



Bayswater Exploration & Production LLC LONG STRING POST JOB REPORT

**Topaz West #3 05-123-51548
S:6 T:7N R:65W Weld CO**

CallSheet #: 81844
Proposal #: 60395



LONG STRING Post Job Report

Attention: Trevor Smith | (720) 335-9045 | trevor.smith@iptenergyservices.com
Bayswater Exploration & Production LLC
730 17TH STREET | DENVER, CO 80202

Dear Trevor Smith,

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

Sincerely,

Jason Creel

Field Engineer Lead | (307) 256-0306 | jason.creel@americancementing.com

Field Office 1716 E Allison Rd, Cheyenne, WY 82007
Phone: (307) 414-0049

Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	0	1550	0
Open Hole	Outer		8.5		1550	17855	5
Casing	Inner	5.5	4.778	20	0	17834	0

Equipment / People

Unit Type	Unit
Field Storage Silo	FSS(CTS)-449
Field Storage Silo	FSS(CTS)-459
Field Storage Silo	FSS(CTS)-441
AS Cement Trailer Float	CTF(FUF)-308
AS Cement Trailer Float	CTF(FTF)-031
AS Cement Trailer Float	CTF-9054
Cement Trailer Float	CTF-193
Cement Trailer Float	CTF-001
AS Cement Trailer Float	CTF-018
AS Cement Trailer Float	CTF-021
Light Duty Vehicles	LDV-047
Cement Pump Float	CPF-183

Timing

Event	Date/Time
Call Out	6/11/2022 10:00
Depart Facility	6/11/2022 12:00
On Location	6/11/2022 14:00
Rig Up Iron	6/11/2022 14:30
Job Started	6/11/2022 18:06
Job Completed	6/11/2022 21:48
Rig Down Iron	6/11/2022 22:30
Depart Location	6/12/2022 01:00

General Job Information

Metrics	Value
Well Fluid Density	10.1 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	2360 bbls
Rig Circulation Time	3 hours
Calculated Displacement	395.3 bbls
Actual Displacement	395.3 bbls
Total Spacer to Surface	80 bbls
Total CMT to Surface	8 bbls
Well Topped Out	No

Casing Equipment

Type	Description	Qty
CENTRALIZER,5-1/2"NON-WELD	Bowstring	212

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	10.1 lb/gal
Well Fluid Density Out of Well	10.1 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	225 °F
BHST	225 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	65 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	180	0-1000
Total Hardness	125 mg/L	0-500 mg/L
Carbonates	140 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	450 mg/L	0-3000 mg/L
Iron	0.15 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced
No

Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	EZ Spacer II	Spacer	12.00			28.21		40.00	0
2	EZ Spacer II	Spacer	11.50			28.21		20.00	0
3	EZ Spacer II	Spacer	11.00			28.21		20.00	0
4	ACem P100.3.01C	Lead	13.20	1.79	9.36		1015.00	323.32	0
5	ACem P50.6.02C	Tail	13.50	1.50	7.57		1690.00	452.65	7348
6	Retarded Water + Chems	Displacement	8.37			41.43		10.00	17389
7	Water + Chems	DisplacementFinal	8.37			41.53		385.30	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	Spacer	EZ Spacer II	FLY ASH (POZZOLAN)	Extender	256.50	lb/bbl
1	Spacer	EZ Spacer II	GW-86	Viscosifier	1.20	lb/bbl
1	Spacer	EZ Spacer II	R-31	Retarder	0.50	lb/bbl
1	Spacer	EZ Spacer II	R-7C	Retarder	2.00	lb/bbl
1	Spacer	EZ Spacer II	Surfactant, S-801c	Surfactant	1.00	gal/bbl
2	Spacer	EZ Spacer II	FLY ASH (POZZOLAN)	Extender	256.50	lb/bbl
2	Spacer	EZ Spacer II	GW-86	Viscosifier	1.20	lb/bbl
2	Spacer	EZ Spacer II	R-31	Retarder	0.50	lb/bbl
2	Spacer	EZ Spacer II	R-7C	Retarder	2.00	lb/bbl
2	Spacer	EZ Spacer II	Surfactant, S-801c	Surfactant	1.00	gal/bbl
3	Spacer	EZ Spacer II	FLY ASH (POZZOLAN)	Extender	256.50	lb/bbl
3	Spacer	EZ Spacer II	GW-86	Viscosifier	1.20	lb/bbl
3	Spacer	EZ Spacer II	R-31	Retarder	0.50	lb/bbl
3	Spacer	EZ Spacer II	R-7C	Retarder	2.00	lb/bbl
3	Spacer	EZ Spacer II	Surfactant, S-801c	Surfactant	1.00	gal/bbl
4	Lead	ACem P100.3.01C	ASTM TYPE III	Cement	70.00	%
4	Lead	ACem P100.3.01C	FLY ASH (ROCKIES)	Extender	30.00	%
4	Lead	ACem P100.3.01C	BA-90	BondEnhancer	3.00	lb/sk
4	Lead	ACem P100.3.01C	BENTONITE	Viscosifier	4.00	%BWOB
4	Lead	ACem P100.3.01C	EC-2	BondEnhancer	3.00	%BWOB
4	Lead	ACem P100.3.01C	FL-24	FluidLoss	0.20	%BWOB
4	Lead	ACem P100.3.01C	FL-66	FluidLoss	0.30	%BWOB
4	Lead	ACem P100.3.01C	FP-24	Defoamer	0.30	%BWOB

Fluid	Type	Fluid	Product	Function	Conc.	Uom
4	Lead	ACem P100.3.01C	GW-86	Viscosifier	0.05	%BWOB
4	Lead	ACem P100.3.01C	SR-20	Retarder	0.20	%BWOB
5	Tail	ACem P50.6.02C	CLASS G	Cement	50.00	%
5	Tail	ACem P50.6.02C	FLY ASH (ROCKIES)	Extender	50.00	%
5	Tail	ACem P50.6.02C	BENTONITE	Viscosifier	4.00	%BWOB
5	Tail	ACem P50.6.02C	FL-24	FluidLoss	0.20	%BWOB
5	Tail	ACem P50.6.02C	FP-24	Defoamer	0.30	%BWOB
5	Tail	ACem P50.6.02C	GW-86	Viscosifier	0.10	%BWOB
5	Tail	ACem P50.6.02C	SR-20	Retarder	0.15	%BWOB
5	Tail	ACem P50.6.02C	STATIC FREE	Other	0.01	lb/sk
6	Displacement	Retarded Water + Chems	BIOCIDE,BIOC11139W	Biocide	0.01	gal/bbl
6	Displacement	Retarded Water + Chems	CI-27	Other	0.21	gal/bbl
6	Displacement	Retarded Water + Chems	OXYGEN SCAVENGER, OS-30	Other	0.17	gal/bbl
6	Displacement	Retarded Water + Chems	ResCare CS-2	ClayProtection	0.08	gal/bbl
6	Displacement	Retarded Water + Chems	SR-61L	Retarder	0.10	gal/bbl
7	DisplacementFinal	Water + Chems	BIOCIDE,BIOC11139W	Biocide	0.01	gal/bbl
7	DisplacementFinal	Water + Chems	CI-27	Other	0.21	gal/bbl
7	DisplacementFinal	Water + Chems	OXYGEN SCAVENGER, OS-30	Other	0.17	gal/bbl
7	DisplacementFinal	Water + Chems	ResCare CS-2	ClayProtection	0.08	gal/bbl

Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Call Out	6/11/2022	10:00					Customer requested for Crew to be On Location at 16:00
2	Depart Yard	6/11/2022	12:00					AC Crew has Journey Management and Departs from Shop
3	Arrive on Location	6/11/2022	14:00					AC Crew Arrives on Location and Meets with Company Representative
4	Safety Meeting	6/11/2022	14:15					AC Crew has Safety Meeting over Spotting Trucks and Rigging Up Iron
5	Rig Up Iron	6/11/2022	14:30					AC Crew Rigs Up Iron and Hoses
6	Waiting Time	6/11/2022	16:00					Waiting on Rig to Finish Circulating
7	Safety Meeting	6/11/2022	17:30					AC Crew has Safety Meeting with Rig Crew and Company Representative Over Job and Hazards
8	Fill Lines	6/11/2022	18:06	8.34	4	3	300	Fill Pump and Lines
9	Pressure Test	6/11/2022	18:08	8.34	0.5	0.5	5030	Pressure Test Iron and Values 5030 PSI
10	Pump Spacer	6/11/2022	18:20	12	5	40	400	Pump 40 bbls of EZ II Spacer at 12 PPG
11	Pump Spacer	6/11/2022	18:28	11.5	5	20	350	Pump 20 bbls of EZ II Spacer at 11.5 PPG
12	Pump Spacer	6/11/2022	18:32	11	5	20	350	Pump 20 bbls of EZ II Spacer at 11 PPG
13	Pump Lead Cement	6/11/2022	18:35	13.2	8	202	1000	Pumped 323.6 bbls of Lead Cement at 13.2 PPG (1015 Sks, 1.79 Yield, 9.36 Gal/Sk)
14	Rate Change	6/11/2022	19:00	13.2	5	278	500	Slowed Rate Down to 5 BPM due to poor Delivery Out of Silo 449
15	Rate Change	6/11/2022	19:14	13.2	2	290	100	Slowed Rate Down to 2 BPM due to poor Delivery Out of Silo 449 to finish Lead Cement / Pump Total of 323 bbls of Lead Cement
16	Pump Tail Cement	6/11/2022	19:21	13.5	8	0	500	Pumped 472 bbls of Tail Cement at 13.5 PPG (1690 Sks, 1.50 Yield, 7.57 Gal/Sk)
17	Rate Change	6/11/2022	19:48	13.5	6	216	400	Slowed Rate to 6 BPM to finish Tail Cement / Pumped at Total of 470 bbls of Tail Cement
18	Shutdown	6/11/2022	20:23					Shutdown / Drop Low Pressure Plug / Wash Pump and Lines to Pit
19	Displacement	6/11/2022	20:35	8.34	5	0	100	Pumped First 5 bbls of Fresh Water Displacement with SR-61L
20	Shutdown	6/11/2022	20:38					Shutdown / Drop High Pressure Plug
21	Displacement	6/11/2022	20:42	8.34	5	10	200	Finished Pumping first 10 bbls of Fresh Water Displacement with SR-61L
22	Rate Change	6/11/2022	20:44	8.34	8	15	300	Increased Rate on Displacement to 8 BPM
23	Spacer to Surface	6/11/2022	21:22	8.34	8	302	2800	At 302 bbls Away into Fresh Water Displacement got Spacer to Surface
24	Shutdown	6/11/2022	21:23					Shutdown to Swap Returns to 3 Sided Tank
25	Displacement	6/11/2022	21:25	8.34	7	303	2900	Continued Displacement
26	Rate Change	6/11/2022	21:36	8.34	3	370	2200	Slowed Rate at 370 Away into Displacement to Burst Plugs
27	Bursted 1st Plug	6/11/2022	21:40	8.34	3	385	3400	1st Plug Bursted at 3400 PSI
28	Cement to Surface	6/11/2022	21:41	8.34	3	387	2600	At 387 bbls Away into Fresh Water Displacement got Cement to Surface / Total of 8 bbls of Cement to Surface
29	Bursted 2nd Plug	6/11/2022	21:43	8.34	4	395	4200	At 395 bbls Away into Displacement / Bursted 2nd Plug at 4200 PSI
30	Shutdown	6/11/2022	21:43			395.3		Pumped a Total of 395.3 bbls of Fresh Water Displacement with Chems
31	Check Floats	6/11/2022	21:48					Checked Floats / Floats Held 3 bbls Back



Topaz West #3 API# 05-123-51548
LONG STRING Post Job

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
32	Rig Down Iron	6/11/2022	22:30					AC Crew Rigged Down Treating Lines and Equipment
33	Depart Location	6/12/2022	01:00					AC Crew Departs Location

Pump Diagrams

