Amoco Minerals Australia Company

DRILL LOG — HOLE No. ZT - 80 - 8 — PAGE 1 OF 5

PROJECT	ZEEHAN - TAS No. A7860	ELEVATION meters	COMMENCED 26·9·80	BORE HOLE SURVEY			INSTRUMENT EASTMAN CAMERA							
				Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing		
PROSPECT	OCEANA	DIP COLLAR 55° GW	COMPLETED 15·10·80	50	61.5	217.5	200	64.5	222					
CO-ORDINATES	3700 mN 1575 mE	CORE SIZE HQ	TOTAL LENGTH 228.6 meters	100	61.5	222								
BEARING	217° TN MN GN	LOGGED BY PHILIP JONES		150	62.5	222								

METERAGE From	METERAGE To	DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE From	METERAGE To	METERAGE Length	ASSAYS Cu	Pb	Zn	Ag		
		TRICONE		27612	24	25	1	26	1600	3800	3		
0	24.0	Black, dark grey to brown massive silty clays.	NO SLUDGE.	27613	25	27	2	16	1000	4900	3		
		HQ CORING		27614	27	28	1	14	1400	5200	2		
24.0	35.0	DOLOMITE: Black to grey, completely weathered,		27615	28	30	2	12	310	760	1		
		silty, carbonaceous? rubbly dolomite with minor			30	31	1	NO	CORE	+ CAVITY			
		thin sections of relatively unweathered, very		27616	31	33	2	10	65	250	<1		
		dense, massive, ankeritic dolomite. Very poor		27617	33	34	1	12	28	180	<1		
		recoveries through loose ground. (≈ 45%)		27618	34	35	1	10	14	100	<1		
				27619	35	36	1	10	30	100	<1		
35.0	40.4	ANKERITIC DOLOMITE: Massive, very dense,		27620	36	37	1	10	26	75	<1		
		ankerite veinlated, black to dark olive brown		27621	37	38	1	6	24	90	<1		
		dolomite. Core extensively broken, rugby in		27622	38	39	1	18	26	85	<1		
		part. Recovery ≈ 75%.		27623	39	41	2	10	18	80	<1		
				27624	41	42	1	8	22	95	<1		
40.4	48.2	SILTY DOLOMITE: Dark grey to grey, very silty	Pyrite staining.	27625	42	43	1	6	14	160	<1		
		clayey, dolomite. C Weathered, Minor cw siderite		27626	43	44	1	8	12	180	<1		
		veinlets and possibly very fine grained pyrite (olive		27627	44	45	1	8	24	105	<1		
		yellow staining of clays). Minor thin zones of dense,		27628	45	47	2	12	20	90	<1		
		very weathered rugby dolomite (Breccia's??).		27629	47	48	1	38	16	90	<1		
		Core recovery ≈ 65%.		27630	48	49	1	10	30	180	<1		
				27631	49	50	1	8	26	230	<1		
48.2	49.6	TECTONIC BRECCIA: Core very weathered but		27632	50	51	1	10	22	510	<1		
		showing relict brecciation textures with angular		27633	51	52	1	8	20	730	<1		
		fragments of light grey ankeritic dolomite in a		27634	52	53	1	10	30	660	<1		
		matrix of dark grey silty dolomite. Minor		27635	53	54	1	8	60	760	<1		
		ankerite & siderite rugby fillings and veinlets. Core		27636	54	55	1	8	65	650	1		
		Recovery ≈ 95%.		27637	55	57	2	6	75	840	<1		
				27638	57	58	1	6	50	520	<1		
49.6	66.0	DOLOMITE: Interbedded olive grey, grey and black	Pyrite staining?	27639	58	59	1	6	32	500	<1		
		silty carbonaceous clays - Dolomite. Minor zones		27640	59	60	1	6	18	460	<1		
		of fresher material being very dense ankeritic,		27641	60	61	1	24	65	770	<1		
		massive dolomite. Minor cw sideritic veinlets,		27642	61	62	1	6	140	1050	<1		
		possibly minor very fine grained pyrite. Core		27643	62	63	1	8	170	1250	<1		
		recovery ≈ 80%.		27644	63	64	1	6	115	740	<1		

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METERAGE From	METERAGE To	DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE From	METERAGE To	METERAGE Length	ASSAYS Cu	Pb	Zn	Ag
66.0	69.8	BRECCIA: Angular to sub-rounded fragments of ankeritic dolomite in a black silty dolomite matrix. Ankeritic dolomite fragments are comprised of coarse grained crystalline white to cream ankerite in a finer ankeritic matrix. Trace galena. Breccia moderately vughy. Dolomite moderately carbonaceous.	Trace galena	27645	64	66	2	100	310	890	2
				27646	66	67	1	6	920	800	1
				27647	67	68	1	4	340	1650	1
				27648	68	70	2	4	180	3200	<1
				27649	70	71	1	4	80	2000	<1
				27650	71	72	1	68	320	1230	<1
				27651	72	74	2	24	610	2090	1
69.8	80.4	SIDERITE / ANKERITE BRECCIA: Weakly mineralized siderite veinlated ankeritic dolomite. Minor disseminated colloform pink sphalerite and veinlet-ed and disseminated galena (75-76 metres). Vughs through breccia infilled or lined with siderite and or ankerite. Trace to minor pyrite. Core very broken & rubbly - recovery ~ 85%. Massive, fractured siderite from 79.7 to 80.4 m.	Minor galena/sphalerite. Trace to minor pyrite.	27652	74	75	1	62	1510	2790	2
				27653	75	76	1	70	1370	3280	2
				27654	76	77	1	185	1060	2880	3
				27655	77	79	2	64	560	4160	3
				27656	79	80	1	745	430	1720	3
				27657	80	81	1	120	1230	3210	2
				27658	81	82	1	4	180	980	1
				27659	82	84	2	6	135	220	<1
				27660	84	85	1	2	24	120	<1
80.4	100.0	ANKERITIC DOLOMITE: Grey, massive, ankerite veinleted, in part brecciated dolomite. Coarsely crystalline white to cream ankerite crystals comprise most of rock cemented in a grey/black dolomitic matrix. Ground badly broken with intervening soft clayey intervals. LITTLE TO NO CORE RECOVERY from 86.3 to 88.0, 89.5 to 90.0 & 91-94 metres.		27661	85	86	1	4	28	160	<1
					86	88	2	NO CORE - CAVITY			
				27662	88	90	2	4	40	180	<1
				27663	90	91	1	4	70	50	<1
					91	95	4	NO CORE RECOVERY.			
				27664	95	96	1	6	85	1750	<1
				27665	96	97	1	4	34	610	<1
				27666	97	98	1	4	65	1950	<1
				27667	98	100	2	4	36	420	1
100.0	121.4	SANDSTONE: Micaceous, weakly ankerite/siderite veinleted, brecciated, grey, fine to medium grained sandstone containing thin interbeds of CM clayey material. Core badly broken with recoveries ± 100%. Some mottled yellow and grey clays suggest a brecciated texture at 110m. Possible bedding 116m - 20° to c.a.		27668	100	101	1	8	50	165	<1
				27669	101	102	1	8	28	165	<1
				27670	102	103	1	8	20	195	<1
				27671	103	104	1	8	22	250	<1
				27672	104	105	1	8	18	210	<1
				27683	105	106	1	6	18	195	<1
				27684	106	107	1	8	14	145	<1
				27685	107	108	1	8	20	175	<1
121.4	123.9	ANKERITIC DOLOMITE: Yellow, olive grey, massive, very dense, vughy, pyritic and very weathered clayey ankeritic dolomite.		27686	108	109	1	8	18	280	<1
				27687	109	110	1	10	12	44	1
				27688	110	111	1	8	10	22	<1
				27689	111	112	1	8	8	20	<1
				27690	112	113	1	8	10	20	<1
				27691	113	114	1	6	12	26	<1

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METERAGE From	METERAGE To	DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE From	METERAGE To	METERAGE Length	ASSAYS Cu	Pb	Zn	Ag
123.9	127.0	DOLOMITE BRECCIA: Black and mottled, CW massive, fat clays, calcite, ankerite veinleted, sulphide smelling (None visible!). Weathered breccia?		27692	114	115	1	6	28	48	< 1
				27693	115	116	1	8	24	75	< 1
				27694	116	117	1	8	26	100	< 1
				27695	117	118	1	10	30	680	< 1
127.0	139.0	SANDSTONE: Completely weathered, micaceous, grey, massive fat clays - after a fine grained sandstone?		27696	118	119	1	12	20	320	< 1
				27697	119	120	1	8	14	26	< 1
				27698	120	121	1	8	14	185	< 1
				27699	121	122	1	6	10	180	< 1
139.0	147.0	SANDSTONE/SILTSTONE: Very weathered, st broken, clayey, laminar in part, micaceous fine sandstones and siltstones weakly ankerite veined. Minor sulphosalts present on core after decomposing sulphides? Bedding 135.5 - 38° to ca.		27700	122	123	1	8	18	55	< 1
				27673	123	124	1	52	50	65	1
				27674	124	125	1	30	40	620	2
				27675	125	126	1	24	60	805	33
				27676	126	127	1	35	78	655	< 1
				27701	127	128	1	10	20	100	< 1
147.0	166.80	BLACK CLAY: (DOLOMITE ??) Massive, dark grey to black, fat silty clays. Clays show relict brecciation textures from 163.90 m and have relict ankerite/siderite and quartz fragments incorporated in the clay matrix. Minor sphalerite occurs as disseminations and blebs of dark red sphalerite crystals from 165.5 to 166.90 m. Associated minor galena and pyrite occurs in conjunction with the sphalerite. Cavities from 161.0 - 163.50 & from 166.8 - 169.5m.		27702	128	129	1	8	16	48	< 1
				27703	129	130	1	8	14	26	< 1
				27704	130	131	1	8	20	24	< 1
				27705	131	132	1	8	30	30	< 1
				27706	132	133	1	8	16	36	< 1
				27707	133	134	1	10	10	30	< 1
				27708	134	135	1	10	8	36	< 1
				27709	135	136	1	8	6	22	< 1
				27710	136	137	1	8	12	16	< 1
				27711	137	138	1	8	16	24	< 1
				27712	138	139	1	6	10	90	< 1
166.8	169.5	CAVITY: 2.7m wide, minor clay infilling?		27713	139	140	1	10	12	28	2
				27714	140	141	1	8	14	115	1
169.5	184.5	SEDIMENTARY SANDSTONE BRECCIA: Rounded to ellipsoidal, light grey, medium grained quartzose sandstone fragments cemented in a dark grey, silty foliated matrix. Weakly quartz carbonate veined. Core extensively shattered with minor clay zones. Recovery = 100 %.		27715	141	142	1	10	14	46	1
				27716	142	143	1	8	14	16	1
				27717	143	144	1	10	14	16	1
				27718	144	145	1	8	12	24	1
				27719	145	146	2	10	12	26	1
					146	147					
				27720	147	148	1	10	20	230	1
184.5	200.5	SANDSTONE: Well bedded, laminar in part, fine grained to coarse grained interbedded fawn & light grey to grey quartzose sandstones. Grey beds generally foliated and micaceous siltstone's.		27721	148	149	1	8	26	115	< 1
				27722	149	150	1	8	32	160	1
				27723	150	151	1	16	200	940	1
				27724	151	152	1	12	75	510	1
				27725	152	153	1	10	28	470	< 1

CON'T OVER

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METERAGE From	METERAGE To	DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE From	METERAGE To	METERAGE Length	ASSAYS Cu	Pb	Zn	Ag
184.5	200.5	SANDSTONE: con't. - Some cleavage faces coated with chloritic and carbonaceous material. Bedding is soft sediment slumped in part, possibly load casted, with numerous flame structures prevalent. (bedding younging up the hole?). Bedding: 191m - 15° to ca; 199.5 22° to ca.		27726	153	154	1	8	40	560	1
				27727	154	155	1	10	100	1750	<1
				27728	155	156	1	14	95	2400	1
				27729	156	157	1	18	105	320	1
				27730	157	158	1	18	100	310	1
				27731	158	159	1	18	135	550	1
				27677	159	160	1	37	250	1380	<1
				27678	160	161	1	117	3370	3.02%	7
200.5	211.7	BRECCIATED INTERBEDDED SHALE/SANDSTONE:			161	163	2	CAVITY - NO CORE RECOVERY			
		Grey, clayey, fissile shales rhythmically interbedded with white to cream micaceous medium grained sandstones. Core badly brecciated with bedding being very contorted. Minor calcite and quartz infilling. Breccia fragments very angular. Bedding: 209.5 - 15° to ca.		27679	163	164	1	75	870	1.66%	4
				27680	164	165	1	165	1580	1.79%	8
				27681	165	166	1	1250	8350	4.40%	52
				27682	166	167	1	310	2.56%	11.00%	25
				27732	167	170	3	CAVITY - NO CORE RECOVERY			
				27733	170	171	1	40	3900	1.15%	6
				27734	171	172	1	36	500	1800	4
211.7	214.80	SEDIMENTARY SANDSTONE BRECCIA: Massive, grey green, weakly quartz veined, pelletal sandstone sedimentary breccia. All fragments sub rounded to very rounded light cream/green coarse grained sandstone cemented in a grey silty micaceous matrix. Fragments generally 0.5 to 1cm in width with minor larger pieces. Minor crystalline quartz in vugs and fractures.		27735	172	173	1	8	560	2500	4
				27736	173	174	3	16	470	1550	2
					174	175					
					175	176					
				27737	176	177	1	10	680	1900	2
				27738	177	180	3	22	2000	3700	4
				27739	180	181	1	34	970	4600	6
				27740	181	182	1	22	250	800	3
				27741	182	183	1	10	400	1800	1
214.8	228.6	LAMINAR SILTSTONE/SANSTONE: Buff, olive micaceous siltstone rhythmically interbedded with cream coloured coarse grained micaceous sandstones. Bedding: 215m - 15° to c.a.; 221.0 m - 30° to ca; 227 m - 20° to c.a.		27742	183	184	1	18	180	780	2
				27743	184	185	1	18	95	660	2
				27744	185	186	1	55	70	570	2
				27745	186	187	1	30	70	590	2
				27746	187	188	1	30	90	420	2
				27747	188	189	1	22	70	350	2
				27748	189	190	1	70	65	650	2
END OF HOLE.				27749	190	191	1	26	140	1100	3
				27750	191	192	1	28	120	1350	3
				29702	192	193	1	24	55	630	1
				29703	193	194	2	24	34	260	1
					194	195					
				29704	195	196	1	16	50	620	<1

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				29705	196	197	1	20	50	730	1
				29706	197	198	1	20	55	550	1
				29707	198	199	1	34	36	320	1
				29708	199	200	1	36	18	230	1
				29709	200	201	1	36	18	980	1
				29710	201	202	1	50	12	470	1
				29711	202	203	1	85	75	1150	2
				29712	203	204	1	32	34	1050	1
				29713	204	205	1	46	38	920	1
				29714	205	206	1	50	46	750	2
				29715	206	207	1	70	30	620	1
				29716	207	208	1	55	65	850	1
				29717	208	209	1	34	80	760	1
				29718	209	210	1	22	140	750	2
				29719	210	211	1	28	340	2200	2
				29720	211	212	1	48	230	1450	2
				29721	212	213	1	120	105	490	1
				29722	213	214	1	24	85	420	2
				29723	214	215	1	16	155	320	4
				29724	215	216	1	16	260	380	1
				29725	216	217	1	14	900	2600	1
				29726	217	218	1	10	200	500	1
				29727	218	219	1	8	280	360	1
				29728	219	220	1	6	150	260	1
				29729	220	221	1	8	90	210	1
				29730	221	222	1	8	230	300	1
				29731	222	223	1	6	220	280	1
				29732	223	224	1	10	175	200	1
				29733	224	225	1	8	220	260	1
				29734	225	226	1	8	230	340	1
				29735	226	227	1	8	230	290	1
				29736	227	228	1	60	200	410	3
					228	229					
				END OF HOLE							