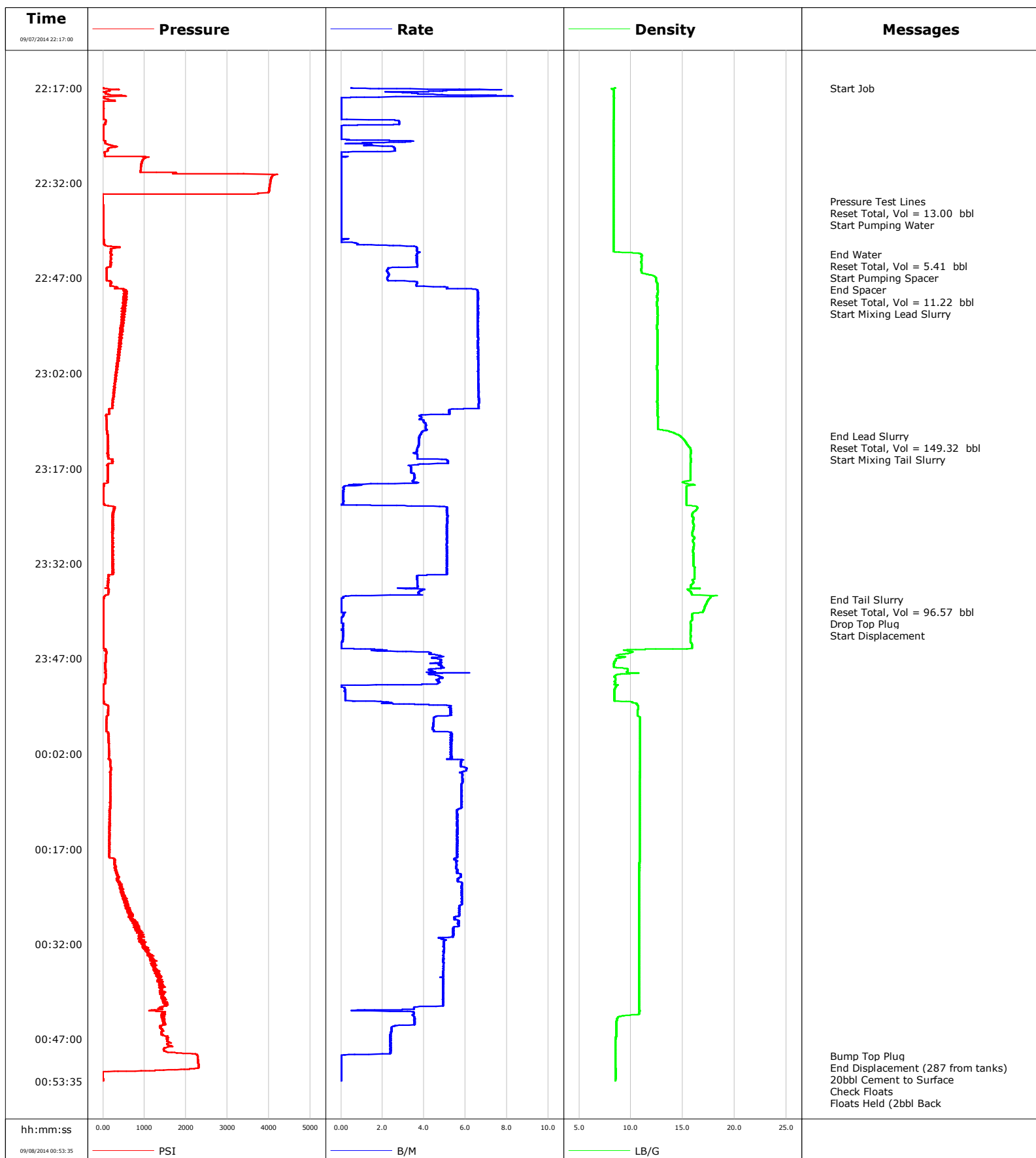


Well Nelson Farms #1
Field Wattenburg
Engineer
Country United States

Client Extraction Oil
SIR No. C459-03080
Job Type Intermediate
Job Date 09-07-2014

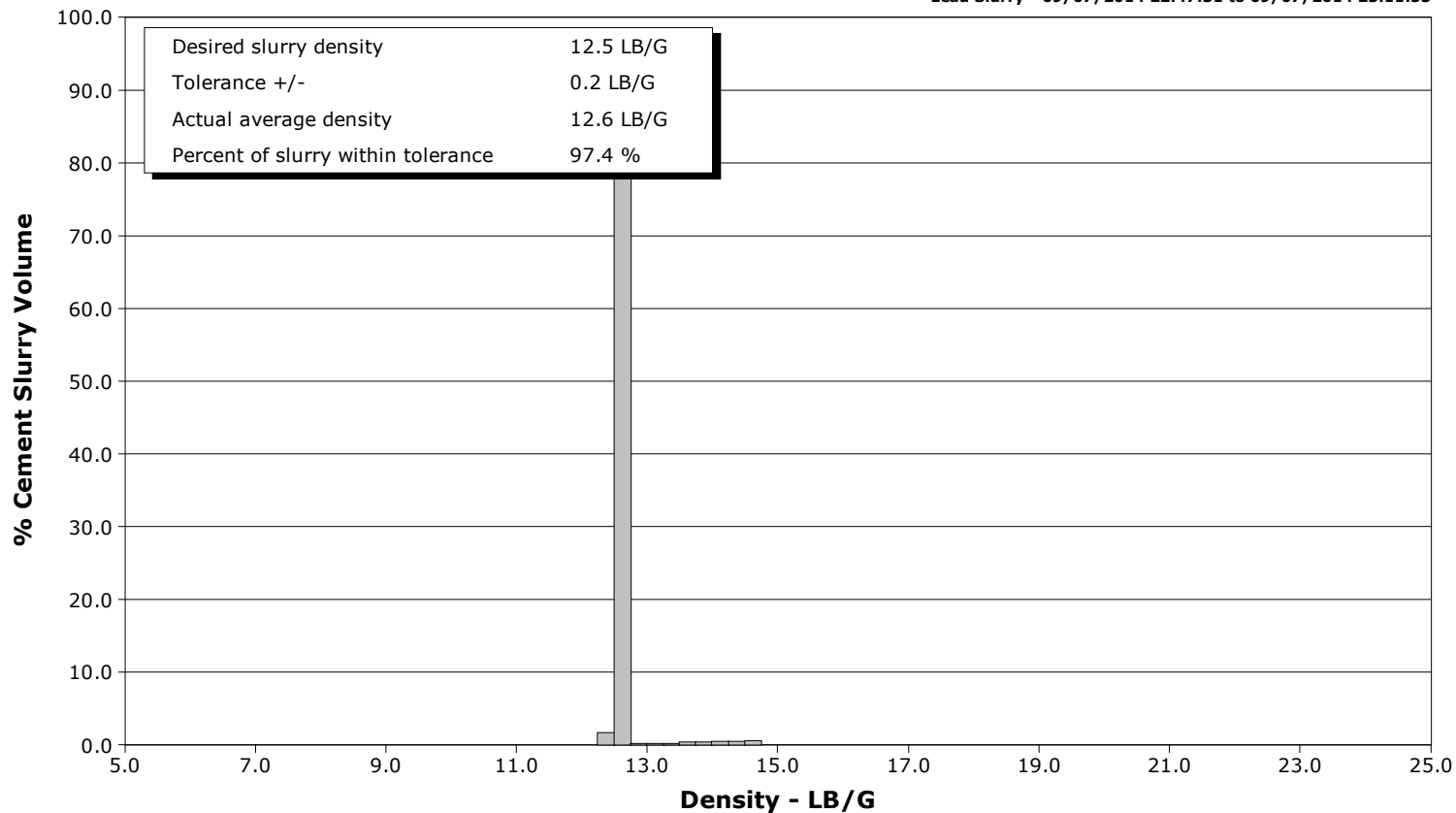


Schlumberger Cementing Qa/Qc Density Report

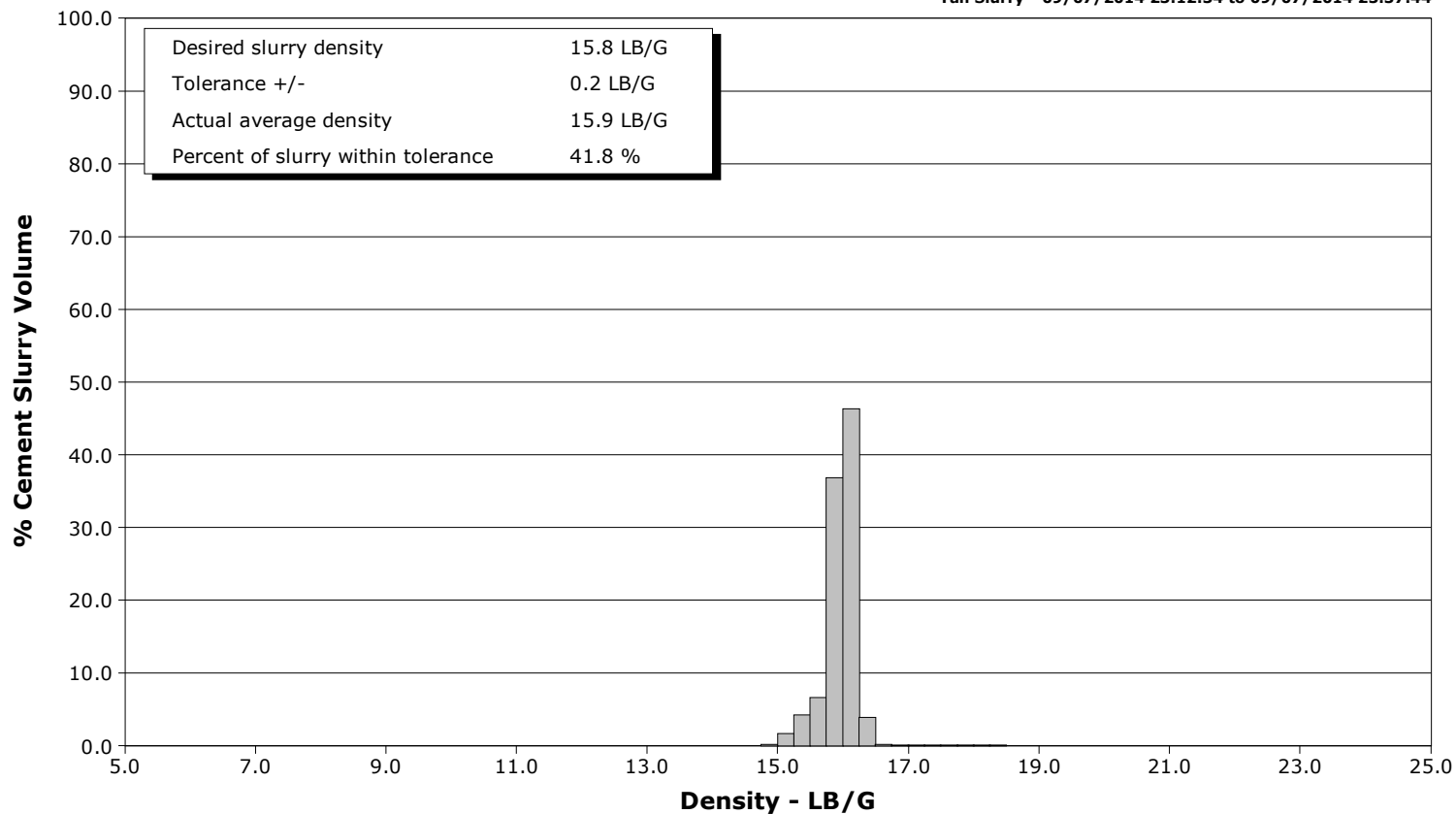
Well Nelson Farms #1
Field Wattenburg
Engineer
Country United States

Client Extraction Oil
SIR No. C459-03080
Job Type Intermediate
Job Date 09-07-2014

Lead Slurry - 09/07/2014 22:47:31 to 09/07/2014 23:11:53



Tail Slurry - 09/07/2014 23:12:34 to 09/07/2014 23:37:44



Cementing Service Report

				Customer Extraction Oil			Job Number C459-03080	
Well Nelson Farms #1			Location (legal)			Schlumberger Location		Job Start Sep/07/2014
Field Wattenburg		Formation Name/Type		Deviation		Bit Size		Well MD
County Weld		State/Province Colorado		BHP		BHST		BHCT
Well Master		API/UWI						Pore Press. Gradient
Rig Name		Drilled For Oil		Service Via Land		Casing/Liner		
Offshore Zone		Well Class New		Well Type Exploration		7540.0		
						0.0		
Drilling Fluid Type		Max. Density		Plastic Viscosity		Tubing/Drill Pipe		
Service Line Cementing		Job Type Intermediate				7540.0		
						0.0		
Max. Allowed Tub. Press		Max. Allowed Ann. Press		WH Connection		Perforations/Open Hole		
Service Instructions						Top, Bottom, No. of Shots, Total Interval		
						Diameter		
						Treat Down Displacement Packer Type Packer Depth		
						Tubing Vol. Casing Vol. Annular Vol. Openhole Vol.		
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure 1565 psi		Shoe Type Guide		Squeeze Type				
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 7540.0 ft		Tool Type		
No. Centralizers		Top Plugs 1		Bottom Plugs		Stage Tool Type		
Cement Head Type Single		Stage Tool Depth		Tail Pipe Size				
Job Scheduled For Sep/07/2014		Arrived on Location Sep/07/2014		Leave Location Sep/07/2014		Collar Type Float		Tail Pipe Depth
						Collar Depth 7502.0 ft		Sqz. Total Vol.
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
09/07/2014	22:17:00	9	0.5	8.45	0.0	0.0		
09/07/2014	22:17:04						Start Job	
09/07/2014	22:17:04	9	0.5	8.47	0.0	0.0		
09/07/2014	22:19:30	4	0.0	8.37	6.6	6.6		
09/07/2014	22:22:00	6	0.0	8.37	6.6	6.6		
09/07/2014	22:24:30	3	0.0	8.33	8.9	8.9		
09/07/2014	22:27:00	114	2.6	8.33	12.7	12.7		
09/07/2014	22:29:30	916	0.0	8.33	13.0	13.0		
09/07/2014	22:32:00	4030	0.0	8.33	13.0	13.0		
09/07/2014	22:34:30	-9	0.0	8.33	13.0	13.0		
09/07/2014	22:34:56						Pressure Test Lines	
09/07/2014	22:34:56	-4	0.0	8.33	13.0	13.0		
09/07/2014	22:34:59						Reset Total, Vol = 13.00 bbl	
09/07/2014	22:34:59	-4	0.0	8.33	13.0	13.0		
09/07/2014	22:35:04						Start Pumping Water	
09/07/2014	22:35:04	-3	0.0	8.33	0.0	0.0		
09/07/2014	22:37:00	7	0.0	8.33	0.0	0.0		
09/07/2014	22:39:30	11	0.0	8.33	0.0	0.0		
09/07/2014	22:42:00	189	3.5	8.33	0.8	0.8		
09/07/2014	22:43:13						End Water	
09/07/2014	22:43:13	194	3.7	10.93	5.3	5.3		

Well			Field		Job Start	Customer	Job Number
Nelson Farms #1			Wattenburg		Sep/07/2014	Extraction Oil	C459-03080
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
09/07/2014	22:43:15	197	3.6	10.98	5.4	5.4	
09/07/2014	22:43:19						Start Pumping Spacer
09/07/2014	22:43:19	196	3.6	11.00	5.7	0.2	
09/07/2014	22:44:30	181	3.6	11.00	10.0	4.6	
09/07/2014	22:46:51						End Spacer
09/07/2014	22:46:51	92	2.2	12.32	16.5	11.1	
09/07/2014	22:46:55						Reset Total, Vol = 11.22 bbl
09/07/2014	22:46:55	92	2.2	12.38	16.6	11.2	
09/07/2014	22:47:00	93	2.2	12.40	16.8	0.2	
09/07/2014	22:47:31						Start Mixing Lead Slurry
09/07/2014	22:47:31	152	3.3	12.43	18.0	1.4	
09/07/2014	22:49:30	580	6.6	12.56	28.0	11.4	
09/07/2014	22:52:00	482	6.6	12.54	44.5	27.9	
09/07/2014	22:54:30	445	6.6	12.51	61.0	44.4	
09/07/2014	22:57:00	388	6.6	12.53	77.5	60.8	
09/07/2014	22:59:30	387	6.6	12.53	94.0	77.3	
09/07/2014	23:02:00	326	6.6	12.55	110.5	93.9	
09/07/2014	23:04:30	271	6.6	12.56	127.1	110.4	
09/07/2014	23:07:00	236	6.6	12.57	143.6	127.0	
09/07/2014	23:09:30	88	4.0	12.59	156.3	139.7	
09/07/2014	23:11:53						End Lead Slurry
09/07/2014	23:11:53	109	3.8	14.72	165.9	149.3	
09/07/2014	23:11:54						Reset Total, Vol = 149.32 bbl
09/07/2014	23:11:54	111	3.8	14.73	166.0	149.3	
09/07/2014	23:12:00	110	3.8	14.80	166.3	0.4	
09/07/2014	23:12:34						Start Mixing Tail Slurry
09/07/2014	23:12:34	113	3.7	15.14	168.5	2.5	
09/07/2014	23:14:30	118	3.6	15.78	175.6	9.7	
09/07/2014	23:17:00	109	3.4	15.75	185.7	19.8	
09/07/2014	23:19:30	12	1.1	15.60	194.2	28.3	
09/07/2014	23:22:00	11	0.1	15.37	194.7	28.7	
09/07/2014	23:24:30	219	5.1	15.87	202.9	36.9	
09/07/2014	23:27:00	241	5.1	15.95	215.7	49.7	
09/07/2014	23:29:30	244	5.1	16.04	228.4	62.5	
09/07/2014	23:32:00	250	5.1	16.04	241.2	75.2	
09/07/2014	23:34:30	132	3.7	16.11	253.0	87.0	
09/07/2014	23:37:00	82	3.8	15.97	262.3	96.3	
09/07/2014	23:37:44						End Tail Slurry
09/07/2014	23:37:44	10	0.0	17.46	262.5	96.6	
09/07/2014	23:37:46						Reset Total, Vol = 96.57 bbl
09/07/2014	23:37:46	9	0.0	17.45	262.5	96.6	
09/07/2014	23:37:52						Drop Top Plug
09/07/2014	23:37:52						Start Displacement
09/07/2014	23:37:52	8	0.0	17.43	262.5	0.0	
09/07/2014	23:39:30	6	0.0	16.96	262.5	0.0	
09/07/2014	23:42:00	8	0.1	15.77	262.7	0.1	
09/07/2014	23:44:30	5	0.0	15.78	262.9	0.3	
09/07/2014	23:47:00	63	4.6	8.64	268.6	6.0	
09/07/2014	23:49:30	66	4.3	8.80	280.2	17.7	
09/07/2014	23:52:00	5	0.2	8.41	288.0	25.4	
09/07/2014	23:54:30	123	5.3	10.67	290.8	28.3	
09/07/2014	23:57:00	82	4.5	10.88	303.3	40.8	
09/07/2014	23:59:30	130	5.3	10.87	315.2	52.7	
09/08/2014	00:02:00	148	5.3	10.88	328.5	66.0	

Well			Field		Job Start	Customer		Job Number
Nelson Farms #1			Wattenburg		Sep/07/2014	Extraction Oil		C459-03080
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
09/08/2014	00:07:00	177	5.8	10.85	357.3	94.8		
09/08/2014	00:09:30	179	5.8	10.85	371.8	109.3		
09/08/2014	00:12:00	159	5.6	10.83	386.0	123.5		
09/08/2014	00:14:30	159	5.6	10.82	400.0	137.5		
09/08/2014	00:17:00	159	5.6	10.82	414.0	151.5		
09/08/2014	00:19:30	279	5.6	10.81	427.9	165.4		
09/08/2014	00:22:00	347	5.6	10.80	442.0	179.5		
09/08/2014	00:24:30	506	5.8	10.80	456.5	194.0		
09/08/2014	00:27:00	631	5.7	10.80	470.9	208.4		
09/08/2014	00:29:30	867	5.4	10.79	485.0	222.5		
09/08/2014	00:32:00	976	5.0	10.79	498.0	235.5		
09/08/2014	00:34:30	1162	4.9	10.79	510.4	247.8		
09/08/2014	00:37:00	1349	4.9	10.79	522.7	260.2		
09/08/2014	00:39:30	1479	4.9	10.79	535.0	272.5		
09/08/2014	00:42:00	1367	3.5	10.76	547.1	284.6		
09/08/2014	00:44:30	1449	3.5	8.61	555.3	292.7		
09/08/2014	00:47:00	1552	2.4	8.53	561.7	299.2		
09/08/2014	00:49:30	2272	0.1	8.49	567.4	304.9		
09/08/2014	00:49:34						Bump Top Plug	
09/08/2014	00:49:34	2273	0.0	8.49	567.4	304.9		
09/08/2014	00:49:37						End Displacement (287 from tanks)	
09/08/2014	00:49:37	2274	0.0	8.49	567.4	304.9		
09/08/2014	00:49:38						20bbl Cement to Surface	
09/08/2014	00:49:38	2274	0.0	8.49	567.4	304.9		
09/08/2014	00:51:56						Check Floats	
09/08/2014	00:51:56	1260	0.0	8.53	567.4	304.9		
09/08/2014	00:52:00	925	0.0	8.53	567.4	304.9		
09/08/2014	00:52:23						Floats Held (2bbl Back	
09/08/2014	00:52:23	-9	0.0	8.53	567.4	304.9		
09/08/2014	00:53:31						End Job	

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 4.5	N2	Mud 0.0	Maximum Rate 8.3	Total Slurry 245.0	Mud 0.0	Spacer 16.5	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 4197	Final 1	Average 461	Bump Plug to 2280	Breakdown	Type	Volume	Density		
Avg. N2 Percent	Designed Slurry Volume 233.0 bbl		Displacement 287.0 bbl	Mix Water Temp 70 degF	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume 20.0 bbl		
					Washed Thru Perfs	<input type="checkbox"/>	To		
Customer or Authorized Representative Justin Glore			Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
						-		-	