

Cementing Treatment



Start Date	7/29/2018	Field Ticket#	FT-09281-R4P8D70202-23632
End Date	7/29/2018	Well	KTC FARMS A-35-36HN
Client	BAYSWATER EXPLORATION & PRODUCTION, LLC	API#	05-123-47272
Client Field Rep.	Marsh	Well Classification	
Service Sup.	Paul Linn III	County	WELD
District	Rifle, CO	State/Province	CO
Type of Job	Surface	Formation	
Execution ID	EXC-09281-R4P8D702	Rig	
Project ID	PRJ1009105		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50	0.00	0.00	1,562.00	25.00		
Casing	8.92	9.63	36.00	1,555.00			

Shoe Length (ft): 45.15

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,513.00
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	9.625	Job Pumped Through	Manifold
Centralizers Used	No	Top Connection Thread	8 RND.
Landing Collar Depth (ft)	1,458	Top Connection Size	9.625

Cementing Treatment



CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	Flare Prior to/during the Cement Job	No
Circulation Time (min)	30.00	Gas Present	No
Circulation Rate (bpm)	10.00		
Circulation Volume (bbls)	300.00		
Lost Circulation Prior to Cement Job	No		
Mud Density In (ppg)	8.40		
Mud Density Out (ppg)	8.40		

TEMPERATURE

Ambient Temperature (°F)	88.00	Slurry Cement Temperature (°F)	87.10
Mix Water Temperature (°F)	77.60	Flow Line Temperature (°F)	

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3337			0.00				20.0000
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1000	242	611.0000	108.7000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2256	12.59	1,000.00	500	146	324.0000	57.6000
Displacement Final	Water	8.3337			0.00			0.0000	112.7000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Displacement Final	Water	Fresh Water	100.0000	PCT

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
7/29/2018 1:30:00 AM	Water	4.00	20.00	70.00
7/29/2018 1:36:00 PM	BJCem S100.03.1C	5.50	109.04	264.00
7/29/2018 1:58:00 PM	BJCem S100.03.1C	5.50	57.99	291.00
7/29/2018 2:21:00 PM	Water	6.00	116.97	216.00

	Min	Max	Avg
Pressure (psi)	38.00	541.00	262.00
Rate (bpm)	2.00	9.00	5.50

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	10.00
Calculated Displacement Volume (bbls)	116.97	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	118.00	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	402.00	Total Volume Pumped (bbls)	300.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

EVENT LOG



Customer Name: BAYSWATER EXPLORATION & PRODUCTION, LLC

Well Name: KTC FARMS A-35-36HN

Job Type: Surface

Quote ID: QUO-16135-X0R9W2

Plan ID: ORD-09281-R4P8D7

Execution ID: EXC-09281-R4P8D702

District: Rifle, CO

BJ Supervisor: Paul Linn III

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	07/29/2018 03:10	Callout					CALL OUT ON LOCATION TIME OF 9:00 CREW ALREADY IN ROUTE
2	07/29/2018 07:00	Arrive on Location					CREW ARRIVED ON LOCATION DRILLING CREW WAS PULLING DRILL PIPE
3	07/29/2018 07:10	Spot Units					DID A SITE ASSEMENT AND ROCK DRILL WITH CEMENT CREW THEN SPOTTED IN EQUIPMENT
4	07/29/2018 07:22	Safety Meeting					PRE RIG UP SAFETY MEETING WITH ALL BJ CEMENT CREW
5	07/29/2018 07:36	Rig Up					RIGGED UP ALL GROUND EQUIPMENT
6	07/29/2018 08:08	Customer					WAIT ON THE RIG RO RUN CASING
7	07/29/2018 13:00	Safety Meeting					PRE JOB SAFETY MEETING WITH ALL BJ CEMENT CREW AND RIG CREW
8	07/29/2018 13:12	Rig Up					LOAD PLUG CONTAINER, STAB PLUG CONTAINER AND HOOK UP LINES
9	07/29/2018 13:24	Prime Up	8.3300	2.00	5.00	38.00	FILL LINES WITH FRESH WATER

EVENT LOG



Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
10	07/29/2018 13:27	Pressure Test				3,186.00	PRESSURE TESTED TO 3186 PSI PRSSURE HELD GREAT
11	07/29/2018 13:31	Pump Spacer	8.3300	4.00	20.00	104.00	PUMPED 20 BBLS OF FRESH WATER WITH DYE IN IT
12	07/29/2018 13:36	Pump Lead Cement	12.0000	5.50	50.00	268.00	PUMPED LEAD CEMENT 12 PPG 242 SK 2.53 CUFT/SK 14.86GAL/SK FOR A TOTAL OF 109.04 BBLS OF LEAD CEMENT REQUIRING 85.62 BBLS OF MIX WATER. WEIGHT VERIFIED WITH MUD SCALE. HEIGHT OF LEAD IS 931 FT WITH A TOP OF 0 FT
13	07/29/2018 13:47	Pump Lead Cement	12.0000	5.50	108.00	276.00	PUMPED LEAD CEMENT
14	07/29/2018 13:57	Pump Tail Cement	12.5000	5.50	35.00	291.00	PUMPED TAIL CEMENT 12.5 PPG 146 SK 2.23 CUFT/ SK 12.59 GAL/ SK FOR A TOTAL OF 57.99 BBLS OF TAIL REQUIRING 43.77 BBLS OF MIX WATER. WEIGHT VERIFIED WITH MUD SCALE, CALCULATED TOP OF TAIL IS 931 FT, WITH A HEIGHT OF 626 FT.\
15	07/29/2018 14:03	Pump Tail Cement	12.5000	5.50	54.00	148.00	PUMPED TAIL CEMENT
16	07/29/2018 14:07	Drop Top Plug					DROPPED TOP, COMPANY MAN WANTED TO POP CAP AND VERIFY PLUG LEFT
17	07/29/2018 14:21	Pump Displacement	8.3300	9.00	50.00	363.00	PUMPED FRESH WATER DISPLACEMENT
18	07/29/2018 14:27	Pump Displacement	8.3300	7.00	100.00	541.00	PUMPED FRESH WATER DISPLACEMENT
19	07/29/2018 14:35	Cement Back to Surface					10 BBLS OF CEMENT TO SURFACE
20	07/29/2018 14:35	Pump Displacement	8.3300	2.00	118.00	402.00	PUMPED FRESH WATER DISPLACEMENT, PUMPED CALCULATED, SHUT DOWN PUMPED 1 BBL OVER AND LANDED
21	07/29/2018 14:45	Land Plug				887.00	LANDED THE PLUG AT 402 PSI TOOK TO 887
22	07/29/2018 14:48	Safety Meeting					PRE RIG DOWN SAFETY MEETING WITH RIG

EVENT LOG



Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
23	07/29/2018 14:55	Rig Down					RIG DOWN RIG FLOOR
24	07/29/2018 15:08	Clean Pumps and Lines					WASH PUMPS AND LINES TO CELLAR
25	07/29/2018 15:30	Safety Meeting					PRE RIG DOWN SAFETY MEETING WITH ALL BJ CEMENT CREW
26	07/29/2018 15:38	Rig Down					RIG DOWN ALL EQUIPMENT
27	07/29/2018 16:00	Leave Location					LEAVE LOCATION, THANK YOU FOR USING BJ SERVICES, ANDREW LINN AND CREW

