CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER	ANADARKO PETROLEUM COI	DATE	09-FEB-12	F.R. #	1001887376	SERV. SUPV.	CHRISTOPHER M MCKEON

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
EICHTHALER #1 - API 05123086630000	34-2N-65W	Weld Colorado

DISTRICT	DRILLING CONTRACTOR RIG #	TYPE OF JOB
Brighton	W/O	Squeeze-Hole

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD

PHYSICAL SLURRY PROPERTIES

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT$_3$	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh Water		0	8.34	0	0	00:00	25	
50:50:2+10%NaCl	C02-032-12	180	14.4	1.29	5.75	01:12	41.20	24.64
Claycare water		0	8.3	0	0	00:00	10	
Mud Clean II		0	8.3	0	0	00:00	10	

Available Mix Water	100	Bbl.	Available Displ. Fluid	100	Bbl.	TOTAL	86.20	24.64

HOLE / TBG-CSG-D.P. / COLLAR DEPTHS

SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
			4.052	4.5	10.5	CSG	6650	6650	N-80			

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.
8.1	8.63	24	CSG	850	850	Cement Retainer		6330	6710	2.375	8RD	KCL WATER	8.4

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	
24.5	BBLS	Fresh Water	8.34	0	0	3000	8960	3000	6224	3000	Transport

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ]	Circulation Time: 0	Circulation Rate: 2.5 BPM
Mud Density In: 0 LBS/GAL Mud Density Out: 0 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: .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: [X] NO [ ] YES   Quantity: Type: [ ] 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 [X] 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

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

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Problems Before Job (I.E. Running Casing, Circulating Well, ETC)	
NA	
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)	
NA	
Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)	
NA	

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NA

PRESSURE/RATE DETAIL / EXPLANATION

TIME HR:MIN.	PRESSURE - PSI PIPE	PRESSURE - PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW ☐ CO. REP. ☐
						TEST LINES 4715 PSI
						CIRCULATING WELL - RIG [X] BJ ☐
07:30	0	0	0	0	NA	Yard Call
09:30	0	0	0	0	NA	Leave district
10:00	0	0	0	0	NA	Arrive location
10:05	0	0	0	0	NA	Spot trucks
10:10	0	0	0	0	NA	Rig up safety meeting
11:35	0	0	0	0	NA	Pre job safety meeting
11:39	3001	0	0	0	H20	Low pressure test
11:41	4715	0	0	0	H20	High pressure test
11:44	683	0	2	20	H20	Fresh water spacer
12:04	216	0	2	38	CMT	Batch up, weigh and pump 180 sx 50/50 Poz (Fly Ash) Class G Cement + 10% Sodium Chloride + 2% Bentonite @ 14.4 ppg
12:24	1993	0	2	25.5	H20	Displacement
12:36	807	0	0	0	H20	Shut down sting out
12:39	2201	0	3	89	H20	Forward out tubing and casing 22 bbls. cmt to surface
13:13	0	0	0	0	NA	Shut down
13:15	0	0	0	0	NA	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:
Y [N]	0	Y [N]	22	172.5	0	Y [N]	

BJ Services JobMaster Program Version 3.50
Job Number: *1001887376*
Customer: *KMG*
Well Name: *Eichthaler 1 1*

C990

Slurry Density (ppg)
Target Density (ppg)

Elapsed Time (min)

FLOW 1+2 (bpm)

PRES #1 (psi)

Pressure test

Pre flush

Cmt 14.4 ppg

Forward out

Sting out

Displacement

Shut down