



PROJECT ZEEHAN - TASMANIA NO 7860		ELEVATION	COMMENCED 12-12-82	BORE HOLE SURVEY			EASTMAN SINGLE SHOT CAMERA					
PROSPECT OCEANA		DIP COLLAR -60	COMPLETED 16-2-83	Depth	Dip	Bearing	Depth	Dip	Bearing	Depth	Dip	Bearing
CO-ORDINATES 3685 N 1250 E		CORE SIZE HQ, NQ, BQ	TOTAL LENGTH 346 m.	122	58	034	282	60	027.5			
BEARING 090 G 037 M 048 T		LOGGED BY PAS	ADD FBZ MINOR DRILL DIAMOND DEPTH.	218	60	030	290	59	026			
250	60	029	317	59	026							
METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn
0.00	43.60	MOINA FORMATION. Micaceous light grey to green nodular siltstone, HW to CW, shumpy textured, with minor argillaceous sandstone interbeds. Tectonic breccias and clay filled crush zones @ 13-16m, 23.3-24.5m, 28.3-29.5m, 33-36.3m. Bedding 20° to e.a. @ 43.5m.										
43.60	67.00	INTERBEDDED MICACEOUS LAYERED AND MASSIVE SANDSTONES. Layered and massive yellow brown (minor grey) micaceous argillaceous sandstones, minor shales and quartzites, minor zones of nodular argillaceous sandstone. Tectonic breccias @ 53.2-53.45, 58.3-63.3 (minor malachite staining?). Bedding 15° to e.a. @ 48.00 metres, 10° to e.a. @ 65.0 m.	Trace Malachite?									
67.00	80.60	QUARTZ CONGLOMERATE. - GORDON LIMESTONE. White quartz pebbles, with minor Moina fragments set in a quartz sandstone, muscovite minor argillite matrix. Core very broken. Sequence appears to be recrystallized and silica cemented.	Trace pyrite.									
80.60	95.50	CW QUARTZ GRIT AND ARGILLITES. Yellow to light creamy grey quartz grit containing minor conglomerate fragments and quartz grit set within a clay matrix. Minor sections of HW grey green argillaceous fine sandstone.		91692	91	92	1	80	1000	770	1	150
				91693	92	93	1	210	4200	780	1	70
				91694	93	94	1	350	4300	720	3	110
				91695	94	95	1	470	3700	1900	14	135
				91696	95	96	1	90	1900	140	25	14



METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn
95.50	98.00	MOTTLED CLAYSTONE. Mottled grey and crimson coloured claystone.		91697	96	97	1	28	2000	190	4	8
				91698	97	98	1	34	2300	40	18	6
				91699	98	99	1	80	3800	1700	7	48
				91700	99	100	1	160	5200	900	3	50
98.00	121.30	INTERBEDDED GREY BROWN AND CRIMSON COLOURED CW. CLAYSTONE. Interbedded mottled orange, brown, grey, and minor crimson coloured clays. Minor zones of ironstone (nodular) from 103-108 m and 115-118 m. Core recovery variable - average 25-30%.		91774	100	101	1	105	5000	170	2	26
				91775	101	102	1	48	1800	420	1	28
				91776	102	103	1	100	1400	1400	3	60
				91777	103	104	1	100	1600	1600	2	130
				91778	104	105	1	75	1900	1400	5	90
				91779	105	106	1	70	2900	3400	3	200
				91780	106	107	1	60	3100	5100	1	210
				91781	107	108	1	80	2200	3400	1	280
121.30	131.50	BROWN CLAYSTONE. Ferruginous yellow orange clays, last metre having minor nodules of massive brown goethite.		91782	108	109	1	42	1350	1200	1	50
				91783	109	110	1	70	2100	1300	1	200
				91784	110	111	1	80	2600	2250	1	490
				91785	111	112	1	120	2600	3400	1	900
				91786	112	113	1	70	3000	730	<1	65
131.50	140.50	GREY TO WHITE CLAYSTONE. Light gray to white claystones with minor zones of pale yellow claystones containing minor nodules of goethite.		91787	113	114	1	110	3200	1300	1	120
				91788	114	115	1	130	3300	1900	1	310
				91789	115	118	3	110	3700	7000	2	350
				91622	118	119	1	60	2400	2050	1	240
				91623	119	120	1	50	1300	1500	1	190
140.50	143.60	MOTTLED CLAYSTONE. Mottled brown, red, white claystone.		91624	120	121	1	60	1750	1750	1	480
				91625	121	122	1	90	2250	2350	1	1050
				91626	122	123	1	70	2150	3350	1	880
143.60	181.50	INTERBEDDED LAMINAR DARK GREY CLAYS AND BROWN SILICIFIED DOLOMITE. Laminar grey to black, argillaceous and sandy clays, showing intense deformation and folding (locally) interbedded with brown ferruginous? massive to weakly laminar and in part brecciated dense dolomite (silicified). 151.3-152.6 m, 152.8-166.0 m. Possible relict bedding laminations 37° to ca @ 150 m., 45° to ca @ 169 metres.	Abundant fine grained pyrite in dark clays.	91627	123	124	1	70	2700	3150	1	640
				91628	124	125	1	60	2050	1800	1	610
				91629	125	126	1	70	1900	2750	3	240
				91630	126	127	1	90	3500	3750	2	460
				91631	127	128	1	80	2500	3350	1	880
				91632	128	129	1	90	2400	3250	1	1000
				91633	129	130	1	80	2100	2650	1	1100
				91634	130	131	1	80	2500	3000	1	890
				91635	131	132	1	44	1550	960	1	420
				91636	132	133	1	60	1600	3100	2	960
				91637	133	134	1	60	1650	1500	2	220
				91638	134	135	1	95	2400	1200	2	210
				91639	135	136	1	150	3650	1150	7	160
				91640	136	137	1	65	1450	2550	3	540

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METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn
181.50	212.80	INTERBEDDED BROWN SILICIFIED DOLOMITE BRECCIA? AND GREY CLAYS. Sequence of heavily brecciated massive brown, fine grained dense silicified dolomites within a grey clay matrix. Minor vugs in dolomite breccia and minor quartz grains.		91641	137	138	1	165	2600	2900	2	1050
				91642	138	139	1	280	4050	1250	2	300
				91643	139	140	1	70	1300	300	15	110
				91644	140	141	1	34	1550	1000	2	200
				91645	141	142	1	30	1550	1050	3	330
				91646	142	143	1	80	2300	1700	3	330
				91647	143	144	1	70	1750	1500	3	210
				91648	144	145	1	60	1850	510	10	195
212.80	230.00	DARK GREY GRAPHITIC CLAYSTONE. Weakly laminar dark grey graphitic and argillaceous clays containing minor NW fragments of silicified grey dolomite. Core between 214.3-217.0m. either cavity or washed away during drilling.		91649	145	146	1	80	2050	760	6	260
				91650	146	147	1	280	2350	550	105	280
				91790	147	148	1	190	3200	110	115	80
				91791	148	149	1	38	9700	460	2	130
				91792	149	150	1	26	2300	3100	1	210
				91793	150	151	1	42	340	6100	1	50
				91794	151	152	1	10	40	3300	1	1.1%
230.00	242.00	HW to CW QUARTZ SILTSTONE AND INTERBEDDED SANDSTONE. Mottled grey and brown massive siltstones with brown interbeds of medium grained sandstone.		91795	152	153	1	16	150	4300	1	1.5%
				91796	153	154	1	10	220	5700	2	1.9%
				91797	154	157	3	6	110	1.05%	2	3.7%
				91798	157	159	2	6	340	1.65%	2	4.5%
				91799	159	163	4	8	80	1.75%	2	5.5%
				91800	163	166	3	10	34	2.40%	2	4.05%
242.00	253.30	INTERBEDDED GREY WEAKLY SILICIFIED SILTSTONES AND FINE GRAINED SANDSTONES. Sequence of siltstones and sandstones partially silicified with minor zones of brecciation and brecciated brown silicified dolomites towards the base of the unit.		91801	166	167	1	14	80	3200	2	3.15%
				91802	167	168	1	18	40	4000	1	1.6%
				91803	168	169	1	16	60	5400	2	2.4%
				91804	169	172	3	100	1850	2100	3	145
				91805	172	173	1	18	160	1.15%	1	7000
				91806	173	174	1	16	110	2.10%	1	1.1%
				91807	174	175	1	26	350	4500	2	140
253.30	255.30	BRECCIA - TECTONIC? Angular fragments up to 2cm in width set within a dark brown silicified argillaceous? dolomite matrix. Breccia is last support.		91808	175	178	3	360	1900	2700	4	130
				91809	178	179	1	40	740	4500	3	125
				91810	179	180	1	30	390	0.85%	3	1.5%
				91811	180	181	1	20	270	1.10%	2	3.2%
				91812	181	182	1	6	75	1.45%	2	6.0%
255.30	286.90	Pb-Zn MINERALIZATION WITHIN SIDERITIC DOLOMITE HOST. 255.3-259.9m: coarse grained siderite, minor galena in silicified dolomite. 259.9-263.0m: matrix support breccia angular fragments of silicified dolomite.	264-286 = 22m Est @ 10% Pb-Zn	91813	182	183	1	6	34	1.00%	2	6.6%
				91814	183	184	1	8	60	7300	2	6.2%
				91815	184	185	1	8	110	6600	2	5.9%
				91816	185	186	1	20	200	6300	2	2.3%
				91817	186	187	1	18	110	7200	2	2200
				91818	187	188	1	18	70	7800	2	3.9%

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METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS					
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn	
255.3	286.9	CONT: Pb-Zn mineralized siderite in argillaceous silicified dolomite host. 263.0 - 273.5 m: Siderite veinlets and cavity fillings with medium to coarse grained argillaceous recrystallized dolomite, minor galena possibly replacing dolomite. 273.5m - 283.3m: Abundant galena with less dolomite. Siderite as cavity fillings and irregular patches. Galena and less sphalerite is coarse grained and shows evidence of shearing. 283.3 - 286.9m: Galena becomes less abundant and siderite and dolomite increases.		91819	188	189	1	20	50	4400	2	4.0%	
					91820	189	190	1	14	28	2700	2	3.6%
					91866	190	191	1	16	120	3900	2	3.5%
					91867	191	192	1	12	120	5200	2	3.7%
					91868	192	193	1	10	140	6400	3	4.1%
					91869	193	194	1	10	160	5600	2	3.9%
					91890	194	195	1	10	70	3300	2	3.4%
					91871	195	196	1	8	55	3400	2	3.9%
					91872	196	197	1	12	300	3300	3	3.3%
					91873	197	198	1	10	160	4000	2	3.4%
					91874	198	199	1	8	120	2800	3	3.6%
					91875	199	200	1	14	290	2600	4	2.8%
					91876	200	201	1	14	120	2200	4	2.3%
				91877	201	202	1	10	300	3200	3	3.6%	
286.9	287.2	TECTONIC BRECCIA. Matrix supported, tectonic breccia? with very angular siderite, dolomite and calcite fragments set in a silicified argillaceous grey dolomite matrix.		91878	202	203	1	10	220	2800	3	2.9%	
					91879	203	204	1	10	650	2000	4	3.8%
					91880	204	205	1	8	440	2600	3	3.8%
					91881	205	206	1	8	240	1250	3	3.5%
					91882	206	207	1	12	660	2300	3	2.5%
					91883	207	208	1	26	1200	4800	5	1.65%
287.2	304.8	MOINA FORMATION, - BRECCIATED SANDSTONE / SPHALERITE MINERALIZED. Brecciated Pelletal grey fine to medium grained sandstone, recemented matrix of Siderite minor sphalerite. Minor tectonic breccias 293-295, 296-301.5, lot of Siderite veining in breccias. #48 - Minor redrilled mineralized rock. Bedding 40° to core 301.6m. Core very broken with poor recoveries.	Minor sphalerite.	91884	208	217	9	12	190	1400	3	2.95%	
					91885	217	221	4	12	210	1150	2	1.05%
					91886	221	223	2	32	230	2800	2	7300
					91887	223	226	3	12	120	3100	2	1.4%
					91888	226	227	1	14	230	1300	2	1.65%
					91889	227	229	2	16	100	3000	2	1.45%
					91890	229	231	2	10	46	4200	2	2.4%
					91891	231	232	1	8	42	2600	1	1.4%
					91892	232	233	1	16	180	2000	2	1.4%
					91893	233	238	5	12	80	1950	1	1.3%
					91894	238	240	2	14	330	4600	3	2.6%
304.8	305.9	QUARTZ LITHIC CONGLOMERATE. Fine grained quartz, lithic, conglomerate with sandy matrix, minor muscovite. Minor galena and pyrite along fractures.	Minor galena/pyrite along fractures.	91895	240	242	2	12	250	2400	2	1.4%	
					91896	242	244	2	20	380	6000	3	1.55%
					91897	244	245	1	14	460	1750	2	2.7%
					91898	245	246	1	20	770	2900	3	2.35%
					91899	246	247	1	16	540	2600	2	3.4%
					91900	247	248	1	18	330	4300	2	3.3%
					91901	248	249	1	14	290	5100	3	3.1%
				91902	249	250	1	8	290	4600	3	3.7%	

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METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn
305.9	325.0	INTERBEDDED GREY GREEN SILTSTONE MINOR SANDSTONE. Interbedded sequence of grey green slumpy textured micaceous siltstones and beige coloured medium grained sandstones. Minor quartz and siderite veining. Matrix support breccias from 324.7 to 325 with light brown angular sandstone fragments set in a grey siltstone matrix. Bedding 45° to ca @ 318m.		91903	250	251	1	10	300	2200	2	1.85%
				91821	251	252	1	18	205	1.1%	2	2.9%
				91822	252	253	1	12	420	9500	2	3.7%
				91823	253	254	1	14	860	7600	3	3.6%
				91824	254	255	1	10	2500	3000	3	7.2%
				91825	255	256	1	10	7650	3000	6	7.2%
				91826	256	257	1	10	1.55%	2600	10	7.4%
				91827	257	258	1	12	6450	1600	6	7.3%
				91828	258	259	1	10	6850	1250	6	7.9%
				91829	259	260	1	12	1.10%	1350	8	7.9%
325.0	328.6	INTERBEDDED GREY GREEN SHALES AND BROWN SANDSTONE. Interbedded grey green shales and fine grained beige sandstone. Bedding 35° to ca @ 326.5 m. Soft sediment deformation textures prominent.		91830	260	261	1	10	6200	2600	5	6.8%
				91831	261	262	1	12	4450	5300	5	6.1%
				91832	262	263	1	12	7950	3600	6	4.7%
				91833	263	264	1	6	1600	670	2	7.9%
				91834	264	265	1	10	5.15%	3100	23	8.2%
				91835	265	266	1	8	2600	2000	3	7.7%
				91836	266	267	1	8	1.22%	950	6	7.6%
328.6	329.2	POORLY SORTED QUARTZ LITHIC GRIT. Poorly sorted, white quartz fragments and honey brown sandstone fragments set within a micaceous sandy matrix. Crude layering at 35° to c.a.		91837	267	268	1	8	1.02%	460	7	7.6%
				91838	268	269	1	8	2.75%	690	15	7.9%
				91839	269	270	1	12	3.05%	1200	31	7.8%
				91840	270	271	1	14	7450	4500	6	7.5%
				91841	271	272	1	14	7650	5500	6	7.6%
				91842	272	273	1	16	2.10%	1950	14	7.4%
329.2	340.7	INTERBEDDED GREY GREEN SILTSTONE AND BEIGE SANDSTONE. Thinly bedded grey green siltstones and medium to fine grained beige sandstones with minor thick interbeds of massive brown well sorted medium grained sandstone. Minor soft sediment deformation. Bedding 33.8.5 m - 45° to ca. Minor quartz siderite veining - trace sphalerite.	Trace sphalerite in siderite veins.	91843	273	274	1	55	11.70%	1900	105	6.1%
				91844	274	275	1	75	7.75%	1550	75	7.6%
				91845	275	276	1	10	3.85%	590	23	7.9%
				91846	276	277	1	12	4.85%	460	25	7.7%
				91847	277	278	1	20	6.45%	740	36	7.1%
				91848	278	279	1	22	9.90%	1100	90	6.5%
				91849	279	280	1	12	19.30%	2600	200	5.8%
				91850	280	281	1	230	38.90%	5.6%	400	3.6%
				91851	281	282	1	24	16.00%	4100	135	7.4%
				91852	282	283	1	80	23.70%	1.70%	200	6.2%
				91904	283	284	1	12	3.75%	5300	20	7.1%
340.7	344.5	INTERBEDDED SILTSTONES AND SANDSTONES Similar to above units with patches of medium grained sandstone partially replaced by crystalline aggregates of pink sphalerite and minor pyrite. Zone	2cm wide galena sphalerite - massive at 341m. Minor disseminated Sphalerite at 342-2%	91905	284	285	1	16	1.50%	7600	12	4.7%
				91906	285	286	1	6	2.80%	2300	19	5.9%
				91907	286	287	1	8	1500	1800	3	3.6%
				91908	287	288	1	8	1900	1800	3	4.2%
				91909	288	289	1	8	2200	1300	3	3.3%

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METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	Hg
340.7	344.5	CON'T : later cut by siderite veinlets carrying galena and pale yellow sphalerite. Core badly broken. Minor 2cm wide massive galena and sphalerite (sheared) intercept at 341 metres.		91910	289	292	3	8	1250	1700	2	31%
				91911	292	293	1	10	1100	1100	2	4.2%
				91912	293	294	1	10	1100	2400	2	4.4%
				91913	294	295	1	16	1.55%	3800	7	4.6%
				91951	295	296	1	30	6500	9000	5	3.8%
				91952	296	297	1	24	720	7800	2	2.95%
				91953	297	298	1	10	170	4600	1	1.45%
				91954	298	299	1	10	560	2200	1	2200
344.5	346.0	QUARTZ LITHIC GRIT. Coarse grained white quartz and honey brown sandstone, minor siltstone fragments set in a poorly sorted micaceous sand matrix.		91955	299	300	1	14	1200	1700	1	9300
				91956	300	301	1	30	8700	1.10%	9	1.15%
		END OF HOLE.		91957	301	302	1	16	1300	1950	2	4800
				91958	302	303	1	12	940	2900	2	5300
				91959	303	304	1	10	550	1350	2	7400
				91960	304	305	1	140	2500	2800	37	5200
				91961	305	306	1	18	4800	670	6	7100
				91962	306	307	1	8	580	480	2	1200
				91963	307	308	1	10	470	1050	2	2250
				91964	308	309	1	10	550	1800	2	4900
				91965	309	310	1	14	730	1700	3	3300
				91966	310	311	1	12	410	850	1	4000
				91967	311	312	1	8	430	1150	2	4700
				91968	312	313	1	110	490	700	2	4700
				91969	313	314	1	10	830	1200	2	3100
				91944	314	315	1	8	350	2900	1	7200
				91945	315	316	1	10	380	600	1	5500
				91946	316	317	1	6	260	540	1	5500
				91947	317	318	1	8	460	920	1	7600
				91948	318	319	1	6	340	580	1	5200
				91949	319	320	1	8	100	520	1	2200
				91950	320	321	1	8	450	1700	1	1450
				91970	321	322	1	195	1250	3400	8	3650
				91971	322	323	1	14	730	970	3	5300
				91972	323	324	1	26	750	1150	3	6700
				91973	324	325	1	70	580	1150	8	7700
				91974	325	326	1	140	270	1100	4	1750
				91975	326	327	1	14	50	580	2	750
				91976	327	328	1	60	180	300	2	1700
				91977	328	329	1	46	50	330	1	1100
			91978	329	330	1	12	46	470	1	680	

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METERAGE		DESCRIPTION	MINERALIZATION	SAMPLE NO	METERAGE			ASSAYS						
From	To				From	To	Length	Cu	Pb	Zn	Ag	Mn		
				91979	330	331	1	24	60	260	1	880		
				91980	331	332	1	48	90	510	1	1300		
				91981	332	333	1	26	46	280	1	620		
				91982	333	334	1	24	44	140	1	850		
				91983	334	335	1	34	110	330	3	1200		
				91984	335	336	1	22	5700	2.20%	3	1.05%		
				91985	336	337	1	10	700	3100	2	8600		
				91986	337	338	1	22	560	1400	3	4400		
				91987	338	339	1	18	200	700	2	1200		
				91988	339	340	1	20	230	540	2	1500		
				91989	340	341	1	12	520	1100	2	5100		
				91990	341	342	1	155	1.90%	1.90%	63	1.10%		
				91991	342	343	1	20	1750	1.15%	5	1.30%		

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