

## CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING OIL & GAS CORP XM		<b>DATE</b> 30-MAY-15	<b>F.R. #</b> 10011158373		<b>SERV. SUPV.</b> ERIC S DEWIT								
<b>LEASE &amp; WELL NAME</b> RAZOR #22D-2703A - API 05123385080000		<b>LOCATION</b> 22-10N-58W		<b>COUNTY-PARISH-BLOCK</b> Weld Colorado									
<b>DISTRICT</b> Brighton		<b>DRILLING CONTRACTOR RIG #</b> UNIT 406		<b>TYPE OF JOB</b> Intermediate									
<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 MD TVD</b>							
7" Top Cem Plug, Nitrile cvr, Phen	Centralizer, with Pins, 7 in												
	Float Collar, Auto Fill, 7 - 8rd												
	Float Shoe 7 - 8rd												
<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>				
Ultra Flush II Spacer			0	10.5	6.38	43.9		20	18.40				
20:80 (POZ:TYPE III) + Addis	C05-080-15		366	12.5	2.21	12.06	03:50	144.00	105.10				
Drilling Fluid			0	8.34	0	0		225.79					
50:50 (POZ:CLASS G) + Addis	C05-080-15		269	13.8	1.47	6.79	03:27	70.39	43.52				
Fresh Water			0	8.34	0	0		10					
<b>Available Mix Water</b> 400 Bbl.		<b>Available Displ. Fluid</b> 300 Bbl.		<b>TOTAL</b>		470.18		167.01					
<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>	
8.75	35	6130	6.184	7	29	CSG	6117	5700	P-110	6117	6078		
<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>
8.9	9.63	36	CSG	1600	1600	No Packer	0	0	0	7	8RND	WATER BASED	10
<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>			
225.8	BBLS	Drilling Fluid	8.34	959	0	0	0	0	8976	4000	Upright 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: 10 LBS/GAL Mud Density Out: 10 LBS/GAL						PV & YP Mud In: 17			PV & YP Mud Out: 17				
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: 1.5 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: 45		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: 1529 PSI With 10 LBS/GAL Mud						Time Held: 00 Hours 20 Minutes							
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None</b>													

# 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 5286 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
14:46	0	0	0	0	N/A	Leave the yard
17:10	0	0	0	0	N/A	Arrive on location (100 miles) Rig is running casing
21:02	0	0	0	0	N/A	Spot pump on location
21:20	0	0	0	0	N/A	Pre rig up safety meeting
22:45	0	0	0	0	N/A	Pre job safety meeting
23:05	305	0	1	2	H2O	Load pumps and lines
23:08	5286	0	0	0	H2O	Pressure test pumps and lines
23:16	356	0	3	20	BAR	Batch, and pump weighted spacer @10.5 ppg
23:28	685	0	5.3	20	H2O	Fresh water spacer
23:37	71	0	0	0	CMT	Batch, and weigh lead slurry @12.5 ppg
23:41	785	0	5.2	143	CMT	Pump 366 sacks of 20):80:Poz (Fly Ash):Type III Cement + 0.3% R-3 +0.2% CD-32 + 15 lbs/sack CSE-2 + 0.6% FL-57 @12.5 ppg
00:17	382	0	4.6		CMT	Batch, and pump 269 sacks of 50):50:POZ (Fly Ash):Class G Cement + 0.1% CD-32 + 0.2% ASA-301 + 0.2% SMS + 0.6% FL-66 + 10 lbs/sack CSE-2 @13.8 ppg
00:37	0	0	0	0	N/A	Shut down to wash up pump and release plug
00:45	88	0	4.4	80	MUD	Start displacement
01:03	1520	0	2.4		MUD	Drop rate
02:17	2076	0	0	0	MUD	Bump plug (Approx. 60 bbls of cement to surface)
02:22	0	0	0	0	MUD	Check floats, floats held (1.5 bbls back)
02:28	1529	0	.9	1.5	MUD	Start casing test
02:48	0	0	0	0	MUD	Bleed off pressure end casing test (Ending pressure was 1614 psi)
02:52	0	0	0	0	N/A	Pre rig down safety meetig
04:15	0	0	0	0	N/A	Leave location
	0	0	0	0	N/A	Arrive back at the yard

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	1520	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	60	482.2	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

