

# CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING PETROLEUM CORP			<b>DATE</b> 05-OCT-13		<b>F.R. #</b> 10011018097		<b>SERV. SUPV.</b> BARLEN M JOYNER							
<b>LEASE &amp; WELL NAME</b> RAZOR #271-3414B - API 05123379010000			<b>LOCATION</b> 27-10N-58W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado								
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> Cade 23			<b>TYPE OF JOB</b> Surface								
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>			<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>		
Cement Plug, Rubber, Top 9-5/8 in		Float Collar, Al Flap, 9-5/8 - 8rd			NONE		0	0	NONE		0	0		
		Float Shoe 9-5/8 - 8rd												
		Cement Basket, Slip On, 9-5/8 in												
		Centralizer, with Pins, 9-5/8 in												
<b>MATERIALS FURNISHED BY BJ</b>			<b>LAB REPORT NO.</b>			<b>PHYSICAL SLURRY PROPERTIES</b>								
						<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>		
Fresh water			0			0	8.34	0	0	00:00	20			
Type III + Adds			0			688	14.5	1.40	6.81	01:30	171.76	111.51		
Fresh water			0			0	8.34	0	0	00:00	121.2			
Fresh Water + Dye			0			0	8.34	0	0	00:00	10			
Available Mix Water <u>500</u> Bbl.			Available Displ. Fluid <u>350</u> Bbl.			<b>TOTAL</b>			<u>322.96</u>	<u>111.51</u>				
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>		
13.5	0	1625	8.921	9.625	36	CSG	1614	1614	J-55	1614	1568	0		
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>			<b>TOP CONN</b>		<b>WELL FLUID</b>			
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
						NO LINER		0			9.625	8RD	WATER BASED	8.7
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>			
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>				
121.2	BBLS	Fresh water	8.34	517	0	0	0	0	2890	1000	RIG TANK			
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 1				Circulation Rate: 5 BPM						
Mud Density In: 8.7 LBS/GAL Mud Density Out: 8.7 LBS/GAL				PV & YP Mud In: 0				PV & YP Mud Out: 0						
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"/>						
<b>Displacement And Mud Removal</b>														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>				Amount Bled Back After Job: 1 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 checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 12				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														
<b>Plugs</b>														
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						
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>														
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				
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>														
Casing Test Pressure: 1537 PSI				With 8.34 LBS/GAL Mud				Time Held: 00 Hours 15 Minutes						
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE</b>														

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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

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	3313 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/>	BJ <input type="checkbox"/>
00:30	0	0	0	0	N/A	YARD CALL	
04:07	0	0	0	0	N/A	ARRIVE ON LOCATION (108 MILES) STILL DRILLING WELL	
05:50	0	0	0	0	N/A	PULLING DRILL PIPE	
08:15	0	0	0	0	N/A	RIGGING UP CASERS	
09:00	0	0	0	0	N/A	STARTED RUNNING CASING	
11:25	0	0	0	0	N/A	SPOT TRUCKS	
11:30	0	0	0	0	N/A	PRE-RIG UP SAFETY MEETING	
12:00	0	0	0	0	N/A	RIGGING DOWN CASERS	
12:35	0	0	0	0	N/A	RIG UP HEAD AND MANIFOLD TO CIRCULATE WELL	
13:00	0	0	0	0	N/A	SAFETY MEETING	
13:15	3313	0	0	0	WATER	PRESSURE TEST	
13:23	163	0	5.5	20	WATER	FRESH WATER SPACER	
13:28	157	0	5.5	10	WATER	FRESH WATER + DYE	
13:30	265	0	4.7	167	CMT	BATCH UP, WEIGH AND PUMP 688 SX OF TYPE III + 0.08 LBS/SACK STATIC FREE + 1% CACL2 + 0.25 LBS/SACK CELLO FLAKE @ 14.5 PPG	
14:12	0	0	0	0	N/A	RELEASE PLUG	
14:15	170	0	6.5	111	WATER	START DISPLACEMENT	
14:35	576	0	2.4	10	WATER	DROP RATE	
14:39	671	0	2.4	121	WATER	BUMP PLUG	
14:39	971	0	0	0	N/A	PLUG DOWN @ 121 BBLs	
14:43	1537	0	0	0	WATER	START CASING TEST	
14:58	1539	0	0	0	N/A	END CASING TEST	
15:00	0	0	0	0	N/A	PRE-RIG DOWN SAFETY MEETING	
18:00	0	0	0	0	N/A	TIME OFF LOCATION	
<b>BUMPED PLUG</b>	<b>PSI TO BUMP PLUG</b>	<b>TEST FLOAT EQUIP.</b>	<b>BBL.CMT RETURNS/ REVERSED</b>	<b>TOTAL BBL. PUMPED</b>	<b>PSI LEFT ON CSG</b>	<b>SPOT TOP OUT CEMENT</b>	<b>Service Supervisor Signature:</b>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	671	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	25	318	0	Y <input checked="" type="checkbox"/> N	