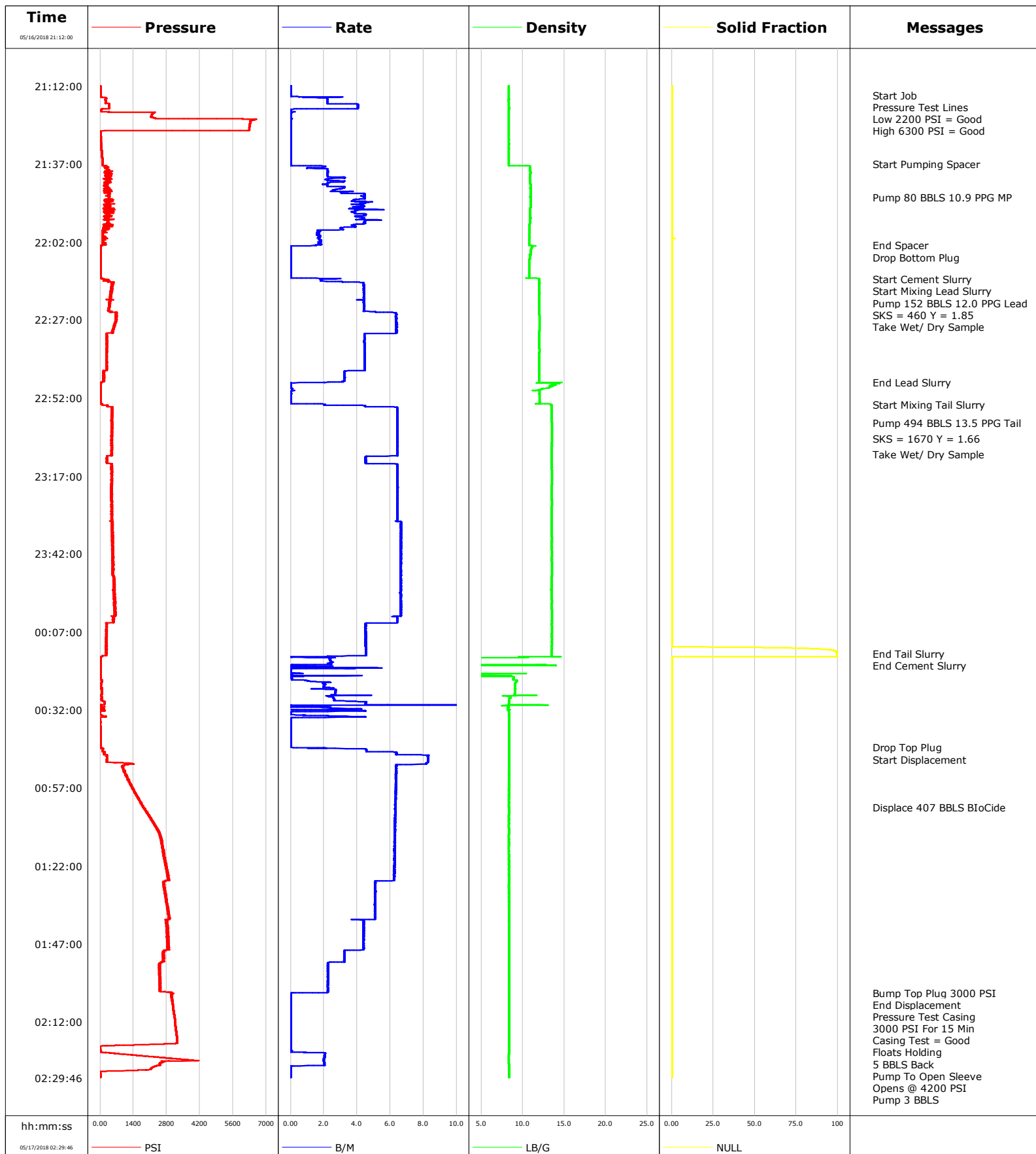


Well Quarter Circle 24-4HZ
Field Wattenberg
Engineer Conley Jensen/ Sheldon Bell
Country United States

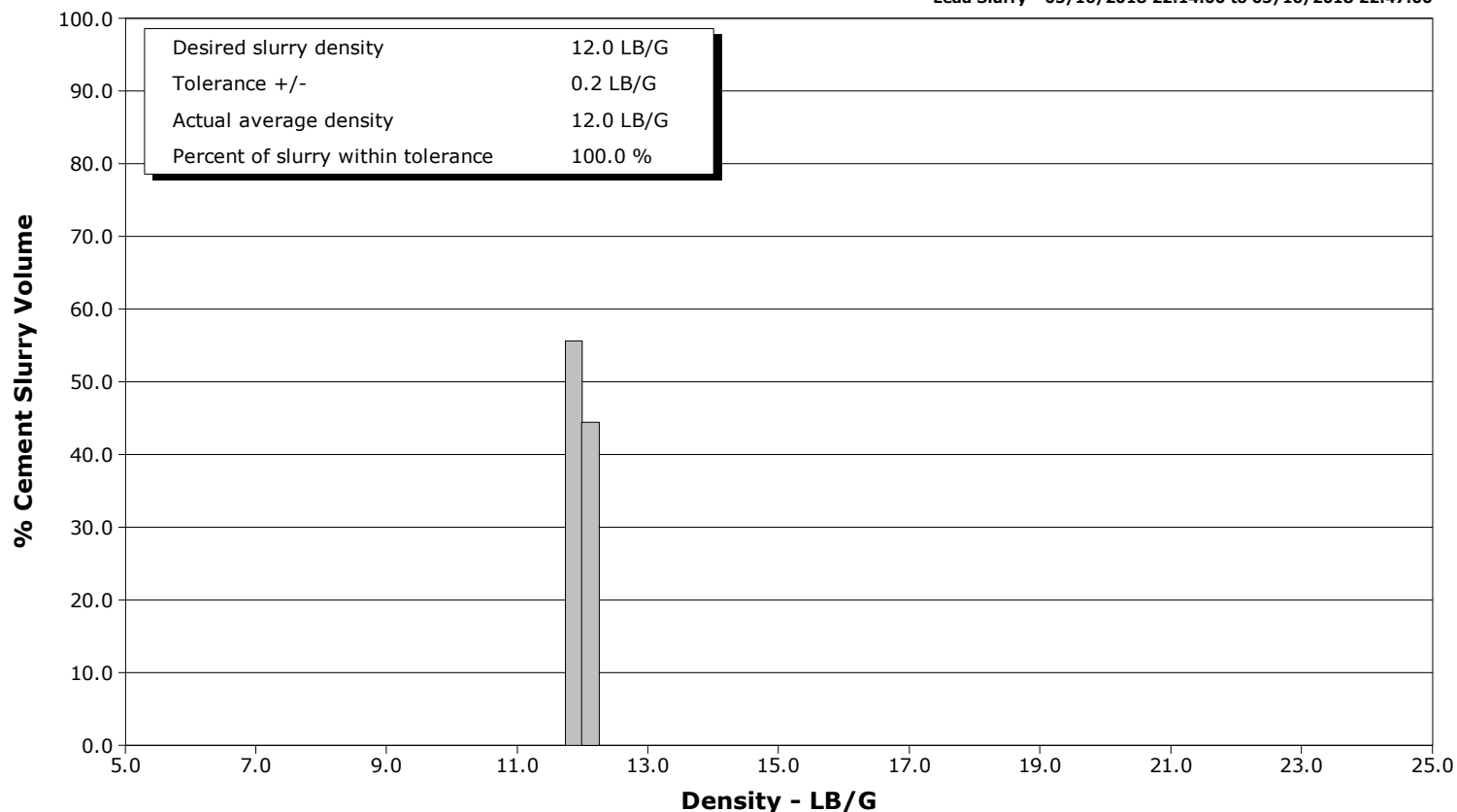
Client Anadarko
SIR No. 2713979
Job Type 5.5" Monobore
Job Date 05-16-2018



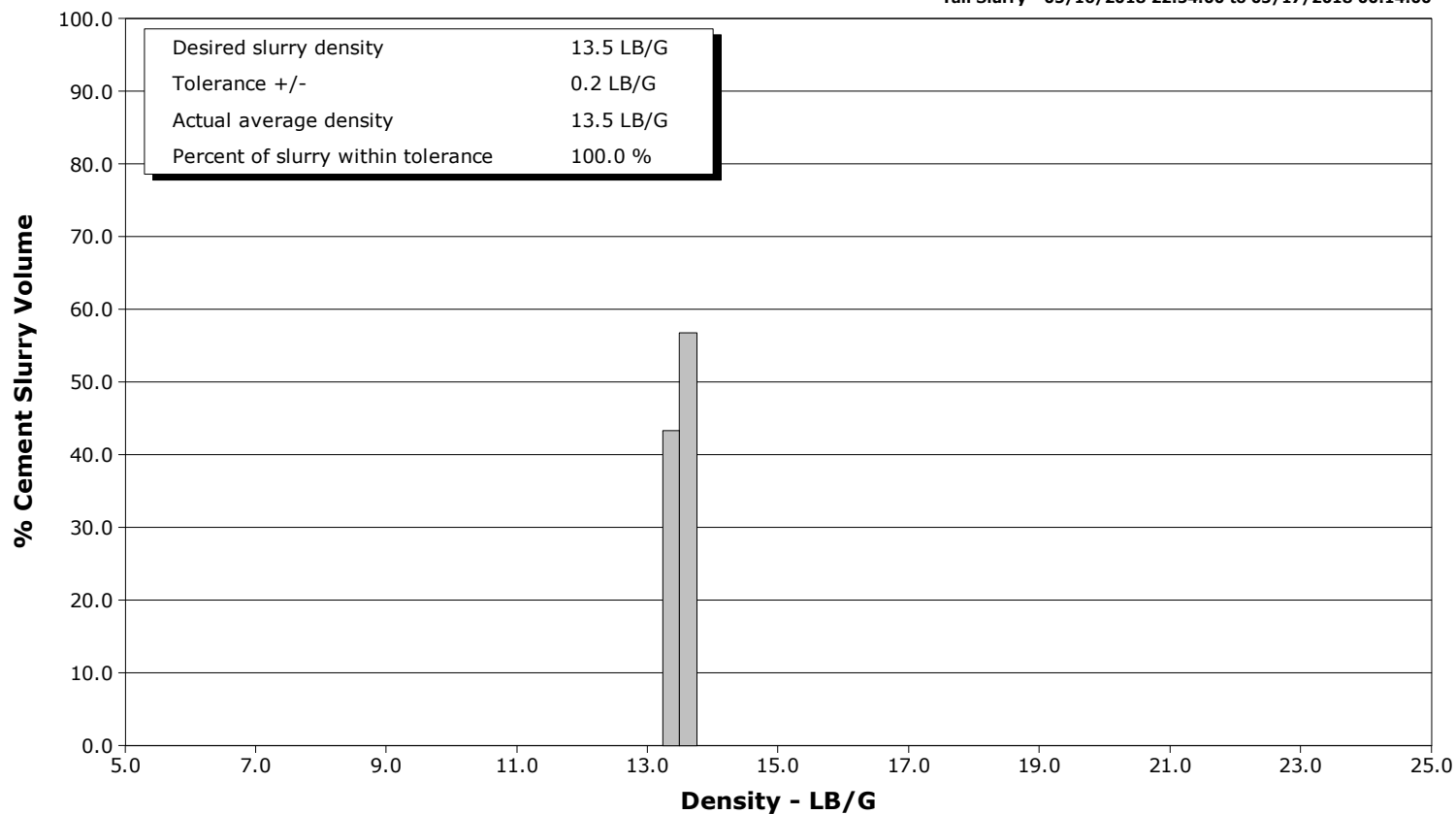
Well Quarter Circle
Field Wattenberg
Engineer Conley Jensen/ Sheldon Bell
Country United States

Client Anadarko
SIR No. 2713979
Job Type 5.5" Monobore
Job Date 05-16-2018

Lead Slurry - 05/16/2018 22:14:00 to 05/16/2018 22:47:00



Tail Slurry - 05/16/2018 22:54:00 to 05/17/2018 00:14:00



Cementing Service Report

				Customer Anadarko			Job Number 2713979			
Well Quarter Circle 24-4HZ			Location (legal)			Schlumberger Location CWY			Job Start May/16/2018	
Field Wattenberg		Formation Name/Type Shale		Deviation deg		Bit Size 8.5 in		Well MD 17511.0 ft		Well TVD 7370.0 ft
County		State/Province Colorado		BHP psi		BHST 230 degF		BHCT 230 degF		Pore Press. Gradient lb/gal
Well Master 0631751374		API/UWI 05123462690000								
Rig Name Precision 461		Drilled For Oil		Service Via Land		Casing/ Liner				
						Depth, ft		Size, in		Weight, lb/ft
Offshore Zone		Well Class New		Well Type Development		1861.0		9.6		36.0
						17511.0		5.5		17.0
Drilling Fluid Type		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe				
						T/D		Depth, ft		Size, in
Service Line Cementing		Job Type 5.5" Monobore								
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Double Cement head		Perforations/Open Hole				
						Top, ft		Bottom, ft		shot/ft
						ft		ft		
						ft		ft		
						Treat Down Casing		Displacement 407.0 bbl		Packer Type
						Tubing Vol. bbl		Casing Vol. 407.0 bbl		Annular Vol. 728.0 bbl
										Packer Depth ft
										Openhole Vol. 1148.0 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 psi						Shoe Type Float		Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth 17511.0 ft		Tool Type		
No. Centralizers		Top Plugs 1		Bottom Plugs 1		Stage Tool Type		Tool Depth ft		
Cement Head Type Double						Stage Tool Depth ft		Tail Pipe Size in		
Job Scheduled For May/16/2018 16:00		Arrived on Location May/16/2018 16:00		Leave Location May/16/2018 04:00		Collar Type Float		Tail Pipe Depth ft		
						Collar Depth 17501.0 ft		Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/16/2018	21:12:00	1	0.0	8.33	0.0	Started Acquisition				
05/16/2018	21:13:30	1	0.0	8.33	0.0					
05/16/2018	21:15:00	2	0.0	8.33	0.0	Start Job				
05/16/2018	21:16:00	254	2.2	8.34	0.9	Pressure Test Lines				
05/16/2018	21:16:30	219	2.2	8.24	2.0					
05/16/2018	21:18:00	394	4.1	8.35	5.8					
05/16/2018	21:19:30	59	0.1	8.35	0.0					
05/16/2018	21:20:00	58	0.0	8.35	0.0	Low 2200 PSI = Good				
05/16/2018	21:21:00	2204	0.0	8.35	0.1					
05/16/2018	21:22:30	2906	0.0	8.35	0.1					
05/16/2018	21:23:00	6467	0.0	8.35	0.1	High 6300 PSI = Good				
05/16/2018	21:24:00	6331	0.0	8.35	0.1					
05/16/2018	21:25:30	6303	0.0	8.35	0.1					
05/16/2018	21:27:00	15	0.0	8.35	0.1					
05/16/2018	21:28:30	25	0.0	8.35	0.0					
05/16/2018	21:30:00	37	0.0	8.35	0.0					
05/16/2018	21:31:30	51	0.0	8.35	0.0					
05/16/2018	21:33:00	65	0.0	8.35	0.1					
05/16/2018	21:34:30	80	0.0	8.35	0.1					
05/16/2018	21:36:00	92	0.0	8.35	0.1					
05/16/2018	21:37:00	99	0.0	8.35	0.1	Start Pumping Spacer				

Well			Field	Job Start		Customer	Job Number	
Quarter Circle 24-4HZ			Wattenberg		May/16/2018		Anadarko	2713979
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
05/16/2018	21:39:00	322	2.2	10.90	2.6			
05/16/2018	21:40:30	332	2.2	10.91	6.0			
05/16/2018	21:42:00	451	2.2	10.91	9.8			
05/16/2018	21:43:30	250	2.1	10.93	13.6			
05/16/2018	21:45:00	387	3.0	10.93	17.6			
05/16/2018	21:46:30	401	4.2	10.96	22.0			
05/16/2018	21:47:49	357	4.5	10.93	27.8	Pump 80 BBLS 10.9 PPG MP		
05/16/2018	21:48:00	386	4.5	10.93	28.7			
05/16/2018	21:49:30	383	4.5	10.94	34.9			
05/16/2018	21:51:00	328	4.2	10.93	41.2			
05/16/2018	21:52:30	577	3.8	10.90	47.5			
05/16/2018	21:54:00	364	3.9	10.92	53.7			
05/16/2018	21:55:30	312	4.5	10.90	60.4			
05/16/2018	21:57:00	163	3.9	10.85	66.6			
05/16/2018	21:58:30	93	1.8	10.83	71.0			
05/16/2018	22:00:00	100	1.8	10.78	73.6			
05/16/2018	22:01:30	94	1.8	10.78	76.2			
05/16/2018	22:03:00	64	1.7	10.80	78.8	End Spacer		
05/16/2018	22:04:30	8	0.0	10.99	79.2			
05/16/2018	22:06:00	7	0.0	10.83	79.2			
05/16/2018	22:07:00	7	0.0	10.91	79.2	Drop Bottom Plug		
05/16/2018	22:07:30	8	0.0	10.83	79.2			
05/16/2018	22:09:00	7	0.0	10.79	79.2			
05/16/2018	22:10:30	7	0.0	10.79	79.2			
05/16/2018	22:12:00	7	0.0	10.79	79.2			
05/16/2018	22:13:30	6	0.0	10.79	79.2			
05/16/2018	22:13:58	209	1.8	11.99	80.1	Start Cement Slurry		
05/16/2018	22:14:00	210	1.8	11.99	80.1	Start Mixing Lead Slurry		
05/16/2018	22:15:00	555	4.3	12.01	82.5			
05/16/2018	22:16:12	536	4.4	12.00	87.8	Pump 152 BBLS 12.0 PPG Lead		
05/16/2018	22:16:30	457	4.4	12.00	89.1			
05/16/2018	22:16:36	532	4.4	12.00	89.5	SKS = 460 Y = 1.85		
05/16/2018	22:16:46	478	4.4	12.00	90.3	Take Wet/ Dry Sample		
05/16/2018	22:18:00	463	4.4	12.00	95.7			
05/16/2018	22:19:30	417	4.4	12.00	102.3			
05/16/2018	22:21:00	451	4.4	12.00	108.9			
05/16/2018	22:22:30	377	4.4	12.00	115.5			
05/16/2018	22:24:00	356	4.4	11.99	122.2			
05/16/2018	22:25:30	707	6.4	12.01	130.8			
05/16/2018	22:27:00	653	6.3	12.03	140.3			
05/16/2018	22:28:30	633	6.4	12.01	149.9			
05/16/2018	22:30:00	526	6.4	12.01	159.4			
05/16/2018	22:31:30	287	4.5	11.98	168.7			
05/16/2018	22:33:00	284	4.4	12.00	175.4			
05/16/2018	22:36:00	298	4.5	12.00	188.7			
05/16/2018	22:37:30	290	4.5	12.00	195.4			
05/16/2018	22:39:00	283	4.5	11.99	202.1			
05/16/2018	22:40:30	266	4.5	11.99	208.8			
05/16/2018	22:42:00	282	4.5	11.99	215.5			
05/16/2018	22:43:30	172	3.2	11.98	222.0			
05/16/2018	22:45:00	147	3.3	11.99	226.8			
05/16/2018	22:46:30	136	3.3	11.98	231.7			
05/16/2018	22:47:00	70	2.1	12.00	233.2	End Lead Slurry		
05/16/2018	22:48:00	3	0.0	13.41	233.4			

Well			Field	Job Start		Customer		Job Number	
Quarter Circle 24-4HZ			Wattenberg		May/16/2018		Anadarko		2713979
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/16/2018	22:51:00	5	0.0	12.05	233.5				
05/16/2018	22:52:30	4	0.0	12.06	233.5				
05/16/2018	22:54:00	79	2.0	13.40	233.8	Start Mixing Tail Slurry			
05/16/2018	22:55:30	525	6.4	13.47	240.9				
05/16/2018	22:57:00	483	6.4	13.48	250.5				
05/16/2018	22:58:30	483	6.4	13.47	260.2				
05/16/2018	23:00:00	517	6.4	13.51	269.9	Pump 494 BBLs 13.5 PPG Tail			
05/16/2018	23:01:30	536	6.4	13.52	279.5				
05/16/2018	23:03:00	493	6.4	13.51	289.2				
05/16/2018	23:04:30	464	6.4	13.51	298.8				
05/16/2018	23:05:00	511	6.4	13.51	302.0	SKS = 1670 Y = 1.66			
05/16/2018	23:06:00	500	6.4	13.51	308.5				
05/16/2018	23:07:30	493	6.4	13.50	318.1				
05/16/2018	23:09:00	473	6.4	13.49	327.8				
05/16/2018	23:10:00	522	6.4	13.50	334.2	Take Wet/ Dry Sample			
05/16/2018	23:10:30	495	6.5	13.45	337.5				
05/16/2018	23:12:00	305	4.5	13.48	344.5				
05/16/2018	23:13:30	478	6.4	13.49	352.1				
05/16/2018	23:15:00	514	6.4	13.51	361.8				
05/16/2018	23:16:30	518	6.4	13.52	371.5				
05/16/2018	23:18:00	503	6.4	13.54	381.1				
05/16/2018	23:19:30	492	6.4	13.52	390.8				
05/16/2018	23:21:00	501	6.4	13.49	400.5				
05/16/2018	23:22:30	491	6.4	13.49	410.1				
05/16/2018	23:25:30	484	6.4	13.52	429.4				
05/16/2018	23:27:00	486	6.4	13.50	439.1				
05/16/2018	23:28:30	482	6.4	13.49	448.8				
05/16/2018	23:30:00	465	6.4	13.50	458.4				
05/16/2018	23:31:30	539	6.4	13.49	468.1				
05/16/2018	23:33:00	562	6.7	13.49	478.1				
05/16/2018	23:34:30	493	6.7	13.47	488.0				
05/16/2018	23:36:00	519	6.7	13.49	498.0				
05/16/2018	23:37:30	512	6.6	13.51	508.0				
05/16/2018	23:39:00	504	6.6	13.50	518.0				
05/16/2018	23:40:30	561	6.6	13.50	528.0				
05/16/2018	23:42:00	538	6.7	13.52	537.9				
05/16/2018	23:43:30	559	6.7	13.50	547.9				
05/16/2018	23:45:00	522	6.7	13.51	557.9				
05/16/2018	23:46:30	558	6.6	13.54	567.8				
05/16/2018	23:48:00	525	6.6	13.52	577.8				
05/16/2018	23:49:30	593	6.6	13.48	587.8				
05/16/2018	23:51:00	565	6.6	13.50	597.7				
05/16/2018	23:52:30	586	6.6	13.50	607.7				
05/16/2018	23:54:00	550	6.6	13.47	617.7				
05/16/2018	23:55:30	591	6.6	13.49	627.6				
05/16/2018	23:57:00	609	6.6	13.52	637.6				
05/16/2018	23:58:30	604	6.7	13.48	647.6				
05/17/2018	00:00:00	627	6.6	13.51	657.6				
05/17/2018	00:01:30	605	6.6	13.51	667.5				
05/17/2018	00:03:00	573	6.4	13.51	677.2				
05/17/2018	00:04:30	275	4.5	13.50	686.1				
05/17/2018	00:06:00	264	4.5	13.52	692.9				
05/17/2018	00:07:30	261	4.5	13.51	699.7				
05/17/2018	00:09:00	281	4.5	13.51	706.5				

Well			Field	Job Start		Customer		Job Number	
Quarter Circle 24-4HZ			Wattenberg		May/16/2018		Anadarko		2713979
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
05/17/2018	00:12:00	271	4.5	13.52	720.1				
05/17/2018	00:13:30	292	4.5	13.49	726.9				
05/17/2018	00:14:00	279	4.5	13.49	729.1	End Tail Slurry			
05/17/2018	00:15:00	1	0.0	9.65	732.7				
05/17/2018	00:16:30	6	2.5	1.19	736.0				
05/17/2018	00:18:00	6	2.3	1.07	738.4				
05/17/2018	00:21:00	4	4.3	2.83	739.9				
05/17/2018	00:22:30	69	0.9	9.34	740.4				
05/17/2018	00:24:00	40	2.0	9.11	743.1				
05/17/2018	00:25:30	71	2.7	9.11	746.4				
05/17/2018	00:27:00	64	2.7	9.01	750.5				
05/17/2018	00:28:30	64	2.6	8.38	754.5				
05/17/2018	00:30:00	179	4.5	8.35	760.0				
05/17/2018	00:31:30	161	3.7	8.23	763.8				
05/17/2018	00:33:00	-1	0.0	8.35	766.8				
05/17/2018	00:34:30	-4	0.0	8.40	769.1				
05/17/2018	00:36:00	0	0.0	8.40	769.1				
05/17/2018	00:37:30	0	0.0	8.40	769.1				
05/17/2018	00:39:00	3	0.0	8.40	769.1				
05/17/2018	00:40:30	3	0.0	8.40	769.2				
05/17/2018	00:42:00	3	0.0	8.40	769.2				
05/17/2018	00:43:30	2	0.0	8.40	769.2				
05/17/2018	00:44:00	14	0.1	8.40	769.2	Drop Top Plug			
05/17/2018	00:45:00	91	4.6	8.38	772.8				
05/17/2018	00:46:30	288	8.3	8.36	782.0				
05/17/2018	00:48:00	290	8.3	8.36	794.4				
05/17/2018	00:49:30	1086	6.4	8.36	806.6				
05/17/2018	00:51:00	972	6.4	8.35	816.1				
05/17/2018	00:52:30	1075	6.4	8.35	825.7				
05/17/2018	00:54:00	1163	6.3	8.35	835.2				
05/17/2018	00:55:30	1288	6.4	8.35	844.7				
05/17/2018	00:57:00	1353	6.3	8.35	854.3				
05/17/2018	00:58:30	1489	6.4	8.36	863.8				
05/17/2018	01:00:00	1554	6.3	8.35	873.3				
05/17/2018	01:01:30	1701	6.3	8.35	882.8				
05/17/2018	01:03:00	1840	6.3	8.35	892.2				
05/17/2018	01:03:06	1814	6.3	8.35	892.9	Displace 407 BBLS BioCide			
05/17/2018	01:04:30	1939	6.3	8.36	901.7				
05/17/2018	01:06:00	2096	6.3	8.35	911.2				
05/17/2018	01:07:30	2189	6.3	8.35	920.6				
05/17/2018	01:09:00	2335	6.3	8.35	930.0				
05/17/2018	01:10:30	2469	6.3	8.36	939.5				
05/17/2018	01:12:00	2524	6.3	8.35	948.9				
05/17/2018	01:13:30	2615	6.3	8.35	958.3				
05/17/2018	01:15:00	2638	6.3	8.35	967.8				
05/17/2018	01:16:30	2657	6.3	8.35	977.2				
05/17/2018	01:18:00	2656	6.3	8.35	986.6				
05/17/2018	01:19:30	2739	6.3	8.35	996.0				
05/17/2018	01:21:00	2744	6.3	8.35	1005.4				
05/17/2018	01:22:30	2773	6.3	8.35	1014.8				
05/17/2018	01:24:00	2853	6.3	8.37	1024.1				
05/17/2018	01:25:30	2855	6.2	8.35	1033.5				
05/17/2018	01:27:00	2716	5.1	8.35	1042.5				
05/17/2018	01:28:30	2685	5.1	8.35	1050.2				

Well			Field	Job Start		Customer	Job Number
Quarter Circle 24-4HZ			Wattenberg	May/16/2018		Anadarko	2713979
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
05/17/2018	01:31:30	2772	5.1	8.35	1065.5		
05/17/2018	01:33:00	2790	5.1	8.35	1073.1		
05/17/2018	01:34:30	2856	5.1	8.35	1080.8		
05/17/2018	01:36:00	2852	5.1	8.35	1088.4		
05/17/2018	01:37:30	2903	5.1	8.36	1096.0		
05/17/2018	01:39:00	2905	5.1	8.36	1103.7		
05/17/2018	01:40:30	2800	4.4	8.35	1110.3		
05/17/2018	01:42:00	2877	4.4	8.36	1116.8		
05/17/2018	01:43:30	2862	4.4	8.36	1123.4		
05/17/2018	01:45:00	2908	4.4	8.36	1130.0		
05/17/2018	01:46:30	2864	4.4	8.36	1136.6		
05/17/2018	01:48:00	2868	4.4	8.36	1143.2		
05/17/2018	01:49:30	2661	3.2	8.36	1149.1		
05/17/2018	01:51:00	2675	3.2	8.35	1154.0		
05/17/2018	01:52:30	2684	3.2	8.35	1158.8		
05/17/2018	01:54:00	2489	2.2	8.36	1162.5		
05/17/2018	01:55:30	2527	2.2	8.36	1165.8		
05/17/2018	01:57:00	2515	2.3	8.36	1169.2		
05/17/2018	01:58:30	2528	2.2	8.36	1172.6		
05/17/2018	02:00:00	2513	2.2	8.36	1175.9		
05/17/2018	02:01:30	2519	2.3	8.35	1179.3		
05/17/2018	02:02:31	2994	1.7	8.36	1181.6	Bump Top Plug 3000 PSI	
05/17/2018	02:02:32	3007	1.3	8.36	1181.6	End Displacement	
05/17/2018	02:02:33	3005	0.7	8.36	1181.6	Pressure Test Casing	
05/17/2018	02:02:34	3014	0.5	8.36	1181.7	3000 PSI For 15 Min	
05/17/2018	02:03:00	2994	0.0	8.36	1181.7		
05/17/2018	02:06:00	3066	0.0	8.36	1181.7		
05/17/2018	02:07:30	3086	0.0	8.36	1181.7		
05/17/2018	02:09:00	3115	0.0	8.36	1181.8		
05/17/2018	02:10:30	3141	0.0	8.36	1181.8		
05/17/2018	02:12:00	3163	0.0	8.36	1181.8		
05/17/2018	02:13:30	3187	0.0	8.36	1181.8		
05/17/2018	02:15:00	3209	0.0	8.36	1181.8		
05/17/2018	02:16:30	3231	0.0	8.36	1181.8		
05/17/2018	02:17:48	3249	0.0	8.36	1181.8	Casing Test = Good	
05/17/2018	02:18:00	3252	0.0	8.36	1181.8		
05/17/2018	02:19:30	394	0.0	8.36	1181.9		
05/17/2018	02:19:56	-3	0.0	8.36	1181.9	Floats Holding	
05/17/2018	02:21:00	5	0.0	8.36	1181.9		
05/17/2018	02:21:40	116	0.9	8.36	1182.0	Pump To Open Sleeve	
05/17/2018	02:22:30	1371	2.1	8.35	1183.6		
05/17/2018	02:24:00	3622	2.0	8.35	1186.6		
05/17/2018	02:24:34	2730	2.0	8.35	1187.8	Opens @ 4200 PSI	
05/17/2018	02:24:35	2707	2.0	8.35	1187.8	Pump 3 BBLs	
05/17/2018	02:25:30	2496	2.0	8.35	1189.6		
05/17/2018	02:27:00	2133	0.0	8.36	1190.6		
05/17/2018	02:28:30	-1	0.0	8.36	1190.6		

Well Quarter Circle 24-4HZ	Field Wattenberg	Job Start May/16/2018	Customer Anadarko	Job Number 2713979
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.0	N2	Mud	Maximum Rate 10.6		Total Slurry 645.0	Mud 0.0	Spacer 80.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 6602	Final 1	Average 1071	Bump Plug to 3000	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 0.1 bbl	Displacement 407.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface? <input type="checkbox"/>		Volume bbl		
				Washed Thru Perfs <input type="checkbox"/>		To ft		
Customer or Authorized Representative Sean Giddings			Schlumberger Supervisor Conley Jensen/ Sheldon Bell			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-



Service Order #:	
Date:	May/16/2018
Operating Time (hh:mm):	00:00
Client Rep:	Sean Giddings
Schlumberger Engineer:	Conley Jensen/ Sheldon Bell
Schlumberger FSM:	

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

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>	0
Sub-total					0%

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

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: