CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER	DATE	F.R. #	SERV. SUPV.
WHITING PETROLEUM CORP	11-FEB-13	1001965045	COLE W MARRIOTT

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
WILDHORSE #18-1844H - API 05123361270000	18-9N-59W	Weld Colorado
DISTRICT	**DRILLING CONTRACTOR RIG #**	**TYPE OF JOB**
Brighton	CADE 21	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, Auto Fill, 7 - 8rd						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT3	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Ultra Flush II Spacer	0	0	10.5	0	0	00:00	40	
(35:65) Poz:G+LW6+.1%R3+1.2%FL25+.5%SMS+5%	0	358	10.5	2.64	8.86	00:00	168.30	75.56
Fresh Water	0	0	8.34	0	0	00:00	242.44	
(35:65) Poz:G+LW6+1.2%FL25+.5%SMS+20%SS+5%	0	98	10.5	3.12	10.49	00:00	54.48	24.49
						TOTAL	505.22	100.05

Available Mix Water 900 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	6630	6.184	7	29	CSG	6619	6269	P-110	6619	6577	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	1800	1800	No Packer	0	0	0	7	8RD	WATER BASED	9.5

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
245.9	BBLS	Fresh Water	8.34	341	0	0	0	0	7968	3000	Rig

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 1 | Circulation Rate: 5 BPM

Mud Density In: 9.5 LBS/GAL Mud Density Out: 9.5 LBS/GAL | PV & YP Mud In: 16 | PV & YP Mud Out: 16

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

Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] | Amount Bled Back After Job: 2.2 BBLS

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

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

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

Centralizers: [ ] NO [X] YES | Quantity: 20 | Type: [ ] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [X] 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: 1497 PSI With 8.34 LBS/GAL Mud | Time Held: 00 Hours 30 Minutes

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

PRESSURE/RATE DETAIL	EXPLANATION

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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

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 5290 PSI CIRCULATING WELL - RIG [X] BJ [ ]
15:45	0	0	0	0	N/A	Arrive on location 88 miles
16:45	0	0	0	0	N/A	Spot trucks rig just lands casing
16:55	0	0	0	0	N/A	Pre rig up safety meeting
17:50	0	0	0	0	N/A	Pre job safety meeting
18:06	5290	0	0	0	H20	Pressure test
18:12	608	0	6.3	20	H20	Ultra flush II weighed spacer @ 10.5 PPG
18:17	564	0	6.3	20	H20	Ultra flush II spacer 8.5 PPG as per company man
18:23	326	0	5	167	CMT	Batch up weigh and pump 358 sxs of :35):65: Poz (Fly Ash) Class G Cement + 0.06 lbs/sack Static Free + 0.1% bwoc R-3 + 46.46% bwoc LW-6 + 1.2% bwoc FL-25 + 0.5% bwoc Sodium Metasilicate + 5% bwoc CSE-2
19:04	259	0	5	98	CMT	Batch up weigh and pump 98 sxs of :35):65: Poz (Fly Ash) Class G Cement + 54.44% bwoc LW-6 + 1.2% bwoc FL-25 + 0.5% bwoc Sodium Metasilicate + 20% bwoc Silica Sand, 100 mesh, Sacked + 5% bwoc CSE-2
19:19	0	0	0	0	N/A	Drop plug
19:22	1734	0	7.2	225	H20	Displacement
19:55	1519	0	6	10	H20	Slow rate
19:56	1335	0	3.6	10	H20	Bump plug
19:56	1903	0	0	0	N/A	Plug down
20:04	1497	0	1	2	H20	Casing test

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	1335	[Y] N	7	552	0	[Y] N	

X Chris Blodgett