

CEMENT JOB REPORT



CUSTOMER WHITING PETROLEUM CORP		DATE 23-APR-13	F.R. # 1001982024	SERV. SUPV. COLE W MARRIOTT											
LEASE & WELL NAME RAZOR #33-2813H - API 05123365790000		LOCATION 33-10N-58W		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											
7" Top Cem Plug, Nitrile cvr, Phen		Float Collar, AI Flap, 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					
				Ultra Flush II Spacer	0	0	10.5	0	0	00:00	40				
				(35:65) Poz:G+LW6+.1%R3+1.2%FL25+.5%SMS+5%'	0	317	10.5	2.64	8.86		149.03	66.91			
				Fresh Water	0	0	8.34	0	0	00:00	224.08				
(35:65) Poz:G+LW6+1.2%FL25+.5%SMS+20%SS+5%		0	110	10.5	3.12	10.50		61	27.40						
Available Mix Water 900 Bbl.		Available Displ. Fluid 300 Bbl.		TOTAL 474.11 94.31											
HOLE		TBG-CSG-D.P.				COLLAR DEPTHS									
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE			
8.75	35	6146	6.184	7	29	CSG	6128	5775	P-110	6128	6081	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	1550	1550	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					
225.4	BBLS	Fresh Water	8.34	252	0	0	0	0	7968	3000	Rig				
Circulation Prior to Job															
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 3				Circulation Rate: 5 BPM							
Mud Density In: 9.7 LBS/GAL				Mud Density Out: 9.7 LBS/GAL				PV & YP Mud In: 14				PV & YP Mud Out: 14			
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: 1.5 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"/> RECIPROCATION <input checked="" 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: 1502 PSI				With 9.7 LBS/GAL Mud				Time Held: 00 Hours 15 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	4151 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
06:20	0	0	0	0	N/A	Arrive on location	102 miles
06:40	0	0	0	0	N/A	Spot trucks rig ready for service	
06:50	0	0	0	0	N/A	Pre rig up safety meeting	
07:45	0	0	0	0	N/A	Pre job safety meeting	
08:37	4151	0	0	0	H2O	Pressure test	
08:48	461	0	6	20	H2O	Ultra flush II spacer	
09:00	657	0	6	154	CMT	Batch up weigh and pump 317 sxs of LW-6 Cement @ 10.5 PPG	
09:32	354	0	5	66	CMT	Batch up weigh and pump 110 sxs of LW-6 Cement @ 10.5 PPG tail with different additives than lead	
09:50	0	0	0	0	N/A	Drop plug	
09:54	1098	0	4.8	225	MUD	Displacement	
10:41	1098	0	0	0	N/A	Plug down	
10:45	1502	0	2.4	1	H2O	Casing test	
BUMPED PLUG <input type="checkbox"/> Y <input type="checkbox"/> N	PSI TO BUMP PLUG 1098	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 30	TOTAL BBL. PUMPED 466	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT <input type="checkbox"/> Y <input type="checkbox"/> N	Service Supervisor Signature: 