



Bayswater Exploration & Production, LLC

G & D Hanks N-27-28HC

API # 05-123-46034

Production

June 07, 2019

Quote #: 32213

Execution #: 18561



Bayswater Exploration & Production, LLC

Attention: Mr. Trevor Smith | (720) 335-9045 | trevor.smith@iptenergyservices.com

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

Dear Mr. Trevor Smith,

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@bjservices.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	Edgar Rodriguez	RIG	TRUE 38
CLIENT FIELD REPRESENTATIVE	Marsh Wing	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 (%)
Previous Casing	8.92	9.63	36.00	1,565.00	1,565.00	
Casing	4.78	5.50	20.00	18,315.00	7,381.00	
Open Hole	8.50	0.00	0.00	18,335.00	7,381.00	5.00

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	18,288
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	12640.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	3641.00
Top Plug Size	5.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	222.00	Top Connection Thread	BTC
Centralizers Type	Rigid	Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	YP Mud In	10
Circulation Prior to Job	Yes	YP Mud Out	10
Circulation Time (min)	330.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	12.00	10 sec SGS	13
Circulation Volume (bbls)	3960.00	10 min SGS	26
Lost Circulation Prior to Cement Job	No	30 min SGS	29
Mud Density In (ppg)	13.40	Flare Prior to / during the Cement Job	No
Mud Density Out (ppg)	13.00	Gas Present	No
PV Mud In	34	Gas Units	300
PV Mud Out	34		

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Start Date: 6/7/2019

End Date: 6/7/2019



TEMPERATURE

Ambient Temperature (°F)	80.00
Mix Water Temperature (°F)	70.00

Slurry Cement Temperature (°F)	70.00
Flow Line Temperature (°F)	155.00

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	IntegraGuard EZ Spacer	13.3000			0.00				80.0000
Lead Slurry	BJCem P100.3.01C	13.5000	1.7233	9.07	0.00	7,050.00	950	1739.0000	292.0000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4772	7.45	7,050.00	11,275.00	1850	2733.0000	486.7000
Displacement 2	Retarded Water w/ Clay Protection & Biocide	8.3331				0.00	0	0.0000	10.0000
Displacement Final	Water w/ Clay Protection & Biocide	8.3331			0.00			0.0000	394.0000

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FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-247	0.7000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	WEIGHTING ADDITIVE, BARITE	284.4100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-267	0.7000	GPB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-66	0.5000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraCare EC-2	3.0000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.1000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.7000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.0700	BWOB
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Displacement 2	Retarded Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	RETARDER, SR-61L	0.1000	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB
Displacement Final	Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	25.00
Calculated Displacement Vol (bbls)	404.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	404.00	Amt of Spacer to Surface	80.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	5.00
Bump Plug Pressure (psi)	3641.00	Total Volume Pumped (bbls)	1263.00
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: 6/7/2019

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BJ Cementing Event Log

Long String - Cheyenne, WY - Edgar Rodriguez

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	06/07/2019 02:52	Callout					CALLED OUT FOR BAYSWATER EXPLORATION PRODUCTION JOB
2	06/07/2019 04:00	Depart for Location					LEAVE YARD
3	06/07/2019 05:00	Arrive on Location					ARRIVE ON LOCATION
4	06/07/2019 05:05	Other (See comment)					CASING ON BOTTOM / RIG CIRCULATING WITH BJ CEMENT HEAD / GET NUMBERS FROM COMPANY REP
5	06/07/2019 05:20	STEACS Briefing					STEACS BRIEFING
6	06/07/2019 05:30	Spot Units					SPOT EQUIPMENT
7	06/07/2019 05:40	STEACS Briefing					STEACS BRIEFING
8	06/07/2019 05:50	Rig Up					RIG UP GROUND
9	06/07/2019 07:00	Rig					RIG CIRCULATING
10	06/07/2019 10:40	Rig Up					PICK UP WASH LINES AND STANDPIPE TO RIG FLOOR
11	06/07/2019 11:05	STEACS Briefing					JOB STEACS BRIEFING
12	06/07/2019 11:15	Circulate Well					RIG PUMPING DOWN DIESEL PILL
13	06/07/2019 11:18	Rig Up					RIG UP WASH LINES AND STANDPIPE TO RIG FLOOR
14	06/07/2019 11:28	Circulate Well	8.3000	3.00	3.00	700.00	LOAD LINES
15	06/07/2019 11:31	Pressure Test				7000.00	TEST LINES
16	06/07/2019 11:34	Batch Mix Spacer				0.00	BATCH MIX INTEGRAGUARD EZ SPACER
17	06/07/2019 11:55	Pump Spacer	13.3000	4.00	80.00	900.00	INTEGRAGUARD EZ SPACER
18	06/07/2019 12:22	Pump Lead Cement	13.5000	7.00	292.00	900.00	950 SKS LEADTYPE III CMT
19	06/07/2019 13:05	Pump Lead Cement	13.5000	4.00		800.00	SLOW RATE TO EMPTY SILO AT 267 BBLS GONE
20	06/07/2019 13:12	Pump Tail Cement	13.5000	7.00	487.00	900.00	1850 SKS TAIL 50/50 CLASS G CMT
21	06/07/2019 13:23	Pump Tail Cement	13.5000	3.00		400.00	SLOW DOWN / NOT GETTING ENOUGH CEMENT / PURGED LINE AND GOT BETTER DELIVERY
22	06/07/2019 13:28	Pump Tail Cement	13.5000	7.00		900.00	PICK UP RATE
23	06/07/2019 13:45	Pump Tail Cement	13.5000	3.00		500.00	SLOW RATE AT 230 BBLS OF TAIL GONE TO EMPTY SILO
24	06/07/2019 13:50	Pump Tail Cement	13.5000	7.00		900.00	SWITCH SILOS / PICK UP RATE

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API:



Plan #: ORD-18561-X8L8Z0

Execution #: EXC-18561-X8L8Z002

Quote #: QUO-32213-B2J7H8

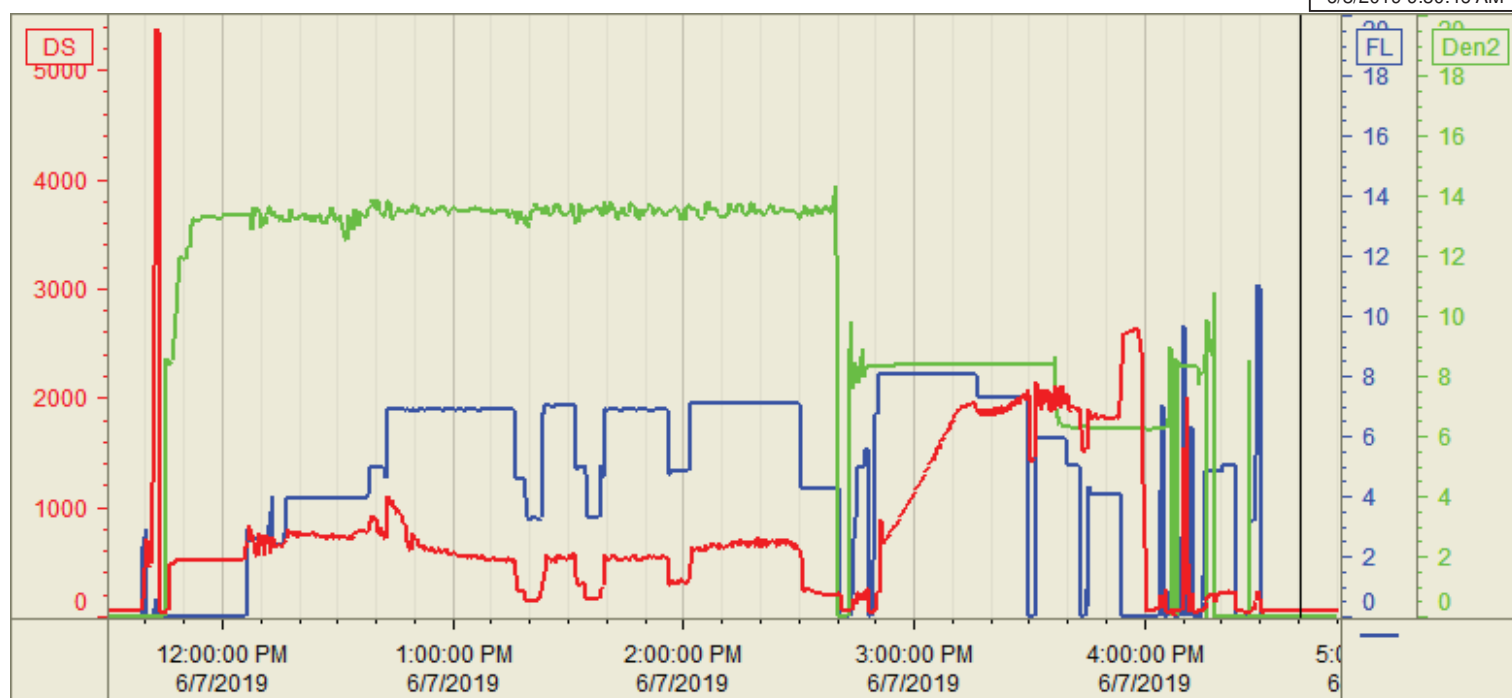
25	06/07/2019 14:20	Pump Tail Cement	13.5000	3.00		500.00	SLOW RATE 467 BBLS OF TAIL CMT GONE TO EMPTY SILO
26	06/07/2019 14:30	End Pumping					SHUTDOWN
27	06/07/2019 14:30	Drop Top Plug					WASH LINES
28	06/07/2019 14:32	Wash Pumps and Lines					DROP PLUG
29	06/07/2019 14:39	Pump Displacement	8.3000	8.00		1800.00	1ST 10 BBLS OF DISPLACEMENT WITH RETARDER, KCL, BIOCID
30	06/07/2019 14:39	Pump Displacement	8.3000	8.00	10.00	1800.00	REST OF DISPLACEMENT WITH KCL, BIOCID
31	06/07/2019 15:18	Spacer Back-to-Surface	8.3000	7.50	299.00	2700.00	SPACER BACK TO SURFACE AT 299 BBLS GONE
32	06/07/2019 15:19	End Pumping	8.3000		300.00	0.00	SHUTDOWN SO THEY CAN SWITCH TANKS AND DIVERT SPACER
33	06/07/2019 15:20	Pump Displacement	8.3000	6.00	300.00	2500.00	CONTINUE DISPLACEMENT
34	06/07/2019 15:29	Other (See comment)	8.3000	5.00	350.00	2500.00	SLOW RATE TO 5 BPM
35	06/07/2019 15:32	Cement Back-to-Surface	8.3000	5.00	379.00	2500.00	CEMENT BACK TO SURFACE AT 379 BBLS GONE
36	06/07/2019 15:32	End Pumping	8.3000	0.00	379.00	0.00	SHUTDOWN SO THEY CAN SWITCH TANKS AND DIVERT CEMENT
37	06/07/2019 15:34	Pump Displacement	8.3000	4.00	379.00	2500.00	CONTINUE DISPLACEMENT
38	06/07/2019 15:43	Land Plug	8.3000	4.00	404.00	3641.00	BUMP PLUG AT 2500 PSI AND TOOK UP TO 3641
39	06/07/2019 15:47	Check Floats					FLOATS HOLDING / 5 BBLS BACK
40	06/07/2019 15:50	Rig Up					RIG UP TO WASH RIG'S STACK
41	06/07/2019 16:05	Other (See comment)					WASH RIG'S STACK
42	06/07/2019 16:20	End Pumping					END JOB / FULL RETURNS ENTIRE JOB / 80 BBLS SPACER BACK / 25 BBLS CEMENT BACK
43	06/07/2019 16:20	STEACS Briefing					STEACS BRIEFING
44	06/07/2019 16:30	Rig Down					RIG DOWN
45	06/07/2019 17:30	Leave Location					CREW LEAVE LOCATION

Customer: Bayswater & Exploration
Well Number: N-27-28HC
Lease Info: G & D Hanks



Print Date/Time

6/8/2019 9:30:46 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	65	6/7/2019 4:40:36 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	0 i.	6/7/2019 4:40:29 PM i.	Cementer\DENSITY_ACTUAL_RATE
3	Combined Pump Rate	0.00 i.	6/7/2019 4:40:29 PM i.	Cementer\Flow_Combined
4				
5				

Source: Control1 9:30:46 AM