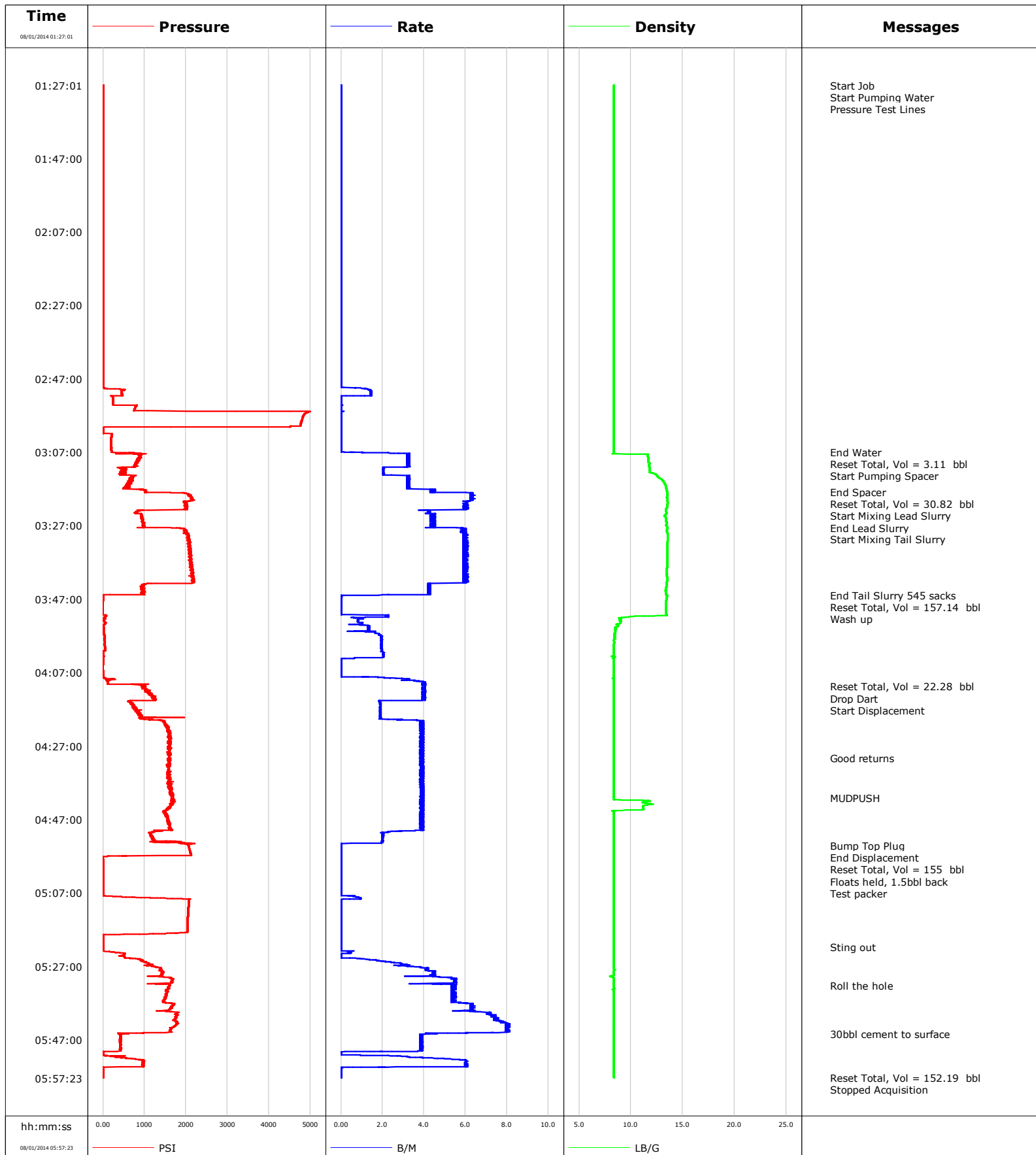


Well	Horsetail 30F-3108	Client	Whiting
Field	Wildcat	SIR No.	D2IK-00029
Engineer	Michael Simon/ S Terry	Job Type	4 1/2 Liner
Country	United States	Job Date	08-01-2014

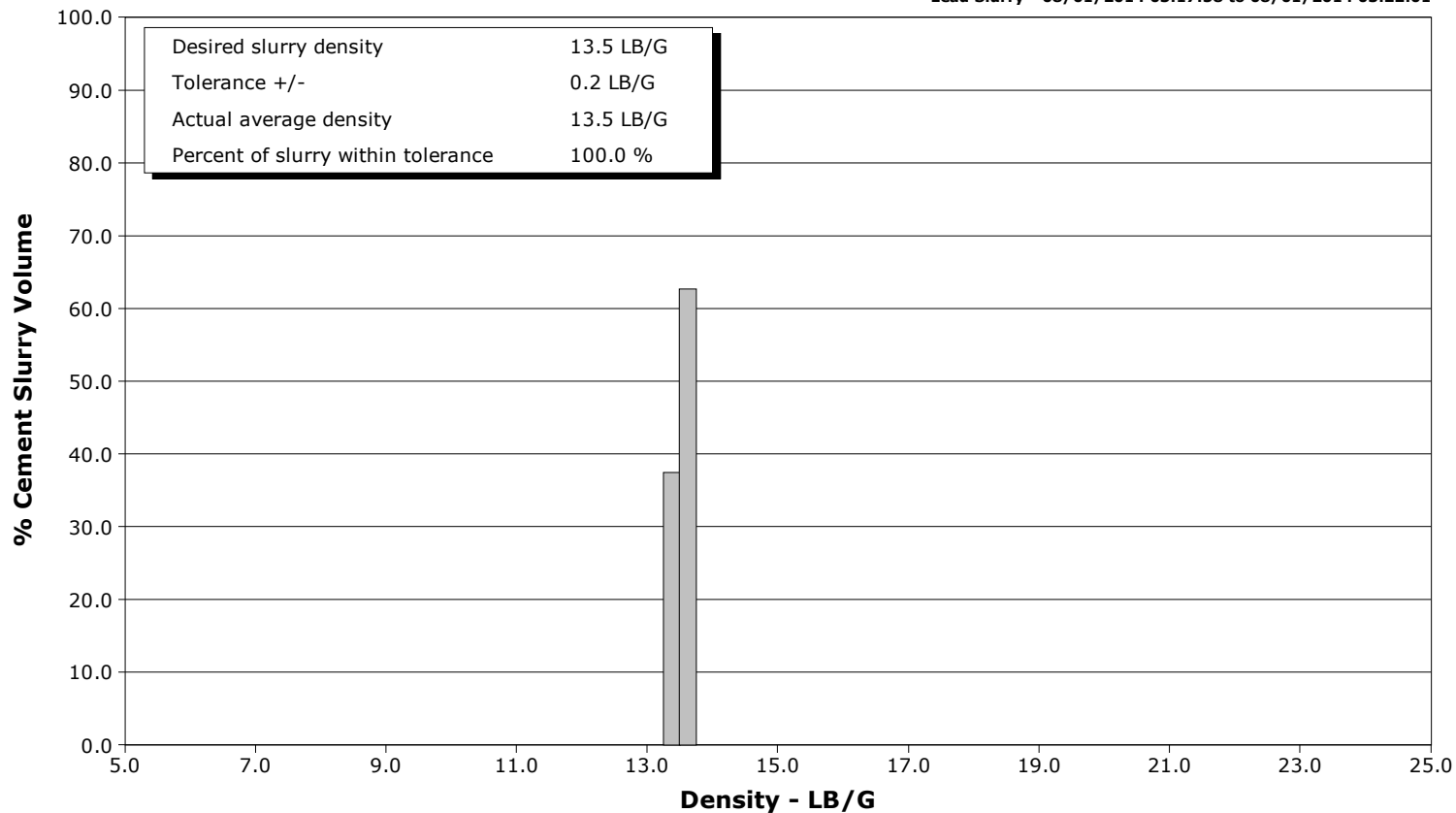


Schlumberger Cementing Qa/Qc Density Report

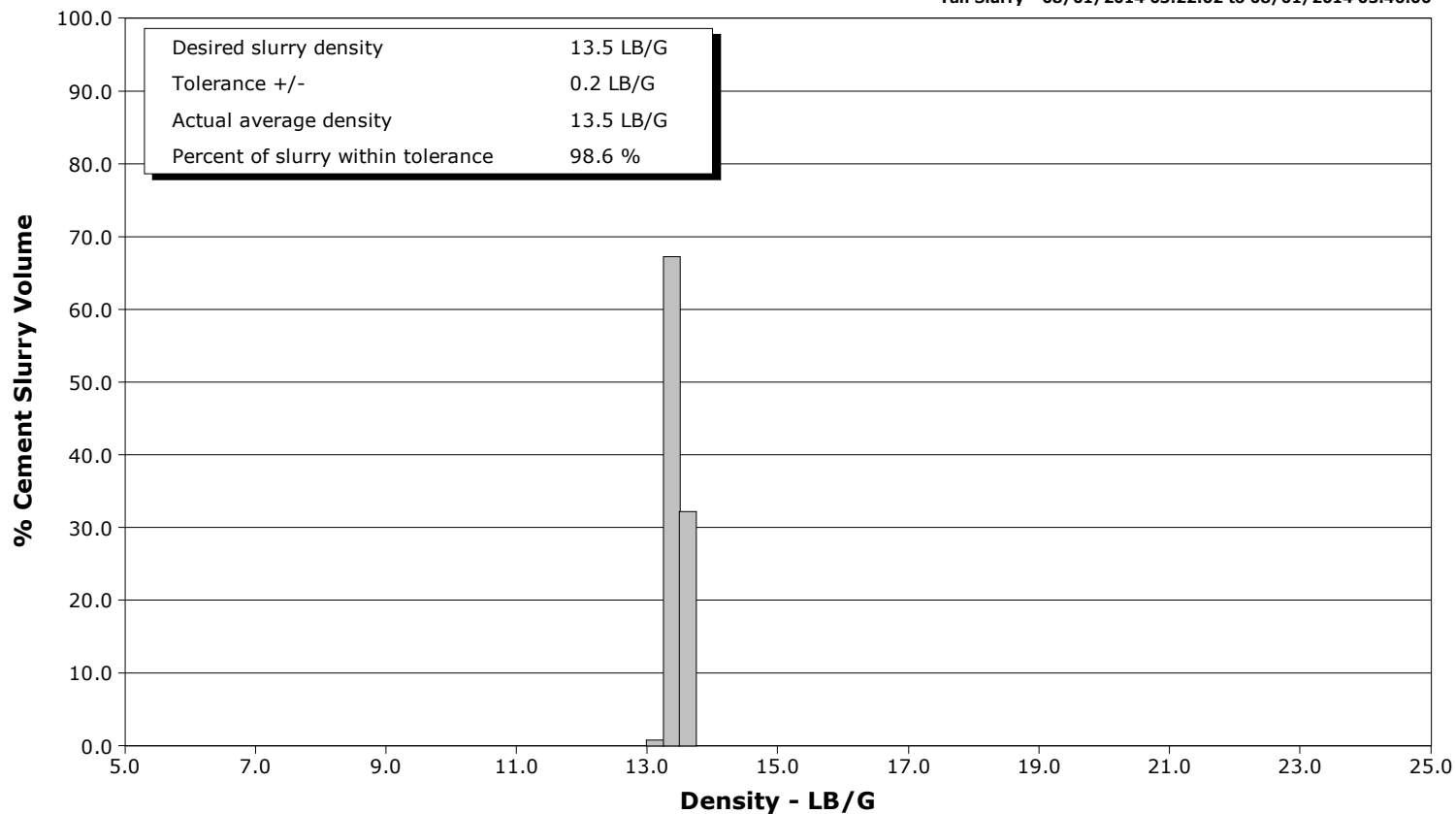
Well Horsetail 30F-3108
Field Wildcat
Engineer Michael Simon/ S Terry
Country United States

Client Whiting
SIR No. D2IK-00029
Job Type 4 1/2 Liner
Job Date 08-01-2014

Lead Slurry - 08/01/2014 03:17:58 to 08/01/2014 03:22:01



Tail Slurry - 08/01/2014 03:22:02 to 08/01/2014 03:46:00





Cementing Service Report

				Customer Whiting		Job Number D2IK-00029		
Well Horsetail 30F-3108 30F 3108			Location (legal) Cheyenne		Schlumberger Location Rock Springs		Job Start Aug/01/2014	
Field Wildcat		Formation Name/Type		Deviation	Bit Size	Well MD 13060.0 ft		Well TVD
County Weld		State/Province Colorado		BHP	BHST 200 degF	BHCT 200 degF	Pore Press. Gradient	
Well Master 0631546513		API/UWI						
Rig Name Xtreme 18	Drilled For Oil & Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	13047.0	4.500	11.6	P110	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 4 1/2 Liner							
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions							Diameter	
			Treat Down Drill Pipe	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			Shoe Type	Float		Squeeze Type		
Pipe Rotated	<input type="checkbox"/>	Pipe Reciprocated	<input type="checkbox"/>	Shoe Depth	13047.0 ft		Tool Type	
No. Centralizers	Top Plugs	1	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type	Single			Stage Tool Depth		Tail Pipe Size		
Job Scheduled For	Arrived on Location	Leave Location	Collar Type	Float		Tail Pipe Depth		
Aug/01/2014	Aug/01/2014	Aug/01/2014	Collar Depth	13000.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/01/2014	01:22:08					Started Acquisition		
08/01/2014	01:27:01					Start Job		
08/01/2014	01:27:01	1	0.0	8.36	0.0			
08/01/2014	01:27:04					Start Pumping Water		
08/01/2014	01:27:04	1	0.0	8.36	0.0			
08/01/2014	01:27:06					Pressure Test Lines		
08/01/2014	01:27:06	1	0.0	8.36	0.0			
08/01/2014	01:28:08	0	0.0	8.36	0.0			
08/01/2014	01:31:08	1	0.0	8.36	0.0			
08/01/2014	01:34:08	1	0.0	8.36	0.0			
08/01/2014	01:37:08	1	0.0	8.36	0.0			
08/01/2014	01:40:08	0	0.0	8.36	0.0			
08/01/2014	01:43:08	1	0.0	8.36	0.0			
08/01/2014	01:46:08	1	0.0	8.36	0.0			
08/01/2014	01:49:08	1	0.0	8.36	0.0			
08/01/2014	01:52:08	1	0.0	8.36	0.0			
08/01/2014	01:55:08	1	0.0	8.36	0.0			
08/01/2014	01:58:08	1	0.0	8.36	0.0			
08/01/2014	02:01:08	0	0.0	8.36	0.0			
08/01/2014	02:04:08	0	0.0	8.36	0.0			
08/01/2014	02:07:08	1	0.0	8.36	0.0			

Well Horsetail 30F-3108 30F 3108			Field Wildcat		Job Start Aug/01/2014		Customer Whiting		Job Number D2IK-00029	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
08/01/2014	02:13:08	0	0.0	8.36	0.0					
08/01/2014	02:16:08	0	0.0	8.36	0.0					
08/01/2014	02:19:08	0	0.0	8.36	0.0					
08/01/2014	02:22:08	0	0.0	8.36	0.0					
08/01/2014	02:25:08	0	0.0	8.36	0.0					
08/01/2014	02:28:08	0	0.0	8.36	0.0					
08/01/2014	02:31:08	0	0.0	8.36	0.0					
08/01/2014	02:34:08	0	0.0	8.36	0.0					
08/01/2014	02:37:08	0	0.0	8.36	0.0					
08/01/2014	02:40:08	0	0.0	8.36	0.0					
08/01/2014	02:43:08	-1	0.0	8.36	0.0					
08/01/2014	02:46:08	0	0.0	8.36	0.0					
08/01/2014	02:49:08	2	0.0	8.36	0.0					
08/01/2014	02:52:08	240	0.0	8.35	3.1					
08/01/2014	02:55:08	764	0.0	8.35	3.1					
08/01/2014	02:58:08	4797	0.0	8.35	3.1					
08/01/2014	03:01:08	1	0.0	8.35	3.1					
08/01/2014	03:04:08	199	0.0	8.35	3.1					
08/01/2014	03:06:57					End Water				
08/01/2014	03:06:57	207	0.0	8.35	3.1					
08/01/2014	03:07:02					Reset Total, Vol = 3.11 bbl				
08/01/2014	03:07:02	205	0.5	8.35	3.1					
08/01/2014	03:07:07					Start Pumping Spacer				
08/01/2014	03:07:07	308	1.0	8.35	3.2					
08/01/2014	03:07:08	308	1.0	8.35	3.2					
08/01/2014	03:10:08	783	3.3	11.78	12.7					
08/01/2014	03:13:08	478	2.0	12.40	20.1					
08/01/2014	03:16:08	551	3.3	13.35	29.6					
08/01/2014	03:17:48					End Spacer				
08/01/2014	03:17:48	1016	4.3	13.48	35.9					
08/01/2014	03:17:49					Reset Total, Vol = 30.82 bbl				
08/01/2014	03:17:49	1016	4.3	13.49	35.9					
08/01/2014	03:17:58					Start Mixing Lead Slurry				
08/01/2014	03:17:58	1045	4.3	13.49	36.6					
08/01/2014	03:19:08	2110	6.4	13.48	43.9					
08/01/2014	03:22:01					End Lead Slurry				
08/01/2014	03:22:01	2029	6.1	13.49	61.5					
08/01/2014	03:22:02					Start Mixing Tail Slurry				
08/01/2014	03:22:02	2030	6.0	13.49	61.6					
08/01/2014	03:22:08	2010	6.0	13.46	62.2					
08/01/2014	03:25:08	953	4.4	13.35	76.3					
08/01/2014	03:28:08	1998	5.8	13.48	90.5					
08/01/2014	03:31:08	2037	6.0	13.53	108.4					
08/01/2014	03:34:08	2108	6.0	13.51	126.3					
08/01/2014	03:37:08	2144	6.0	13.50	144.2					
08/01/2014	03:40:08	2159	6.0	13.47	162.2					
08/01/2014	03:43:08	952	4.3	13.45	179.3					
08/01/2014	03:46:00					End Tail Slurry				
08/01/2014	03:46:00	9	0.0	13.49	191.1					
08/01/2014	03:46:07					Reset Total, Vol = 157.14 bbl				
08/01/2014	03:46:07	8	0.0	13.49	191.1					
08/01/2014	03:46:08	8	0.0	13.49	191.1					
08/01/2014	03:46:25					Wash up				
08/01/2014	03:46:25	6	0.0	13.46	191.1					

Well Horsetail 30F-3108 30F 3108			Field Wildcat		Job Start Aug/01/2014	Customer Whiting	Job Number D2IK-00029
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/01/2014	03:52:08	26	0.6	8.97	192.6		
08/01/2014	03:55:08	8	1.4	8.56	195.7		
08/01/2014	03:58:08	36	2.0	8.37	200.8		
08/01/2014	04:01:08	-4	2.0	8.36	206.6		
08/01/2014	04:04:08	1	0.0	8.35	210.5		
08/01/2014	04:07:08	0	0.0	8.36	210.5		
08/01/2014	04:10:08	113	3.9	8.35	216.9		
08/01/2014	04:10:45					Reset Total, Vol = 22.28 bbl	
08/01/2014	04:10:45	1005	4.0	8.35	219.4		
08/01/2014	04:10:47					Drop Dart	
08/01/2014	04:10:47					Start Displacement	
08/01/2014	04:10:47	947	4.0	8.35	219.5		
08/01/2014	04:13:08	1172	4.0	8.36	228.9		
08/01/2014	04:16:08	722	1.9	8.35	237.7		
08/01/2014	04:19:08	1037	1.9	8.36	243.4		
08/01/2014	04:22:08	1541	4.0	8.36	253.7		
08/01/2014	04:25:08	1590	4.0	8.36	265.5		
08/01/2014	04:28:08	1597	3.8	8.36	277.2		
08/01/2014	04:30:18					Good returns	
08/01/2014	04:30:18	1612	3.9	8.36	285.7		
08/01/2014	04:31:08	1582	3.8	8.36	289.0		
08/01/2014	04:34:08	1623	4.0	8.36	300.8		
08/01/2014	04:37:08	1589	3.9	8.36	312.6		
08/01/2014	04:40:08	1612	4.0	8.36	324.4		
08/01/2014	04:41:05					MUDPUSH	
08/01/2014	04:41:05	1668	4.0	8.36	328.1		
08/01/2014	04:43:08	1675	4.0	11.39	336.2		
08/01/2014	04:46:08	1557	4.0	8.36	347.9		
08/01/2014	04:49:08	1617	4.0	8.37	359.7		
08/01/2014	04:52:08	1220	2.0	8.36	367.7		
08/01/2014	04:54:08					Bump Top Plug	
08/01/2014	04:54:08	2060	0.0	8.36	370.4		
08/01/2014	04:54:09					End Displacement	
08/01/2014	04:54:09	2060	0.0	8.36	370.4		
08/01/2014	04:54:11					Reset Total, Vol = 155 bbl	
08/01/2014	04:54:11	2062	0.0	8.36	370.4		
08/01/2014	04:55:08	2086	0.0	8.36	370.4		
08/01/2014	04:58:08	-0	0.0	8.36	370.4		
08/01/2014	04:58:29					Floats held, 1.5bbl back	
08/01/2014	04:58:29	0	0.0	8.36	370.4		
08/01/2014	04:58:51					Test packer	
08/01/2014	04:58:51	0	0.0	8.36	370.4		
08/01/2014	05:01:08	0	0.0	8.36	370.4		
08/01/2014	05:04:08	0	0.0	8.36	370.4		
08/01/2014	05:07:08	1	0.0	8.36	370.4		
08/01/2014	05:10:08	2064	0.0	8.36	371.2		
08/01/2014	05:13:08	2049	0.0	8.36	371.2		
08/01/2014	05:16:08	2039	0.0	8.36	371.2		
08/01/2014	05:19:08	3	0.0	8.36	371.2		
08/01/2014	05:21:43					Sting out	
08/01/2014	05:21:43	2	0.0	8.36	371.2		
08/01/2014	05:22:08	3	0.0	8.36	371.2		
08/01/2014	05:25:08	865	1.2	8.36	371.8		
08/01/2014	05:28:08	1372	4.2	8.37	381.1		

Well Horsetail 30F-3108 30F 3108			Field Wildcat		Job Start Aug/01/2014		Customer Whiting		Job Number D2IK-00029	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G	Volume BBL	Message			
08/01/2014	05:32:05						Roll the hole			
08/01/2014	05:32:05	1603		5.4	8.35	400.4				
08/01/2014	05:34:08	1543		5.4	8.35	411.5				
08/01/2014	05:37:08	1696		6.4	8.36	427.9				
08/01/2014	05:40:08	1761		7.1	8.35	447.3				
08/01/2014	05:43:08	1737		8.1	8.35	470.2				
08/01/2014	05:45:23						30bbl cement to surface			
08/01/2014	05:45:23	436		4.3	8.35	487.3				
08/01/2014	05:46:08	418		3.8	8.35	490.2				
08/01/2014	05:49:08	442		3.9	8.35	501.8				
08/01/2014	05:52:08	698		5.0	8.35	508.9				
08/01/2014	05:55:08	11		0.0	8.35	522.6				
08/01/2014	05:57:16						Reset Total, Vol = 152.19 bbl			
08/01/2014	05:57:16	5		0.0	8.35	522.6				
08/01/2014	05:57:23	4		0.0	8.41	522.6				

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl							
Slurry 4.0	N2	Mud 0.0	Maximum Rate 8.2	Total Slurry 157.0	Mud 0.0	Spacer 30.0	N2					
Treating Pressure Summary, psi					Breakdown Fluid							
Maximum 4991	Final 4	Average 831	Bump Plug to	Breakdown	Type	Volume	Density					
Avg. N2 Percent		Designed Slurry Volume 158.0 bbl		Displacement 155.0 bbl		Mix Water Temp 65 degF		Cement Circulated to Surface?		<input checked="" type="checkbox"/>	Volume 30.0 bbl	
								Washed Thru Perfs		<input type="checkbox"/>	To	
Customer or Authorized Representative Lewis Young				Schlumberger Supervisor Michael Simon/ S Terry				Circulation Lost		<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
								-			-	