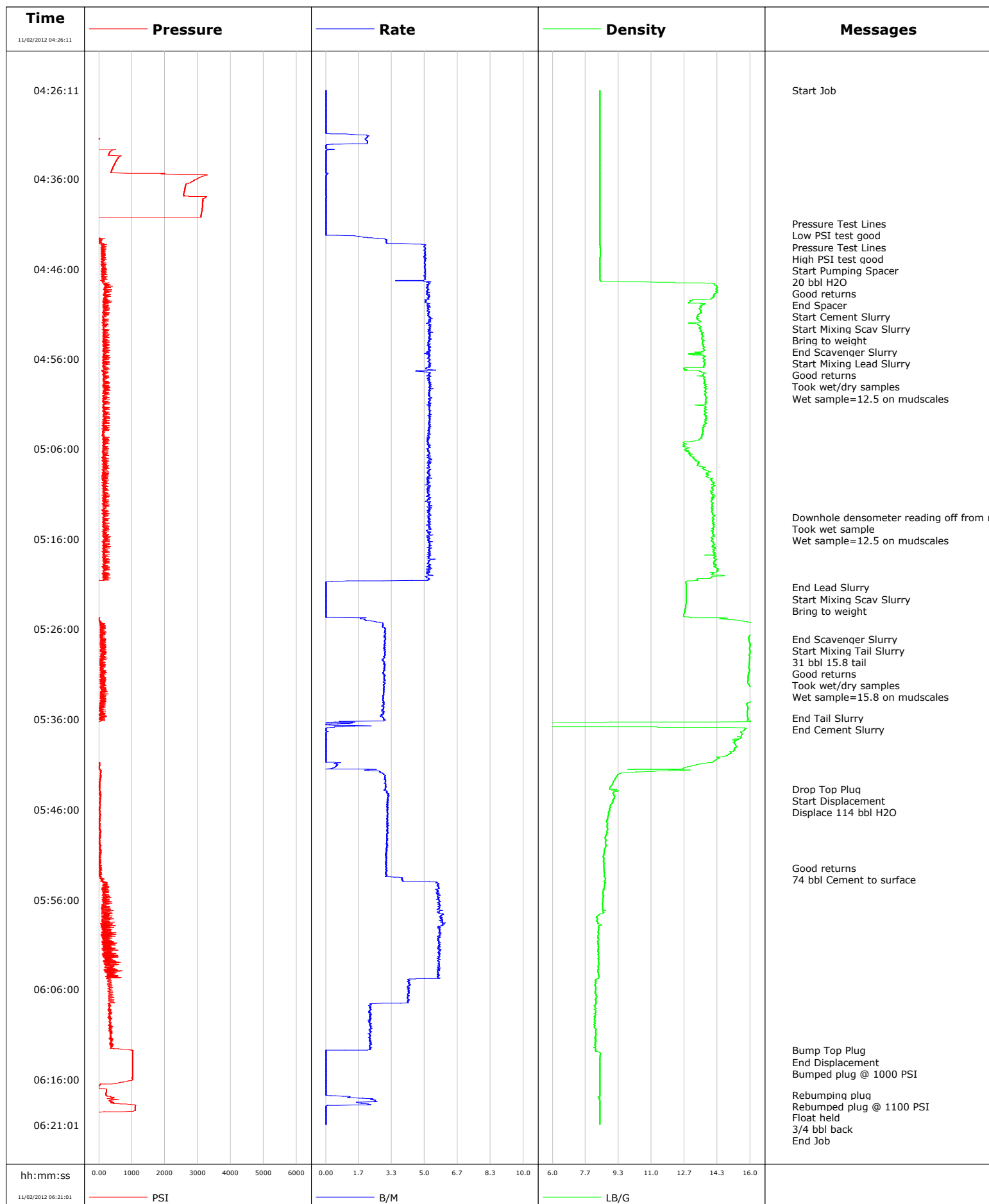


Well	Benzel Federal 24-14DD	Client	Encana
Field	Mamm Creek	SIR No.	C610-00868
Engineer	Matt Fair/T. Willardson	Job Type	9 5/8" Surface
Country	United States	Job Date	11-01-2012



					Customer Encana			Job Number C610-00868									
Well Benzel Federal 24-14DD				Location (legal)			Schlumberger Location			Job Start Nov/01/2012							
Field Mamm Creek		Formation Name/Type Shale			Deviation deg		Bit Size 12.6 in		Well MD 1524.0 ft		Well TVD 1524.0 ft						
County Garfield		State/Province Colorado			BHP psi		BHST 100 degF		BHCT 85 degF		Pore Press. Gradient lb/gal						
Well Master 0631296762		API/UWI															
Rig Name Patterson 308		Drilled For Gas		Service Via Land		Casing/Liner											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread			
Offshore Zone		Well Class New		Well Type Development		1524.0		9.6		36.0		K55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite		Max. Density 10.00 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 9 5/8" Surface															
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 psi		WH Connection Single Cement head		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
						ft		ft									
						ft		ft						Diameter in			
						ft		ft									
						Treat Down Casing		Displacement 114.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 118.0 bbl		Annular Vol. 102.0 bbl		Openhole Vol. 223.0 bbl					
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job									
Lift Pressure 754 psi				Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1524.0 ft				Tool Type									
No. Centralizers		Top Plugs 1		Bottom Plugs 0		Stage Tool Type				Tool Depth ft							
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in									
Job Scheduled For Nov/02/2012 02:00		Arrived on Location Nov/02/2012 02:00		Leave Location Nov/02/2012 08:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 1478.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message										
11/02/2012	04:26:11	8.40	-70	0.0	2.9	2.9	Started Acquisition										
11/02/2012	04:26:13	8.40	-71	0.0	2.9	2.9	Start Job										
11/02/2012	04:28:41	8.40	-72	0.0	2.9	2.9											
11/02/2012	04:31:11	8.39	-46	2.1	0.1	0.1											
11/02/2012	04:33:41	8.40	592	0.0	2.2	2.2											
11/02/2012	04:36:11	8.40	2893	0.0	2.3	2.3											
11/02/2012	04:38:41	8.40	3145	0.0	2.3	2.3											
11/02/2012	04:41:01	8.40	-62	0.0	2.3	2.3	Pressure Test Lines										
11/02/2012	04:41:02	8.40	-62	0.0	2.3	2.3	Low PSI test good										
11/02/2012	04:41:03	8.40	-62	0.0	2.3	2.3	Pressure Test Lines										
11/02/2012	04:41:04	8.40	-62	0.0	2.3	2.3	High PSI test good										
11/02/2012	04:41:11	8.40	-62	0.0	2.3	2.3											
11/02/2012	04:42:29	8.40	-8	1.8	2.6	2.6	Start Pumping Spacer										
11/02/2012	04:42:34	8.40	-8	2.2	2.7	2.7	20 bbl H2O										
11/02/2012	04:43:41	8.40	69	5.0	6.9	6.9											
11/02/2012	04:45:23	8.40	123	5.0	15.4	15.4	Good returns										
11/02/2012	04:46:11	8.40	96	5.0	19.4	19.4											
11/02/2012	04:47:31	11.73	109	5.1	26.1	26.1	End Spacer										
11/02/2012	04:47:32	12.19	122	5.2	26.1	26.1	Start Cement Slurry										
11/02/2012	04:47:34	12.81	106	5.3	26.3	26.3	Start Mixing Scav Slurry										
11/02/2012	04:47:35	13.32	106	5.3	26.4	26.4	Bring to weight										

Well Benzel Federal 24-14DD			Field Mamm Creek		Job Start Nov/01/2012		Customer Encana	Job Number C610-00868
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message	
11/02/2012	04:51:11	13.35	243	5.2	45.0	45.0		
11/02/2012	04:53:41	13.53	165	5.3	58.1	58.1		
11/02/2012	04:54:28	13.63	108	5.2	62.2	62.2	End Scavenger Slurry	
11/02/2012	04:54:36	13.63	133	5.3	62.9	62.9	Start Mixing Lead Slurry	
11/02/2012	04:54:39	13.62	221	5.3	63.2	63.2	Good returns	
11/02/2012	04:54:50	13.62	141	5.2	64.1	64.1	Took wet/dry samples	
11/02/2012	04:54:58	13.64	298	5.3	64.8	64.8	Wet sample=12.5 on mudscales	
11/02/2012	04:56:11	13.70	141	5.2	71.2	71.2		
11/02/2012	04:58:41	13.71	171	5.2	84.2	84.2		
11/02/2012	05:01:11	13.38	144	5.2	97.3	97.3		
11/02/2012	05:03:41	13.59	196	5.2	110.4	110.4		
11/02/2012	05:06:11	12.81	150	5.2	123.4	123.4		
11/02/2012	05:08:41	13.78	132	5.2	136.5	136.5		
11/02/2012	05:11:11	14.13	129	5.1	149.5	149.5		
11/02/2012	05:13:35	14.09	180	5.2	162.0	162.0	Downhole densometer reading off from mix densometer	
11/02/2012	05:13:41	14.09	133	5.2	162.5	162.5		
11/02/2012	05:14:06	14.08	161	5.3	164.7	164.7	Took wet sample	
11/02/2012	05:14:16	14.15	177	5.3	165.6	165.6	Wet sample=12.5 on mudscales	
11/02/2012	05:16:11	14.03	254	5.2	175.6	175.6		
11/02/2012	05:18:41	14.20	338	5.2	188.7	188.7		
11/02/2012	05:21:11	12.75	-27	0.0	199.0	199.0		
11/02/2012	05:21:21	12.75	-29	0.0	199.0	199.0	End Lead Slurry	
11/02/2012	05:21:30	12.75	-29	0.0	199.0	199.0	Start Mixing Scav Slurry	
11/02/2012	05:21:33	12.75	-29	0.0	199.0	199.0	Bring to weight	
11/02/2012	05:23:41	12.73	-31	0.0	0.0	199.0		
11/02/2012	05:26:11	16.05	40	3.0	3.8	202.8		
11/02/2012	05:27:04	15.91	172	3.0	6.4	205.5	End Scavenger Slurry	
11/02/2012	05:27:05	15.91	172	3.0	6.5	205.5	Start Mixing Tail Slurry	
11/02/2012	05:27:06	15.92	39	3.0	6.5	205.6	31 bbl 15.8 tail	
11/02/2012	05:27:15	15.93	59	3.0	7.0	206.0	Good returns	
11/02/2012	05:27:24	15.94	50	3.0	7.4	206.5	Took wet/dry samples	
11/02/2012	05:27:25	15.94	191	3.0	7.5	206.5	Wet sample=15.8 on mudscales	
11/02/2012	05:28:41	15.98	40	3.0	11.2	210.3		
11/02/2012	05:31:11	15.90	83	3.0	18.6	217.7		
11/02/2012	05:33:41	16.17	40	2.9	26.0	225.0		
11/02/2012	05:35:51	15.88	128	2.9	32.3	231.3	End Tail Slurry	
11/02/2012	05:35:52	15.88	36	2.9	32.3	231.3	End Cement Slurry	
11/02/2012	05:36:11	15.99	33	2.9	33.2	232.3		
11/02/2012	05:38:41	15.18	-34	0.0	34.0	233.1		
11/02/2012	05:41:11	13.09	31	0.6	34.2	233.3		
11/02/2012	05:43:41	8.90	9	3.0	5.6	239.5		
11/02/2012	05:43:44	8.88	42	3.0	5.7	239.7	Drop Top Plug	
11/02/2012	05:43:46	8.87	21	3.0	5.8	239.8	Displace 114 bbl H2O	
11/02/2012	05:46:11	8.86	56	3.1	13.4	247.3		
11/02/2012	05:48:41	8.73	31	3.1	21.2	255.1		
11/02/2012	05:51:11	8.57	9	3.1	28.9	262.8		
11/02/2012	05:52:33	8.60	53	3.1	33.1	267.0	Good returns	
11/02/2012	05:52:40	8.60	32	3.1	33.4	267.4	74 bbl Cement to surface	
11/02/2012	05:53:41	8.67	138	3.9	36.6	270.6		
11/02/2012	05:56:11	8.57	320	5.8	50.2	284.1		
11/02/2012	05:58:41	8.28	338	5.9	64.7	298.6		
11/02/2012	06:01:11	8.31	226	5.7	79.1	313.0		
11/02/2012	06:03:41	8.32	272	5.7	93.4	327.3		
11/02/2012	06:06:11	8.17	422	4.2	105.6	339.5		

Well			Field		Job Start		Customer		Job Number
Benzel Federal 24-14DD			Mamm Creek		Nov/01/2012		Encana		C610-00868
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message		
11/02/2012	06:11:11	8.18	379	2.2	119.5	353.4			
11/02/2012	06:12:44	8.17	974	2.2	122.9	356.9	Bump Top Plug		
11/02/2012	06:12:45	8.18	974	0.9	123.0	356.9	End Displacement		
11/02/2012	06:12:46	8.15	1027	0.0	123.0	356.9	Bumped plug @ 1000 PSI		
11/02/2012	06:13:41	8.40	1027	0.0	123.0	356.9			
11/02/2012	06:16:11	8.40	877	0.0	123.0	357.0			
11/02/2012	06:17:41	8.40	215	0.0	123.1	357.0	Rebumping plug		
11/02/2012	06:18:41	8.40	457	1.9	124.6	358.6			
11/02/2012	06:18:58	8.40	1103	0.0	125.1	359.0	Rebumped plug @ 1100 PSI		
11/02/2012	06:20:12	8.40	-51	0.0	125.1	359.0	Float held		
11/02/2012	06:20:28	8.40	-52	0.0	125.1	359.0	3/4 bbl back		

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.4	N2	Mud	Maximum Rate 6.1		Total Slurry 179.0	Mud 0.0	Spacer 21.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3286	Final -52	Average 358	Bump Plug to 1000	Breakdown	Type		Volume bbl	Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 178.0 bbl	Displacement 115.2 bbl	Mix Water Temp 56 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 74.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
Erasmus Parras			Matt Fair/T. Willardson			-		-



Service Quality Evaluation

Client:	Encana
Field:	Mamm Creek
Rig:	Patterson 308
Well:	Benzel Federal 24-14DD
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Nov/01/2012
Operating Time (hh:mm):	00:00
Client Rep:	Erasmus Parras
Schlumberger Engineer:	Matt Fair/T. Willardson
Schlumberger FSM:	

Main Objective:

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1b	Free of environmental spill or non-compliant discharge	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1c	Wellsite left clean	4	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3b	Equipment pressure tested succesfully	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3d	Plugs / darts released and tested succesfully	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3e	Density variation met expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3f	Personnel performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3g	Equipment performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3h	Job pumped as per design	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3i	Did job start on time	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	10
Sub-total					100%

Total 100%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
	Water - 010237, 009768 Lead - 010153 Tail - 009842
Client Signature:	Schlumberger Signature: