

# CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING PETROLEUM CORP		<b>DATE</b> 07-OCT-12		<b>F.R. #</b> 1001938877		<b>SERV. SUPV.</b> AARON M MCWILLIAMS	
<b>LEASE &amp; WELL NAME</b> RAZOR #12-0141H - API 05123360520000		<b>LOCATION</b> 12-10N-58W		<b>COUNTY-PARISH-BLOCK</b> Weld Colorado			
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> CADE 21		<b>TYPE OF JOB</b> Long String			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Cement Plug, Rubber, Bottom 7 in	Float Shoe 7 - 8rd						
	Float Collar, Auto Fill, 7 - 8rd						
	Centralizer, with Pins, 7 in						

PHYSICAL SLURRY PROPERTIES									
MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
Fresh Water	0	0	8.34	0	0	00:00	20		
Mud Clean I	0	0	8.34	0	0	00:00	20		
Fresh Water	0	0	8.34	0	0	00:00	20		
(35:65) Poz:G+LW6+.1%R3+1%FL25+.5%SMS+5%C	C10-009-12	346	10.5	2.64	8.86	06:19	162.50	73.00	
Fresh Water	0	0	8.34	0	0	00:00	229.5		
(35:65) Poz:G+LW6+1%FL25+.5%SMS+20%SS+5%C	C10-009-12	108	10.5	3.12	10.49	04:36	59.99	26.98	
<b>Available Mix Water</b> 600 Bbl.		<b>Available Displ. Fluid</b> 350 Bbl.		<b>TOTAL</b>		512.00		99.98	

HOLE TBG-CSG-D.P.										COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75	40	6244	6.184	7	29	CSG	6226	5911	N-80	6226	6178	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	1888	1888	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	
229	BBLs	Fresh Water	8.34	257	0	0	0	0	6528	3000	Rig tank

### Circulation Prior to Job

Circulated Well: Rig ☒ BJ ☐     
Circulation Time: 1      Circulation Rate: 7 BPM  
Mud Density In: 9.7 LBS/GAL      Mud Density Out: 9.7 LBS/GAL     
PV & YP Mud In: 0      PV & YP Mud Out: 0  
Gas Present: NO ☐ YES ☒      Units: 0     
Solids Present at End of Circulation: NO ☒ YES ☐

### Displacement And Mud Removal

Displaced By: Rig ☐ BJ ☒     
Amount Bled Back After Job: 1.75 BBLs  
Returns During Job: ☐ NONE ☐ PARTIAL ☒ FULL     
Method Used to Verify Returns: Visually  
Cement Returns at Surface: ☒ YES ☐ NO     
Were Returns Planned at Surface: ☐ NO ☒ YES  
Pipe Movement: ☐ ROTATION ☐ RECIPROCATION ☒ NONE ☐ UNABLE DUE TO STUCK PIPE  
Centralizers: ☐ NO ☒ YES     
Quantity: 25      Type: ☐ BOW ☐ RIGID  
Job Pumped Through: ☐ CHOKE MANIFOLD ☐ SQUEEZE MANIFOLD ☒ MANIFOLD ☐ NO MANIFOLD

### Plugs

Number of Attempts by BJ: 0      Competition: 0     
Wiper Balls Used: ☒ NO ☐ YES      Quantity:  
Plug Catcher Used: ☒ NO ☐ YES     
Parabow Used: ☒ NO ☐ YES  
Was There a Bottom: ☒ NO ☐ YES     
Top of Plug: 0 FT      Bottom of Plug: 0 FT

### Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE ☐      SHOE SQUEEZE ☐      TOP OF LINER SQUEEZE ☐     
PLANNED ☐      UNPLANNED ☐  
Liner Packer: ☒ NO ☐ YES     
Bond Log: ☒ NO ☐ YES      PSI Applied: 0      Fluid Weight: 0 LBS/GAL

### Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 1514 PSI      With 9.7 LBS/GAL Mud     
Time Held: 00 Hours 15 Minutes



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## 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	

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** 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 4860 PSI			
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>			
22:15	0	0	0	0	N/A	Yard call			
00:20	0	0	0	0	N/A	Leave yard			
02:40	0	0	0	0	N/A	Arrive on location 118 miles Rig running casing			
07:05	0	0	0	0	N/A	Spot trucks			
07:10	0	0	0	0	N/A	Rig up safety meeting			
08:30	0	0	0	0	N/A	Pre job safety meeting			
08:50	4860	0	0	0	H2O	Pressure test pumps and lines			
08:53	410	0	4.8	20	H2O	Fresh water preflush			
08:57	347	0	4.8	20	MUDCLEA	Mud clean I			
09:01	424	0	4.8	20	H2O	Fresh water spacer			
09:07	500	0	4.8	182	CMT	Batch up and pump 346 sks of Poz + G + 0.06 lbs/sack Static Free + 0.1% R-3 + 46.46% LW6 + 1% FL-25 + 0.5% SMS + 5% CSE-2 10.5ppg 2.64yield 8.86gps			
09:51	331	0	4.8	80	CMT	Batch up and pump 108 sks of Poz + G + 0.06 lbs/sack Static Free + 54.44% LW6 + 1% FL-25 + 0.5% SMS + 5% CSE-2 + 20% Silica Sand 10.5ppg 3.12yield 10.49gps			
10:09	0	0	0	0	N/A	Drop plug			
10:16	1069	0	7.2	180	MUD	Displacement			
10:45	1056	0	4.8	30	MUD	Displacement rate change			
10:51	947	0	2.4	19	MUD	Displacement rate change			
10:59	987	0	2.4	229	MUD	Bump plug			
10:59	1454	0	0	0	N/A	Plug down @ 229 bbl's			
11:02	0	0	0	0	N/A	Check floats 1.75 bbl's back			
11:07	1514	0	0	0	N/A	Casing test			
11:23	0	0	0	0	N/A	Bleed pressure off			
11:25	0	0	0	0	N/A	Rig down safety meeting			
BUMPED PLUG		PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:	
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1454	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	29	551	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N			