CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER ANADARKO PETROLEUM COF	**DATE** 07-MAR-15	**F.R. #** 10011142082		**SERV. SUPV.** JOHN R WUDARCZYK
LEASE & WELL NAME WHSS #1 - API 05123411040000	**LOCATION** 21-2N-65W			**COUNTY-PARISH-BLOCK** Weld Colorado
DISTRICT Brighton	**DRILLING CONTRACTOR RIG #** XTREME 8			**TYPE OF JOB** Plug Back

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	No Shoe						
	NA-P&A						

PHYSICAL SLURRY PROPERTIES

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
Plug 1A - Plug to prevent gas migration		244	15.8	1.15	4.96		50.13	28.84
Drilling Fluid		0	9.2	0	0	00:00	49	
Ultra Flush II		0	13	0	0	00:00	20	
Ultra Flush II		0	13	0	0	00:00	20	
Plug Two - Sussex Plug		492	15.8	1.15	4.97		101.04	58.22
Ultra Flush II		0	13	0		00:00	1	
Drilling Fluid		0	9.2	0	0	00:00	39	
Ultra Flush II		0	13	0	0	00:00	20	
Plug Three - Fox Hills Plug #1		512	15.8	1.16	4.97		105.79	60.61
Ultra Flush II		0	13	0	0	00:00	1	
Drilling Fluid		0	9.2	0	0	00:00	7	
Fresh Water		0	8.34	0	0	00:00	20	
Plug Four - Fox Hills Plug #2		304	15.8	1.16	4.97		62.81	35.99
Fresh Water		0	8.34	0	0	00:00	2	

Available Mix Water 500 **Bbl.**	**Available Displ. Fluid** 500 **Bbl.**				**TOTAL**	498.76	183.65

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12	0	4550	3.34	4	14	DP	4550			0	0	0

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.
8.9	9.63	36	CSG	275	275	NO PACKER	0	0	0	2	1502	WATER BASED	10.5

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	
34.7	BBLS	Drilling Fluid	9.2	0	0	0	0	0	0	0	RIG
		Drilling Fluid	9.2								

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ]   Circulation Time: 3   Circulation Rate: 6 BPM

Mud Density In: 10.5 LBS/G   Mud Density Out: 10.5 LBS/GAL   PV & YP Mud In: 19   PV & YP Mud Out: 19

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: 0 BBLS

Returns During Job: [ ] NONE [X] PARTIAL [ ] 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: [X] NO [ ] YES   Quantity: Type: [ ] BOW [ ] RIGID

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

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

PRESSURE/RATE DETAIL	EXPLANATION
PRESSURE - PSI	**SAFETY MEETING: BJ CREW** [X] **CO. REP.** [X]

Plugs

Number of Attempts by BJ: 4	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: 4193 FT	Bottom of Plug: 4550 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

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)
FIGURED ALL PLUGS BASED ON 12" HOLE, (PER CUSTOMER). AFTER SETTING 1ST PLUG, RIG WENT TO CIRCULATE DRILL PIPE AFTER PULLING TO TOP OF CEMENT, BASED ON A 12 " HOLE, IT APPEARED THAT WE GOT MOST IF NOT ALL OF OUR CEMENT BACK FROM JOB, IT APPEARED TO BE MUD CONTAMINATED CEMENT. AFTER CIRCULATING HOLE GOT ALOT OF WALL CAKE / CUTTINGS FROM HOLE,, WALLS OF HOLE POSSIBLY CAVED IN SLIGHTLY, RIG WAS ABLE TO GET TO SET DEPTH FOR 2ND PLUG. RIG DID NOT TAG 1ST PLUG BUT INSTEAD GOT TO SET DEPTH AND WE PUMPED 2ND PLUG, AFTER 2ND PLUG PUMPED AND RIG PULLED TO ABOVE TOP OF PLUG, IT APPEARED THAT WE GOT MOST OF OUR CEMENT BACK IN THE FORM OF MUD CONTAMINATED CEMENT. @ 3:40 AM ON 3/7/15 RIG GOING IN TO TAG 2ND PLUG. RIG TAGGED 2ND PLUG @ 3660, HELD JOB MEETING FOR PLUG 3+4 AT 13:45 ON 3/7/15 RIG WAS DOWN FOR A WHILE FIXING THERE CATWALK SKATE. JOB COMPLETE @
16:00 3/7/15

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
COULD NOT ACCURATELY DETERMINE BBLS OF CEMENT TO SURFACE, AS IT WAS MUD CONTAMINATED.

	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 4105 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
01:45	0	0	0	0	0	ARRIVE ON LOCATION (15 MILES) RIG RUNNING IN HOLE WITH DRILL PIPE
02:30	0	0	0	0	0	SPOT TRUCKS
03:10	0	0	0	0	0	PRE RIG UP SAFETY MEETING
03:20	0	0	0	0	0	START GROUND RIG UP
04:30	0	0	0	0	0	GROUND RIG UP COMPLETE, AS FAR AS POSSIBLE
06:00	0	0	0	0	0	PRE JOB MEETING
07:00	0	0	0	0	0	WHILE ATTEMPTING TO PRIME UP PUMP, SLURRY PUMP NOT WORKING
07:10	0	0	0	0	0	SLURRY PUMP STARTED WORKING, COMPLETED PRIME UP
07:20	4105	0	0	0	H2O	PRESSURE TEST PUMPS AND LINES
07:45	238	0	3	20	SPCR	WEIGHTED SPACER @ 13#
07:58	117	0	3	50	PLUG #1	BATCH UP AND PUMP 244SKS CLASS G+.4%CD-32+.4%ASA-301+.3%BA-59@15.8# PLUG SPOTTED FROM 4193'-4550'
08:17	47	0	1.5	1.7	DISP SPCI	WEIGHTED SPACER @ 13#
08:18	88	0	2.5	33	MUD	DISPLACEMENT, (UNDERDISPLACED BY 10 BBLS PER ANADARKO PROGRAM
08:27	0	0	0	0	H2O	SHUT DOWN / WASH UP / PULL DRILL PIPE / CIRCULATE
08:45	0	0	0	0	H2O	WASH UP COMPLETE
18:10	0	0	0	0	0	PRE JOB MEETING FOR PLUG # 2
18:40	227	0	2.9	20	SPCR	WEIGHTED SPACER @ 13#
18:52	117	0	2.9	100	PLUG #2	BATCH UP AND PUMP 492 SKS CLASS G+.4%CD-32+.4%ASA-

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	PRESSURE/RATE DETAIL					EXPLANATION

TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
	PIPE	ANNULUS				

SAFETY MEETING: BJ CREW [X] CO. REP. [X]
TEST LINES   4105 PSI
CIRCULATING WELL - RIG [X]   BJ [ ]

TIME HR:MIN.	PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						301+.3%BA-59 @ 15.8# PLUG FROM 3505'-4220'
19:30	122	0	1.3	1.7	DISP SPCI	WEIGHTED SPACER @ 13#
19:31	90	0	2.8	26	MUD	DISPLACEMENT, (UNDERDISPLACED BY 10 BBLS PER ANADARKO PROGRAM
19:39	0	0	0	0	H2O	SHUT DOWN / WASH UP / PULL DRILL PIPE / CIRCULATE
19:50	0	0	0	0	0	WASH UP COMPLETE
22:00	0	0	0	0	0	WAITING FOR RIG TO GO AND TAG PLUG #2
13:45	0	0	0	0	0	PRE JOB MEETING FOR PLUGS # 3+4
14:00	155	0	3	20	SPCR	WEIGHTED SPACER @ 13#
14:10	103	0	3	106	PLUG# 3	BATCH UP AND PUMP 512 SKS CLASS G+1%CACL+.25#/SACK CELLO FLAKE+.2%CD-32+.2%ASA-301+.5%BA-10A @15.8# PLUG FROM 743'-1500'
14:48	87	0	2.9	1.7	DISP SPCI	WEIGHTED SPACER @ 13#
14:49	45	0	3	2	MUD	DISPLACEMENT (UNDERDISPLACE BY 5 BBLS PER ANADARKO PROGRAM
14:50	0	0	0	0	0	SHUT DOWN / PULL PIPE / PREP FOR 4TH PLUG
15:26	205	0	2.8	20	H2O	FRESH WATER
15:35	110	0	2.8	53	PLUG#4	BATCH UP AND PUMP 304 SKS CLASS G+.5%BA-10A+1%CACL+.25#/SACK CELLO FLAKE+.2%CD-32+.2%ASA-301@15.8# PLUG FROM 426'-875'
15:57	94	0	2.7	1	H2O	DISPLACE
15:58	0	0	0	0	H2O	SHUT DOWN/WASH UP/PULL PIPE
16:15	0	0	0	0	0	POST JOB 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 [X] 0		Y [ ] N [X]		456.1	0	Y [ ] N [X]	