



PROJECT	ZEEHAN - TAS	No. A7860	ELEVATION	meters	COMMENCED	17-10-80	BORE HOLE SURVEY			INSTRUMENT EASTMAN CAMERA.					
PROSPECT	OCEANA		DIP COLLAR	50°	COMPLETED	26-10-80	Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing
CO-ORDINATES	3600	mN 1400	mE	CORE SIZE	HQ, NQ	TOTAL LENGTH	200.2 meters	100	52.0	317					
BEARING	TN 313°	MN	GN	LOGGED BY	PHILIP JONES			150	53.0	316					

METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS					
From	To				From	To	Length	Cu	Pb	Zn	Ag		
0	1.5	TRICONE : Gravel 0.5m, Black brown silty clays 0.5 to 1.5 metres.		29501	1	2	1m	105	2.95%	5750	6		
				29502	2	3	1	18	1.80%	100%	8		
				29503	3	4	1	22	1.55%	1.35%	6		
		HQ CORING		29504	4	5	1	40	7.10%	2.90%	14		
				29505	5	6	1	32	14.4%	1.50%	32		
1.5	13.5	DOLOMITE : Completely weathered, grey to black brown, silty, in part brecciated dolomite Ferruginous from 4.5 metres with mottled black orange clays with abundant hematite staining on fracture surfaces. 75% Core recovery.		29506	6	7	1	50	6.15%	3.25%	28		
				29507	7	8	1	22	5.80%	1.50%	8		
				29508	8	9	1	12	3.05%	2500	2		
				29509	9	10	2m	16	1.95%	7000	6		
					10	11							
				29510	11	12	1	18	1.30%	1.65%	6		
13.5	29.6	ANKERITE SIDERITE BRECCIA: Weakly mineralized, disseminated and blebby galena and sphalerite, massive but badly broken, clay infilled in part, cavernous, vuggy ankeritic and sideritic veined and infilled breccia. Semi massive mineralization from 18-19m @ ± 15% Zn/Pb and 22-24 @ 5% Pb-Zn. Poor core recoveries averaging 45%. Sand and clay filled cavities encountered from 21-22m and 24-27 metres. Breccia is composed of fine and coarse grained crystalline ankerite in a dark dolomitic matrix siderite veined during dolomitisation.	15% Pb-Zn 18-19 m 5% Pb-Zn 22-24 m	29511	12	13	1	16	1.15%	1.25%	2		
				29512	13	14	2m	12	1.05%	8500	4		
					14	15							
				29513	15	16	2m	10	4500	3150	2		
					16	17							
				29514	17	18	1	8	6500	6750	2		
				29515	18	19	1	110	5.85%	19.0%	46		
				29516	19	20	1	16	1.25%	1.35%	8		
				29517	20	21	1	10	4700	1500	4		
					21	22		NO	CORE	RECOVERY - SAND SEAM			
				29518	22	23	2m	26	2.25%	1.20%	16		
					23	24							
29.6	57.3	INTERBEDDED CLAYS : (DOLOMITE) Gray to black with minor olive gray (pyrite stained) massive silty clays containing minor thin seams of rubbly relatively unaltered silty, dense, grey, dolomite. Minor siderite or calcite (quartz?) Some sections of clay more porous & silty than others. Up to 5% pyrite in clays from 54.5 to 57.3 metres.	5% pyrite		24	25		NO	CORE	RECOVERY - SAND SEAM			
					25	26		"	"	"	"		
					26	27		"	"	"	"		
				29519	27	28	2m	10	4300	3900	4		
					28	29							
				29520	29	30	2m	8	1200	100%	2		
					30	31							
				29521	31	32	1m	8	330	3100	<1		
57.3	59.0	ANKERITE PYRITE BRECCIA: Angular breccia fragments of ankerite in a fine grained pyrite (minor siderite) matrix. Trace galena, Pyrite 5-10%	Trace galena 5-10% pyrite	29522	32	33	1	8	340	2200	1		
				29523	33	34	2m	10	34	1550	<1		
					34	35							

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METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS			
From	To				From	To	Length	Cu	Pb	Zn	Ag
57.3	59.0	ANKERITE PYRITE BRECCIA: Con't Ground very broken, core recovery is 65%.	Trace galena	29524	35	36	1m	20	55	1850	<1
				29525	36	37	1	10	390	3900	<1
				29526	37	38	1	8	520	2800	<1
59.0	74.5	INTERBEDDED CLAYS: (DOLOMITE) Grey to black, silty, weakly calcite veined, pyritic completely weathered dolomite.	Minor pyrite	29527	38	39	1	10	24	870	<1
				29528	39	40	1	10	34	1100	<1
				29623	40	41	1	10	135	370	<1
				29624	41	42	1	8	420	1300	<1
74.5	78.0	DOLOMITE: Massive, dense, fine grained, dark gray ankeritic dolomite. Possibly brecciated, moderately clay zoned, trace siderite and galena. Massive material badly fractured. Recoveries generally good > 90%.	Trace galena	29625	42	43	1	8	710	3700	1
				29626	43	44	1	8	1850	31500	2
				29627	44	45	1	10	1.42%	1850	8
				29628	45	46	1	8	200	1050	1
				29629	46	47	1	8	105	480	<1
				29630	47	48	1	8	80	280	<1
78.0	83.5	MINERALIZED CLAY BRECCIA: mottled black, orange, yellow, grey silty clays with minor massive angular brecciated, dense sideritic and ankeritic dolomite. Weakly to moderately mineralized. Galena and sphalerite visible as coarse grained disseminations in mottled clays. Moderate amount of pyrite present as blebs and as breccia in fill material. Minor quartz.	80-83m 10% Pb/Zn?? pyrite ~5%	29631	48	49	1	10	45	220	<1
				29632	49	50	1	12	95	460	<1
				29633	50	51	1	10	55	250	<1
				29634	51	52	1	10	32	100	<1
				29635	52	53	1	10	24	110	<1
				29636	53	54	1	12	32	135	<1
				29637	54	56	2	12	50	270	<1
				29638	56	57	1	12	400	1850	2
				29639	57	58	1	28	1.65%	1.05%	6
83.5	95.4	COLLAPSE BRECCIA: Angular and rounded, small and large sized fragments occur in a matrix of pyritic, black, silty dolomitic clay. Fragments include Maina sandstone (both white or pink coarse grained sandstone) olive green, oxidised? massive ankeritic dolomite, pyrite fragments, quartz fragments and black carbonaceous material (wood!) along with dolomite fragments. Minor galena and sphalerite in sulphide smelling core. Fragments vary in size up to 35cm across down to 1-2 mm. in diameter. Abundant very weathered pyrite fragments. Fossil leaves 9-92 Sequence possibly Karstic collapse breccia + infill with material derived from surface ie Maina fragments.	Minor Pb/Zn 5-10% pyrite	29640	58	59	1	12	3300	4300	2
				29641	59	60	1	14	1550	3950	2
				29642	60	61	1	12	80	390	<1
				29643	61	62	1	14	60	310	<1
				29644	62	63	1	12	105	320	<1
				29645	63	64	1	18	90	530	<1
				29646	64	65	1	16	80	350	<1
				29647	65	66	1	12	135	610	<1
				29648	66	67	1	16	115	980	<1
				29649	67	68	1	18	140	660	<1
				29650	68	69	1	20	970	4800	<1
				29651	69	70	1	12	420	4500	<1
				29652	70	71	1	12	75	1500	<1
				29653	71	72	1	10	145	100	1
				29654	72	73	1	16	660	4500	2
				29655	73	74	1	14	980	7700	2
				29656	74	75	1	10	1250	6350	2

METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS						
From	To				From	To	Length	Cu	Pb	Zn	A ₁			
95.4	119.6	MASSIVE PYRITIC CLAY (DOLOMITE): Generally black, massive, silty clays with minor grey clay interbeds. Mottled orange and grey clay from 99.7 to 101.0. Light grey, dense, sideritic veined dolomite from 95.4 to 97.5. containing abundant pyrite possibly as vugh infill as seen by filigree texture.	Minor Pyrite.	29657	75	76	1							
				29658	76	77	1	10	2550	6150	2			
				29659	77	78	1	12	2750	1.00%	3			
				29660	78	79	1	16	1350	1.60%	3			
				29661	79	80	1	14	1050	8400	3			
				29662	80	81	1	14	3350	1.20%	8			
				29663	81	82	1	12	8600	1.70%	12			
				29664	82	83	1	8	970	1.30%	2			
119.6	183.0			SIDERITE /ANKERITE MINERALIZED ROCK: Coarse grained white ankerite crystals and cream coloured fine grained siderite set in a matrix of dark grey ankeritic dolomite. Core rough and porous in part, brecciated (dolomitisation) very fractured, clay veined and weakly mineralized. Siderite veining gives 'brain texture' to core. Minor clay zones present and numerous cavities: 125.2 - 128; 159-160.2; 162.2-163.8; 163.9-166; 167-168; 171-172.10; 175.2-181.8. Lead/Zinc mineralization occurs as disseminations, blabs, thin veinlets, as coarse grained accumulations and to a minor extent as semi massive and massive. Grades vary from metre to metre, however, the following are the higher grade intercepts. Zinc grades seem to increase downhole.	Minor mineralization apart from intercepts reported in description.	29665	83	84	1	10	1750	9150	2	
						29666	84	85	1	16	3150	7600	4	
		29667	85			86	1	16	4300	1.5%	4			
		29668	86			87	1	20	1.00%	7900	8			
		29669	87			88	1	18	5100	1.05%	7			
		29670	88			89	1	20	4150	1.30%	8			
		29671	89			90	1	16	3550	6200	6			
		29672	90			91	1	16	3750	5100	6			
		29673	91			92	1	14	9550	9900	16			
		29674	92			93	1	12	4170	2600	11			
		29675	93			94	1	14	6050	5300	6			
		29676	94			95	1	14	1800	1.55%	3			
		29677	95			96	1	12	1950	4150	2			
		29678	96			97	1	12	2150	1.65%	2			
		29679	97			98	1	14	1100	1.05%	2			
		29680	98			99	1	14	290	2300	2			
		29681	99			100	1	22	4500	8200	6			
NO CORING FROM	148 m.	148-150 5% Pb/Zn 20% Core Recovery.	29682			100	101	1	28	4250	1.15%	12		
		160-162 7 1/2% Pb/Zn	29683			101	102	1	14	3000	1.85%	2		
		166-173.5 5-10% Pb/Zn 20% Core Recovery.	29684			102	103	1	22	2500	1.65%	6		
		173.5-175.5 20% Pb Recovery 10%	29685	103	104	1	14	450	7500	1				
		181.8-183 60% Pb/Zn (60.40) Recovery 15%.	29686	104	105	1	14	320	4700	1				
			29687	105	106	1	12	490	9100	1				
183.0	195.0	MASSIVE CLAYS: Mottled, ferruginous, orange, red and yellow (minor grey) silty clays. Ironstone 183.0-183.10. Ground badly cavernous: 183.10-184.50; 186.0-187.50; 188.4-191.0; 192-195. Minor quartz from 191.0 to 192.0 possibly marking OCEANA FAULT ZONE!		29688	106	107	1	12	1000	7550	5			
				29689	107	108	1	10	380	1.30%	1			
				29690	108	109	1	16	890	6800	1			
				29691	109	110	1	18	530	4900	2			
				29692	110	111	1	20	390	2750	1			
				29693	111	112	1	18	200	2500	1			
				29694	112	113	1	14	140	3000	<1			
				29695	113	114	1	16	170	2500	1			

METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS				
From	To				From	To	Length	Cu	Pb	Zn	Ag	
195.0	200.2	SANDSTONE BRECCIA: Moira Sandstone on northern side of Oceana Fault. Coarse grained light grey sandstone fragments set in a matrix of grey to dark grey silty and micaceous fine grained sandstones. Rounded fragments to sub rounded comprise sedimentary breccia.		29696	114	115	1	18	370	3100	1	
				29697	115	116	1	14	2150	7100	2	
				29698	116	117	1	18	3500	8600	2	
				29699	117	118	1	18	6800	1.00%	3	
				29700	118	119	1	14	3600	8950	2	
				29701	119	120	1	18	5250	3700	3	
				29529	120	122	2	10	7700	1.00%	4	
				29530	122	123	1	8	9000	3600	4	
				29531	123	124	1	14	1.4%	8000	6	
				29532	124	125	1	8	5900	2900	4	
					125	128	3		CAVITY - NO	CORE	RECOVERY.	
				29533	128	129	1	10	1.15%	7500	4	
				29534	129	131	2	90	3700	7000	2	
				29535	131	133	2	12	4100	5000	2	
				29536	133	134	1	10	8100	2100	4	
				29537	134	135	1	46	5900	2850	2	
				29538	135	136	1	14	9600	5250	4	
			29539	136	137	1	16	5700	8750	2		
			29540	137	138	1	10	4500	3750	2		
			29541	138	139	1	18	1.90%	8750	6		
			29542	139	140	1	18	1.65%	9250	6		
			29543	140	141	1	36	1.58%	1.55%	6		
			29544	141	143	2	30	1.05%	3.25%	4		
			29545	143	144	1	36	1.00%	1.80%	4		
			29546	144	145	1	16	1.00%	4350	4		
			29547	145	146	1	10	7000	3100	2		
			29548	146	147	1	14	1.95%	4550	10		
			29549	147	148	1	10	1.60%	3900	4		
			29550	148	150	2	16	9.30%	2500	22		
			29601	150	152	2	6	1.00%	3450	4		
			29602	152	153	1	10	1.60%	2850	4		
			29603	153	154	1	10	2.80%	2000	8		
			29604	154	155	1	10	4.25%	1750	14		
			29605	155	156	1	16	1.30%	5500	6		
			29606	156	157	1	14	2.05%	3800	8		
			29607	157	159	2	14	1.45%	5750	6		
				159	160			CAVITY - NO	CORE	RECOVERY		
			29608	160	161	1	28	5.90%	7500	22		
			29609	161	162	1	34	4.20%	1.30%	18		

METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS			
From	To				From	To	Length	Cu	Pb	Zn	Ag
				29610	162	164	2	8	2700	1900	2
				29611	164	166	2	26	1.05%	1.30%	4
				29612	166	168	2	34	2.25%	1.80%	12
				29613	168	170	2	12	1.68%	5000	8
				29614	170	171	1	16	7500	7750	4
					171	172	1	NO	CORE	RECOVERY	
				29615	172	175	3	55	3.80%	1.85%	75
					175	182	7	NO	CORE	RECOVERY	
				29616	182	183	1	430	44.0%	9.75%	250
				29617	183	186	3	90	2.60%	8750	18
				29618	186	188	2	34	9600	3800	16
					188	191	3	NO	CORE	RECOVERY	
				29619	191	192	1	22	3300	2400	4
					192	195	3	NO	CORE	RECOVERY	
				29620	195	198	3	90	720	50	8
				29621	198	199	1	36	550	175	<1
				29622	199	200	1	95	700	160	<1
				END OF HOLE		200.20 metres.					