CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER	DATE	F.R. #	SERV. SUPV.
WHITING OIL & GAS CORP XM	06-FEB-14	10011044267	FELIPE LANDA

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
RAZOR #11E-1403A - API 05123385350000	11-10N-58W	Weld Colorado
DISTRICT	**DRILLING CONTRACTOR RIG #**	**TYPE OF JOB**
Brighton	Cade 23	Liner

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	Centralizer, with Pins, 4-1/2 in				Liner	5149	
	Float Collar, Auto Fill, 4-1/2 - 8rd						
	Float Shoe 4-1/2 - 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
50:50 + Adds		661	14.5	1.21	5.26		142.88	82.86
Fresh Water			8.34				160.4	
Ultraflush II			12				20	
Fresh Water			8.34				10	
						TOTAL	333.28	82.86

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
6	15	13390	4	4.5	11.6	CSG	13385	7278		13385	13291	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.
6.3	7	26	CSG	6321	6013	LINER	5149	0	0	4	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
160.4	BBLS	Fresh Water	8.34	653	0	0	0	0	7780	6224	TANK

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 1 | Circulation Rate: 3 BPM

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

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: 1.5 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 [ ] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [ ] NO [X] YES | Quantity: 87 | Type: [ ] BOW [ ] RIGID

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

Plugs

Number of Attempts by BJ: 0 Competition: | 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: 0 PSI With 0 LBS/GAL Mud | Time Held: 00 Hours 00 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

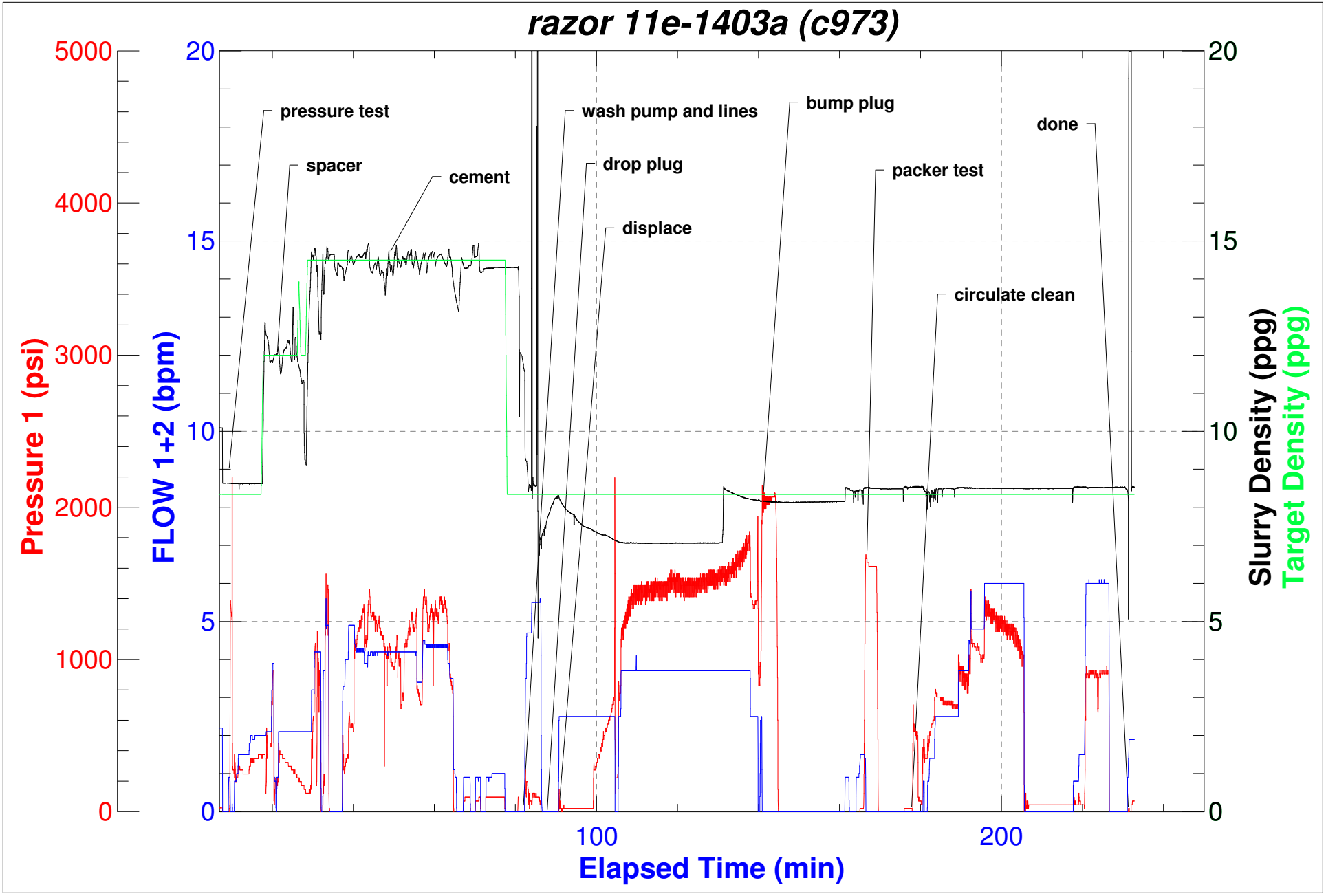
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
NONE

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		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW [X] CO. REP. [X]
	PIPE	ANNULUS				TEST LINES 5027 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
05:30	0	0	0	0	NA	YARD CALL
14:30	0	0	0	0	NA	ARRIVED ON LOCATION 2-5-14 (rig pulling drill pipe out)
03:00	0	0	0	0	NA	SPOT TRUCKS/ PRE RIG UP SAFETY MEETING 2-6-14
03:50	0	0	0	0	NA	SAFETY MEETING
06:25	2372	0	0	0	H2O	LOW PRESSURE TEST
06:27	5027	0	0	0	H2O	HIGH PRESSURE TEST
09:36	348	0	2	10	H2O	FRESH WATER
09:45	378	0	2	20	H2O	ULTRAFLUSH II @ 12 PPG
09:57	483	0	4.2	140	CEMENT	661 SACKS OF (50:50) POZ (FLY ASH): CLASS "G" CEMENT + 0.15% R-3 + 0.2% FL-52 +3% BENTONITE II + 0.2% BA-59 @ 14.5 PPG
10:50	0	0	0	0	NA	WASH PUMP AND LINES
10:57	0	0	0	0	NA	DROP PLUG
10:58	551	0	2.5	20	H2O	DISPLACE
11:21	2635	0	2.5	15	H2O	RATE CHANGE
11:13	1514	0	3.7	123	H2O	RATE CHANGE
11:45	1815	0	2.5	2	H2O	RATE CHANGE
11:47	2042	0	1.5	1	H2O	BUMP PLUG @ 161 bbls
11:51	0	0	0	0	H2O	BLEED OFF PRESSURE/CHECK FLOATS
11:55	0	0	0	0	NA	RIG SET PACKER
12:12	1613	0	1.5	0	H2O	PACKER PACKER TEST
12:17	1613	0	0	0	H2O	END PACKER TEST
12:28	1183	0	6	144	H2O	CIRCUALATE WELL CLEAN
13:23	0	0	0	0	NA	POST JOB RIG DOWN SAFETY MEETING JOB DONE

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]	2042	[Y] N	0	505	0	Y [N]	

Baker Hughes JobMaster Program Version 3.60

Job Number: 10011044267
Customer: whiting
Well Name: razor 11e-1403a