



PROJECT ZEEHAN - TAS No. A79-60-B				ELEVATION	COMMENCED	BORE HOLE SURVEY			INSTRUMENT					
PROSPECT AUSTRAL VALLEY				DIP COLLAR	COMPLETED	Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing	Depth (m)	Dip	Bearing
CO-ORDINATES 1610 N mN 1300E mE				CORE SIZE HQ, NQ	TOTAL LENGTH	100	58°	232°	250	61°	216°			
BEARING 249 TN 238 MN 270 GN				LOGGED BY P.A. JONES		150	59.5°	227°	300	58°	196°			
METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS						
From	To				From	To	Length	Cu	Pb	Zn	Ag			
0.00	15.00	TRICONE: 0-1.5m Alluvial Gravels Mt Zeehan Conglomerate 1.5-10.0m Dolomite? Completely weathered block silty clays		22117	15	16	/	14	56	45	<1			
				22118	16	17	/	11	44	29	<1			
				22119	17	18	/	8	37	40	<1			
				22120	18	19	/	6	39	127	<1			
				22121	19	20	/	10	50	180	<1			
15.00	24.00	CALCULITE/DOLomite: Interbedded, foliated (possibly slumped) grey calcilites and dark grey dolomite. Rock extensively broken, had pugh zones prevalent and minor calcite veined		22122	20	21	/	10	55	200	<1			
				22123	21	22	/	12	53	179	<1			
				22124	22	23	/	10	44	143	<1			
				22125	23	24	/	8	44	148	<1			
				22126	24	25	/	10	43	183	<1			
24.00	33.00	DOLomite: Black, silty dolomite, siderite veined, brecciated in part very clayey, highly weathered and minor calcite veined. Fine grained, disseminated pyrite present. NO CORE 20.30 - 21.20	Disseminated minor pyrite.	22127	25	26	/	8	54	323	<1			
				22128	26	27	/	10	84	220	<1			
					27	28	/	CAVITY	NO	CORE	RECOVERY			
				22129	28	29	/	9	196	520	<1			
					29	30	/	CAVITY	NO	CORE	RECOVERY			
33.00	40.50	CALCULITE: grey, heavily calcite veined (36.00-40.00) badly fractured and broken, brecciated (slumped?) and puggy calcilites and minor fossiliferous calcareous.		22130	30	31	/	CAVITY	NO	CORE	RECOVERY			
				22131	31	32	/	19	215	2950	<1			
				22132	32	33	/	17	60	228	<1			
					33	34	/	11	92	131	<1			
					34	35	/	CAVITY	NO	CORE	RECOVERY			
40.50	50.00	SANDSTONE: porous, coarse grained, grey, fossiliferous (41-42.50) slumped, well sorted and weakly calcareous sandstone. Minor black puggy sections possibly completely weathered black Dolomite interbeds.		22133	35	36	/	"	"	"	"			
				22134	36	37	/	14	53	622	<1			
					37	38	/	12	92	290	<1			
					38	39	/	CAVITY	NO	CORE	RECOVERY			
					39	40	/	"	"	"	"			
				22135	40	41	/	12	28	106	<1			
50.00	64.00	DOLomite: Black and dark grey, very silty, calcareous, weakly calcite veined Dolomite. Core very clayey, badly broken with minor quartz veining (5mm). Recoveries a 50%. Minor fine grained pyrite.	Minor pyrite.	22136	41	42	/	10	22	87	<1			
				22137	42	43	/	11	29	184	<1			
				22138	43	44	/	12	44	227	<1			
				22139	44	45	/	9	22	147	<1			
				22140	45	46	/	8	14	68	<1			
				22141	46	47	/	11	14	171	<1			
64.00	67.60	ANKERITE/SIDERITE BRECCIA: containing weakly disseminated Pb/Zn (1-2%) mineralization. Rock is dark grey green in colour, very dense and massive but badly fractured and broken. NO CORE RECOVERY 66.40 to 68.30m.	1-2% Pb/Zn as disseminations.		47	48	/	CAVITY	NO	CORE	RECOVERY			
					48	49	/	"	"	"	"			
					49	50	/	"	"	"	"			
				22142	50	51	/	12	48	120	<1			
				21946	51	52	/	9	62	108	<1			
				21947	52	53	/	10	77	138	<1			
67.60	81.00	INTERBEDDED CALCULITES/DOLOMITES: Technically brecciated, heavily calcite veined, puggy in part, puggy over numerous zones and very cavernous. Possible zone of faulting (CRUSH ZONE).		21948	53	54	/	8	64	188	<1			
				21949	54	55	/	6	107	322	<1			
				21950	55	56	/	6	88	141	<1			
				22001	56	57	/	8	117	418	<1			
				22002	57	58	/	7	499	1720	/			
				22003	58	59	/	45	804	2670	2			
				22004	59	60	/	6	198	7470	/			



METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS				
From	To				From	To	Length	Ca	Pb	Zn	Ag	
81.00	94.50	CALCULITE: gray, slumped, in part pectolite foliated weakly fossiliferous and moderately calcite veined cavernous calcutite. Minor thin (<2cm) dark gray carbonaceous dolomite interbeds. Cavity 89.5 - 90.80m. Bedding 45° to ca at 87m.		22005	60	61	1	7	894	6310	2	
				22006	61	62	1	<5	289	2620	1	
				22007	62	63	1	7	427	3070	<1	
				22008	63	64	1	6	844	2270	<1	
				22009	64	65	1	<5	8700	2230	4	
				22010	65	66	1	<5	577	3250	2	
94.50	105.00	DOLOMITE: dark gray to black, silty, heavily calcite veined, very soft and broken cavernous dolomite. Cavity 99-102m. Minor pugh zones. Core very foliated with calcite veing oriented // to ca and showed out remnants of bedding are oriented sub // to the s.a. Minor breccia zones present (tectonic).		22011	66	67	1	8	319	6220	1	
				-	67	68	1	NO	CORE	RECOVERY.		
				22012	68	69	1	<5	88	648	1	
				22013	69	70	1	<5	106	740	1	
				-	70	71	1	NO	CORE	RECOVERY		
				-	71	72	1	"	"	"	"	
			22014	72	73	1	<5	80	2470	1		
			-	73	74	1	NO	CORE	RECOVERY			
105.00	134.00	CALCULITE: pale gray, very foliated (sub // to ca) weakly calcite veined, occasionally pectolite cavernous (generally pugh filled) competent rock. Cavities: 107-107.92, 108.50-111.10, 111.10-112.20, 121.80-121.60. No accurate bedding although massive but foliated sequence.		22015	74	75	1	<5	25	2680	1	
				-	75	76	1	NO	CORE	RECOVERY		
				22016	76	77	1	<5	1269	4050	1	
				22017	77	78	1	6	224	671	1	
				22018	78	79	1	11	218	1840	1	
				-	79	80	1	NO	CORE	RECOVERY		
			-	80	81	1	"	"	"	"		
134.00	145.00	INTERBEDDED CALCULITE/DOLOMITE: light grey non-fossiliferous and fossiliferous, foliated and weakly calcite veined calcutites and calcarenites with interbeds of dark grey silty dolomites from 5-20cm in width. The Dolomite is pyritic and carbonaceous. Bedding 32° to ca at 140m. Microfaulting and foliation distort bedding attitudes.	Fine grained disseminated pyrite.	22019	81	82	1	6	36	280	1	
					22143	82	83	1	12	156	710	<1
					22144	83	84	1	10	163	690	<1
					22145	84	85	1	10	150	1080	<1
					22146	85	86	1	10	160	580	<1
					22147	86	87	1	10	116	484	<1
					22148	87	88	1	9	172	482	<1
					22149	88	89	1	11	70	138	<1
					-	89	90	1	NO	CORE	RECOVERY	
145.00	160.00	BRECCIATED CALCULITE: moderately to strongly calcite veined, brecciated, grey, foliated calcutites with minor interbeds of fossiliferous calcarenites and black carbonaceous dolomites (generally <2 cm in width).		22150	91	92	1	13	158	1190	<1	
				22151	92	93	1	11	103	362	<1	
				22152	93	94	1	8	38	168	<1	
				22153	94	95	1	11	50	187	<1	
				22154	95	96	1	13	82	346	<1	
				22155	96	97	1	14	217	349	<1	
160.00	168.00	LIMESTONE: white to light grey, massive to laminar, sparry and micritic limestone possibly containing abundant but extremely fine grained pyrite disseminations. Core weakly calcite veined. Cavities 163-163.20, 164-164.50m. Bedding 38° to ca 14.50. Massive limestone has tectonically folded and foliated very thin carbonaceous layers present approximately 0.8mm thick.		22156	97	98	1	13	184	494	<1	
				22157	98	99	1	15	344	1570	<1	
				-	99	100	1	NO	CORE	RECOVERY		
				-	100	101	1	"	"	"	"	
				-	101	102	1	"	"	"	"	
				22158	102	103	1	11	53	75	<1	
				22159	103	104	1	11	147	770	<1	
				22160	104	105	1	13	108	344	<1	
				22161	105	106	1	11	54	95	<1	
				22162	106	107	1	10	64	377	<1	
				-	107	108	1	NO	CORE	RECOVERY		
				22163	108	109	1	11	127	750	<1	
			-	109	110	1	NO	CORE	RECOVERY			
			-	110	111	1	"	"	"	"		
			-	111	112	1	MISSING	SAMPLE				
			-	112	113	1	MISSING	SAMPLE				



METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS			
From	To				From	To	Length	Cu	Pb	Zn	Ag
168.00	199.60	Interbedded CALCULITES/DOLOMITES: gray, foliated fossiliferous and non fossiliferous, parallel in part, calcilitous interbedded with black to dark gray occasionally laminar silty and carbonaceous dolomite. Core weakly calcite veined, and shows evidence of soft sediment slumping. Rock very cavernous: 168.10-168.40, 176.60-177.10m. Bedding 41° to ca 184m; 33° to ca 196m.		22166	113	114	1	20	103	458	<1
				22167	114	115	1	9	54	193	<1
				22168	115	116	1	12	104	449	<1
					116	117	1	NO	CORE	RECOVERY	CAVITY
					117	118	1	"	"	"	"
				22169	118	119	1	11	83	350	<1
				22170	119	120	1	11	145	462	<1
				22171	120	121	1	10	177	830	<1
				22172	121	122	1	14	638	2960	<1
				22173	122	123	1	12	92	315	<1
199.60	202.50	LIMESTONE: Massive and laminar, white to light gray sparry and micritic limestones. Very thin <0.5mm carbonaceous laminae, often physically folded throughout. Rock foliated and microfractured. Bedding 35° to ca 202m. Pughy core from 202-202.80m.		22174	123	124	1	11	85	260	<1
				22175	124	125	1	11	44	660	<1
				22176	125	126	1	7	73	298	<1
				37637	126	127	3	10	85	600	<1
					127	128					
					128	129					
					129	130	3	22	170	1400	<1
202.50	229.60	Interbedded CALCULITES/DOLOMITE: gray, slumped, foliated in part, parallel, microfractured, calcilitous and more massive calcarenites; interbedded with black silty, carbonaceous and weakly pyritic dolomite. Dolomite beds generally <20cm in width. Dolomite beds highly contorted due to slumping of other beds. Core weakly calcite veined and badly broken ground is only found in the badly foliated sections of core. Foliation in sub // to ca. Minor pugh zones present. Bedding 30° to ca at 216m.	Mixed fine pyrite.	37638	130	131					
					131	132					
				37639	132	133	3	14	32	110	<1
					133	134					
					134	135					
				37640	135	136	3	22	16	30	<1
					136	137					
					137	138					
				37641	138	139	3	14	12	24	<1
					139	140					
229.60	231.00	SANDY CALCARENITE: Gray, well bedded, laminar, weakly calcite veined, foliated (L to bedding), coarse grained sandy calcarenite. Bedding 35° to ca at 230 metres.		37642	141	142	3	14	40	120	<1
					142	143					
				37643	143	144					
					144	145	3	8	16	30	<1
231.00	234.80	CALCULITE: gray, extremely foliated, strongly calcite veined, massive calcilitous with numerous thin dark gray silty dolomite interbeds (<0.5cm). Calcilitous fossiliferous between 234.60 & 234.80m.			145	146					
				37644	146	147	3	10	12	55	<1
					147	148					
					148	149					
234.80	240.00	SANDY CALCARENITE BRECCIA: slump brecciated, coarse grained, well sorted, massive sandy calcarenites grading downhole into bedded sandy calcarenites. Core weakly calcite veined. Sections of rock very porous & friable (generally brown/grey in colour) giving rise to poor recoveries. Bedding 45° to ca at 237.50 metres.		37645	149	150	3	12	16	50	<1
					150	151					
					151	152					
				37646	152	153	3	8	260	46	<1
					153	154					
					154	155					
				37647	155	156	3	14	75	50	<1
240.00	251.00	CALCULITE: gray, very foliated, moderately calcite veined, in part parallel, cavernous calcilitous and dark gray sandy calcarenites. Minor amount of siderite veining, rimming calcite, containing minor disseminated sphalerite. Cavities 242.20-242.90; 243.30-244.00; 244.60-249.50.	Minor sphalerite.	37648	156	157	3	150	95	55	1
					157	158					
					158	159					
					159	160					
				37649	160	161	3	10	28	38	1
					161	162					
					162	163					
				163	164						
				164	165						
				37650	165	166	3	10	105	155	1



METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE		Length	ASSAYS						
From	To				From	To		Cu	Pb	Zn	Ag			
251.00	253.00	<u>CALCULITE</u> : well bedded, laminar microfaulted, weakly calcite veined (minor siderite) grey and dark grey interbedded calcilutites and silty calcilutites. Bedding 37° to ca at 252.50 metres.			166	167								
				37651	167	168	3	6	60	115	1			
					168	169								
					169	170								
					170	171								
253.00	256.80	<u>DOLomite</u> : black, silty, and occasionally sandy, calcareous, weakly calcite veined (minor hematite staining) dolomite. Minor interbedded laminar calcilutites present. Zone cavernous from 253.30-254.50m. Dolomite is very soft and decompress rapidly in contact with air and water.		37652	171	172	3	14	30	65	1			
					172	173								
				37653	173	174	3	10	22	26	1			
					174	175								
					175	176								
				37654	176	177	3	8	28	32	1			
					177	178								
					178	179								
256.80	272.50	<u>SANDSTONE</u> : fine grained, well sorted, grey, massive, calcite and quartz veined (minor siderite) associated in part sandstone interbedded with very soft, crumbly black to dark grey porous sandstones and clayey and silty black dolomites. Zone very cavernous: 256.80-265.30; 266.50-267.60; 268.60-272.20. No bedding attitudes in massive sequence. Pb/Zn mineralized siderite/calcite vein? 256.90?	Minor Pb/Zn assoc. with siderite vein.	37655	179	180	3	8	44	270	1			
					180	181								
					181	182								
				37656	182	183	3	8	140	1200	2			
					183	184								
					184	185								
					185	186								
				37657	186	187	3	8	290	1150	2			
					187	188								
					188	189								
272.50	292.40	<u>LIMESTONE</u> : light grey, foliated, massive and laminar, moderately calcite veined calcilutites with interbeds of grey calcareous sandy calcarenites. Tectonic breccia 273.50-273.80. Ground very cavernous: 273.80-274.50; 275-275.50; 276-280; 281-284; 285-291; Calcareous core very porous, soft and badly fractured giving rise to poor recoveries.		37658	189	190	3	4	60	400	1			
					190	191								
					191	192								
				37659	192	193	3	6	130	410	1			
					193	194								
					194	195								
				37660	195	196	3	6	44	150	1			
					196	197								
292.40	295.50	<u>SIDERITE/ANKERITE MINERALIZED ROCK</u> : grey green, massive, very dense, sideritic veined ankerite rock containing disseminated colloform? textured sphalerite, with minor filigree textured galena, & 2% Pb/Zn. The hanging wall is manifest by a tectonic, siderite healed breccia. Cavity 292-292.20; 292.30-294.70.	Disseminated Pb/Zn mineralization averaging approx. 2% combined.	37661	197	198	3	6	50	140	1			
					198	199								
					199	200								
					200	201								
				37662	201	202	3	8	36	70	1			
					202	203								
295.50	316.10	<u>Interbedded Siltstones/Sandstones</u> : black and grey, weakly calcareous, waxy, porous, and very soft clayey siltstones and sandstones. Zone extremely cavernous: 295.50-297.20; 297.50-299.20; 300.80-301.20; 304.50-307.60; 309.80-312.20; 312.40-313.70. Core recovery was approximately 10%. Much of the core was washed during drilling.		37663	203	204	3	8	105	480	1			
					204	205								
					205	206								
					206	207								
				37664	207	208	3	12	55	110	1			
					208	209								
					209	210								
				37665	210	211	3	8	85	410	1			
					211	212								
					212	213								
316.10	324.60	<u>Interbedded Sandstones</u> : light grey, very porous, friable, soft, quartzose coarse grained sandstones interbedded with more massive, dense and hard, weakly quartz veined, fine grained sandstones. Recoveries over the softer zones approximately 20%. No core 324-326m.		37666	213	214	3	10	160	850	2			
					214	215								
					215	216								
				37667	216	217	3	8	90	220	<1			
					217	218								
					218	219								



METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE		Length	ASSAYS				
From	To				From	To		Cu	Pb	Zn	Ag	
341.60	354.40	MINERALIZED SIDERITE / CALCITE ROCK: cream coloured dense, massive, siderite veined, weakly to moderately mineralized rock. Rock foliated, waxy and the mineralization is either disseminated or veined galena with minor sphalerite. The core is badly fractured and broken giving recoveries varying from 45% to 75%. Layering in sections of the zone appears to be a primary feature enhanced by the influx of siderite into the sequence.	3.5% Pb/Zn combined.		219	220	3	8	40	95	<1	
					220	221						
					221	222						
				37669	222	223	3	8	105	190	<1	
					223	224						
				37670	224	225						
					225	226	3	8	70	230	<1	
					226	227						
					227	228						
				37671	228	229	3	8	100	250	<1	
			229	230								
			230	231								
		37672	231	232	3	6	24	130	<1			
			232	233								
			233	234								
		37673	234	235	3	10	60	280	<1			
			235	236								
			236	237								
		37674	237	238	3	10	230	1000	1			
			238	239								
			239	240								
		37675	240	241	3	8	125	2550	<1			
			241	242								
			242	243								
		37676	243	244	3	8	65	2200	<1			
			244	245								
			245	246								
			246	247								
			247	248								
			248	249								
		37677	249	250	3	50	150	740	2			
			250	251								
			251	252								
		37678	252	253	3	8	65	175	2			
			253	254								
			254	255								
		37679	255	256	3	10	310	1350	3			
			256	257								
			257	258								
			258	259								
			259	260								
			260	261								
			261	262								
			262	263								
			263	264								
			264	265								
		37680	265	266	3	6	225	520	2			
			266	267								
			267	268								
		37681	268	269	3	6	210	870	2			
			269	270								
			270	271								
		37682	271	272	3	16	170	5500	2			

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METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS					
From	To				From	To	Length	Ga	Pb	Zn	Ag		
					272	273							
					273	274							
				37683	274	275	2	10	230	1350			
					275	276							
					276	277		CAVITY	NO	CORE			
					277	278		"	"	"			
					278	279		"	"	"			
					279	280		"	"	"			
				37684	280	281	1	8	65	670		1	
					281	282		CAVITY	NO	CORE			
					282	283		"	"	"			
					283	284		"	"	"			
					284	285	1	12	32	440		<1	
					285	286		CAVITY	NO	CORE			
					286	287		"	"	"			
					287	288		"	"	"			
					288	289		"	"	"			
					289	290		"	"	"			
					290	291		"	"	"			
					291	292	1	10	32	85		<1	
				22091	292	293	1	13	498	3640		1	
				22092	293	294	1	7	535	3050		1	
				22093	294	295	1	33	3000	275%		3	
				22094	295	296	1	12	4200	136%		3	
					296	297		CAVITY	NO	CORE			
					297	298	4	8	60	180		<1	
					298	299							
					299	300							
					300	301							
					301	302	4	6	75	260		<1	
					302	303							
					303	304							
					304	305							
					305	306		CAVITY	NO	CORE			
					306	307		"	"	"			
					307	308	3	12	590	420		<1	
					308	309							
					309	310							
					310	311		CAVITY	NO	CORE			
					311	312		"	"	"			
					312	313		"	"	"			
					313	314	3	10	30	90		<1	
					314	315							
					315	316							
					316	317		CAVITY	NO	CORE			
					317	318		"	"	"			
					318	319	3	12	18	60		<1	
					319	320							
					320	321							
					321	322	3	6	8	24		<1	
					322	323							
					323	324							
					324	325	3	8	14	38		<1	



METERAGE		DESCRIPTION	MINERALIZATION %	SAMPLE NUMBER	METERAGE			ASSAYS					
From	To				From	To	Length	Cu	Pb	Zn	Ag		
					325	326							
					326	327							
					327	328	3	6	22	48	<1		
					328	329							
					329	330							
					330	331	3	12	20	50	<1		
					331	332							
					332	333							
					333	334	3	14	60	90	<1		
					334	335							
					335	336							
					336	337	3	14	125	480	<1		
					337	338							
					338	339							
					339	340	2	8	135	500	<1		
					340	341							
				22095	341	342	2	7	4200	3390	2		
					342	343							
				22096	343	344	2	<5	830	747	1		
					344	345							
				22097	345	346	2	<5	2700	3160	2		
					346	347							
				22098	347	348	1	<5	1.23%	2700	5		
				22099	348	349	1	15	2.41%	2800	8		
				22100	349	350	1	24	4.37%	4400	14		
				22101	350	351	1	<5	9400	1200	6		
				22102	351	352	1	<5	2300	2150	3		
				22103	352	353	1	<5	3800	1670	4		
				22104	353	354	1	<5	5500	819	6		
				22105	354	355	1	<5	2900	1480	3		
					355	356	1	NO	CORE	RECOVERY			
					356	357	1	"	"	"			
					357	358	1	"	"	"			
				22106	358	359	1	6	156	256	1		
					359	360	3	10	120	310	<1		
					360	361							
					361	362							
					362	363	3	8	40	60	<1		
					363	364							
					364	365							
					365	366	3	4	40	44	<1		
					366	367							
					367	368							
					368	369	3	10	30	110	<1		
					369	370							
					370	371							
					371	372	3	14	16	36	<1		
					372	373							
					373	374							
					END OF HOLE								
					373.50m.								

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