

Manitoba



**Industry, Economic Development and Mines
Petroleum**

**MESOZOIC DRILL STEM TESTS
AND
OIL & GAS SHOWS**

**PIERRE SHALE TO AMARANTH
(December 31, 2004)**

**Mesozoic Drill Stem Tests and Oil & Gas Shows
Pierre Shale to Amaranth
(December 31, 2004)**

Sources of Data

Data included in this table has been obtained from reports submitted by the oil companies to the Petroleum Branch; these include tour reports, abandonment reports, testing company reports, and core and sample descriptions. In addition, some reports of oil shows in core and samples have been taken from government descriptions.

It should be noted that this table is not “complete” in that it lists only those oil shows reported in drill stem tests and core and samples descriptions that have been filed with the government. Many oil shows and DSTs in the Amarnath Formation, Lower (Red Beds) Member (herein referred to as Lower Amaranth) that occur within Lower Amaranth pool boundaries have not been included in this listing.

Table of Mesozoic Formations

Period	Formation or Member
Cretaceous (upper)	Boissevain Formation
	Pierre Shale
	Coulter Member
	Odanah Member
	Millwood Member
	Pembina Member
	Gammon Ferruginous Member
	Niobrara Formation
	Morden Shale
	Favel Formation
	Assiniboine Member
	Keld Member
	Ashville Formation
	Belle Fourche Member
	(lower)
Newcastle Member	
Skull Creek Member	
Swan River Formation	
Jura-Cretaceous	Success 2?
Jurassic	Waskada Formation
	Melita Formation
	upper Melita Member
	lower Melita Member
	Reston Formation
Amaranth Formation	
Triassic?	Upper (Evaporite) Member
	Lower (Red Beds) Member

Table of Mesozoic Drill Stem Test and Oil & Gas Shows

Licence	UWI/ Location	Formation or Member	DST # and Interval (m)	Oil Show	Gas Show	DST Recovery / Show Comments	VO 1 st /2 nd (min)	FP 1 st /2 nd (kPa)	SI 1 st /2 nd (min)	SIP 1 st /2 nd (kPa)	DST Bottom-hole temperature (°C)
1032	100/14-29-001-20W1/00	Swan River	DST #1: 732.7-740.7			REC. 350.52 = 350.6 my fr WTR	30/	3102.64/	15/	4309.22/	
237	100/16-14-001-21W1/00	Swan River	DST #1: 764.4-778.2			REC. 505.05 = 505.1 WTR	0/60	/5171.07	0/0		
237	100/16-14-001-21W1/02	Swan River	DST #1: 764.4-778.2			REC. 505.05 = 505.1 WTR	0/60	/5171.07	0/0		
237	100/16-14-001-21W1/02	Lower Amaranth	DST #2: 1002.8-1008.3	X		REC. 75.9 = 75.9 gy oc MUD	0/60	/2068.43	0/0	/5688.18	
259	100/16-14-001-21W1/03	Swan River	DST #1: 764.4-778.2			REC. 505.05 = 505.1 WTR	0/60	/5171.07	0/0		
259	100/06-24-001-21W1/00	Swan River	DST #1: 747.7-752.2			REC. 387.1 = 387.1 WTR	0/60	/4136.86	0/0	/4653.96	
259	100/06-24-001-21W1/00	Lower Amaranth	DST #2: 997.3-1001.0			REC. 18.29 = 18.3 MUD	0/60		0/15	/	
3386	100/13-33-001-21W1/00	Upper Melita	DST #1: 795.0-804.5			REC. 63 = 58 my fr WTR; 5 MUD	10/60	/894	60/90	5874/5662	
253	100/04-36-001-21W1/00	Swan River	DST #1: 746.8-751.0			REC. 152.4 = 152.4 WTR	0/60		0/0		
245	100/03-27-001-22W1/00	Skull Creek	DST #1: 725.4-734.6			REC. 1.52 = 1.6 MUD	0/30		0/0		
245	100/03-27-001-22W1/00	Swan River	DST #2: 702.6-776.9			REC. 33.53 = 33.6 MUD	0/30		0/0		
245	100/03-27-001-22W1/00	Swan River	DST #3: 762.3-776.9			REC. 12.19 = 12.2 MUD	0/30		0/0		
3395	100/10-33-001-24W1/00	Lower Amaranth	DST #2: 848.0-858.0			REC. 0 = nil	10/60	/189	30/90	189/262	
2744	100/04-20-001-25W1/00	Lower Amaranth	DST #1: 890.0-925.0		X	REC. 23 = 23 MUD	10/90	/533	30/135	1511/1511	
2744	100/04-20-001-25W1/00	Lower Amaranth	DST #2: 918.0-925.0			REC. 8 = 8 MUD	10/180	/459	30/210	3106/2076	
2543	100/11-29-001-25W1/00	Belle Fourche	DST #1: 475.5-507.5			REC. 12.19 = 12.2 MUD	5/60	386.11/572.27	60/90	3454.27/3412.91	26.67
2543	100/11-29-001-25W1/00	Favel	483.5-484.8		X	Core has faint staining and strong gas smell when cut.					
4300	102/11-29-001-25W1/00	Lower Amaranth	DST #1: 889.0-897.0	X		REC. 308 = 38 sl oc s WTR; 265 s WTR; 5 oc MUD	10/60	/3304	60/120	7930/7599	
252	100/03-32-001-25W1/00	Swan River	DST #1: 600.2-602.9			REC. 571.5 = 571.5 sl s WTR	60/				
252	100/03-32-001-25W1/00	Swan River	DST #2: 647.7-655.3			REC. 0 = 0 WTR	14/				
252	100/03-32-001-25W1/00	Lower Amaranth	DST #3: 901.6-910.7			REC. 4.57 = 4.6 my WTR	0/60		0/0		
252	100/03-32-001-25W1/00	Lower Amaranth	DST #4: 900.1-910.7			REC. 18.29 = 18.3 MUD	0/60		0/0		
252	100/03-32-001-25W1/00	Lower Amaranth	DST #5: 908.3-929.6			REC. 91.44 = 30.5 my WTR; 30.5 sl s WTR; 30.5 MUD	0/60		0/0		
3841	100/09-32-001-25W1/00	Upper Amaranth	DST #1: 843.0-874.0			REC. 20 = 20 MUD	5/60	/606	60/120	1454/1151	
3841	100/09-32-001-25W1/02	Upper Amaranth	DST #1: 843.0-874.0			REC. 20 = 20 MUD	5/60	/606	60/120	1454/1151	
2343	100/04-35-001-25W1/00	Upper Melita	DST #1: 668.7-673.6	X		REC. 0.61 = 0.7 sl oc MUD	0/15	/275.79	60/60	6343.18/5860.55	
184	100/09-13-001-26W1/00	Swan River	DST #1: 596.8-604.1			REC. 152.4 = 152.4 MUD	60/				
184	100/09-13-001-26W1/00	Swan River	DST #2: 659.9-662.9			REC. 0 = 0 s WTR	17/	/6550.02			
184	100/09-13-001-26W1/00	Lower Amaranth	DST #3: 892.5-898.6			REC. 426.72 = 426.8 MUD	60/				

Licence	UWI / Location	Formation or Member	DST # and Interval (m)	Oil Show	Gas Show	DST Recovery / Show Comments	VO 1 st /2 nd (min)	FP 1 st /2 nd (kPa)	SI 1 st /2 nd (min)	SIP 1 st /2 nd (kPa)	DST Bottom-hole temperature (°C)
184	100/09-13-001-26W1/00	Lower Amaranth	DST #4: 894.0-918.4			REC. 19.81 = 19.9 sl gc MUD	914/		925/		
184	100/09-13-001-26W1/00	Lower Amaranth	DST #5: 914.4-924.8	X		REC. 18.29 = 18.3 gc oc MUD	45/				
3017	102/08-23-001-26W1/00	Lower Amaranth	909.0-912.5		X	Gas extracted for a limited time, producing 7-10 m ³ per day. No official production reported.					
2674	100/03-25-001-26W1/00	Belle Fourche	DST #1: 472.0-512.0			REC. 4 = 4 MUD	10/60	/606	30/60	3029/2665	
2674	100/03-25-001-26W1/02	Belle Fourche	DST #1: 472.0-512.0			REC. 4 = 4 MUD	10/60	/606	30/60	3029/2665	
3595	100/16-36-001-26W1/00	Keld	DST #1: 484.0-495.0			REC. 0 = 0 nil	10/60	373/367	60/120	1458/922	
14	100/11-09-001-27W1/00	Swan River	DST #1: 631.9-635.5			REC. 384.05 = 384.1 WTR	0/85		0/0		
14	100/11-09-001-27W1/00	Lower Amaranth	DST #2: 981.8-983.9			REC. 3.1 = 3.1 MUD	0/90	/3447.38	0/0		
14	100/11-09-001-27W1/00	Lower Amaranth	DST #3: 982.4-983.9	X		REC. 9.14 = 9.2 sl oc MUD	0/90		0/0		
238	100/02-27-001-27W1/00	Swan River	DST #1: 621.8-627.9			REC. 2.13 = 2.2 MUD	0/60		0/0		
238	100/02-27-001-27W1/00	Swan River	DST #2: 646.8-652.9			REC. 622.71 = 622.8 WTR	0/30	/6687.92	0/0		
238	100/02-27-001-27W1/00	Lower Melita	DST #3: 815.0-821.1			REC. 815.34 = 815.4 s WTR	0/30		0/0		
249	100/16-28-001-27W1/00	Swan River	DST #1: 621.8-627.9			REC. 2.13 = 2.2 MUD	55/				
249	100/16-28-001-27W1/00	Swan River	DST #2: 646.8-652.9			REC. 633.98 = 631.0 s WTR; 3.1 MUD	33/	/6687.92	20/	/6687.92	
249	100/16-28-001-27W1/00	Upper Melita	DST #4: 734.3-744.3			REC. 16.76 = 16.8 MUD	20/				
249	100/16-28-001-27W1/00	Upper Melita	DST #5: 752.2-757.1			REC. 91.5 = 91.5 MUD	3/				
4898	100/03-16-001-28W1/00	Keld	DST #1: 523.0-554.0			REC. 25 = 25.0 DM	10/60	/588	60/120	4026/880	
458	100/08-15-001-29W1/00	Swan River	DST #1: 698.0-703.5			REC. 0 = 0 my WTR	45/	/7067.13	15/		
NA	2-22-2-9 W1	Morden	~ 218		X	Gas sampled and analysed.					
NA	SE¼-23-2-9 W1	Niobrara ?	~ 183		X	Gas sampled and analysed.					
5213	100/04-27-002-09W1/00	Belle Fourche	DST #1: 237.0-261.6			REC. 65 = 65.0 WyDM	13/59	/814	60/89	1100/1007	
1013	100/16-11-002-10W1/00	Swan River	DST #1: 341.4-353.0			REC. 114.3 = 114.3 s WTR	15/	/1234.16	15/	/1234.16	37.78
1013	100/16-11-002-10W1/00	Reston	DST #2: 460.2-470.6			REC. 7.62 = 7.7 MUD	60/	68.95/			37.78
1013	100/16-11-002-10W1/00	Lower Amaranth	DST #3: 544.1-556.3			REC. 4.57 = 4.6 MUD	60/	34.47/	5/		37.78
NA	NE¼-5-2-25 W1	Pierre Shale	58.0-73.0		X	Gas pressure measured at 14 lbs.					
NA	8-2-25 W1	Pierre Shale	58.0-73.0		X	Gas pressure measured at 14 lbs.					
3186	100/12-09-002-25W1/00	Swan River	DST #1: 613.3-624.2	X		REC. 107 = 88 OIL; 1 s WTR; 18 oc MUD	0/60	/986	60/60	5723/4413	
4170	100/07-14-002-25W1/00	Lower Amaranth	DST #1: 855.0-862.0	X		REC. 390 = 390 OIL	60/375	/4866	10/45	6121/5943	

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4170	100/07-14-002-25W1/00	Reston	DST #2: 763.0-782.0	X		REC. 51 = 36 oflk WTR; 15 oflk MUD	60/120	/818	10/60	7278/7100	
3598	100/14-04-002-26W1/00	Reston	DST #1: 841.0-849.0			REC. 383 = 365 s WTR; 18 MUD	10/60	1429/3174	60/120	8183/8261	
2481	100/02-30-002-26W1/00	Reston	DST #2: 790.3-800.7			REC. 682.75 = 658.4 WTR; 24.4 fine SAND	5/20	7915.18/8190.97	60/45	8204.76/8211.66	
NA	SW¼-10-2-27 W1	Pierre Shale	< 65		X	Gas pressure measured at 19 lbs.					
394	100/02-29-002-29W1/00	Swan River	DST #1: 686.7-694.3			REC. 694.33 = 694.4 WTR	0/45	/6756.86	0/0	/6756.86	
246	100/03-20-003-19W1/00	Swan River-Upper Melita	DST #1: 521.2-550.2			REC. 548.64 = 548.7 sl my WTR	0/20	/5171.07	0/15		
2754	100/16-02-003-21W1/00	Lower Amaranth	DST #1: 769.0-800.0			REC. 40 = 40 wy MUD	8/85	/705	61/170	7362/7246	
312	100/12-16-003-21W1/00	Swan River	DST #1: 519.1-543.2			REC. 466.34 = 466.4 sl s WTR	0/60		0/0		
469	100/08-17-003-21W1/00	Upper Amaranth	DST #3: 744.0-747.1	X		REC. 0.91 = 1.0 oflk MUD	0/0		0/0		
509	100/05-23-003-24W1/00	Swan River	DST #2: 560.8-570.0			REC. 560.83 = 560.9 WTR	0/0	/5515.81	0/0	/5515.81	
299	100/01-15-003-25W1/00	Lower Amaranth	DST #1: 629.1-855.9			REC. 356.62 = 356.7 s WTR	0/60		0/0		
2631	100/04-01-003-28W1/00	Upper Amaranth	DST #1: 878.0-890.0			REC. 9 = 9 MUD	5/60	/525	60/90	2398/2548	
435	100/10-11-003-29W1/00	Swan River	DST #1: 709.3-719.9			REC. 0 = 0 my s WTR	0/53	/6943.02	0/60	/7404.97	
435	100/10-11-003-29W1/00	Lower Amaranth	DST #2: 992.4-996.7	X		REC. 12.19 = 12.2 gc oflk MUD	0/120		0/60	/1792.64	
1335	100/07-34-004-15W1/00	Newcastle	DST #1: 332.2-336.8			REC. 259.08 = 259.1 s WTR	0/30	/2620.01	0/15	/2654.48	
218	100/08-20-004-25W1/00	Swan River	DST #1: 548.9-554.7			REC. 0 = 0 WTR	0/0		0/0		
218	100/08-20-004-25W1/00	Lower Melita	DST #2: 652.3-659.9			REC. 18.29 = 18.3 WTR	0/120		0/0		
NA	11-5-7 W1	Favel ?	~ 36.5		X	Gas encountered in water well.					
512	100/02-35-005-08W1/00	Reston	DST #3: 331.6-334.7			REC. 27.43 = 27.5 s WTR	0/60		0/0		
2613	100/06-29-005-24W1/00	Lower Melita	DST #1: 575.0-585.0			REC. 123 = 123.0m MUD	5/60		30/60		
2604	100/09-30-005-24W1/00	Swan River	DST #5: 487.0-495.0			REC. 476 = 419 sl mc s WTR; 57 fine SND	5/60	4642/5125	60/90	5144/5198	35
346	100/09-14-005-25W1/00	Swan River-Waskada	DST #1: 483.4-504.7			REC. 0 = 0 sl s WTR	0/60		0/0		
3667	100/09-10-005-26W1/00	Upper Melita	DST #3: 560.0-570.0			REC. 23 = 23 MUD	10/0		60/0	4274/	
181	100/05-32-005-29W1/00	Swan River	DST #1: 634.6-659.0			REC. 560.83 = 560.9 wc MUD	0/50	/6205.28	0/0		
181	100/05-32-005-29W1/00	Swan River	DST #2: 666.9-673.6			REC. 609.6 = 243.9 mc WTR; 365.8 WTR	0/45	/6205.28	0/0		
181	100/05-32-005-29W1/00	Lower Melita	DST #3: 817.5-832.1			REC. 731.52 = 731.6 mc s WTR	0/60	/7239.5	0/0	/7239.5	
181	100/05-32-005-29W1/00	Lower Amaranth	DST #4: 941.8-947.3	X		REC. 0 = 487.7 mc OIL; 167.7 mc WTR; 106.7 oc MUD	0/50		0/0		

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181	100/05-32-005-29W1/00	Lower Amaranth	DST #5: 941.8-948.8	X		REC. 944.88 = 731.6 mc OIL; 61.0 WTR; 152.4 oc wc MUD	0/35	/9480.29	0/0		
1412	100/13-16-006-12W1/00	Skull Creek	DST #1: 207.3-240.8			REC. 126.49 = 126.5 sl my WTR	0/60	/1206.58	0/20	/1447.9	
NA	NW¼-14-6-22 W1	Pierre Shale	58.0-64.0		X	Initial gas pressure at 48 lbs, then decreases to 35 lbs after several hours.					
474	100/06-16-006-25W1/00	Lower Melita	DST #1: 592.2-603.8			REC. 469.7 = 469.7 s WTR	0/15	/5426.18	0/0	5426.18/5784.7	
202	100/07-27-006-27W1/00	Swan River	DST #1: 499.6-515.4			REC. 499.6 = 499.6 WTR	0/45		0/0		
202	100/07-27-006-27W1/00	Lower Melita	DST #2: 669.0-673.6			REC. 179.83 = 179.9 s WTR	0/45	/2413.17	0/0	/5240.02	
2523	100/16-34-006-29W1/00	Waskada	DST #1: 636.4-640.7			REC. 579.12 = 579.2 WTR	5/30	5839.86/5950.18	30/60	5950.18/5950.18	30
NA	14-25-7-1 W1	Glacial alluvium or unknown Cretaceous shale	38.4~48.8		X	Gas show in water well.					
NA	SW¼-21-7-8 W1	Favel ?	51.8-64.0		X	Sufficient gas to light farmhouse kitchen.					
NA	1-30-7-8 W1	Favel ?	~ 51.8		X	Water well recharges 32 lbs of gas pressure every 12 hrs.					
NA	NE¼-28-7-10 W1	Favel ?	45.7-76.2		X	Sufficient gas produced for household use.					
1399	100/11-19-007-18W1/00	Upper Melita	DST #1: 395.9-399.3			REC. 292.61 = 292.7 s WTR	0/30	/3343.96	0/15	/3378.43	
217	100/09-26-007-25W1/00	Upper Melita	DST #1: 469.4-484.9			REC. 9.14 = 9.2 MUD	0/30		0/15	/1730.58	
91	100/02-21-007-28W1/00	Swan River	DST #1: 562.7-569.7			REC. 385.88 = 385.9 s WTR	0/60	/3723.17	0/15	/4895.28	
3826	100/02-08-008-17W1/00	Westgate-Newcastle	DST #1: 242.0-249.0			REC. 190 = 190 s WTR	10/30	690/1945	30/60	2389/2463	
1532	100/10-17-008-17W1/00	Westgate-Newcastle	DST #1: 237.7-247.5			REC. 244.45 = 244.5 sl my s WTR	0/24	/2482.11	0/15	/2482.11	
44	100/03-01-008-18W1/00	Newcastle	DST #1: 265.2-275.8			REC. 245.36 = 245.4 my WTR	0/45		0/0		
1529	100/12-22-008-20W1/00	Reston	DST #3: 481.6-484.6			REC. 54.86 = 54.9 s WTR	0/60	/413.69	0/30	/4136.86	
1124	100/11-28-008-24W1/00	Lower Melita	DST #1: 525.5-546.8			REC. 487.68 = 432.9 s WTR; 54.9 MUD	0/60	/5171.07	0/15	/5171.07	
226	100/14-19-008-26W1/00	Skull Creek	DST #2: 437.1-446.2			REC. 1.52 = 1.6 MUD	0/30		0/0		
226	100/14-19-008-26W1/00	Upper Melita	DST #3: 527.9-531.6			REC. 365.76 = 365.8 s WTR	0/55	/3792.12	0/0	/5102.12	
226	100/14-19-008-26W1/00	Lower Melita	DST #4: 580.6-585.2			REC. 137.16 = 137.2 s WTR	0/45	/1378.95	0/0		
226	100/14-19-008-26W1/00	Lower Melita	DST #5: 592.8-597.4			REC. 560.83 = 560.9 s WTR	0/60	/5860.55	0/0	/7584.23	
226	100/14-19-008-26W1/00	Reston	DST #9: 641.9-645.3			REC. 377.95 = 378.0 s WTR	0/45	/4205.8	0/0	/6067.39	
472	100/14-28-008-27W1/00	Lower Amaranth ?	DST #1: 616.3-733.3			REC. 3.05 = 3.1 MUD	0/45		0/15		
472	100/14-28-008-27W1/00	Lower Melita	DST #4: 632.5-634.3	X		REC. 21.34 = 21.4 oc gy MUD	0/60		0/15	/7756.6	

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472	100/14-28-008-27W1/00	Lower Melita	DST #5: 634.0-635.8	X		REC. 627.89 = 460.3 gy OIL; 30.5 mc OIL; 137.2 oc my s WTR	0/60	/5860.55	0/15	/7756.6	
75	100/04-14-008-28W1/00	Swan River	DST #1: 542.5-549.6			REC. 502.92 = 503.0 WTR	0/45		0/0		
75	100/04-14-008-28W1/00	Reston	DST #2: 702.3-708.1			REC. 429.77 = 429.8 s WTR	0/15		0/0		
2416	102/04-05-009-16W1/00	Favel	DST #1: 182.0-188.4			REC. 112.78 = 100.6 s WTR; 12.2 MUD	35/	503.32/	30/	1254.85/	22.22
2416	102/04-05-009-16W1/00	Newcastle	DST #2: 203.0-209.4			REC. 91.44 = 91.5 s WTR	40/70	2178.74/2185.6 4	40/	2371.8/	22.22
2416	102/04-05-009-16W1/00	Newcastle	DST #3: 236.5-242.9			REC. 1.52 = 1.6 MUD	15/12	165.47/			22.22
1182	100/03-05-009-19W1/00	Upper Melita	DST #1: 342.9-354.2			REC. 328.27 = 328.3 s WTR	0/60	/3033.69	0/15	/3033.69	
1642	100/16-12-009-19W1/00	Upper Melita	DST #1: 299.9-303.0			REC. 30.5 = 30.5 MUD	0/30		0/30		
2399	1W0/13-24-009-20W1/00	Westgate- Newcastle-Skull Creek	DST #1: 265.2-277.4			REC. 183 = 54.9 my s WTR; 67.1 gy my s WTR; 61.0 MUD	5/60	3254.33/2158.0 6	60/60	3047.48/2633.8	20
2426	100/16-26-009-20W1/00	Belle Fourche- Westgate	DST #1: 251.5-257.6			REC. 94.49 = 76.2 s WTR; 18.3 wy MUD	0/30	/1965.01	30/40	2075.32/2075.32	16.67
955	100/06-33-009-25W1/00	Westgate- Newcastle-Skull Creek	DST #1: 361.2-378.0			REC. 156.67 = 156.7 my s WTR	0/120	/2344.22	0/60	/3171.59	
81	100/05-18-009-27W1/00	Reston	DST #1: 649.2-665.4			REC. 493.78 = 493.8 s WTR	0/60		0/0	/6205.28	
1977	100/01-13-009-29W1/00	Lower Melita	DST #1: 694.3-699.8			REC. 516.94 = 517.0 my s WTR	2/90	3592.17/6108.7 6	30/60	6115.65/6108.76	35
175	100/13-12-010-17W1/00	Skull Creek	DST #1: 219.2-226.2			REC. 30.48 = 30.5 MUD	0/60		0/0		
175	100/13-12-010-17W1/00	Lower Melita	DST #2: 258.2-264.6			REC. 243.84 = 243.9 s WTR	0/60		0/0		
2425	1W0/12-22-010-21W1/00	Skull Creek	DST #1: 309.1-315.2			REC. 219.46 = 128.1 s WTR; 67.1 MUD;24.4 SND	2/30	1675.43/2757.9	15/30	2771.69/2771.69	
2400	1W0/04-27-010-22W1/00	Skull Creek	DST #2: 247.2-261.5			REC. 0 = 0 s WTR (Records do not indicate fluid amount)	5/30	2792.38/2806.1 7	60/30	2833.75/2833.75	18.89
2400	1W0/04-27-010-22W1/00	Skull Creek	DST #1: 247.5-261.5			REC. 248.5 = 248.5 sl my s WTR					18.89
403	100/01-12-010-26W1/00	Westgate- Newcastle-Skull Creek	DST #1: 366.1-393.8			REC. 167.64 = 167.7 my WTR	0/60	/3102.64	0/15	/3516.33	
NA	NW¼-23-10-26 W1	Pierre Shale or Boissevain ?	NA		X	Gas pressure measured at 25 lbs.					
311	100/10-28-010-26W1/00	Lower Amaranth	DST #1: 602.9-648.6	X		REC. 320.04 = 122.0 MUD; 198.2 gy oc MUD	0/60		0/0		
155	100/16-20-010-27W1/00	Reston	DST #1: 659.0-662.9			REC. 480.1 = 480.1 s WTR	0/45		0/0		
315	100/07-02-010-28W1/00	Lower Melita- Reston	DST #2: 617.5-678.5			REC. 481.58 = 262.2 sl my s WTR; 219.5 MUD	0/60	/6032.91	0/15		
983	100/13-11-010-28W1/00	Reston	DST #1: 670.6-675.1			REC. 128.02 = 122.0 sl my s WTR; 6.1 MUD	0/60	/1310	0/30	/5481.33	25.56

Licence	UWI / Location	Formation or Member	DST # and Interval (m)	Oil Show	Gas Show	DST Recovery / Show Comments	VO 1 st /2 nd (min)	FP 1 st /2 nd (kPa)	SI 1 st /2 nd (min)	SIP 1 st /2 nd (kPa)	DST Bottom-hole temperature (°C)
45	100/08-29-010-28W1/00	Reston-Upper Amaranth	DST #1: 682.8-694.0			REC. 158.5 = 158.5 s WTR	60/0		0/0		
229	100/08-11-010-29W1/00	Skull Creek	DST #1: 522.4-523.6			REC. 64.01 = 64.1 MUD	0/45		0/0		
3853	100/14-14-010-29W1/00	Upper Amaranth	DST #1: 714.5-722.0			REC. 75 = 75 sl wc MUD	15/60	/913	60/90	6055/5935	30
3853	100/14-14-010-29W1/02	Upper Amaranth	DST #1: 714.5-722.0			REC. 75 = 75 sl wc MUD	15/60	/913	60/90	6055/5935	30
2429	1S0/04-03-011-21W1/00	Belle Fourche	DST #1: 245.7-251.2			REC. 67.06 = 67.1 MUD	0/30	/1992.59	30/30	2344.22/2275.27	19.44
2402	1W0/04-13-011-22W1/00	Newcastle	DST #1: 231.0-237.1			REC. 221.89 = 221.9 my s WTR	10/30	2613.11/2557.96	30/20	2647.59/2640.69	16.11
1228	100/04-27-011-22W1/00	Westgate	DST #1: 279.5-285.0			REC. 3.05 = 3.1 MUD	0/45		0/15		
1228	100/04-27-011-22W1/00	Skull Creek	DST #2: 318.2-323.1			REC. 6.1 = 6.1 MUD	0/45		0/15		
532	100/02-32-011-25W1/00	Westgate	DST #1: 345.0-348.1	X		REC. 0.91 = 1.0 oflk MUD	0/30		0/0	/1378.95	
532	100/02-32-011-25W1/00	Westgate	DST #2: 344.7-348.7			REC. 1.22 = 1.3 MUD	0/60		0/0	/1723.69	
823	100/06-25-011-26W1/00	Newcastle	DST #1: 351.1-356.0			REC. 319.43 = 319.5 s WTR	0/60	/2620.01	0/15	/3033.69	
68	100/15-16-011-27W1/00	Lower Melita	DST #1: 577.6-584.3			REC. 541.63 = 541.7 WTR	0/60	/5240.02	0/0		
68	100/15-16-011-27W1/00	Lower Amaranth	DST #2: 645.3-653.8	X		REC. 9.14 = 9.2 oc MUD	0/60		0/0		
2497	102/09-05-011-28W1/00	Upper Amaranth	DST #3: 680.3-687.0			REC. 213.36 = 213.4 WTR	10/120	599.84/2378.69	60/135	5791.6/5626.12	
3500	100/13-24-011-28W1/00	Reston-Upper Amaranth	DST #1: 648.0-652.0			REC. 370 = 20 my s WTR; 330 s WTR; 20 MUD	15/90	518/2302	60/135	5622/5658	27
134	100/07-08-011-29W1/00	Lower Melita	DST #1: 686.7-691.6			REC. 640.08 = 640.1 s WTR	0/30		0/0		
134	100/07-08-011-29W1/00	Reston	DST #2: 704.7-710.2			REC. 443.48 = 443.5 s WTR	0/30		0/0		
NA	100/03-09-012-07W1/00	Lower Amaranth?	?		X	Gas sampled and analysed.					
NA	NE¼-35-12-7 W1	Lower Amaranth	59.1-61.0		X	Gas sampled and analysed in exploratory gypsum hole.					
2413	100/04-08-012-23W1/00	Newcastle	DST #1: 333.8-352.0			REC. 7.62 = 7.7 MUD	3/60	241.32/289.58	30/60	2757.9/2751.01	16.67
640	100/03-17-012-24W1/00	Westgate	DST #1: 349.0-352.0			REC. 128.02 = 128.1 s WTR	0/60		0/0		
640	100/03-17-012-24W1/00	Swan River	DST #3: 381.0-388.6			REC. 54.86 = 54.9 s WTR	0/60		0/0		
640	100/03-17-012-24W1/00	Upper Melita	DST #4: 443.5-459.3			REC. 21.34 = 21.4 s MUD	0/60	/620.53	0/0	/3171.59	
640	100/03-17-012-24W1/00	Lower Melita	DST #5: 472.4-483.1			REC. 384.05 = 384.1 s WTR	0/60	/4136.86	0/0	/4309.22	
693	100/02-26-012-25W1/00	Westgate-Newcastle-Skull Creek	DST #1: 360.9-377.3			REC. 1.52 = 1.6 MUD	0/15		0/30		
541	100/01-10-012-26W1/00	Westgate	DST #1: 336.8-341.4			REC. 234.7 = 234.7 sl s WTR	0/45	/2171.85	0/30	/2792.38	
534	100/04-32-012-26W1/00	Westgate-Newcastle	DST #1: 349.9-354.2			REC. 289.56 = 289.6 s WTR	0/30		0/0		
186	100/09-22-012-27W1/00	Newcastle-Skull Creek	DST #1: 369.7-375.8			REC. 301.75 = 301.8 fr WTR	0/40		0/0		
186	100/09-22-012-27W1/00	Lower Melita	DST #2: 511.5-518.8			REC. 414.6 = 414.6 fr WTR	0/30		0/0		

Licence	UWI / Location	Formation or Member	DST # and Interval (m)	Oil Show	Gas Show	DST Recovery / Show Comments	VO 1 st /2 nd (min)	FP 1 st /2 nd (kPa)	SI 1 st /2 nd (min)	SIP 1 st /2 nd (kPa)	DST Bottom-hole temperature (°C)
420	100/05-21-012-29W1/00	Belle Fourche-Westgate	DST #1: 435.9-459.9			REC. 73.2 = 73.2 MUD	0/60		0/0		
420	100/05-21-012-29W1/00	Swan River-Upper Melita	DST #2: 513.3-525.5			REC. 231.65 = 231.7 my s WTR	0/60	/2688.96	0/0	/3378.43	
2532	100/16-29-012-29W1/00	Morden-Favel	DST #1: 353.6-378.0			REC. 1.52 = 1.6 MUD	5/20	131/344.74	30/60	799.79/572.27	23.33
642	100/04-27-013-23W1/00	Westgate-Newcastle	DST #1: 369.4-374.6			REC. 27.43 = 27.5 MUD	0/60		0/0	/2206.32	
642	100/04-27-013-23W1/00	Swan River	DST #2: 401.7-405.4			REC. 246.89 = 246.9 swc MUD	0/20	/1723.69	0/0	/1723.69	
642	100/04-27-013-23W1/00	Lower Melita	DST #3: 499.9-509.0			REC. 342.9 = 342.9 s WTR	0/20	/3516.33	0/0	/3585.27	
523	100/12-28-013-26W1/00	Westgate	DST #1: 351.7-356.3			REC. 3.05 = 3.1 MUD	0/30		0/0		
523	100/12-28-013-26W1/00	Westgate-Newcastle	DST #2: 358.1-361.5			REC. 295.66 = 295.7 sl s WTR	0/45	/3171.59	0/0	/3447.38	
240	100/02-03-013-27W1/00	Belle Fourche	DST #2: 364.2-368.8			REC. 22.86 = 22.9 MUD	0/60		0/0		
240	100/02-03-013-27W1/00	Newcastle	DST #3: 399.0-406.6			REC. 92.96 = 93.0 s WTR	0/60		0/0	/2344.22	
240	100/02-03-013-27W1/00	Upper Melita	DST #4: 499.3-503.5			REC. 352.35 = 352.4 s WTR	0/30	/2620.01	0/0	/4136.86	
240	100/02-03-013-27W1/00	Upper Melita	DST #5: 499.3-503.5			REC. 543.46 = 543.5 \$s WTR	0/35	/5171.07	0/0		
240	100/02-03-013-27W1/00	Reston-Upper Amaranth	DST #6: 564.8-568.1			REC. 163.1 = 163.1 \$s WTR	0/60	/1724	0/0	/5861	
540	100/03-28-013-29W1/00	Upper Melita	DST #1: 611.4-617.2			REC. 548.64 = 548.7 wc MUD	0/60		0/0		
1255	100/12-10-014-25W1/00	Jurassic	DST #1: 445.0-452.6			REC. 9.14 = 9.2 MUD	0/45		0/15	/2516.59	
449	100/15-10-014-27W1/00	Westgate-Skull Creek	DST #1: 259.1-269.7			REC. 0 =	0/0		0/0		
449	100/15-10-014-27W1/00	Swan River	DST #2: 305.4-309.1			REC. 196.6 = 196.6 s WTR	0/60		0/0		
2626	100/07-05-014-29W1/00	Upper Amaranth	DST #2: 606.0-613.0			REC. 327 = 327 sl s WTR (Reversed out)	5/60	/6823	30/60	/7311	
1985	100/09-05-014-29W1/00	Lower Melita	DST #1: 539.5-541.3			REC. 112.47 = 103.4 WTR; 9.2 wc MUD	0/60	/1503.06	20/20	4736.7/4509.17	
347	100/14-05-014-29W1/00	Lower Melita	DST #1: 544.7-559.3	X		REC. 911.35 = 442.0 oc MUD; 469.4 MUD	0/40	/4826.33	0/0	/4826.33	
1743	100/08-07-014-29W1/00	Upper Melita-Lower Melita	DST #1: 538.0-550.2			REC. 109.73 = 109.8 my s WTR	0/60	/1310	0/30	/3998.96	
2492	100/08-08-014-29W1/00	Upper Melita	DST #1: 535.8-539.8	X		REC. 351.43 = 18.3 oflk s WTR; 333.2 s WTR	5/60	813.58/3757.64	60/60	4460.91/4454.01	15.56
2556	100/09-09-014-29W1/00	Lower Melita	DST #1: 521.2-530.4			REC. 204.22 = 204.3 my s WTR	10/75	889.42/2461.43	30/120	4316.12/4364.38	25.56
2076	100/05-11-014-29W1/00	Reston	DST #1: 566.9-579.1			REC. 484.63 = 45.8 my WTR; 426.8 sl \$ WTR; 12.2 SND	2/60	4495.38/4943.54	30/60	4922.86/4943.54	27.22
561	100/04-29-015-26W1/00	Swan River	DST #1: 387.1-402.3			REC. 207.26 = 179.9 s WTR; 27.5 MUD	0/30		0/0		
247	100/09-21-015-27W1/00	Swan River	DST #1: 353.9-369.4			REC. 128.02 = 91.5 my WTR; 36.6 MUD	0/10	/2068.43	0/0		

Licence	UWI / Location	Formation or Member	DST # and Interval (m)	Oil Show	Gas Show	DST Recovery / Show Comments	VO 1 st /2 nd (min)	FP 1 st /2 nd (kPa)	SI 1 st /2 nd (min)	SIP 1 st /2 nd (kPa)	DST Bottom-hole temperature (°C)
247	100/09-21-015-27W1/00	Lower Melita	DST #2: 414.2-431.6			REC. 335.28 = 335.3 sl s WTR	0/30	/3619.75	0/15	/3619.75	
1970	100/10-28-015-27W1/00	Reston-Lodgepole	DST #2: 463.3-474.0			REC. 403.86 = 120.8 my s WTR; 283.2 s WTR	3/120	427.48/3985.17	30/60	3992.07/3992.07	25.56
232	100/15-29-015-28W1/00	Swan River	DST #4: 370.6-377.3			REC. 394.11 = 339.3 s WTR; 54.9 MUD	0/60	/3378.43	0/0	/3378.43	
232	100/15-29-015-28W1/00	Swan River	DST #5: 391.1-422.8			REC. 279.5 = 279.6 my s WTR	0/30	/3585.27	0/0	/3585.27	
2120	100/04-32-015-28W1/00	Swan River	DST #1: 380.7-399.0			REC. 295.35 = 256.4 my s WTR; 39.1 MUD	0/30	/2964.75	0/30	/3102.64	
2120	100/04-32-015-28W1/00	Lower Melita	DST #2: 442.0-460.2			REC. 371.55 = 149.1 my s WTR; 94.5 MUD; 128.1 wy MUD	0/30	/3723.17	0/30	/3723.17	
1252	100/08-34-016-21W1/00	Skull Creek-Swan River	DST #1: 399.3-414.5			REC. 109.73 = 109.8 s WTR	0/60	/1551.32	0/15	/1896.06	
1252	100/08-34-016-21W1/00	Upper Melita	DST #3: 420.6-432.8			REC. 73.15 = 73.2 wy MUD	0/60	/758.42	0/0		
4744	100/02-07-016-26W1/00	Upper Amaranth	DST #7: 515.0-520.0			REC. 9 = 9 MUD	10/60		60/90		
3207	100/13-17-016-29W1/00	Lower Melita	DST #1: 450.0-455.0	X		REC. 249 = 116 WTR; 95 oflk WTR; 38 oflk MUD	5/60	856/3658	60/90	3818/3818	23
3070	100/01-21-016-29W1/00	Lower Melita	435.0-446.0	X		Oil reported in core analysis report.					
2644	100/04-22-016-29W1/00	Upper Melita-Lower Melita	430.0-478.0	X		Cuttings are oil stained, fluoresce and have a slight cut.					
3177	102/04-22-016-29W1/00	Lower Melita	433.0-450.8	X		Oil reported in core analysis report.					
17	100/01-27-017-26W1/00	Swan River	DST #1: 384.0-391.7			REC. 1.52 = 1.6 MUD	0/60		0/0		
17	100/01-27-017-26W1/00	Swan River	DST #2: 389.5-396.2			REC. 315.5 = 315.5 MUD	0/11		0/0		
17	100/01-27-017-26W1/00	Swan River	DST #3: 385.9-396.2			REC. 192.1 = 192.1 MUD	0/5		0/0		
17	100/01-27-017-26W1/00	Upper Melita	DST #4: 422.8-427.6			REC. 147.83 = 137.2 my s WTR; 10.7 MUD	0/60	/1723.69	0/0		
17	100/01-27-017-26W1/00	Upper Melita	DST #5: 434.6-439.2			REC. 96.01 = 82.3 my s WTR; 13.8 MUD	0/32	/2413.17	0/0		
17	100/01-27-017-26W1/00	Lower Melita	DST #6: 469.7-475.8			REC. 22.86 = 22.9 MUD	0/44		0/0		
17	100/01-27-017-26W1/00	Lower Melita	DST #7: 480.1-484.0			REC. 205.74 = 192.1 s WTR; 13.8 MUD	0/60	/2413.17	0/0		
2501	100/13-13-018-21W1/00	Favel	DST #1: 290.8-295.0		X	REC. 1.52 = 1.6 MUD	5/15	/606.74	30/30	2316.64/606.74	
300	100/04-30-018-26W1/00	Swan River	DST #2: 402.9-415.4			REC. 22.86 = 22.9 my s WTR	0/60		0/0		
300	100/04-30-018-26W1/00	Swan River	DST #3: 428.5-439.5			REC. 182.88 = 155.5 s WTR; 27.5 MUD	0/60		0/0		
300	100/04-30-018-26W1/00	Reston	DST #7: 513.6-518.2			REC. 304.8 = 304.8 s WTR	0/60		0/0		
300	100/04-30-018-26W1/00	Upper Amaranth	DST #8: 545.6-551.7			REC. 353.57 = 353.6 s WTR	0/50		0/0		

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19	100/16-18-018-29W1/00	Swan River	DST #4: 385.3-388.6			REC. 280.42 = 274.4 s WTR; 6.1 MUD	0/30	/2930.27	0/0		
19	100/16-18-018-29W1/00	Success2?	DST #6: 401.7-417.0			REC. 70.1 = 70.2 sl wc MUD	0/30	/3275.01	0/0		
19	100/16-18-018-29W1/00	Success2?	DST #7: 402.0-417.3			REC. 280.42 = 246.9 gy s WTR; 33.6 MUD	0/60	/3102.64	0/0		
42	100/16-32-019-27W1/00	Skull Creek-Swan River	DST #1: 385.6-392.6			REC. 115.82 = 109.8 s WTR; 6.1 MUD	0/60	/1723.69	0/0		
4949	100/16-11-021-25W1/00	Swan River-Lower Melita	DST #1: 421.0-428.0			REC. 157 = 15.0 DM;142.0 W	5/20	/2271	56/60	2417/2418	
1670	100/02-20-023-27W1/00	Favel	DST #1: 263.3-268.5			REC. 1.52 = 1.6 MUD	0/20		0/20		
255	100/13-04-024-27W1/00	Lower Melita	DST #1: 412.4-415.4			REC. 64.1 = 64.1 MUD	0/0		0/0		
2217	100/13-04-024-27W1/00	Lower Melita	DST #3: 410.6-415.4			REC. 126.49 = 126.5 s MUD	0/30		0/0		
2217	100/13-04-024-27W1/00	Upper Amaranth	DST #4: 466.3-471.5			REC. 1.52 = 1.6 MUD	0/60		0/0		
984	100/16-18-030-25W1/00	Swan River	DST #1: 435.6-441.7			REC. 19.81 = 19.9 MUD	0/30		0/30		
911	100/02-02-031-25W1/00	Swan River	DST #1: 416.1-420.6			REC. 7.62 = 7.7 MUD	0/30		0/15		
863	100/16-35-034-26W1/00	Swan River	DST #1: 268.8-279.2			REC. 15.24 = 15.3 my WTR	0/30		0/0		
2451	100/11-03-039-29W1/00	Belle Fourche-Westgate	DST #1: 280.4-298.7			REC. 149.35 = 149.4 my WTR	7/60	/1316.9	45/62	1399.64/1385.85	15.56
2451	100/11-03-039-29W1/00	Millwood	DST #2: 146.3-167.6			REC. 73.15 = 61.0 my WTR; 12.2 MUD	0/45	/1075.58	0/60	/1089.37	10
NA	4-7-56-26 W1	Glacial alluvium?	NA			Sufficient gas produced to heat home.					