

# CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING OIL & GAS CORP XM			<b>DATE</b> 20-OCT-13		<b>F.R. #</b> 10011021301		<b>SERV. SUPV.</b> COLE W MARRIOTT			
<b>LEASE &amp; WELL NAME</b> RAZOR #21A-2815A - API 05123378470000			<b>LOCATION</b> 21-10N-58W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado			
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> CADE 21				<b>TYPE OF JOB</b> Surface			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
Cement Plug, Rubber, Top 9-5/8 in	Float Collar, Dif Fill, 9-5/8 - 8rd						
	Float Shoe 9-5/8 - 8rd						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh water	0	0	8.34	0	0	00:00	15	
Type III + Adds	0	667	14.5	1.40	6.81	01:30	166.52	108.11
Fresh water	0	0	8.34	0	0	00:00	112.87	
<b>Available Mix Water</b> 600 <b>Bbl.</b>		<b>Available Displ. Fluid</b> 200 <b>Bbl.</b>		<b>TOTAL</b>		294.39		108.11

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
13.5	25	1660	8.921	9.625	36	CSG	1647	1647	J-55	1647	1590	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.
						No Packer	0			9.625	8RD	WATER BASED MU	8.6

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	
122.9	BBLs	Fresh water	8.34	486	0	0	0	0	2816	1500	Rig

**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 3011 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
06:00	0	0	0	0	N/A	Arrive on location 111 miles	
06:20	0	0	0	0	N/A	Spot trucks rig running casing	
06:30	0	0	0	0	N/A	Pre rig up safety meeting	
07:50	0	0	0	0	N/A	Pre job safety meeting	
08:15	3011	0	0	0	H2O	Pressure test	
08:18	147	0	5	15	H2O	Fresh water	
08:21	205	0	4	163	CMT	Batch up weigh and pump 667 sxs of 14.5 ppg cement	
09:06	0	0	0	0	N/A	Drop plug	
09:09	606	0	6	105	H2O	Displacement	
09:30	674	0	3.6	18	H2O	Bump plug	
09:35	950	0	0	0	N/A	Plug down	
09:37	0	0	0	0	N/A	Check floats	

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	674	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2	301	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	