

# CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING OIL & GAS CORP XN		<b>DATE</b> 17-SEP-13		<b>F.R. #</b> 10011014031		<b>SERV. SUPV.</b> COLE W MARRIOTT	
<b>LEASE &amp; WELL NAME</b> RAZOR #27K-3408B - API 05123376970000		<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> Liner			

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	Float Collar, Auto Fill, 4-1/2 - 8rd	Liner Packer	4865	4865	Liner	4865	4865
	Float Shoe 4-1/2 - 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
(50:50:2) + Adds	0	497	14.5	1.44	6.20		127.37	73.37
Fresh Water	0	0	8.34	0	0		168.65	
Ultraflush II	0	0	12	0	0		20	
Fresh Water	0	0	8.34	0	0		10	
Available Mix Water 900 Bbl.		Available Displ. Fluid 400 Bbl.		TOTAL		326.02		73.37

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6	15	12390	4	4.5	11.6	CSG	12380	5708	N-80	12380	12340	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.
6.3	7	26		6053	6053	Cement Liner	4865	0	0	4	8RD	WATER BASED ML	10

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	
147.3	BBLS	Fresh Water	8.34	376	0	0	0	0	6224	4000	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	5956 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
12:45	0	0	0	0	N/A	Arrive on location 112 miles	
13:30	0	0	0	0	N/A	Spot trucks rig running drill pipe	
13:40	0	0	0	0	N/A	Pre rig up safety meeting	
13:40	0	0	0	0	N/A	Pre job safety meeting	
18:47	5956	0	0	0	H2O	Pressure test	
18:55	1005	0	4.1	10	H2O	Fresh water	
19:04	565	0	2.8	20	H2O	Ultraflush II spacer @ 12 ppg	
19:13	476	0	4.1	126	CMT	Batch up weigh and pump 497 sxs of cement	
19:58	0	0	0	0	N/A	Drop dart plug/ wash up pump	
20:03	1103	0	5	125	H2O	Displacement	
20:34	1701	0	4	10	H2O	Slow rate	
20:36	1761	0	3	12	H2O	Bump plug	
20:39	0	0	0	0	N/A	Check floats	
20:41	4705	0	.7	2.5	H2O	Could not rupture dart under pressure as designed to provide a wet shoe	
20:52	4810	0	.7	2.5	H2O	Tried one more time to rupture dart did not rupture, so we could not provide a wet shoe	
21:02	3016	0	1.3	2	H2O	Backside test	
21:08	1680	0	7.2	140	H2O	Rolled hole the long way to remove any excess cement and all mud in annular space	

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	PIPE	ANNULUS				TEST LINES 5956 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
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	1761	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	3	450	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	