CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER: WHITING PETROLEUM CORP	DATE: 09-SEP-14	F.R. #: 10011097411	SERV. SUPV.: Justin Brown
LEASE & WELL NAME: RAZOR #21C-0905 - API 05123395250000	LOCATION: 21-10N-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
7" Top Cem Plug, Nitrile cvr, Phen	Centralizer, with Fins, 7 in						
	Cement Basket, Slip On, 7 in						
	Float Collar, Al Flap, 7 - 8rd						
	Float Shoe 7 - 8rd						

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	NA	0	10.5	0	0	00:10	20	
(35:65) + LW-6 + Adds	NA	320	10.5	2.64	8.85	00:40	150.43	67.46
Water-Based Mud	NA	0	10.5	0	0	00:38	220	
(35:65) + LW-6 + Adds	NA	96	10.5	3.12	10.48	00:10	53.37	23.96
						TOTAL	443.80	91.42

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		6230	6.184	7	29	CSG	6230	5921	N-80	6125	6082	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	1700	1700	No Packer	0	0	0	7	8 RND	WATER BASED	10.5

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
220	BBLS	Water-Based Mud	10.5	301	0	0	0	0	6528	2000	Rig

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ]
Circulation Time: 1
Circulation Rate: 2 BPM
Mud Density In: 10.5 LBS/G
Mud Density Out: 10.5 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 [X]
Amount Bled Back After Job: .75 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: 40 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: 1523 PSI With 10.5 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 | 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. [ ] TEST LINES 4188 PSI CIRCULATING WELL - RIG [X] BJ [ ]
01:30	0	0	0	0	NA	Arrive Location (RTS 0200) Running Casing
05:10	0	0	0	0	NA	Spot Trucks
05:37	0	0	0	0	NA	Pre-Rig up safety meeting
06:10	0	0	0	0	NA	Pre-Job safety meeting
06:48	27	0	1.2	1.5	H2O	Load lines with 1.5 BBLS
06:50	4188	0	0	0	H2O	Pressure Test to 4000 PSI
06:53	76	0	1.2	0	H2O	Pump freash water spacer
06:55	305	0	4.9	12.7	H2O	Pump Rate Change
06:59	254	0	3.6	18.5	SPACER	Batch up and Pump Ultra Flush Spacer 10.5#
07:09	0	0	0	0	CMT	Batch Lead Slurry (320 sacks 35:65 POZ (Fly Ash): Class G Cement + .06% lbs/sack Static Free + .1% bwoc R-3 + 46.46% bwoc LW-6 + 1.2% bwoc FL-25 + .5% bwoc Sodium Metasilicate + .01 gps FP-13L + 5% bwoc CSE-2 + 84.9% Fresh Water)
07:20	356	0	4.2	0	CMT	Pump Lead Slurry (320 sacks 35:65 POZ (Fly Ash): Class G Cement + .06% lbs/sack Static Free + .1% bwoc R-3 + 46.46% bwoc LW-6 + 1.2% bwoc FL-25 + .5% bwoc Sodium Metasilicate + .01 gps FP-13L + 5% bwoc CSE-2 + 84.9% Fresh Water)
07:31	584	0	5.9	155	CMT	Pump Rate Change
07:50	559	0	5.9	59	CMT	Batch and Pump Tail Slurry (96 sacks 35:65 POZ (Fly Ash): Class G Cement + .06% lbs/sack Static Free + 54.44% bwoc LW-6 + 1.2% bwoc FL-25 + .5% bwoc Sodium Metasilicate + 20% Silica Sand, 100 Mesh, Sacked + .01 gps FP-13L + 5% bwoc CSE-2 + 100.5%% Fresh Water)
08:00	0	0	0	0	NA	Drop Plug /Wash up
08:08	589	0	6	0	MUD	Displacement
08:08	482	0	4.8	0	MUD	Pump Rate Change
08:41	330	0	3.3	0	MUD	Pump Rate Change
08:41	1220	0	3.3	220	MUD	Bumped Plug
08:46	0	0	0	0	MUD	Check Floats .75 bbls back
08:52	1523	0	0	0	H2O	Casing Test Begin
09:07	0	0	0	0	NA	Casing Test End
09:15	0	0	0	0	NA	Pre-Rig down safety meeting
09:17	0	0	0	0	NA	Rig Down

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	1220	[Y] N	18	462.4	0	Y [N]	