Bayswater Exploration & Production LLC
LONG STRING POST JOB REPORT

Topaz East #16 05-123-51541
S:6 T:7N R:65W Weld CO

CallSheet #: 81146
Proposal #: 59443

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	1558	0
Open Hole	Outer		8.5		1567	17652	7
Casing	Inner	5.5	4.778	20	0	17642	0
Casing	Inner	5.5	4.67	23		3345	

Equipment / People

Unit Type	Unit
Field Storage Silo	FSS(CTS)-449
Field Storage Silo	FSS(CTS)-459
Field Storage Silo	FSS(CTS)-454
AS Cement Trailer Float	CTF(FUF)-308
AS Cement Trailer Float	CTF-018
AS Cement Trailer Float	CTF(FTF)-031
AS Cement Trailer Float	CTF-9054
Cement Trailer Float	CTF-001
Cement Trailer Float	CTF-338
Cement Trailer Float	CTF-202

Timing

Event	Date/Time
Call Out	4/27/2022 11:00
Depart Facility	4/27/2022 15:30
On Location	4/27/2022 16:30
Rig Up Iron	4/27/2022 16:45
Job Started	4/27/2022 19:38
Job Completed	4/27/2022 23:15
Rig Down Iron	4/28/2022 00:20
Depart Location	4/28/2022 02:00

General Job Information

Metrics	Value
Well Fluid Density	9.9 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	1440 bbls
Rig Circulation Time	3 hours
Calculated Displacement	387.7 bbls
Actual Displacement	378 bbls
Total Spacer to Surface	80 bbls

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	9.9 lb/gal
Well Fluid Density Out of Well	9.9 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	225 °F
BHST	225 °F

Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	60 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	1600 mg/L	0-3000 mg/L
Total Alkalinity	400	0-1000
Total Hardness	200 mg/L	0-500 mg/L
Carbonates	50 mg/L	0-100 mg/L
Sulfates	1200 mg/L	0-1500 mg/L
Potassium	1500 mg/L	0-3000 mg/L
Iron	100 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			29.94		40.00	0
2	EZ Spacer II	Spacer	12.00			29.94		20.00	0
3	EZ Spacer II	Spacer	12.00			29.94		20.00	0
4	ACem P100.3.01C	Lead	13.20	1.79	9.37		980.00	312.89	0
5	ACem P50.6.02C	Tail	13.50	1.51	7.59		1735.00	465.78	7001
6	Retarded Water + Chems	Displacement	8.37			41.43		10.00	17219
7	Water + Chems	DisplacementFinal	8.37			41.53		382.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	Spacer	EZ Spacer II	WEIGHTING ADDITIVE, W-11	Heavyweight	239.52	lb/bbl
1	Spacer	EZ Spacer II	ASA-301	Viscosifier	3.80	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	WEIGHTING ADDITIVE, W-11	Heavyweight	239.52	lb/bbl
2	Spacer	EZ Spacer II	ASA-301	Viscosifier	3.80	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	WEIGHTING ADDITIVE, W-11	Heavyweight	239.52	lb/bbl
3	Spacer	EZ Spacer II	ASA-301	Viscosifier	3.80	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	ASA-301	Viscosifier	0.30	%BWOB
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

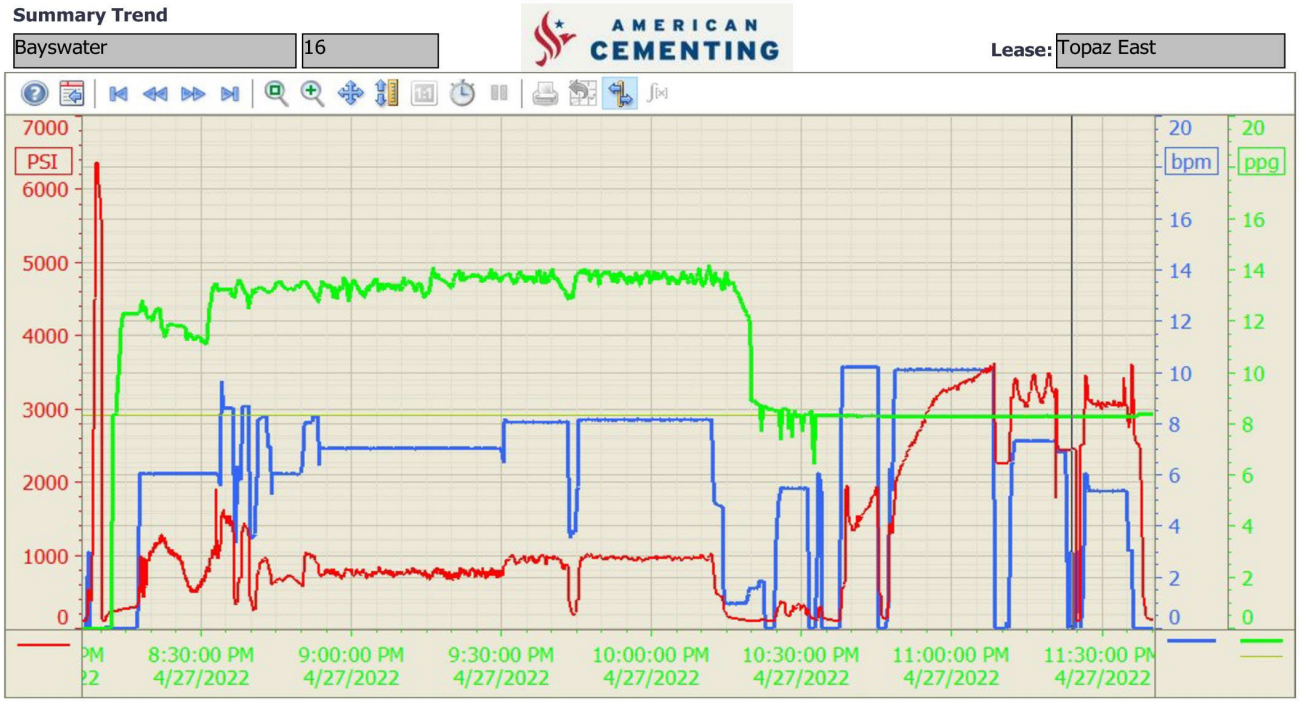
Fluid	Type	Fluid	Product	Function	Conc.	Uom
4	Lead	ACem P100.3.01C	FP-24	Defoamer	0.30	%BWOB
4	Lead	ACem P100.3.01C	SR-20	Retarder	0.25	%BWOB
5	Tail	ACem P50.6.02C	CLASS G	Cement	50.00	%
5	Tail	ACem P50.6.02C	FLY ASH (ROCKIES)	Extender	50.00	%
5	Tail	ACem P50.6.02C	ASA-301	Viscosifier	0.30	%BWOB
5	Tail	ACem P50.6.02C	BENTONITE	Viscosifier	4.00	%BWOB
5	Tail	ACem P50.6.02C	FL-66	FluidLoss	0.20	%BWOB
5	Tail	ACem P50.6.02C	FP-24	Defoamer	0.30	%BWOB
5	Tail	ACem P50.6.02C	SR-20	Retarder	0.13	%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	callout	4/27/2022	11:00					crew called out to location
2	on location	4/27/2022	16:30					on location, spot equipment
3	rig up	4/27/2022	16:45					rig up equipment
4	safery meeting	4/27/2022	19:16					safety meeting with company man and rig crew
5	pressure test	4/27/2022	19:38	8.34	0.2	0.2	5000	pressure test lines to 5000 psi
6	spacer	4/27/2022	19:44	12	6	28	994	28 bbl spacer @ 12 # w/surfactants
7	spacer	4/27/2022	19:48	11.5	6	26	990	26 bbl spacer @ 11.5 # w/surfactants
8	spacer	4/27/2022	19:53	11	6	26	980	26 bbl spacer @ 11 # w/surfactants, total spacer pumped 80 bbl / wet and dry samples taken and weight verified
9	lead cement	4/27/2022	19:58	13.2	6	313	1180	lead cement, start at 6 bpm walking it up to 8 bpm until line up to 7 bpm to keep dencity, 980 sk / 313 bbl slurry / 218 bbl mix water / dry and wet samples taken and weight verified
10	tail cement	4/27/2022	20:43	13.5	7	465.8	800	tail cement: 1735 sk / 465.8 bbl slurry / 313 bbl mix water / wet and dry samples taken and weight verified
11	tail cement	4/27/2022	21:10	13.5	3		600	slow down to keep density
12	tail cement	4/27/2022	21:12	13.5	6		800	back to rate
13	tail cement	4/27/2022	21:40	13.5	4	445	780	slow down at the end of tail to empty silos
14	wash lines / load plug	4/27/2022	21:49					shutdown / wash pumping lines to pit / load bottom plug
15	pumnp bottom pug	4/27/2022	21:53	8.34	4	5	250	pump away bottom plug with 5 bbl sugar water
16	shutdown	4/27/2022	21:56					shutdown / load top plug
17	top plug	4/27/2022	21:58	8.34	4	5	1000	pump top plug with another 5 bbl sugar water and continue with displacement with chemicals
18	displacement	4/27/2022	22:07	8.34	10	20	1500	20 bbl away, 1500 psi at 10 bpm
19	displacement	4/27/2022	22:10	8.34	10	50	1900	50 bbl away on displacement, 1900 psi at 10 bpm
20	shutdown	4/27/2022	22:13			67		67 bbl on displacement, pop up valve started leaking, shutdown to replace it
21	back on line	4/27/2022	22:14	8.34	10		2000	back to rate
22	displacement	4/27/2022	22:19	8.34	10	100	2200	100 bbl away on displacement, 2200 psi at 10 bpm
23	displacement	4/27/2022	22:21	8.34	10	120	2800	120 away on displacement, 2800 psi at 10 bpm
24	displacement	4/27/2022	22:24	8.34	10	150	3000	150 bbl on displacement, 3000 psi at 10 bpm
25	displacement	4/27/2022	22:27	8.34	10	180	3200	180 bbl on displacement, 3200 psi at 10 bpm
26	displacement	4/27/2022	22:29	8.34	10	200	3300	200 bbl on displacement, 3300 psi at 10 bpm
27	displacement	4/27/2022	22:32	8.34	10	230	3500	230 bbl on displacement, 3500 psi at 10 bpm
28	displacement	4/27/2022	22:34	8.34	10	250	3800	250 bbl on displacement, 3800 psi at 10 bpm
29	displacement	4/27/2022	22:35	8.34		255		255 bbl away on displacement, interface to surface, shutdown to have rig swap over to pit
30	displacement	4/27/2022	22:38	8.34	7	255	3200	start pumping again 3200 psi at 7 bpm
31	displacement	4/27/2022	22:42	8.34		300	3000	300 bbl on displacement, 3000 psi at 7 bpm
32	displacement	4/27/2022	22:46	8.34				pump lost prime, shutdown to re-prime and continue with displacement
33	burst bottom plug	4/27/2022	23:01	8.34	3	273	4000	busrt bottom plug, take 4000 psi, pump 5 more bbl water
34	burst top plug	4/27/2022	23:03	8.34	3	278	4500	burst top plug, take 4500 psi shutdown,
35	check floats	4/27/2022	23:05					check floats, holding and 3.5 bbl back

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
36	wash stack pipe	4/27/2022	23:20					pump 20 bbl water to wash stack pipe
37	rig down	4/28/2022	00:20					rig down equipment
38		4/28/2022	00:00					28 bbl of cement back to surface

Pump Diagrams



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