

# Cementing Treatment



**Start Date** 7/30/2018 **Field Ticket#** FT-09283-P3J0R10202-29414  
**End Date** 7/30/2018 **Well** KTC FARMS B-35-36HC  
**Client** BAYSWATER EXPLORATION & PRODUCTION, LLC **API#** 05-123-47271  
**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-09283-P3J0R102 **Rig**  
**Project ID** PRJ1009107

## 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	1,555.39			

**Shoe Length (ft):** 42.00

## 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** Yes **Top Connection Thread** 8 RND  
**Landing Collar Depth (ft)** 1,458 **Top Connection Size** 9.625

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## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	1.00
Circulation Time (min)	30.00	10 min SGS	2.00
Circulation Rate (bpm)	10.90	30 min SGS	2.00
Circulation Volume (bbls)	357.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	8.80	Gas Units	0
Mud Density Out (ppg)	8.80		
PV Mud In	1		
PV Mud Out	1		
YP Mud In	4		
YP Mud Out	4		

## TEMPERATURE

Ambient Temperature (°F)	66.00	Slurry Cement Temperature (°F)	86.20
Mix Water Temperature (°F)	72.00	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

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

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
7/30/2018 8:51:00 AM	Water	6.00	20.00	195.00		
7/30/2018 8:56:00 AM	BJCem S100.03.1C	6.00	109.04	374.00		
7/30/2018 9:13:00 AM	BJCem S100.03.1C	6.00	57.99	355.00		
7/30/2018 9:26:00 AM	Water	10.00	116.96	413.00		
		<b>Min</b>		<b>Max</b>		<b>Avg</b>
<b>Pressure (psi)</b>		57.00		776.00		355.00
<b>Rate (bpm)</b>		2.00		10.00		6.00

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## DISPLACEMENT AND END OF JOB SUMMARY

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<b>Displaced By</b>	BJ	<b>Amount of Cement Returned/Reversed</b>	15.00
<b>Calculated Displacement Volume (bbls)</b>	116.96	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Volume (bbls)</b>	116.50	<b>Amount of Spacer to Surface</b>	20.00
<b>Did Float Hold?</b>	Yes	<b>Pressure Left on Casing (psi)</b>	0.00
<b>Bump Plug</b>	Yes	<b>Amount Bled Back After Job</b>	0.50
<b>Bump Plug Pressure (psi)</b>	423.00	<b>Total Volume Pumped (bbls)</b>	298.00
<b>Were Returns Planned at Surface</b>	No	<b>Top Out Cement Spotted</b>	No
<b>Cement returns During Job</b>	Full	<b>Lost Circulation During Cement Job</b>	No

# EVENT LOG



**Customer Name:** BAYSWATER EXPLORATION & PRODUCTION, LLC

**Well Name:** KTC FARMS B-35-36HC

**Job Type:** Surface

**Quote ID:** QUO-16140-X1L1M4

**Plan ID:** ORD-09283-P3J0R1

**Execution ID:** EXC-09283-P3J0R102

**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 22:00	Callout					CALL OUT ON LOCATION TIME OF 5:30
2	07/30/2018 04:30	Arrive on Location					ARRIVE ON LOCATION. RIG CREW WAS PULLING DRILL PIPE
3	07/30/2018 04:35	Spot Units					DID SITE ASSESMENT AND ROCK DRILL AND SPOT IN ALL BJ EQUIPMENT
4	07/30/2018 04:42	Safety Meeting					PRE RIG UP SAFETY MEETING
5	07/30/2018 04:54	Rig Up					RIG IN ALL GROUND EQUIPMENT
6	07/30/2018 05:10	Customer					WAIT ON RIG TO RUN CASING
7	07/30/2018 08:10	Safety Meeting					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ CEMENT CREW
8	07/30/2018 08:22	Rig Up					LOAD PLUG IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK UP LINES
9	07/30/2018 08:40	Prime Up					FILL LINES WITH 5 BBLS OF FRESH WATER
10	07/30/2018 08:47	Pressure Test					PRESSURE TEST TO 3333 PSI PRESSURE HELD
11	07/30/2018 08:51	Pump Spacer					PUMPED 15 BBLS. OF DYED WATER

## EVENT LOG



Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
12	07/30/2018 08:53	Pump Lead Cement	12.0000	6.00	50.00	328.00	PUMPED LEAD CEMENT 12 PPG 242 SKS 2.53 CUFT/SK 14.86 GAL/SK FOR 109.04 BBLS OF LEAD CEMENT REQUIRING 85.62 BBLS OF MIX WATER. WEIGHT VERIFIED WITH MUD SCALE, TOP OF LEAD IS 0 FT WITH A HEIGHT OF 926.42 FT.
13	07/30/2018 09:02	Pump Lead Cement	12.0000	6.00	100.00	328.00	PUMPED LEAD CEMENT
14	07/30/2018 09:11	Pump Lead Cement	12.0000	6.00	100.00	328.00	FINISHED PUMPING LEAD CEMENT
15	07/30/2018 09:12	Pump Tail Cement	12.5000	6.00	5.00	355.00	PUMPED TAIL CEMENT 12.5 PPG 146 SKS 2.23 CUFT/SK 12.59 GAL/SK FOR A TOTAL OF 57.99 BBLS OF TAIL REQUIRING 43.77 BBL OF MIX WATER. WEIGH VERIFIED WITH MUD SCLAES, TOP OF TAIL IS 926.42 FT, WITH A HEIGHT 628.97 FT.
16	07/30/2018 09:13	Pump Tail Cement	12.5000	4.00	20.00	196.00	PUMPED TAIL CEMENT
17	07/30/2018 09:15	Pump Tail Cement	12.5000	4.00	54.00	187.00	FINISHED PUMPING TAIL CEMENT
18	07/30/2018 09:22	Drop Top Plug					DROP PLUG, VERIFIED BY COMPANY MAN
19	07/30/2018 09:26	Pump Displacement	8.3300	10.00	50.00	411.00	PUMPED FRESH WATER DISPLACEMENT
20	07/30/2018 09:32	Pump Displacement	8.3300	10.00	100.00	736.00	PUMPED FRESH WATER DISPLACEMENT
21	07/30/2018 09:39	Cement Back to Surface					15 BBLS OF CEMENT TO SURFACE
22	07/30/2018 09:39	Pump Displacement	8.3300	2.00	116.50	423.00	FINISHED PUMPING FRESH WATER DISPLACEMENT
23	07/30/2018 09:47	Land Plug				957.00	LANDED PLUG FINAL CIRCULATING PRESSURE WAS 423 PSI TOOK TO 957
24	07/30/2018 09:50	Check Floats					CHECK FLOATS 1/2 BBL BACK, FLOATS HELD
25	07/30/2018 09:55	Safety Meeting					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
26	07/30/2018 10:08	Rig Down					RIG DOWN RIG FLOOR

# EVENT LOG



Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
27	07/30/2018 10:08	Clean Pumps and Lines					WASH PUMPS AND LINES TO CELLAR
28	07/30/2018 10:30	Safety Meeting					PRE RIG DOWN SAFETY MEETING WITH ALL BJ CEMENT CREW
29	07/30/2018 10:38	Rig Down					RIG DOWN ALL EQUIPMENT
30	07/30/2018 10:50	Leave Location					LEAVE LOCATION. THANK YOU FOR USING BJ SERVICES, ANDREW LINN AND CREW

