

## CEMENT JOB REPORT



CUSTOMER WHITING PETROLEUM CORP		DATE 24-MAY-13	F.R. # 1001989935		SERV. SUPV. COLE W MARRIOTT										
LEASE & WELL NAME HORSETAIL #07-0611H - API 05123366470000		LOCATION 7-10N-57W		COUNTY-PARISH-BLOCK Weld Colorado											
DISTRICT Brighton		DRILLING CONTRACTOR RIG # CADE 21		TYPE OF JOB Intermediate											
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD TVD HANGER TYPES MD TVD									
Cement Plug, Rubber, Top 7 in		Float Collar, Auto Fill, 7 - 8rd													
		Float Shoe 7 - 8rd													
MATERIALS FURNISHED BY BJ		LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES												
			SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER						
			0	10.5	0	0	00:00	40							
			328	10.5	2.64	8.86		154.20	69.23						
			0	8.34	0	0	00:00	230.21							
Fresh Water		0	0	8.34	0	0	00:00	230.21							
(35:65) Poz:G+LW6+1.2%FL25+.5%SMS+20%SS+5%		0	108	10.5	3.12	10.49		60.04	26.99						
Available Mix Water 900 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL		484.45	96.22								
HOLE		TBG-CSG-D.P.					COLLAR DEPTHS								
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE			
8.75	35	6170	6.184	7	29	CSG	6160	5980	P-110	6160	6119	0			
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID							
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.		
8.9	9.63	36	CSG	1850	1850	No Packer	0	0	0	7	8RD	WATER BASED	9.7		
DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		MIX WATER	
VOLUME	UOM	TYPE		WGT.	BUMP PLUG	TO REV.		SQ. PSI	RATED	Operator	RATED	Operator			
227.3	BBLs	Fresh Water		8.34	685	0		0	0	0	7968	3000	Rig		
Circulation Prior to Job															
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1.5				Circulation Rate: 5 BPM							
Mud Density In: 9.7 LBS/GAL				Mud Density Out: 9.7 LBS/GAL				PV & YP Mud In: 13				PV & YP Mud Out: 13			
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				Units:				Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>							
Displacement And Mud Removal															
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>				Amount Bled Back After Job: 1.8 BBLs											
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL				Method Used to Verify Returns: Visual											
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES											
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE															
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 10				Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID							
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD															
Plugs															
Number of Attempts by BJ: 0				Competition: 0				Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Quantity:					
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES											
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Top of Plug: 0 FT				Bottom of Plug: 0 FT							
Squeezes (Update Original Treatment Report for Primary Job)															
BLOCK SQUEEZE <input type="checkbox"/>				SHOE SQUEEZE <input type="checkbox"/>				TOP OF LINER SQUEEZE <input type="checkbox"/>				PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>			
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				PSI Applied: 0				Fluid Weight: 0 LBS/GAL			
Casing Test (Update Original Treatment Report for Primary Job)															
Casing Test Pressure: 1615 PSI				With 8.34 LBS/GAL Mud				Time Held: 00 Hours 30 Minutes							
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None															
PRESSURE/RATE DETAIL															
EXPLANATION															



CEMENT JOB REPORT



Shoe Test (Update Original Treatment Report for Primary Job)									
Depth Drilled out of Shoe: 0 FT					Target EMW: 0 LBS/GAL		Actual EMW: 0 LBS/GAL		
Number of Times Tests Conducted: 0					Mud Weight When Test was Conducted: 0 LBS/GAL				
Problems Before Job (I.E. Running Casing, Circulating Well, ETC) None									
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC) None									
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC) None									
PRESSURE/RATE DETAIL						EXPLANATION			
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>			
	PIPE	ANNULUS				TEST LINES 4001 PSI			
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>			
10:30	0	0	0	0	N/A	Arrive on location			
10:45	0	0	0	0	N/A	Spot trucks rig starts circulating			
10:55	0	0	0	0	N/A	Pre rig up safety meeting			
12:00	0	0	0	0	N/A	Pre job safety meeting			
12:09	4001	0	0	0	N/A	Pressure test			
12:13	320	0	6	20	H2O	Ultra flush II			
12:17	348	0	6	20	H2O	Fresh water			
12:24	373	0	5.8	155	CMT	Batch up weigh and pump 328 sxs of LW-6 CMT			
12:58	323	0	5.9	60	CMT	Batch up weigh and pump 108 sxs of LW-6 CMT			
13:12	0	0	0	0	N/A	Drop plug			
13:14	1565	0	7.2	200	H2O	Displacement			
13:45	1466	0	6	10	H2O	Slow rate			
13:48	1216	0	3.6	18	H2O	Bump plug			
13:50	1913	0	0	0	N/A	Plug down			
13:55	1615	0	3.6	2	H2O	Casing test			
BUMPED PLUG <input type="checkbox"/> Y <input type="checkbox"/> N		PSI TO BUMP PLUG 1216	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input type="checkbox"/> N		BBL.CMT RETURNS/ REVERSED 12	TOTAL BBL. PUMPED 485	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT <input type="checkbox"/> Y <input type="checkbox"/> N	Service Supervisor Signature: 