



Bayswater Exploration & Production, LLC

G & D Hanks P-27-28HN

API # 05-123-46032

Surface

04/18/2019

Quote #: 29494

Execution #: 17338



Bayswater Exploration & Production, LLC

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

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

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

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

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Brian Boyd	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Scott	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 (%)
Casing	8.92	9.63	36.00	1,556.00	1,556.00	
Open Hole	13.50	0.00	0.00	1,567.00	1,567.00	30.00

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,506.00
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)	1,506	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)	189.00	10 min SGS	2
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)	59.00	Slurry Cement Temperature (°F)	62.00
Mix Water Temperature (°F)	62.00	Flow Line Temperature (°F)	88.00

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Start Date: 4/18/2019

End Date: 4/18/2019



FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ 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	877.00	500.00	150	336.0000	59.8000
Displacement Final	Water	8.3337			0.00			0.0000	116.6000

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

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	45.00
Calculated Displacement Vol (bbls)	116.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	116.00	Amt of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	0.50
Bump Plug Pressure (psi)	1150.00	Total Volume Pumped (bbls)	310.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

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Start Date: 4/18/2019

End Date: 4/18/2019



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	04/18/2019 10:47	Callout	0.0000	0.00	0.00	0.00	Customer requested crew on location at 1530
2	04/18/2019 12:00	Arrive on Location	0.0000	0.00	0.00	0.00	BJ crew has journey management and departs from shop, crew arrives on location and meet with customer
3	04/18/2019 13:10	STEACS Briefing	0.0000	0.00	0.00	0.00	BJ crew has steacs over rigging up iron and hoses
4	04/18/2019 13:15	Rig Up	0.0000	0.00	0.00	0.00	BJ crew rigs up iron and hoses
5	04/18/2019 16:45	STEACS Briefing	0.0000	0.00	0.00	0.00	Steacs briefing with BJ crew, rig crew and company man over job and hazards
6	04/18/2019 16:55	Prime Up	8.3300	3.00	3.00	30.00	Fill pumps and lines
7	04/18/2019 16:57	Pressure Test	8.3300	0.50	0.50	3500.00	Pressure test iron and hoses to 3000 PSI
8	04/18/2019 17:00	Pump Spacer	8.3300	4.00	20.00	65.00	Pump 20 bbls of fresh water ahead with dye
9	04/18/2019 17:07	Pump Lead Cement	12.0000	6.00	118.00	271.00	Pump 118 bbls of 12 PPG lead cement (265 Sks, 2.52 Yield, 14.86 Gals/Sks)
10	04/18/2019 17:24	Pump Tail Cement	12.5000	6.00	59.00	365.00	Pump 59 bbls of 12.5 PPG tail cement (150 Sks, 2.22 Yield, 12.59 Gals/Sks)
11	04/18/2019 17:36	End Pumping	0.0000	0.00	0.00	0.00	Shut down pumping
12	04/18/2019 17:39	Drop Top Plug	0.0000	0.00	0.00	0.00	Drop top plug with company man to verify plug went down hole
13	04/18/2019 17:39	Pump Displacement	8.3300	7.00	0.00	140.00	Pump 116 bbls of fresh water displacement
14	04/18/2019 17:50	Cement Back-to-Surface	8.3300	7.00	70.00	430.00	70 bbls into displacement got cement to surface for total of 46 bbls of cement to surface
15	04/18/2019 17:56	Pump Displacement	8.3300	3.00	100.00	400.00	Last 16 bbls slow rate to 3 bpm
16	04/18/2019 17:58	Land Plug	0.0000	0.00	116.00	1150.00	Bump plug to 1150 PSI, FCP of 550 PSI total displacement of 116 bbls
17	04/18/2019 18:01	Check Floats	0.0000	0.00	0.00	0.00	Hold for 3 mins and check floats got, 5 bbl
18	04/18/2019 18:03	STEACS Briefing	0.0000	0.00	0.00	0.00	BJ crew has steacs over rigging down iron and hoses
19	04/18/2019 18:07	Rig Down	0.0000	0.00	0.00	0.00	Bj crew rigs down iron and hoses
20	04/18/2019 18:30	Leave Location	0.0000	0.00	0.00	0.00	BJ crew has journey management and departs from location

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Plan #: ORD-17338-W0N3R7

Execution #: EXC-17338-W0N3R702

API:

Quote #: QUO-29494-H0T4S8





JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: G&D HANKS P-27-28HN

