



Bayswater Exploration & Production, LLC

COT EAST T-30-29HC

API # 05-123-50415

Production

January 02, 2020

Quote #: QUO-40683-Q1N2V9

Execution #: EXC-23619-G1N1N202



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) 365-9038 | jason.creel@bjsservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007
Phone: (307) 459-6487

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

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Aldo Espinoza Galindo	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Trevor Smith	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	8.50	0.00	0.00	15,664.00	7,450.00	5.00
Previous Casing	8.92	9.63	36.00	1,550.00	1,550.00	
Casing	4.78	5.50	20.00	15,648.00	7,450.00	

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	15,627.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	12640.00
Top Plug Size	5.500	Max Casing Pressure - Operated (psi)	5000.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	165.00	Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	BTC
Landing Collar Depth (ft)	15,627	Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	10.00
Circulation Prior to Job	Yes	PV Mud In	14
Circulation Time (min)	240.00	YP Mud In	8
Circulation Rate (bpm)	5.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	1200.00	Flare Prior to / during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	24.00	Slurry Cement Temperature (°F)	60.00
Mix Water Temperature (°F)	60.00	Flow Line Temperature (°F)	64.00

Client: Bayswater Exploration & Production, LLC

Well: COT EAST #T-30-29HC

Well API: 05-123-50415

Start Date: 1/2/2020

End Date: 1/2/2020



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	Dye Flush	8.3300			0.00				2.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	12.0000			0.00				28.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	11.5000			0.00				26.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	11.0000			0.00				26.0000
Lead Slurry	BJCem P100.3.01C	13.2000	1.8295	9.87	0.00	6,920.00	935	1711.0000	304.7000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4774	7.45	6,920.00	8,721.00	1420	2098.0000	373.6000
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	336.0000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	Dye Flush	DYE,LIQUID,BLUE	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.1000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	IntegraCare EC-2	3.0000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.7000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-66	0.5000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	RETARDER, SR-61L	0.1000	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	27.00
Calculated Displacement Vol (bbls)	346.90	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	346.00	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	3.50
Bump Plug Pressure (psi)	3000.00	Total Volume Pumped (bbls)	1107.30
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

BJ Cementing Event Log

Long String - Cheyenne, WY - Aldo Espinoza Galindo

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	01/01/2020 19:59	Depart for Location					
2	01/01/2020 20:00	Arrive on Location					On location
3	01/01/2020 21:30	Rig Up					Rig equipment up
4	01/02/2020 00:15	Pressure Test	8.3400	0.20	0.20	6000.00	Pressure test pumping lines to 6000 psi
5	01/02/2020 00:20	Pump Spacer	12.0000	5.00	80.00	380.00	Pump 28 bbl @ 12#/ 26 bbl @ 11.5#/ and 26 bbl @ 11# with surfactants
6	01/02/2020 00:42	Pump Lead Cement	13.2000	5.00	304.70	380.00	Pump 304.7 bbl/ 935 sk/ of lead cement @ 13.2#/ yield 1.82 and water 9.87
7	01/02/2020 01:44	Pump Tail Cement	13.5000	5.00	373.60	380.00	Pump 373.6 bbl / 1420 sk/ of tail cement @ 13.5# / yield 1.47 / water 7.45
8	01/02/2020 03:20	Drop Top Plug					Drop plug, wash pumping lines to pit
9	01/02/2020 03:25	Pump Displacement	8.3400	5.00	10.00	80.00	Start pumping displacement with 10 bbl of water retarder
10	01/02/2020 03:33	Pump Displacement	8.3400	7.00	40.00	620.00	50 bbl on to displacement 620 psi
11	01/02/2020 03:43	Pump Displacement	8.3400	7.00	50.00	1160.00	100 bbl on to displacement 1160 psi
12	01/02/2020 03:51	Pump Displacement	8.3400	7.00	50.00	1800.00	150 bbl on to displacement 1800 psi
13	01/02/2020 04:00	Pump Displacement	8.3400	7.00	50.00	2200.00	200 bbl on to displacement 2200 psi
14	01/02/2020 04:09	Pump Displacement	8.3400	7.00	50.00	2450.00	250 bbl on to displacement 2450 psi
15	01/02/2020 04:16	Pump Displacement	8.3400	7.00	50.00	2450.00	300 bbl on to displacement 2450 psi
16	01/02/2020 04:21	Pump Displacement	8.3400	4.00	20.00	2130.00	320 bbl on to displacement 2130 psi, slow down to land plug
17	01/02/2020 04:30	Land Plug	8.3400	4.00	26.00	2100.00	Bump plug from 2100 to 3000 psi, hold for 3 minutes
18	01/02/2020 04:33	Check Floats				3000.00	Check floats, 3.5 bbl back, 27 bbl of cement back to surface, and 80 bbl of spacer
19	01/02/2020 04:34	Rig Down					Rig equipment down
20	01/02/2020 05:30	Leave Location					Leave location thanks.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT EAST #T-30-29HC / 05-123-50415

Well 15664
MD:



Quote #: QUO-40683-Q1N2V9

Plan #: ORD-23619-G1N1N2

Execution #: EXC-23619-G1N1N202



JobMaster Program Version 4.02C1
Job Number:
Customer: BAYSWATER EXPLORATION
Well Name: COT EAST # T-30-29HC

BAYSWATER

