



Great Western Operating Company, LLC

TOP OUT POST JOB REPORT

JOB PURPOSE: TOP OUT

Tower LD 19-142HN 05-001-10301
S:21 T:1S R:67W Adams CO

CallSheet #: 75367
Proposal #: 50658



Attention: Great Western Operating Company LLC,
Great Western Operating Company, LLC
1001 17TH STREET, SUITE 2000 | DENVER, CO 80202

Dear Great Western Operating Company LLC,

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 | (307) 256-0306 | Jason.creel@americancementing.com

Field Office 1716 E Allison Rd, Cheyenne, WY 82007
Phone: (307) 638-5585



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1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer	n/a	13.5	n/a	0	2002	0
Casing	Inner	9.625	8.921	36	0	2002	0

1.2 Timing

Event	Date/Time
Call Out	11/5/2020 07:00
Depart Facility	11/5/2020 07:30
On Location	11/5/2020 08:00
Rig Up Iron	11/5/2020 12:05
Job Started	11/5/2020 12:43
Job Completed	11/5/2020 13:15
Rig Down Iron	11/5/2020 13:45
Depart Location	11/5/2020 14:30

1.3 Casing Equipment

Type	Description	Qty	MD	TVD
Bow Spring Centralizers	9.625"	19		
Landing/Float Collar	9.625"	1	1958	1957
Float Shoe	9.625"	1	2002	2002

• 1.3.1 Casing Equipment-Centralizer Depths

Surface Centralizers, 40.47, 82.57, 124.67, 250.96, 377.21, 502.38, 626.98, 751.56, 876.17, 1000.77, 1124.64, 1249.29, 1373.91, 1498.54, 1623.16, 1748.89, 1874.65, 1916.2, 1985.8

1.4 General Job Information

Metrics	Value
Well Fluid Density	8.3 lb/gal
Well Fluid Type	Water
Total CMT to Surface	5 bbls
Well Topped Out	Yes
Top Out Volume	27 bbls

1.5 Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	8.4 lb/gal
Well Fluid Density Out of Well	8.4 lb/gal

1.6 Job Details (cont.)

Metrics	Value
BHCT	86 °F
BHST	110 °F
Ambient Temperature	76 °F

1.7 Circulation

Lost Circulation Experienced
No

1.8 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Volume (sks)	Volume (bbl)	Volume (cu.ft)	Top (ft)
1	1	ACem S100.3.XC	Primary	14.50	1.39	6.81	110.00	27.00	152.90	0

1.9 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	1	Primary	ACem S100.3.XC	ASTM TYPE III	Cement	100.00	%
1	1	Primary	ACem S100.3.XC	STATIC FREE	Other	0.01	lb/sk

2 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	11/5/2020	07:00					Crew called out, requested on location ASAP to Top out the Well
2	Safety Meeting	11/5/2020	07:05					Talked with crew about the hazards of rigging up water bulk and iron lines.
3	Waiting	11/5/2020	12:00					Waited for wire line to log the well to find the top of cement. Note: CBL indicated TOC between 35' and 40'.
4	Rig Up Iron	11/5/2020	12:05					Crew rigged up 1 inch pipe and ran it to 37' and tagged hard cement.
5	Safety Meeting	11/5/2020	12:35					Talked with American Cementing Crew and rig Crews about the hazards of pumping the job.
6	Pump Cement	11/5/2020	12:43	14.5	1	27	115	Mix and Pump 110 sacks of ACem Cement at 14.5 lb/gal, 1.39 cuft/sk and 6.81 gals/sk from Silo 6. Got good cement returns to cellar. Shut down cement.
7	Clean Pumps and Lines	11/5/2020	13:06	8.33	1	6	100	Pump 6 bbls water to clean surface lines
8	Shutdown	11/5/2020	13:15	8.33			0	Shutdown, Well topped out with 110 sacks (27 bbls) of cement
9	Safety Meeting	11/5/2020	13:20					Talked with AC Crew about the hazards of rigging down.
10	Rig Down Iron	11/5/2020	13:25					Rig Down
11	Safety Meeting	11/5/2020	13:30					Talked with AC Crew about the hazards of driving back to the yard.
12	Depart Location	11/5/2020	13:35					Crew Departed Location.

3 Water Analysis

Metrics	Value	Recommended
Water Source	None	
Temperature	72 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	140	0-1000
Total Hardness	50 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	0 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

4 Pump Diagrams

