The shell Company of Australia Limited
METALS DIVISION

DRILL LOG SHEET

PROJECT : REDWATER

Hole No : RD 4

COLLAR CO-ORDINATES : 6100mN/10500mE

LOCATION CODE : MQ 04

COLLAR R.L. : 443m

LOCATION :

MAP/PHOTO REFERENCE :

DATE STARTED	14-12-80	HOLE SIZE		FROM	TO	TOTAL	CORE STORAGE	
DATE FINISHED	10- 2-81	NON CORE					Nº OF TRAYS	48
TOTAL DEPTH	349.4m						SAMPLE STORAGE	
LOGGED BY	L.D. Banwell	CORE					ASSAY LAB.	Amdel
CONTRACTOR	A.D.D.	NQ		0	100m	100m	ASSAY REPORTS	
RIG	Mindrill F30	BQ		100m	349.4m	249.4m		
DRILL CREW	M. Blight	CASING					MIN. & PET. LAB.	
	N. Bellinger	NQ		0	100m	100m	MIN. & PET. REPORTS	
		CASING LEFT	PVC piping	0	80m	80m		

HOLE SURVEY DATA

INSTRUMENT :

DEPTH	INSTRUMENT INCL.	INSTRUMENT AZ.	ACID ETCH INCL.	ACID ETCH AZ.	REMARKS
COLLAR	60°	080°			
150m	61°	073°			
220m	59°	-			
265m	58°	057°			
311m	60°	068°			
349m	59°	077°			

GRAPHIC/LETTER SYMBOL LOGGING KEY

STRUCTURE / ALTERATION CODE

- B BEDDING
- J JOINTING
- C CLEAVAGE
- F FOLIATION
- sh SHEARING
- q QUARTZ VEINS
- O OXIDATION

DRILLING SUMMARY :

PROJECT: REDWATER [redacted] DRILL [redacted] SA[redacted]NG R[redacted] : [redacted] HOL[redacted] RD [redacted]

from	To	Interval (m)	Core Rec'd	% Rec	Sample No.	Compos No.	Assays Sn	W	CaF_2	Cu	Pb	Zn	Mo	Au	Weighted Assays/Ratios	% Estimates	Core Angles	Alt	T.S P.S	Description
0.00	11.22	11.22	9.08	81																Moderately weathered Tertiary basalt.
11.22	20.64	9.42	6.51	69																Palaeosoil.
20.64	60.53	39.89	39.89	100																Tertiary basalt with abundant zeolite veins and geoids.
60.53	65.73	5.20	4.26	82																Weathered Tertiary basalt.
65.73	82.03	16.30	6.89	42																*Tertiary deep lead deposits, incl. greybilly, silt, to congl.*
82.03	86.14	4.11	3.42	83																Clayey palaeosoil.
86.14	96.00	9.86	8.41	84	1401		<1	<50		8	15	20	<3	0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
96.00	106.00	10.00	9.04	90	1402		<1	<50		4	25	40	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
106.00	116.00	10.00	9.48	95	1403		<1	<50		2	20	<20	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
116.00	126.00	10.00	6.89	69	1404		<1	<50		3	30	40	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
126.00	136.00	10.00	8.21	82	1405		<1	<50		2	10	<20	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
136.00	146.00	10.00	8.05	80	1406		<1	<50		<1	15	<20	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
146.00	156.00	10.00	7.79	78	1407		<1	<50		3	25	40	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
156.00	166.00	10.00	9.10	91	1408		<1	<50		3	15	40	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
166.00	176.00	10.00	8.91	89	1409		<1	<50		2	15	<20	<3	0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
176.00	186.00	10.00	8.48	85	1410		<1	<50		4	15	40	<3	0.02						LIMESTONE - recrystallized, with occassional clayey cavefill.
186.00	196.00	10.00	8.67	87	1411		<1	<50		2	60	<20	<3	0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
196.00	206.00	10.00	9.90	99	1412		<1	<50		2	60	150	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
206.00	216.00	10.00	10.00	100	1413		<1	<50		4	40	80	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
216.00	226.00	10.00	9.84	98	1414		<1	<50		3	40	250	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
226.00	236.00	10.00	10.00	100	1415		<1	<50		3	30	40	<3	<0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
236.00	246.00	10.00	10.00	100	1416		<1	<50		3	20	250	<3	0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
246.00	256.00	10.00	10.00	100	1417		<1	<50		3	80	150	<3	0.05						LIMESTONE - recrystallized, with occassional clayey cavefill.
256.00	267.20	11.20	11.20	100	1418		<1	<50		4	60	80	<3	0.01						LIMESTONE - recrystallized, with occassional clayey cavefill.
267.20	269.20	2.00	2.00	100	1432	C1	36	<10		110	20	65	<1	<0.05						SKARN - garnet-diopside.
269.20	271.20	2.00	2.00	100	1433	C1	22	10	20	8	15	70	<1	<0.05						SKARN - garnet-diopside.
271.20	272.70	1.50	1.50	100	1434	C1	18	<10		16	25	100	<1	<0.05						SKARN - garnet-diopside.
272.70	274.30	1.60	1.60	100	1435	C1	40	<10		12	30	160	<1	<0.05						SKARN - garnet-diopside.
274.30	275.80	1.50	1.50	100	1436	C2	18	15		10	35	120	<1	<0.05						SKARN - garnet-diopside - brecciated.
275.80	276.10	.30	.30	100	1419		<1	<50		60	2	40	<3	<0.01						*BASALT*
276.10	278.10	2.00	2.00	100	1437	C2	26	<10		4	55	110	<1	<0.05						SKARN - garnet-diopside - brecciated.
278.10	279.40	1.30	1.30	100	1438	C2	32	<10	.20	30	25	65	<1	<0.05						SKARN - garnet-diopside.
279.40	279.50	.10	.10	100	1420		<1	<50		80	15	200	<3	0.06						BASALT.
279.50	280.10	.60	.60	100	1438	C2	32	<10		30	25	65	<1	<0.05						SKARN - garnet-diopside - brecciated.
280.10	282.10	2.00	2.00	100	1439	C2	20	<10		75	20	100	<1	<0.05						SKARN - garnet-diopside - brecciated.
282.10	283.10	1.00	1.00	100	1421		<1	<50		60	1	<20	<3	<0.01						BASALT
283.10	283.30	.20	.20	100	1440	C3	12	<10		24	15	70	<1	<0.05						SKARN - garnet-diopside - brecciated.
283.30	283.80	.50	.50	100	1422		<1	<50		60	4	<20	<3	0.02						BASALT.
283.80	285.30	1.50	1.50	100	1441	C3	4	<10	.20	12	15	75	<1	<0.05						SKARN - garnet-diopside - brecciated.
285.30	286.80	1.50	1.50	100	1442	C3	16	10		8	20	100	<1	<0.05						SKARN - garnet-diopside - brecciated.
286.80	288.20	1.40	1.40	100	1443	C3	6	<10		8	10	60	<1	<0.05						SKARN
288.20	289.30	1.10	1.10	100	1423		<1	<50		80	6	<20	<3	<0.01						BASALT
289.30	290.80	1.50	1.50	100	1444	C4	16	10		6	15	85	<1	<0.05						SKARN - brecciated
290.80	292.20	1.40	1.40	100	1445	C4	12	<10	.16	24	30	160	<1	<0.05						SKARN
292.20	292.80	.60	.60	100	1475	C4	<4	25		26	5	110	<1	<0.05						SKARN
292.80	294.40	1.60	1.60	100	1424		<1	<50		60	10	40	<3	<0.01						BASALT
294.40	296.40	2.00	2.00	100	1446	C5	10	<10		4	20	80	<1	<0.05						SKARN
296.40	298.40	2.00	2.00	100	1447	C5	6	<10		<2	40	60	<1	<0.05						SKARN
298.40	300.40	2.00	1.99	99	1448	C5	6	<10	.12	2	70	130	<1	<0.05						SKARN
300.40	302.40	2.00	1.99	99	1449	C5	6	<10		<2	35	65	<1	<0.05						SKARN
302.40	304.40	2.00	2.00	100	1450	C5	4	<10		2	25	60	4	<0.05						SKARN
304.40	305.50	1.10	1.10	100	1451	C5	<4	<10		<2	20	48	2	<0.05						SKARN
305.50	306.45	.95	.95	100	1425		<1	<50		60	1	40	<3	<0.01						BASALT
306.45	306.75	.30	.30	100	1452	C6	4	<10		2	25	55	2	<0.05						SKARN
306.75	306.90	.15	.15	100	1476		<1	<50		60	6	<20	<3	<0.01						*BASALT*
306.90	307.05	.15	.15	100	1453	C6	4	<10	.12	<2	65	110	1	<0.05						SKARN
307.05	308.15	1.10	1.10	100	1427		<1	<50		60	<1	<20	<3	<0.01						BASALT
308.15	309.05	.90	.90	100	1454	C6	<4	<10		14	45	90	2	<0.05						SKARN
309.05	313.57	4.52	4.52	100	1428		<1	<50		60	2	<20	3	<0.01						BASALT
313.57	315.50	1.93	1.92	99	1455	C7	8	<10		16	25	40	3	<0.05						LIMESTONE - extensively recrystallized
315.50	317.50	2.00	2.00	100	1456	C7	6	<10		8	50	70	7	<0.05						LIMESTONE
317.50	319.50	2.00	2.00	100	1457	C7	6	<10	.20	8	45	190	3	<0.05						LIMESTONE

Sheet of Sheets

[redacted] PROJ [redacted] RE [redacted] [redacted] [redacted] [redacted] [redacted] / [redacted] [redacted] IAM [redacted] RILL

From	To	Interval (m)	Core Rec'd	% Rec.	Sample No.	Compos No.	Assays								weighted As	
							Ag	As	Ni	Cr	Mn	Ti	Bi	Ba		
0.00	11.22	11.22	9.08	81												
11.22	20.64	9.42	8.53	89												
20.64	60.53	35.89	38.89	100												
60.53	65.73	5.20	4.26	82												
65.73	82.03	16.30	6.89	42												
82.03	86.14	4.11	3.42	83												
86.14	96.00	9.86	8.41	84	1401		.1	< 50	30	60	300	1000	< 1	400		
96.00	106.00	10.00	9.04	90	1402		< .1	< 50	15	20	250	600	< 1	< 200		
106.00	116.00	10.00	9.48	95	1403		< .1	< 50	20	20	300	200	< 1	200		
116.00	126.00	10.00	6.89	69	1404		.8	< 50	5	20	500	400	< 1	400		
126.00	136.00	10.00	8.21	82	1405		.1	< 50	15	40	250	400	< 1	200		
136.00	146.00	10.00	8.05	80	1406		< .1	< 50	5	20	100	300	< 1	< 200		
146.00	156.00	10.00	7.79	78	1407		.1	< 50	30	60	150	600	< 1	200		
156.00	166.00	10.00	9.10	91	1408		< .1	< 50	40	60	200	800	< 1	200		
166.00	176.00	10.00	8.91	89	1409		.6	< 50	40	60	500	600	< 1	200		
176.00	186.00	10.00	8.48	85	1410		< .1	< 50	20	60	150	400	< 1	< 200		
186.00	196.00	10.00	8.67	87	1411		< .1	< 50	20	40	150	400	< 1	< 200		
196.00	206.00	10.00	9.90	99	1412		< .1	< 50	< 5	40	200	300	< 1	600		
206.00	216.00	10.00	10.00	100	1413		< .1	< 50	5	40	200	400	< 1	< 200		
216.00	226.00	10.00	9.84	98	1414		< .1	< 50	5	40	300	600	< 1	< 200		
226.00	236.00	10.00	10.00	100	1415		< .1	< 50	10	60	300	600	< 1	200		
236.00	246.00	10.00	10.00	100	1416		< .1	< 50	5	60	250	300	< 1	200		
246.00	256.00	10.00	10.00	100	1417		< .1	< 50	< 5	20	300	300	< 1	< 200		
256.00	267.20	11.20	11.20	100	1418		< .1	< 50	20	40	200	400	< 1	200		
267.20	269.20	2.00	2.00	100	1432	C1	< 1	170	10	40	1500	1500	20	< 200		
269.20	271.20	2.00	2.00	100	1433	C1	< 1	150	15	40	1500	1500	10	< 200		
271.20	272.70	1.50	1.50	100	1434	C1	< 1	150	15	40	1500	1500	10	< 200		
272.70	274.30	1.60	1.60	100	1435	C1	< 1	170	15	40	1500	1500	10	< 200		
274.30	275.80	1.50	1.50	100	1436	C2	< 1	160	40	20	1000	2000	20	< 200		
275.80	276.10	.30	.30	100	1419		< .1	< 50	200	200	2000	> 1%	< 1	800		
276.10	278.10	2.00	2.00	100	1437	C2	< 1	140	20	20	1000	2000	20	< 200		
278.10	279.40	1.30	1.30	100	1438	C2	< 1	20	15	20	1000	2000	10	< 200		
279.40	279.50	.10	.10	100	1420		.2	< 50	100	200	200	> 1%	< 1	200		
279.50	280.10	.60	.60	100	1438	C2	< 1	20	15	20	1000	2000	10	< 200		
280.10	282.10	2.00	2.00	100	1439	C2	< 1	50	15	20	1000	2000	10	< 200		
282.10	283.10	1.00	1.00	100	1421		< .1	< 50	150	200	2000	> 1%	< 1	400		
283.10	283.30	.20	.20	100	1440	C3	< 1	20	25	20	800	1000	10	< 200		
283.30	283.80	.50	.50	100	1422		.1	< 50	150	200	1000	> 1%	< 1	400		
283.80	285.30	1.50	1.50	100	1441	C3	< 1	80	30	20	800	1000	10	< 200		
285.30	286.80	1.50	1.50	100	1442	C3	< 1	80	10	20	800	1000	10	< 200		
286.80	288.20	1.40	1.40	100	1443	C3	< 1	< 20	20	20	800	1000	10	< 200		
288.20	289.30	1.10	1.10	100	1423		.1	< 50	150	200	1500	> 1%	< 1	600		
289.30	290.80	1.50	1.50	100	1444	C4	< 1	< 20	15	60	800	3000	10	< 200		
290.80	292.20	1.40	1.40	100	1445	C4	< 1	< 20	15	60	800	3000	10	< 200		
292.20	292.80	.60	.60	100	1475	C4	< 1	< 20	160	60	800	3000	10	< 200		
292.80	294.40	1.60	1.60	100	1424		.1	< 50	200	200	800	> 1%	< 1	600		
294.40	296.40	2.00	2.00	100	1446	C5	< 1	< 20	15	20	400	800	10	< 200		
296.40	298.40	2.00	2.00	100	1447	C5	< 1	< 20	15	20	400	800	10	< 200		
298.40	300.40	2.00	1.99	99	1448	C5	< 1	< 20	10	20	400	800	10	< 200		
300.40	302.40	2.00	1.99	99	1449	C5	< 1	< 20	10	20	400	800	10	< 200		
302.40	304.40	2.00	2.00	100	1450	C5	< 1	< 20	10	20	400	800	10	< 200		
304.40	305.50	1.10	1.10	100	1451	C5	< 1	< 20	15	20	400	800	10	< 200		
305.50	306.45	.95	.95	100	1425		< .1	< 50	200	200	1500	> 1%	< 1	600		
306.45	306.75	.30	.30	100	1452	C6	< 1	< 20	10	20	250	1000	10	< 200		
306.75	306.90	.15	.15	100	1426		< .1	< 50	200	250	1500	> 1%	< 1	400		
306.90	307.05	.15	.15	100	1453	C6	< 1	< 20	20	< 20	250	1000	10	< 200		
307.05	308.15	1.10	1.10	100	1427		< .1	< 50	200	200	2000	> 1%	< 1	200		
308.15	309.05	.90	.90	100	1454	C6	< 1	< 20	15	< 20	250	1000	< 10	< 200		
309.05	313.57	4.52	4.52	100	1428		.2	< 50	200	200	1000	> 1%	< 1	400		
313.57	315.50	1.93	1.92	99	1455	C7	< 1	< 20	5	20	300	800	10	< 200		
315.50	317.50	2.00	2.00	100	1456	C7	< 1	< 20	20	20	300	800	10	< 200		
317.50	319.50	2.00	2.00	100	1457	C7	< 1	< 20	20	20	300	800	10	< 200		

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THE SHELL COMPANY OF AUSTRALIA LTD. - METALS DIVISION

PROJECT: RED[redacted] [redacted] DRILL LOG & SAMPLING RECORD [redacted] HOLE [redacted]RD 4[redacted]

From	To	Interval (m)	Core Rec'd	% Rec	Sample No.	Compos No.	Assays Sn	W	CaF_2	Cu	Pb	Zn	Mo	Au	Weighted Assays/Ratios	% Estimates	Core Angles	Alt	T.S P.S	Description
319.50	321.50	2.00	1.98	99	1458	C7	4	10		10	40	180	2	<0.05						LIMESTONE
321.50	323.25	1.75	1.73	99	1459	C7	< 4	< 10		10	25	110	1	<0.05						LIMESTONE
323.25	323.90	.65	.64	99	1429		< 1	< 50		60	8	100	< 3	0.01						BASALT
323.90	326.00	2.10	2.09	99	1460	C7A	< 4	< 10	.16	14	35	85	1	<0.05						LIMESTONE - extensively recrystallized
326.00	328.05	2.05	2.05	100	1461	C7A	4	< 10		10	35	48	2	<0.05						LIMESTONE
328.05	328.75	.70	.70	100	1430		< 1	50		80	10	150	< 3	<0.01						BASALT
328.75	328.95	.20	.19	95	1462	C8	6	< 10		6	40	60	1	<0.05						LIMESTONE - extensively recrystallized
328.95	329.05	.10	.09	90	1431		< 1	100		80	4	80	< 3	<0.01						BASALT
329.05	331.00	1.95	1.80	92	1463	C8	6	< 10	.20	24	25	120	2	<0.05						LIMESTONE - extensively recrystallized, often sheared and fractured showing secondary
331.00	333.00	2.00	1.98	99	1464	C8	10	10		14	25	75	1	<0.05						LIMESTONE calcite veining with some pyrite.
333.00	334.60	1.60	1.60	100	1465	C8	8	< 10		24	25	100	10	<0.05						LIMESTONE - as above
334.60	336.50	1.90	1.90	100	1466	C9	4	< 10	.08	16	25	75	2	0.05						LIMESTONE - as above
336.50	338.45	1.95	1.95	100	1467	C9	4	< 10		12	15	38	< 1	0.05						LIMESTONE - as above
338.45	340.50	2.05	2.05	100	1468	C10	< 4	< 10		150	20	40	1	<0.05						LIMESTONE - as above
340.50	342.60	2.10	2.10	100	1469	C10	< 4	15	.08	18	15	30	3	<0.05						LIMESTONE - as above
342.60	344.69	2.09	2.09	100	1470	C10	< 4	< 10		14	10	20	1	<0.05						LIMESTONE - as above
344.69	346.37	1.68	1.68	100	1471	C11	< 4	< 10	.08	10	5	6	1	<0.05						LIMESTONE - as above
346.37	346.80	.43	.43	100	1472	C12	< 4	10	.20	20	200	150	< 1	<0.05						SILTY MARL
346.80	348.00	1.20	1.20	100	1473	C13	10	< 10	.04	14	15	38	1	<0.05						LIMESTONE - extensively recrystallized and brecciated.
348.00	349.60	1.60	1.60	100	1474	C14	< 4	< 10	.08	8	20	32	1	<0.05						LIMESTONE - extensively recrystallized and brecciated.

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From	To	Interl (m)	Core Rec'd	% Rec	Sample No.	Compos No.	Assays								Weighted Assay	
							Ag	As	Ni	Cr	Mn	Ti	Bi	Ba		
319.50	321.50	2.00	1.98	99	1458	C7	< 1	< 20	< 5	20	300	800	< 10	< 200		
321.50	323.25	1.75	1.73	99	1459	C7	< 1	< 20	15	20	300	800	< 10	< 200		
323.25	323.90	.65	.64	99	1429		< .1	< 50	200	200	1500	> 1%	< 1	400		
323.90	326.00	2.10	2.09	99	1460	C7A	< 1	< 20	20	20	100	1500	40	< 200		
326.00	328.05	2.05	2.05	100	1461	C7A	< 1	< 20	10	20	100	1500	20	< 200		
328.05	328.75	.70	.70	100	1430		< .1	< 50	200	200	800	> 1%	< 1	600		
328.75	328.95	.20	.19	95	1462	C8	< 1	< 20	45	20	200	800	10	200		
328.95	329.05	.10	.09	90	1431		< .1	< 50	200	200	1000	> 1%	< 1	600		
329.05	331.00	1.95	1.80	92	1463	C8	< 1	< 20	15	< 20	200	800	20	< 200		
331.00	333.00	2.00	1.98	99	1464	C8	< 1	< 20	15	< 20	200	800	< 10	< 200		
333.00	334.60	1.60	1.60	100	1465	C8	< 1	80	30	< 20	200	800	10	< 200		
334.60	336.50	1.90	1.90	100	1466	C9	< 1	30	25	< 20	150	400	10	< 200		
336.50	338.45	1.95	1.95	100	1467	C9	< 1	< 20	25	< 20	150	400	10	< 200		
338.45	340.50	2.05	2.05	100	1468	C10	< 1	< 20	20	< 20	80	400	20	< 200		
340.50	342.60	2.10	2.10	100	1469	C10	< 1	< 20	15	< 20	80	400	20	< 200		
342.60	344.69	2.09	2.09	100	1470	C10	< 1	< 20	10	< 20	80	400	20	< 200		
344.69	346.37	1.68	1.68	100	1471	C11	< 1	< 20	< 5	< 20	60	400	10	< 200		
346.37	346.80	.43	.43	100	1472	C12	< 1	< 20	90	< 20	300	1000	10	< 200		
346.80	348.00	1.20	1.20	100	1473	C13	< 1	< 20	20	< 20	60	200	10	< 200		
348.00	349.60	1.60	1.60	100	1474	C14	< 1	< 20	5	< 20	150	200	10	< 200		