

Cementing Service Report

				Customer Whiting Oil & Gas		Job Number 2007751	
Well Horsetail 30F-1943		Location (legal) CWY		Schlumberger Location CWY		Job Start Oct/02/2014	
Field Wildcat		Formation Name/Type Shale		Deviation deg		Well MD 1600.0 ft	
County Weld		State/Province CO		Bit Size 13.5 in		Well TVD 1600.0 ft	
Well Master 0631523936		API/UWI 05123387390000		BHP psi		BHST 102 degF	
Rig Name Xtreme 18		Drilled For Oil		BHCT 83 degF		Pore Press. Gradient lb/gal	
Offshore Zone		Service Via Land		Casing/Liner			
Well Class New		Well Type Development		Depth, ft			
				Size, in			
				Weight, lb/ft			
				Grade			
				Thread			
Drilling Fluid Type		Max. Density lb/gal		Tubing/Drill Pipe			
		Plastic Viscosity cP		T/D			
Service Line Cementing		Job Type 9 5/8 Surface		Depth, ft			
				Size, in			
				Weight, lb/ft			
				Grade			
				Thread			
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		Perforations/Open Hole			
		WH Connection Single Cement head		Top, ft			
				Bottom, ft			
				shot/ft			
				No. of Shots			
				Total Interval ft			
Service Instructions Rig Up Hold Safety Meeting Flush Lines Pressure Test Lines Pump 20 BBLS H2O Pump 119 BBLS 11.5 Lead Pump 61 BBLS 14.2 Tail Drop Top Plug Displace 121 BBLS H2O				ft			
				ft			
				ft			
				ft			
				ft			
				Treat Down Casing			
				Displacement 121.0 bbl			
				Packer Type			
				Packer Depth ft			
				Tubing Vol. bbl			
				Casing Vol. 124.0 bbl			
				Annular Vol. 144.0 bbl			
				Openhole Vol. 272.0 bbl			
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools			
Lift Pressure psi				Shoe Type Guide			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1606.0 ft			
No. Centralizers		Top Plugs 1		Tool Type			
Cement Head Type Single		Bottom Plugs		Tool Depth ft			
Job Scheduled For Oct/02/2014 00:00		Arrived on Location Oct/02/2014 00:00		Stage Tool Type			
		Leave Location Oct/02/2014 10:00		Stage Tool Depth ft			
				Tail Pipe Size in			
				Collar Type Float			
				Tail Pipe Depth ft			
				Collar Depth 1562.0 ft			
				Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/02/2014	06:06:58	4	0.0	8.36	0.0	Started Acquisition	
10/02/2014	06:07:00	4	0.0	8.36	0.0	Rig Up	
10/02/2014	06:08:28	4	0.0	8.36	0.0		
10/02/2014	06:09:58	49	2.8	8.35	1.8		
10/02/2014	06:11:28	2	0.0	8.36	5.2		
10/02/2014	06:12:58	826	0.0	8.36	5.2		
10/02/2014	06:14:28	3211	0.0	8.36	5.2		
10/02/2014	06:15:58	2987	0.0	8.36	5.3		
10/02/2014	06:17:28	2878	0.0	8.36	5.3		
10/02/2014	06:18:58	3263	0.0	8.36	5.3		
10/02/2014	06:20:28	-11	0.0	8.36	5.3		
10/02/2014	06:21:37	-0	0.0	8.36	5.3	Pressure Test Lines	
10/02/2014	06:21:38	-1	0.0	8.36	5.3	Low 800 = Good	
10/02/2014	06:21:39	-1	0.0	8.36	5.3	Pump 20 BBLS H2O	
10/02/2014	06:21:58	-1	0.0	8.36	5.3		
10/02/2014	06:23:28	56	2.9	8.35	7.1		
10/02/2014	06:24:58	49	2.9	8.35	11.4		
10/02/2014	06:26:28	48	2.9	8.35	15.7		
10/02/2014	06:27:58	49	2.9	8.35	20.1		
10/02/2014	06:28:42	44	2.2	11.52	1.1	Start Cement Slurry	
10/02/2014	06:28:43	46	2.2	11.51	1.2	Start Mixing Lead Slurry	

Well			Field		Job Start	Customer		Job Number	
Horsetail 30F-1943			Wildcat		Oct/02/2014	Whiting Oil & Gas		2007751	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/02/2014	06:30:58	92	3.4	11.50	8.5				
10/02/2014	06:32:28	95	4.3	11.47	13.7				
10/02/2014	06:33:58	158	4.6	11.47	20.4				
10/02/2014	06:34:01	233	4.4	11.48	20.6	Pump 119 BBLS 11.5 Lead			
10/02/2014	06:34:02	89	4.4	11.48	20.7	Take Dry Sample = 009602			
10/02/2014	06:35:28	216	4.5	11.55	26.8				
10/02/2014	06:35:33	230	4.4	11.54	27.2	Take H2O Sample = 009695			
10/02/2014	06:35:55	147	4.5	11.52	28.8	Good Returns			
10/02/2014	06:36:58	142	4.6	11.55	33.4				
10/02/2014	06:38:28	160	4.3	11.52	40.1				
10/02/2014	06:39:58	171	4.3	11.46	46.6				
10/02/2014	06:41:28	134	4.2	11.52	53.1				
10/02/2014	06:42:58	209	3.9	11.52	59.6				
10/02/2014	06:44:28	124	4.3	11.47	65.2				
10/02/2014	06:45:58	212	3.9	11.48	70.4				
10/02/2014	06:47:28	203	4.5	11.47	77.2				
10/02/2014	06:48:58	83	4.1	11.43	83.9				
10/02/2014	06:50:28	185	4.5	11.45	90.6				
10/02/2014	06:51:58	88	4.4	11.48	98.0				
10/02/2014	06:53:28	227	4.5	11.52	104.8				
10/02/2014	06:54:58	122	4.5	11.52	111.6				
10/02/2014	06:56:28	176	4.5	11.50	118.3				
10/02/2014	06:57:00	194	4.3	11.48	120.6	End Lead Slurry			
10/02/2014	06:57:58	132	4.3	13.50	124.8				
10/02/2014	06:59:28	95	2.9	13.55	0.9				
10/02/2014	07:00:43	76	2.5	13.91	4.3	Start Mixing Tail Slurry			
10/02/2014	07:00:58	76	2.5	13.97	5.0				
10/02/2014	07:02:28	74	2.4	14.10	10.0				
10/02/2014	07:03:58	77	2.4	14.20	15.1				
10/02/2014	07:05:28	80	2.5	14.18	21.9				
10/02/2014	07:06:58	80	2.5	14.22	28.7				
10/02/2014	07:08:17	83	2.5	14.23	34.7	Pump 61 BBLS Tail			
10/02/2014	07:08:18	84	2.5	14.23	34.8	Take Dry Sample = 010379			
10/02/2014	07:08:28	81	2.5	14.23	35.5				
10/02/2014	07:09:26	82	2.5	14.22	39.9	Good Returns			
10/02/2014	07:09:58	82	2.5	14.22	42.3				
10/02/2014	07:11:28	84	2.5	14.22	48.6				
10/02/2014	07:12:58	81	2.5	14.21	55.0				
10/02/2014	07:14:28	83	2.5	14.23	61.8				
10/02/2014	07:15:58	83	2.5	14.21	68.6				
10/02/2014	07:17:28	109	2.8	14.18	75.4				
10/02/2014	07:18:58	116	3.1	14.17	82.2				
10/02/2014	07:20:28	112	3.1	14.13	89.0				
10/02/2014	07:21:38	19	1.4	14.30	94.2	End Tail Slurry			
10/02/2014	07:21:39	5	0.9	14.39	94.2	Drop Top Plug			
10/02/2014	07:21:40	2	0.9	14.39	94.3	Start Displacement			
10/02/2014	07:21:41	6	0.3	14.43	94.3	Displace 120 BBLS H2O			
10/02/2014	07:21:42	6	0.1	14.45	94.3	Good Returns			
10/02/2014	07:21:58	15	0.0	14.50	94.3				
10/02/2014	07:23:28	17	0.0	14.47	94.3				
10/02/2014	07:24:58	16	0.0	14.44	94.3				
10/02/2014	07:26:28	17	0.0	14.45	94.3				
10/02/2014	07:27:58	18	0.0	19.46	0.0				
10/02/2014	07:29:28	21	0.0	13.01	1.6				

Well		Field		Job Start		Customer		Job Number
Horsetail 30F-1943		Wildcat		Oct/02/2014		Whiting Oil & Gas		2007751
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
10/02/2014	07:32:28	14	0.0	11.87	1.6			
10/02/2014	07:33:58	13	0.0	11.40	1.6			
10/02/2014	07:35:28	22	0.0	11.18	3.7			
10/02/2014	07:36:58	22	0.1	10.96	5.7			
10/02/2014	07:38:28	19	0.1	10.88	5.7			
10/02/2014	07:39:58	18	0.1	10.83	5.7			
10/02/2014	07:41:28	17	0.2	10.78	5.7			
10/02/2014	07:42:58	18	0.1	10.72	5.7			
10/02/2014	07:44:28	28	0.0	11.36	8.8			
10/02/2014	07:45:58	8	0.1	10.64	8.8			
10/02/2014	07:47:28	7	0.1	10.28	8.8			
10/02/2014	07:48:58	61	2.2	9.60	10.4			
10/02/2014	07:50:28	72	3.4	8.62	13.3			
10/02/2014	07:51:58	85	4.6	8.67	19.1			
10/02/2014	07:53:28	133	4.5	8.73	25.9			
10/02/2014	07:54:58	81	4.7	8.37	32.7			
10/02/2014	07:56:28	142	5.1	8.37	40.2			
10/02/2014	07:57:58	155	5.1	8.36	47.8			
10/02/2014	07:59:28	169	5.0	8.36	55.4			
10/02/2014	08:00:58	213	5.0	8.37	62.9			
10/02/2014	08:02:28	161	4.9	8.36	70.3			
10/02/2014	08:03:58	82	0.0	8.36	76.8			
10/02/2014	08:05:28	86	0.0	8.36	76.8			
10/02/2014	08:06:58	88	0.0	8.36	76.8			
10/02/2014	08:08:28	203	2.7	8.35	78.3			
10/02/2014	08:09:58	295	4.9	8.36	85.5			
10/02/2014	08:11:28	453	4.9	8.36	92.8			
10/02/2014	08:12:58	351	4.8	8.36	100.1			
10/02/2014	08:14:28	479	4.9	8.36	107.4			
10/02/2014	08:15:58	342	3.9	8.36	114.4			
10/02/2014	08:17:28	419	3.0	8.36	119.5			
10/02/2014	08:18:58	356	1.7	8.36	123.2			
10/02/2014	08:20:28	344	0.0	8.36	125.5			
10/02/2014	08:21:58	322	0.0	8.36	125.5			
10/02/2014	08:23:28	312	0.0	8.36	125.6			
10/02/2014	08:24:58	304	0.0	8.36	125.6			
10/02/2014	08:26:28	5	0.0	8.36	125.6			
10/02/2014	08:27:58	5	0.0	8.36	125.6			
10/02/2014	08:29:00	4	0.0	8.36	125.6	Did Not Bump		
10/02/2014	08:29:03	4	0.0	8.36	125.6	Cut Displacement 8 BBLS Short Per Company Mans		
10/02/2014	08:29:28	4	0.0	8.36	125.6			
10/02/2014	08:30:00	1	0.0	8.36	125.6	End Job		
10/02/2014	08:30:58	1	0.0	8.36	125.6			
10/02/2014	08:31:00	1	0.0	8.36	125.6	40 BBLS Cement To Surface		
10/02/2014	08:32:28	1	0.0	8.36	125.6			
10/02/2014	08:33:58	39	0.0	8.37	127.5			
10/02/2014	08:35:28	206	5.6	8.37	129.4			
10/02/2014	08:36:58	454	7.9	8.38	129.4			
10/02/2014	08:38:28	15	1.8	8.51	129.4			
10/02/2014	08:39:58	2	0.0	8.37	129.4			
10/02/2014	08:41:28	1	0.0	8.36	129.4			
10/02/2014	08:42:58	-0	0.0	7.01	129.4			
10/02/2014	08:44:28	-0	7.4	0.19	129.4			
10/02/2014	08:45:58	0	3.7	0.04	129.4			

Well		Field		Job Start	Customer		Job Number
Horsetail 30F-1943		Wildcat		Oct/02/2014	Whiting Oil & Gas		2007751
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
10/02/2014	08:48:58	-2	0.0	0.06	129.4		
10/02/2014	08:50:28	18	0.0	9.17	129.4		
10/02/2014	08:51:58	-3	0.1	8.44	129.4		
10/02/2014	08:53:28	-3	0.1	8.39	129.4		
10/02/2014	08:54:58	-4	0.1	8.38	129.4		
10/02/2014	08:56:28	-4	0.1	8.38	129.4		
10/02/2014	08:57:58	-4	0.1	8.37	129.4		
10/02/2014	08:59:28	-5	0.1	8.37	129.4		
10/02/2014	09:00:58	-5	0.1	8.37	129.4		
10/02/2014	09:02:28	-5	3.6	0.04	129.4		
10/02/2014	09:03:58	-5	4.5	0.03	129.4		
10/02/2014	09:05:28	-5	5.7	0.03	129.4		
10/02/2014	09:06:58	-5	6.2	0.03	129.4		
10/02/2014	09:08:28	-5	6.7	0.03	129.4		

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry 3.0	N2	Mud	Maximum Rate 25.0	Total Slurry 180.0	Mud 0.0	Spacer 20.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 3301	Final -5	Average 247	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 180.0 bbl		Displacement 112.0 bbl	Mix Water Temp 60 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 40.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Brady Sharpe			Schlumberger Supervisor Conley Jensen/ Lyle Hartsfield			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>

Well	Horsetail	Client	Whiting Oil Gas
Field	Wildcat	SIR No.	2007751
Engineer	Conley Jensen/ Lyle Hartsfield	Job Type	9 5/8 Surface
Country	United States	Job Date	10-02-2014

