



Bayswater Exploration & Production LLC LONG STRING POST JOB REPORT

**DEHAAN #6X-HNC-16-07-65 05-123-49460
S:17 T:7N R:65W Weld CO**

CallSheet #: 85662
Proposal #: 66718



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,

Aimee Sankovich

Field Engineer I | (307) 689-0323 | aimee.sankovich@americacementing.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	1921	0
Open Hole	Outer		8.5		1921	17265	5
Casing	Inner	5.5	4.778	20	0	17255	0

Equipment / People

Unit Type	Unit
Field Storage Silo	FSS-448
Field Storage Silo	FSS-461
Field Storage Silo	FSS-436
Cement Trailer Float	CTF-009
Cement Utility Float	CUF-163
Cement Pump Float	CPF-184
Tractors	TRC-731

Timing

Event	Date/Time
Call Out	2/6/2023 13:30
Depart Facility	2/6/2023 16:00
On Location	2/6/2023 18:00
Rig Up Iron	2/6/2023 19:00
Job Started	2/6/2023 21:58
Job Completed	2/7/2023 01:25
Rig Down Iron	2/7/2023 01:30
Depart Location	2/7/2023 03:30

General Job Information

Metrics	Value
Well Fluid Density	10 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	1700 bbls
Rig Circulation Time	2.5 hours
Calculated Displacement	382 bbls
Actual Displacement	382 bbls
Total Spacer to Surface	80 bbls
Total CMT to Surface	10 bbls

Casing Equipment

Type	Description	Qty
CENTRALIZER,5-1/2"NON-WELD	Matrix	207

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	700 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 lb/gal
Well Fluid Density Out of Well	10 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	225 °F
BHST	225 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	50 °F	50-80 °F
pH Level	8	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 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					40.00	0
2	EZ Spacer II	Spacer	11.50					20.00	0
3	EZ Spacer II	Spacer	11.00					20.00	0
4	Lead	Lead	13.20	1.79	9.27		930.00	296.96	0
5	Tail	Tail	13.50	1.50	7.57		1700.00	455.29	6665
6	Retarded Water + Chems	Displacement	8.37			41.43		10.00	16745
7	Water + Chems	DisplacementFinal	8.37			41.53		372.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	Spacer	EZ Spacer II	WEIGHTING ADDITIVE, W-11	Heavyweight	242.31	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	WEIGHTING ADDITIVE, W-11	Heavyweight	242.31	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	WEIGHTING ADDITIVE, W-11	Heavyweight	242.31	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	Lead	ASTM TYPE IL	Cement	70.00	%
4	Lead	Lead	FLY ASH (ROCKIES)	Extender	30.00	%
4	Lead	Lead	BENTONITE	Viscosifier	2.00	%BWOB
4	Lead	Lead	EC-2	BondEnhancer	3.00	%BWOB
4	Lead	Lead	FL-24	FluidLoss	0.20	%BWOB
4	Lead	Lead	FL-66	FluidLoss	0.30	%BWOB
4	Lead	Lead	FP-24	Defoamer	0.30	%BWOB
4	Lead	Lead	GW-86	Viscosifier	0.10	%BWOB
4	Lead	Lead	SR-20	Retarder	0.20	%BWOB
4	Lead	Lead	XCem-1008	Extender	7.00	lb/sk
5	Tail	Tail	CLASS G	Cement	50.00	%
5	Tail	Tail	FLY ASH (ROCKIES)	Extender	50.00	%
5	Tail	Tail	BENTONITE	Viscosifier	4.00	%BWOB
5	Tail	Tail	FL-24	FluidLoss	0.20	%BWOB
5	Tail	Tail	FP-24	Defoamer	0.30	%BWOB
5	Tail	Tail	GW-86	Viscosifier	0.10	%BWOB
5	Tail	Tail	SR-20	Retarder	0.12	%BWOB
5	Tail	Tail	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	2/6/2023	13:30					ACC called out requested ONL of 18:30
2	Depart Shop	2/6/2023	16:00					ACC has journey management and departs from shop
3	Arrive On Location	2/6/2023	18:00					ACC arrives on location and meet with customer
4	Safety Meeting	2/6/2023	18:45					ACC has safety meeting over rigging up iron and hoses
5	Rig Up iron	2/6/2023	19:00					ACC rigs up iron and hoses
6	Safety Meeting	2/6/2023	21:35					ACC has safety meeting with rig crew and company man over job and hazards
7	Fill Lines	2/6/2023	21:58	8.33	3	5	300	Fill pumps and lines with 5 bbls
8	Pressure Test	2/6/2023	22:00	8.33	0.5	0.5	4955	Pressure test iron and head to 5000 PSI
9	Pump Spacer	2/6/2023	22:06	12	5	40	500	Pump 40 bbls of 12 PPG spacer
10	Pump Spacer	2/6/2023	22:10	11.5	5	20	450	Pump 20 bbls of 11.5 PPG spacer
11	Pump Spacer	2/6/2023	22:14	11	5	20	400	Pump 20 bbls of 11 PPG spacer
12	Pump Lead Cement	2/6/2023	22:15	13.2	7		800	Pump 297 bbls of 13.2 PPG Lead Cement 7 bpm (930 Sks, 1.79 Yield, 9.27 Gals/Sks)
13	Pump Lead Cement	2/6/2023	22:30	13.2	7	100	650	100 bbls into lead cement
14	Pump Lead Cement	2/6/2023	22:44	13.2	7	200	550	200 bbls into lead cement
15	Swap To Tail Cement	2/6/2023	23:06			297		297 bbls into lead cement swap over to 13.5 tail cement
16	Pump Tail Cement	2/6/2023	23:08	13.5	7		400	Pump 455.3 bbls of 13.5 PPG Tail Cement 7 bpm (1700 Sks, 1.50 Yield, 7.57 Gals/Sks)
17	Pump Tail Cement	2/6/2023	23:22	13.5	7	100	430	100 bbls into tail cement
18	Pump Tail Cement	2/6/2023	23:37	13.5	7	200	450	200 bbls into tail cement
19	Pump Tail Cement	2/6/2023	23:52	13.5	7	300	358	300 bbls into tail cement
20	Pump Tail Cement	2/6/2023	00:06	13.5	7	400	400	400 bbls into tail cement
21	Shut Down	2/7/2023	00:21			455.3		Shut down pump total of 455.3 bbls of 13.5 tail cement
22	Wash Pumps And Lines	2/7/2023	00:23	8.33	4	15	45	Wash pumps and lines
23	Drop Plug	2/7/2023	00:29	8.33				Drop top plug
24	Pump Displacement	2/7/2023	00:29	8.33	10		800	Pump 382 bbls of fresh water displacement
25	Pump Displacement	2/7/2023	00:41	8.33	10	100	1600	100 bbls into displacement
26	Pump Displacement	2/7/2023	00:52	8.33	10	200	2600	200 bbls into displacement
27	Shut Down	2/7/2023	01:05			296	2052	296 bbls into displacement shut down got spacer to surface swap to 3 way tank
28	Pump Displacement	2/7/2023	01:07	8.33	6	300	2955	300 bbls into displacement
29	Slow Rate	2/7/2023	01:14	8.33	3	360	3060	360 bbls into displacement slow rate last 20
30	Cement To Surface	2/7/2023	01:16	8.33	3	372	2850	372 bbls into displacement got cement to surface for total of 10 bbls of cement to surface



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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
31	Land Plug	2/7/2023	01:22	8.33		382	3220	Bump plug to 3220 PSI FCP of 2450 PSI total displacement of 382 bbls
32	Check Floats	2/7/2023	01:25					Hold 3 mins got 4 bbls back floats holding
33	Safety Meeting	2/7/2023	01:30					ACC has safety meeting over rigging down iron and hoses
34	Rig Down Iron	2/7/2023	02:00					ACC rigs down iron and hoses
35	Depart Location	2/7/2023	03:30					ACC has journey management and departs location

Pump Diagrams

Customer: Bayswater
Well Number: 6X HNC
Lease Info: Dehaan

Print Date/Time

2/7/2023 3:04:14 AM

