

CEMENT JOB REPORT



CUSTOMER WHITING PETROLEUM CORP		DATE 12-AUG-13	F.R. # 10011007195	SERV. SUPV. JOHN R WUDARCZYK	
LEASE & WELL NAME RAZOR #27K-3405A - API 05123377480000		LOCATION 27-10N-58W		COUNTY-PARISH-BLOCK Weld Colorado	
DISTRICT Brighton		DRILLING CONTRACTOR RIG # CADE 23		TYPE OF JOB Intermediate	

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

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Ultra Flush II Spacer		0	10.5	0	0	00:00	20	
(35:65) Poz:G+LW6+.1%R3+1.2%FL25+.5%SMS+5%C		325	10.5	2.64	8.86		152.79	68.60
Fresh Water		0	8.34	0	0	00:00	221.5	
(35:65) Poz:G+LW6+1.2%FL25+.5%SMS+20%SS+5%C		107	10.5	3.12	10.49		59.48	26.74
Available Mix Water 500 Bbl.	Available Displ. Fluid 500 Bbl.	TOTAL				453.77		95.33

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75	35	6024	6.184	7	29	CSG	6024	5667	N-80	6010	5963	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	1500	1500	NO PACKER		0	0	0	7	8RND	WATER BASED	9.8

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	RATED	Operator	RATED	Operator	
221.5	BBLs	Fresh Water	8.34	668	0	0	0	0	6528	3000					RIG

Circulation Prior to Job

Circulated Well: Rig ☒ BJ ☐ Circulation Time: 2 Circulation Rate: 6 BPM

Mud Density In: 9.8 LBS/GAL Mud Density Out: 9.8 LBS/GAL PV & YP Mud In: 11 PV & YP Mud Out: 11

Gas Present: NO ☒ YES ☐ Units: Solids Present at End of Circulation: NO ☒ YES ☐

Displacement And Mud Removal

Displaced By: Rig ☐ BJ ☒ Amount Bled Back After Job: 1.5 BBLs

Returns During Job: ☐ NONE ☐ PARTIAL ☒ FULL Method Used to Verify Returns: VISUAL

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: 29 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: 1500 PSI With 8.34 LBS/GAL Mud Time Held: 00 Hours 15 Minutes

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE

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Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT
 Number of Times Tests Conducted: 0
 Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL
 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)
 DURING TAIL SLURRY, BALLED PUMP OFF (PACKED OFF), LOST RECIRC A COUPLE OF TIMES WAS SHUT DOWN ON AND OFF GETTING CEMENT CLEARED FROM PRODUCT LINE. CONTINUED TO PUMP CEMENT ONCE BLOCKAGE WAS CLEARED GOT 55 BBLs AWAY ON TAIL SLURRY, DISPLACED AND BUMPED PLUG.

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 4122 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>
03:35	0	0	0	0	0	ARRIVE ON LOCATION (104 MILES) RIG RUNNING CASING
05:50	0	0	0	0	0	PRE RIG UP SAFETY MEETING
07:06	0	0	0	0	0	PRE JOB MEETING
07:28	26	0	.4	1	H2O	LOAD LINES
07:30	4122	0	0	0	H2O	PRESSURE TEST PUMPS AND LINES
07:33	257	0	4.8	10	H2O	FRESH WATER
07:40	204	0	3	15	H2O	WEIGHTED SPACER
07:51	280	0	4.4	151	LEAD	BATCH UP AND PUMP 325 SKS POZ/G+.06#/SACK STATIC FREE+.1%R-3+46.46%LW-6+1.2%FL-25+.5%SMS+5% CSE-2 @ 10.5#
08:30	102	0	4	55	TAIL	MIX AND PUMP 107 SKS POZ/G+.06#/SACK STATIC FREE+54.44%LW-6+1.2%FL-25+.5%SMS+20% SILICA SAND+5% CSE-2 @10.5#
08:30	0	0	0	0	0	DURING ABOVE OPERATION HAD TO CLEAR PRODUCT LINE OUT ON A COUPLE OF OCCASIONS, BALLED OFF PUMP, HAD TO CLEAR BLOCKAGES, DENSITY WAS BETWEEN 10PPG AND 10.4PPG, CEMENT IN TUB APPEARED MUCH HEAVIER, CONTINUED PUMPING JOB
09:18	0	0	0	0	H2O	DROP PLUG
09:19	1705	0	7.3	170	H2O	START DISPLACEMENT
09:44	1557	0	4.9	40	H2O	SLOW RATE
09:53	1428	0	3.5	8	H2O	SLOW RATE
09:55	2036	0	0	0	H2O	BUMP PLUG @ 218 BBLs
09:57	0	0	0	0	H2O	CHECK FLOATS 1.5 BBLs BACK
09:58	1502	0	1.8	1.5	H2O	START CASING TEST
10:15	0	0	0	0	H2O	BLEED OFF CASING TEST
10:20	0	0	0	0	0	POST JOB 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	2036	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	43	449	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	