



# Bayswater Exploration & Production, LLC

G & D Hanks N-27-28HC

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API # 05-123-46034

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Surface

04/17/2019

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Quote #: 29489

Execution #: 17284



# Bayswater Exploration & Production, LLC

Attention: Mr. Josh Falls | (720) 484-1146 | [Josh.Falls@iptenergyservices.com](mailto:Josh.Falls@iptenergyservices.com)

Bayswater Exploration & Production | 730 17th Street, Suite 610 | Denver, CO. 80202

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Dear Mr. Josh Falls,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely,  
Jason Creel  
Field Engineer I | (307) 256-3006 | [jason.creel@bjsservices.com](mailto:jason.creel@bjsservices.com)

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

Sales Office 999 18th St. Suite 1200 Denver, CO 80202  
Phone: (281) 408-2361

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# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Brian Boyd	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Craig	COUNTY	WELD
DISTRICT	Cheyenne, WY	STATE / PROVINCE	CO
SERVICE	Cementing		

## WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)
Open Hole	13.50	0.00	0.00	1,575.00	1,575.00	30.00
Casing	8.92	9.63	36.00	1,565.00	1,565.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,517.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	3512.00
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	2012.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	17.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,517	Top Connection Size	9.625

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud In	2
Circulation Prior to Job	Yes	YP Mud In	1
Circulation Time (min)	45.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	6.00	10 sec SGS	1
Circulation Volume (bbls)	180.00	10 min SGS	1
Lost Circulation Prior to Cement Job	No	Flare Prior to / during the Cement Job	No
Mud Density In (ppg)	8.40	Gas Present	No

## TEMPERATURE

Ambient Temperature (°F)	46.00	Slurry Cement Temperature (°F)	67.00
Mix Water Temperature (°F)	55.00	Flow Line Temperature (°F)	88.00

Client Name: Bayswater Exploration & Production, LLC

Well: G & D HANKS N-27-28HC

Well API: 05-123-46034

Start Date: 4/16/2019

End Date: 4/17/2019



## FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H <sub>2</sub> O REQ (gals/sk)	PLN TOP FLD (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	1,050.00	265	667.0000	118.7000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2255	12.59	885.00	500.00	150	336.0000	59.8000
Displacement Final	Water	8.3337			0.00			0.0000	117.0000

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

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amt of Cement Returned / Reversed</b>	39.00
<b>Calculated Displacement Vol (bbls)</b>	117.00	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Vol (bbls)</b>	117.00	<b>Amt 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>Amt Bled Back After Job</b>	0.50
<b>Bump Plug Pressure (psi)</b>	1000.00	<b>Total Volume Pumped (bbls)</b>	310.00
<b>Were Returns Planned at Surface</b>	Yes	<b>Top Out Cement Spotted</b>	No
<b>Cement Returns During Job</b>	Full	<b>Lost Circulation During Cement Job</b>	No

Client Name: Bayswater Exploration & Production, LLC

Well: G & D HANKS N-27-28HC

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Start Date: 4/16/2019

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# BJ Cementing Event Log

Surface - Cheyenne, WY - Brian Boyd

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	04/16/2019 19:30	Callout					Customer requested crew to be on location at 1:30
2	04/16/2019 22:00	Arrive on Location					BJ crew has journey management and departs from shop, BJ crew arrives on location and meet with customer
3	04/16/2019 23:00	STEACS Briefing					BJ crew has steacs over rigging up iron and hoses
4	04/16/2019 23:30	Rig Up					BJ crew rigs up iron and hoses
5	04/17/2019 02:21	STEACS Briefing					Steacs briefing with BJ crew, rig crew and company man over job and hazards
6	04/17/2019 02:34	Prime Up	8.3300	3.00	3.00	67.00	Fill pumps and lines
7	04/17/2019 02:36	Pressure Test	8.3300	0.50	0.50	3500.00	Pressure test iron and hoses to 3000 PSI
8	04/17/2019 02:38	Pump Spacer	8.3300	4.00	20.00	103.00	Pump 20 bbls of fresh water ahead with dye
9	04/17/2019 02:52	Pump Lead Cement	12.0000	6.00	118.00	291.00	Pump 118 bbls of 12 PPG lead cement (265 Sks, 2.52 Yield, 14.86 Gals/Sks)
10	04/17/2019 03:17	Pump Tail Cement	12.5000	6.00	59.00	328.00	Pump 59 bbls of 12.5 PPG tail cement (150 Sks, 2.22 Yield, 12.59 Gals/Sks)
11	04/17/2019 03:29	End Pumping					Shut down pumping
12	04/17/2019 03:34	Drop Top Plug					Drop top plug with company man to verify plug went down hole
13	04/17/2019 03:34	Pump Displacement	8.3300	7.00		250.00	Pump 117 bbls of fresh water displacement
14	04/17/2019 03:45	Cement Back-to-Surface	8.3300	7.00	78.00	500.00	78 bbls into displacement got cement to surface for total of 39 bbls of cement to surface
15	04/17/2019 03:50	Pump Displacement	8.3300	3.00	100.00	400.00	Last 17 bbls of displacement slow rate to 3 bpm
16	04/17/2019 03:55	Land Plug			117.00	1000.00	Bump plug to 1000 PSI, FCP of 500 PSI total displacement of 117 bbls
17	04/17/2019 04:00	Check Floats					Hold for 3 mins and check floats got .5 bbl back
18	04/17/2019 04:02	STEACS Briefing					BJ crew has steacs over rigging down iron and hoses
19	04/17/2019 04:06	Rig Down					BJ crew rigs down iron and hoses
20	04/17/2019 04:38	Leave Location					BJ crew has journey management and departs from location



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: G-D HANKS N-27-28HC

