

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.	PHYSICAL SLURRY PROPERTIES						
		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	RIG
221.5	BBLs	Fresh Water	8.34	668	0	0	0	0	6528	3000	RIG

Circulation Prior to Job			
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	Circulation Time: 2		
Mud Density In: 9.8 LBS/GAL	Mud Density Out: 9.8 LBS/GAL	Circulation Rate: 6 BPM	
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	Units:	PV & YP Mud In: 11	PV & YP Mud Out: 11
Solids Present at End of Circulation:		NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>

Displacement And Mud Removal			
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: 29	Type: <input checked="" 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			

Plugs			
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

Squeezes (Update Original Treatment Report for Primary Job)			
BLOCK SQUEEZE <input type="checkbox"/>	SHOE SQUEEZE <input type="checkbox"/>	TOP OF LINER SQUEEZE <input type="checkbox"/>	PLANNED <input type="checkbox"/> UNPLANNED <input checked="" 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

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

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) 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	EXPLANATION
	PIPE	ANNULUS				
						SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> 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 type="checkbox"/> Y <input type="checkbox"/> N	2036	<input type="checkbox"/> Y <input type="checkbox"/> N	43	449	0	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	