CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER	DATE	F.R. #	SERV. SUPV.
WHITING PETROLEUM CORP	13-SEP-12	1001934661	RYAN R STEVENS

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
TWOMILE #15-1033H - API 05123348770000	15-11N-57W	Weld Colorado
DISTRICT	**DRILLING CONTRACTOR RIG #**	**TYPE OF JOB**
Brighton	CADE 21	Long String

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen	Float Shoe/Poppet Valve 7 - 8rd	None	0	0	None	0	0
	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 FT3	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh Water	N/A	0	8.34	0	0	00:00	20	
Mud Clean I	N/A	0	8.34	0	0	00:00	20	
Fresh Water	N/A	0	8.34	0	0	00:00	20	
(35:65) Poz:G+LW6+.1%R3+1%FL25+.5%SMS+5%CSI	C0903612	335	10.5	2.64	8.86	06:19	157.34	70.68
Fresh Water	N/A	0	8.34	0	0	00:00	224.38	
(35:65) Poz:G+LW6+1%FL25+.5%SMS+20%SS+5%CS	C0903612	99	10.5	3.12	10.49	04:36	54.99	24.73
						TOTAL	496.71	95.41

Available Mix Water 400 Bbl. Available Displ. Fluid 400 Bbl.

HOLE SIZE	% EXCESS	DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS SHOE	FLOAT	STAGE
8.75	0	6095	6.184	7	29	CSG	6085	6085	P-110	6085	6040	0

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
8.9	9.63	36	CSG	1500	1500	No Liner	0	0	0	7	8RD	WATER BASED	9.7

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
224.4	BBLS	Fresh Water	8.34	676	0	0	0	0	8976	3000	Rig tank

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 1.5 | Circulation Rate: 6 BPM

Mud Density In: 9.7 LBS/GAL | Mud Density Out: 9.7 LBS/GAL | PV & YP Mud In: 0 | PV & YP Mud Out: 0

Gas Present: NO [X] YES [ ] Units: | Solids Present at End of Circulation: NO [X] YES [ ]

Displacement And Mud Removal

Displaced By: Rig [ ] BJ [ ] | Amount Bled Back After Job: 3 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL | Method Used to Verify Returns: Visual

Cement Returns at Surface: [ ] YES [X] NO | Were Returns Planned at Surface: [X] NO [ ] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [ ] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [ ] NO [X] YES | Quantity: 15 | Type: [X] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [ ] MANIFOLD [ ] NO MANIFOLD

Plugs

Number of Attempts by BJ: 0 | Competition: 0 | Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES | Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] 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: [X] NO [ ] YES | Bond Log: [X] NO [ ] YES | PSI Applied: 0 | Fluid Weight: 0 LBS/GAL

Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 1549 PSI With 8.34 LBS/GAL Mud | Time Held: 00 Hours 30 Minutes

CEMENT JOB REPORT

BAKER HUGHES

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

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

PRESSURE/RATE DETAIL						EXPLANATION
TIME HR:MIN.	PRESSURE - PSI PIPE	PRESSURE - PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW [X] CO. REP. [X] TEST LINES 4040 PSI CIRCULATING WELL - RIG [X] BJ [ ]
09:30	0	0	0	0	N/A	Yard call
14:30	0	0	0	0	N/A	Pre convoy meeting
14:46	0	0	0	0	N/A	Time left district
17:51	0	0	0	0	N/A	Arrived on location (126 Miles) Rig rnning casing. had to wait on a blk truck to come out
19:55	0	0	0	0	N/A	Spot trucks
20:00	0	0	0	0	N/A	Pre rig up safety meeting
21:00	0	0	0	0	N/A	Pre job safety meeting
21:14	4040	0	0	0	WATER	Pressure test pumps and lines
21:20	483	0	6.5	20	WATER	Fresh water spacer
21:21	425	0	6.5	20	WATER	Mud clean I spacer
21:26	605	0	6.5	20	WATER	Fresh water spacer
21:30	671	0	5.8	170	CEMENT	Batch up, weigh and pump 335 SXS of (35:65) POZ (Fly ash) : Class G Cement + 0.06 Lbs/sack Static free + 0.1% R-3 + 46.46% LW-6 +1% FL-25 + 0.5% SMS + 5% CSE-2 @ 10.5 PPG
22:10	364	0	5.8	60	CEMENT	Batch up weigh and pump 99 SXS of (35:65) Poz (Fly ash) : Class G Cement + 0.06 Lbs/sack Static free + 54.44% LW-6 + 1% FL-25 + 0.5% SMS + 20% Silca Sand 100 Mesh Sacked + 5% CSE-2 @ 10.5 PPG
22:25	0	0	0	0	N/A	Release plug
22:32	649	0	6.5	90	WATER	Dispacemnt
22:46	943	0	4.1	100	WATER	Drop rate
23:10	1187	0	3.8	34	WATER	Drop rate
23:20	2174	0	3.8	224	WATER	Bump plug
23:24	0	0	0	0	N/A	Check floats
23:29	1549	0	0	0	WATER	Casing test
00:05	0	0	0	0	N/A	Pre rig down safety meeting
00:40	0	0	0	0	N/A	Time off location

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:
[Y] N	2174	[Y] N	14	514	0	Y [N]	