	-		
							341	142.5	146.7		4	-	70	75	160	-		
							342	146.7	150.5		35	15	50	200	135	3.0		
190.0	191.7				GREY SHALE		343	150.5	153.5		100	15	75	170	355	4.0		
191.7	192.3				VOLCANICS		344	153.5	156.5		8	30	130	125	230	2.5		
192.3	215.3				GREY SHALE	Well bedded. Variable intersection angle	345	156.5	160.5		-	10	100	125	355	1.5		
						207.7 - 208.0 Galena in siderite veins	346	160.5	163.5		8	-	85	105	260	1.0		
							347	163.5	166.5		5	-	60	-	105	-		
							348	166.5	169.5		10	-	75	-	115	-		
15.3	217.0				VOLCANICS	Vesicular	349	169.5	172.5		-	-	85	-	115	-		
217.0	217.7				GREY SHALE	Quartz, siderite veins	350	172.5	175.5		5	-	55	-	140	-		
217.7	218.5				GREY SHALE / VOLCANICS	Brecciated	351	175.5	178.5		8	-	55	15	445	-		
218.5	219.8				GREY SHALE	219.3 - 219.5 Galena in siderite veins	352	178.5	181.5		10	-	60	60	210	-		
							353	181.5	184.5		7	-	60	60	130	-		
219.8	240.5				VOLCANICS / GREY SHALE	Brecciated. Minor quartz veins	354	184.5	187.5		10	-	60	35	145	-		
							355	187.5	190.5		7	10	75	160	125	-		
240.5	248.9				GREY SHALE	Minor pyrite, quartz veins	356	190.5	193.5		8	20	70	25	310	-		
							357	193.5	196.5		10	10	35	230	265	1.0		
248.9	249.7				GREY SHALE / VOLCANICS	Brecciated	358	196.5	199.5		6	-	40	15	145	-		
249.7	252.4				GREY SHALE	Minor pyrite, quartz, siderite	357	199.5	202.5		-	100	230	45	310	-		
							360	202.5	205.5		-	130	230	65	330	-		
							361	205.5	207.7		10	140	200	160	455	1.0		
							CUT 362	207.7	208.0		160	-	1250	295	1750	95.0		

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

SHEET No. 3

TENEMENT NAME ORNAH No.

PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD 910C13

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. (M)	Core Size	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)										Sn	W	Ca	Pb	Zn	Ag				
152.4	256.2				GREY-BLACK SHALE/VOLCANICS	Brecciated. Quartz - siderite veins. Thin pyrite	974363	208.0	211.5		6	95	155	150	300	1.0				
							364	211.5	214.5		7	80	125	55	195	-				
							365	214.5	217.5		10	70	160	165	370	2.5				
256.2	268.0				QUARTZITE	Minor pyrite. Quartz - siderite veins. Core loss.	366	217.5	219.3		20	70	185	1350	2000	6.0				
							367	219.3	219.5		170	-	365	8400	378	44.5				
							368	219.5	223.5		10	40	165	275	835	2.0				
							369	223.5	226.5		5	55	145	85	265	-				
					268.0m END OF HOLE		370	226.5	229.5		3	20	130	65	190	-				
							371	229.5	232.5		30	55	120	130	1300	1.5				
							372	232.5	235.5		6	50	185	120	280	1.0				
							373	235.5	238.5		10	15	115	75	420	1.0				
							374	238.5	241.5		5	20	80	85	150	1.0				
							375	241.5	244.5		9	80	170	150	295	2.0				
							376	244.5	247.5		8	110	225	70	340	1.0				
							377	247.5	250.5		10	65	140	85	235	1.0				
							378	250.5	253.5		15	55	95	115	95	3.0				
							379	253.5	256.2		20	75	145	440	205	3.5				
							380	256.2	268.0		15	360	470	115	480	1.0				
						Repeat assays of 16/3	313								14.3%	520				
							362								2.74%	1925	111			
							367								9800	403%	44			