

**Paramount Resources / Kim Macleod
Para et al Cameron 2M-73
Start Test Date: 2005/04/01**

FieldNotes

Field Measurements

Para et al Cameron 2M-73
Formation: Sulphur Point Dolomite
Pool: Sulphur Point Dolomite
Job Number: V-0396

[illegible]

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		Tubing										Casing		Vortex																			
	Clock	Flow	Choke	Swab	Tag	Pull	Tubing	Draw	Casing	Draw	Flow	Static	Meter	Gas	Cum.	Fluid	Cum.		Oil	Cum.	Water	Cum.											
Date	Time	Time	Size	#	Depth	Depth	Pres	Down	Pres	Down	Temp	Pres	Temp	Rate	Gas	Prod.	Fluid	BSW	Prod.	Oil	Prod.	Water	pH	Sal	API	Sand	H ² S						
yyyy/mm/d	hh:mm:s	hr	mm		m	m	kPa(g)	%	kPa(g)	%	°C	kPa(g)	°C	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm		%	%							
143	2005/04/03	22:03:00	25.72		Start shipping to 64.0m ³ tank.																												
144		22:16:00	25.93		Stop shipping.																												
145		22:20:00	26.00		14	723	1042																										
146		22:35:00	26.25		14			20		110							1.45	53.59		1.38	33.94	0.07	19.65										
147		22:37:00	26.28		15	547	940																										
148		22:51:00	26.52		15			20		150							1.08	54.67	10	0.97	34.91	0.11	19.76	7	7.0								
149		22:54:00	26.57		16	723	1042																										
150		23:06:00	26.77		16			20		200							1.46	56.13		1.31	36.23	0.15	19.90										
151		23:11:00	26.85		17	607	991																										
152		23:24:00	27.07		17			50		320							1.36	57.49	4	1.31	37.53	0.05	19.96	7	7.0								
153		23:29:00	27.15		18	723	1042																										
154		23:41:00	27.35		18			20		440							1.36	58.85		1.31	38.84	0.05	20.01										
155		23:53:00	27.55		19	833	1140																										
156	2005/04/04	00:10:00	27.83		19			20		640							1.34	60.19	4	1.29	40.13	0.05	20.07	6									
157		00:13:00	27.88		20	833	1140																										
158		00:31:00	28.18		20			20		760							1.07	61.26		1.03	41.15	0.04	20.11										
159		00:32:00	28.20		Start shipping to 64.0m ³ tank.																												
160		00:48:00	28.47		Stop shipping																												
161		00:51:00	28.52		21	833	1140																										
162		01:07:00	28.78		21			20		960							1.15	62.41	4	1.10	42.26	0.05	20.15	6									
163		01:17:00	28.95		22	833	1140																										
164		01:34:00	29.23		22			20		1125							1.00	63.41		0.96	43.22	0.04	20.19										

2005/04/03 06.08.00 To 2005/04/04 03 50:00

Gas	0.000	Cum	0.000	10 ³ m ³
Oil	35.440	Cum.	49.913	m ³
Water	8.721	Cum.	20.368	m ³
Condensate	0 000	Cum.	0 000	m ³

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Date	Clock Time	Flow Time	Choke Size	Swab #	Tag Depth	Pull Depth	Tubing		Casing		Vortex														pH	Sal ppm	API	Sand %	H ² S %
							Pres	Down	Pres	Down	Temp	Static Pres	Meter Temp	Gas Rate	Cum. Gas	Fluid Prod.	Cum. Fluid	Oil BSW	Prod.	Oil	Prod.	Water	Cum.						
yyyy/mm/d	hh:mm:ss	hr	mm	m	m	kPa(g)	%	kPa(g)	%	°C	kPa(g)	°C	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³								
121	2005/04/03	19:16:00	22.93		4	607	940																						
122		19:27:00	23.12		4			1		0							1.39	43.78		1.18	29.28	0.21	14.50						
123		19:29:00	23.15		Fluid gain after swab.																								
124		19:30:00	23.17														0.08	43.86		0.07	29.34	0.01	14.52						
125		19:31:00	23.18		5	607	940																						
126		19:43:00	23.38		5			5		0							0.88	44.74	99	0.01	29.35	0.87	15.39	6	5.0				
127		19:45:00	23.42		6	778	1042																						
128		19:55:00	23.58		6			5		0							0.97	45.71		0.01	29.36	0.96	16.35						
129		19:57:00	23.62		7	665	1091																						
130		20:08:00	23.80		7			10		1							0.86	46.57	95	0.04	29.41	0.82	17.16	6	6.0				
131		20:10:00	23.83		8	723	1042																						
132		20:25:00	24.08		8			10		1							0.74	47.31		0.04	29.44	0.70	17.87						
133		20:28:00	24.13		9	833	1140																						
134		20:43:00	24.38		9			10		1							1.12	48.43	95	0.06	29.50	1.06	18.93	6	7.0				
135		20:46:00	24.43		10	833	1140																						
136		20:58:00	24.63		10			20		1							0.24	48.67		0.01	29.51	0.23	19.16						
137		21:00:00	24.67		11	833	1140																						
138		21:13:00	24.88		11			20		1							1.35	50.02	15	1.15	30.66	0.20	19.36	6	7.0				
139		21:15:00	24.92		12	607	940																						
140		21:28:00	25.13		12			20		1							1.08	51.10		0.92	31.58	0.16	19.52						
141		21:47:00	25.45		13	833	1140																						
142		22:01:00	25.68		13			20		50							1.04	52.14	5	0.99	32.56	0.05	19.58	6	7.0				

2005/04/03 06:08 00 To 2005/04/04 03:50:00

Gas	0.000	Cum.	0.000	10 ³ m ³
Oil	35.440	Cum.	49.913	m ³
Water	8.721	Cum.	20.368	m ³
Condensate	0.000	Cum.	0.000	m ³

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Date	Clock Time	Flow Time	Choke Size	Swab #	Tag Depth	Pull Depth	Tubing		Casing		Flow Temp	Static Pres	Meter Temp	Vortex		Fluid Cum.	Cum. Fluid	Oil				Cum. Water	pH	Sal	API	Sand	H ² S	
							Pres	Down	Pres	Down				Gas Rate	Cum. Gas			BSW	Prod.	Cum. Oil	Prod. Water							
							kPa(g)	%	kPa(g)	%				°C	10 ³ m ³ /			10 ³ m ³	m ³	m ³	%							m ³
99	2005/04/03				Total swabs pulled = 25.																							
100					Total fluid to recover =18 m ³ .																							
101					Total water recovered = 13.96 m ³ .																							
102					Total oil produced = 26.16 m ³ .																							
103					Total fluid recovered = 40.12 m ³ .																							
104					Total fluid left to recover = 4.04 m ³ .																							
105					Last a.p.i. = 33.2@15.6°C.																							
106					Last H2S reading = 1.9 %.																							
107		10:00:00	13.67	0.00																								
108		10:00:00	13.67		Rig crew coming out of the hole with the acid tools.																							
109		14:15:00	17.92		Acid tools are out of the hole.																							
110		14:30:00	18.17		Rig crew running in the tubing.																							
111		16:30:00	20.17		Rig crew landed the dognut.																							
112		17:00:00	20.67		Rig crew taking off the b.o.p.s.																							
113		18:00:00	21.67		Rig crew installed wellhead hookup flowline to swab.																							
114		18:29:00	22.15		Start running in to swab.																							
115		18:30:00	22.17		1	235	517																					
116		18:43:00	22.38		1			1		-1							0.00	40.12		0.00	26.17	0.00	13.96					
117		18:45:00	22.42		2	665	1091																					
118		18:55:00	22.58		2			1		-1							1.50	41.62		1.27	27.44	0.22	14.18					
119		19:02:00	22.70		3	607	940																					
120		19:14:00	22.90		3			1		-1							0.77	42.39		0.65	28.10	0.12	14.30					

2005/04/03 06:08:00 To 2005/04/04 03:50:00

Gas	0.000	Cum.	0.000 10 ³ m ³
Oil	35 440	Cum.	49 913 m ³
Water	8.721	Cum.	20.368 m ³
Condensate	0 000	Cum.	0 000 m ³

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Date	Clock Time	Flow Time	Choke Size	Swab #	Tag Depth	Tubing		Casing		Vortex		Static Pres	Meter Temp	Gas Rate	Cum. Gas	Fluid Prod.	Cum. Fluid	Oil		Cum. Oil	Water Prod.	Cum. Water	pH	Sal ppm	API	Sand %	H ² S %
						Pull Depth	Draw Pres	Draw Pres	Draw Temp	Flow Temp	Gas Cum.							BSW %	Prod. Oil								
						m	kPa(g)	%	kPa(g)	%	°C	kPa(g)	°C	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³					
76	2005/04/03	06:08:00	9.80		21		40		1250							2.22	26.12	15	1.89	14.47	0.33	11.65	4	15.0			
77		06:08:00	9.80		Well is flowing																						
78		06:20:00	10.00				0		1250							0.24	26.38		0.20	14.68	0.04	11.68					
79		06:21:00	10.02		22	488	833																				
80		06:33:00	10.22		22		40		1250							1.43	27.79	15	1.22	15.89	0.21	11.90	4	15.0			
81		06:40:00	10.33		Started to ship to 64 m ³ tank well is flowing.																						
82		07:30:00	11.17		Finished shipping.																						
83		07:45:00	11.42		H2S reading = 1.9 %.																						
84		07:50:00	11.50				0		1375							1.88	29.67	15	1.60	17.49	0.28	12.18	4	15.0	26.5		1.9
85		07:50:00	11.50		23	0	394																				
86		07:55:00	11.58		23		20		1400							0.43	30.10	22	0.34	17.83	0.09	12.27	5	14.0			
87		07:57:00	11.62		24	0	723																				
88		08:12:00	11.87		24		50		1400							1.08	31.18		0.84	18.67	0.24	12.51					
89		08:14:00	11.90		25	0	723																				
90		08:24:00	12.07		25		50		1400							1.03	32.21	15	0.88	19.54	0.15	12.67	5	14.0			
91		08:25:00	12.08		Well is flowing.																						
92		08:45:00	12.42				140		1500							2.11	34.32	15	1.79	21.34	0.32	12.98	5	14.0			
93		09:00:00	12.67				100		1700							1.84	36.16	20	1.47	22.81	0.37	13.35	5	14.0			
94		09:15:00	12.92				110		1700							0.48	36.64	17	0.40	23.21	0.08	13.43	5	13.0			
95		09:30:00	13.17				50		1820							0.83	37.47	17	0.69	23.90	0.14	13.57	6	13.0			
96		09:45:00	13.42				50		1950							0.81	38.28	13	0.70	24.60	0.11	13.68	6	13.0	33.2		1.9
97		10:00:00	13.67				110		1950							1.84	40.12	15	1.56	26.16	0.28	13.96	6	13.0			
98		10:00:00	13.67	0.00	0	0	0	0	0		0.0	0	0.0	0.00	0.00	0.00		0				0					

2005/04/03 06:08.00 To 2005/04/04 03:50:00
 Gas 0.000 Cum. 0.000 10³m³
 Oil 35.440 Cum. 49.913 m³
 Water 8.721 Cum. 20 368 m³
 Condensate 0.000 Cum. 0 000 m³

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Job Number: V-0396

Date	Clock Time	Flow Time	Choke Size	Swab #	Tag Depth	Pull Depth	Tubing		Casing		Flow Temp	Static Pres	Meter Temp	Vortex			Fluid Cum.	Cum. BSW	Oil Prod.	Cum. Oil	Water Prod.	Cum. Water	pH	Sal ppm	API	Sand %	H ² S %
							Tubing Pres	Draw Down	Casing Pres	Draw Down				Gas Rate	Gas Cum.	Prod. m ³											
							kPa(g)	%	kPa(g)	%				10 ³ m ³ /	10 ³ m ³	m ³											
							mm	m	m	kPa(g)				%	°C	kPa(g)											
70	2005/04/03				Total swabs pulled = 21.0																						
71					Total fluid to recover = 18.0 m ³ .																						
72					Total water recovered = 11.31 m ³ .																						
73					Total oil produced = 12.59 m ³ .																						
74					Total fluid recovered = 23.90 m ³ .																						
75					Total fluid left to recover = 6.69 m ³ .																						

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[illegible]

2005/04/02 08:00:00 To 2005/04/03 06:08:00

Gas		Cum.	10 ³ m ³
Oil	14.473	Cum.	14.473 m ³
Water	11.648	Cum.	11 648 m ³
Condensate	0 000	Cum.	0.000 m ³

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[illegible]

2005/04/02 07 00:00 To 2005/04/02 08.00:00

Gas		Cum.	10 ³ m ³
Oil		Cum.	m ³
Water		Cum.	m ³
Condensate	0.000	Cum.	0 000 m ³

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[illegible]

2005/04/02 07:00:00 To 2005/04/02 08:00:00

Gas		Cum.	10 ³ m ³
Oil		Cum.	m ³
Water		Cum.	m ³
Condensate	0.000	Cum.	0.000 m ³

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						Tubing		Casing		Vortex																			
	Clock	Flow	Choke	Swab	Tag	Pull	Tubing	Draw	Casing	Draw	Flow	Static	Meter	Gas	Cum.	Fluid	Cum.		Oil	Cum.	Water	Cum.							
Date	Time	Time	Size	#	Depth	Depth	Pres	Down	Pres	Down	Temp	Pres	Temp	Rate	Gas	Prod.	Fluid	BSW	Prod.	Oil	Prod.	Water	pH	Sal	API	Sand	H ² S		
yyyy/mm/d	hh:mm:s	hr	mm		m	m	kPa(g)	%	kPa(g)	%	°C	kPa(g)	°C	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm		%	%			
22005/04/02	07:00:00				Held safety meeting.																								

2005/04/02 07:00:00 To 2005/04/02 08:00:00			
Gas		Cum.	10 ³ m ³
Oil		Cum.	m ³
Water		Cum.	m ³
Condensate	0.000	Cum.	0.000 m ³

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						Tubing		Casing		Vortex																		
	Clock	Flow	Choke	Swab	Tag	Pull	Tubing	Draw	Casing	Draw	Flow	Static	Meter	Gas	Cum.	Fluid	Cum.		Oil	Cum.	Water	Cum.						
Date	Time	Time	Size	#	Depth	Depth	Pres	Down	Pres	Down	Temp	Pres	Temp	Rate	Gas	Prod.	Fluid	BSW	Prod.	Oil	Prod.	Water	pH	Sal	API	Sand	H²S	
yyyy/mm/d	hh:mm:s	hr	mm		m	m	kPa(g)	%	kPa(g)	%	°C	kPa(g)	°C	10³m³/	10³m³	m³	m³	%	m³	m³	m³	m³	ppm			%	%	
12005/04/01	01:00:00				Arrive on location spot test equipment. Rig in test equipment.																							

2005/04/01 01:00:00 To 2005/04/02 07:00:00			
Gas		Cum.	10 ³ m ³
Oil		Cum.	m ³
Water		Cum.	m ³
Condensate	0.000	Cum.	0.000 m ³

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Date	Clock Time	Flow Time	Choke Size	Swab #	Tag Depth	Pull Depth	Tubing		Casing		Flow Temp	Static Pres	Meter Temp	Vortex		Cum. Gas	Fluid Prod.	Cum. Fluid	BSW %	Oil		Cum. Oil	Water Prod.	Cum. Water	pH	Sal ppm	API	Sand %	H ² S %
							Pres	Down	Pres	Down				Rate	Gas					Prod.	Oil								
							kPa(g)	%	kPa(g)	%		kPa(g)	°C	10 ³ m ³ /	10 ³ m ³		m ³	m ³	%	m ³	m ³		m ³	m ³					
130	2005/04/04	14:30:00	20.02	38.10			60		4675								1.00	57.57		0.99	47.70	0.01	9.87						
131		14:45:00	20.27				40		4625								1.18	58.75		1.17	48.87	0.01	9.88						
132		15:00:00	20.52	38.10			40		4675								0.87	59.62	20	0.70	49.56	0.17	10.06	7	11.0				
133		15:15:00	20.77				80		4950								0.85	60.47		0.68	50.24	0.17	10.23						
134		15:30:00	21.02	38.10			110		4880								1.24	61.71	28	0.89	51.14	0.35	10.58	7	11.0				
135		15:30:00			Shut well in for the rig crew to take off the swab tree.																								
136		15:30:00		0.00	0	0	0		0		0.0	0	0.0	0.00	0.00	0.00													
137		15:34:00			Open the well on a 38.10 mm choke.																								
138		15:34:00		0.00	0	0	0		0		0.0	0	0.0	0.00	0.00	0.00	61.71	0	0.00	51.14	0.00	10.58							
139		15:45:00	0.18				120		4750								1.60	63.31		1.60	52.74	0.00	10.58						
140		16:00:00	0.43	38.10			140		4725								1.08	64.39	8	0.99	53.73	0.09	10.66						
141		16:30:00	0.93				40		5375								0.84	65.23		0.77	54.50	0.07	10.73	7	11.0				
142		17:00:00	1.43	38.10			0		6000								0.14	65.37		0.13	54.63	0.01	10.74						
143		17:30:00	1.93				0		6000								0.05	65.42		0.05	54.68	0.00	10.74						
144		18:00:00	2.43	38.10			0		6000								0.00	65.42	0	0.00	54.68	0.00	10.74						
145		18:30:00	2.93				0		6100								0.00	65.42	0	0.00	54.68	0.00	10.74						
146		19:00:00	3.43				0		6200								0.00	65.42	0	0.00	54.68	0.00	10.74						
147		19:00:00		0.00	0	0	0		0		0.0	0	0.0	0.00	0.00	0.00		0					0						
148		19:05:00			Shut in to test unit.																								
149		19:05:00		0.00	0	0	0		0		0.0	0	0.0	0.00	0.00	0.00	65.42	0	0.00	54.68	0.00	10.74							
150		19:30:00					0		6200																				
151		20:00:00					20		6250																				

2005/04/04 06:14:00 To 2005/04/05 06:00:00

Gas 0.000 Cum. 0.000 10³m³
Oil 25.562 Cum. 54.678 m³
Water 1.049 Cum. 10.744 m³
Condensate 0.000 Cum. 0.000 m³

2005/04/04 06:14:00 To 2005/04/04 18:00:00				
Gas	0.000	Cum.	0.000	10 ³ m ³
Oil	25.561	Cum.	54.678	m ³
Water	1.049	Cum.	10 744	m ³
Condensate	0 000	Cum.	0.000	m ³

2005/04/04 06:14:00 To 2005/04/04 18:00:00			
Gas	0.000	Cum.	0.000 10 ³ m ³
Oil	25.561	Cum.	54 678 m ³
Water	1.049	Cum.	10.744 m ³
Condensate	0.000	Cum.	0.000 m ³

