



# **Great Western Operating Company, LLC**

## **SURFACE POST JOB REPORT**

### **JOB PURPOSE: PRIMARY**

**Brant LE 08-359HNX 05-001-10328**  
**S:11 T:1S R:67W Adams CO**

CallSheet #: 75266  
Proposal #: 50416



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

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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@americacementing.com](mailto:Jason.creel@americacementing.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	2021	30
Casing	Inner	9.625	8.921	36	0	2021	0

## 1.2 Equipment / People

Unit Type	Unit
Pneumatic Trailer	FUF-308
Field Bin	CTF-013
Cement Pump	CPF-136
Light Duty Trailers	FIF-161

## 1.3 Timing

Event	Date/Time
Call Out	10/22/2020 03:30
Depart Facility	10/22/2020 04:00
On Location	10/22/2020 06:20
Rig Up Iron	10/22/2020 06:40
Job Started	10/22/2020 10:05
Job Completed	10/22/2020 11:57
Rig Down Iron	10/22/2020 12:30
Depart Location	10/22/2020 13:30

## 1.4 Casing Equipment

Type	Description	Qty	MD	TVD
Bow Spring Centralizers	9.625"	19		
Landing/Float Collar			1976	1975
Float Shoe			2021	2020

- 1.4.1 Casing Equipment - Centralizer Depths

Surface Centralizers, 41.5, 83.61, 125.76, 252.19, 378.55, 504.96, 631.38, 757.8, 884.19, 1010.52, 1136.77, 1263.03, 1389.32, 1515.73, 1642.03, 1767.77, 1892.75, 1934.2, 2004.8

## 1.5 General Job Information

Metrics	Value
Well Fluid Density	8.34 lb/gal
Well Fluid Type	Water
Rig Circulation Vol	240 bbls
Rig Circulation Time	30 hours
Calculated Displacement	152.8 bbls
Actual Displacement	152 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	32 bbls
Well Topped Out	No
Top Out Volume	0 bbls

### 1.6 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

### 1.7 Job Details (cont.)

Metrics	Value
BHCT	86 °F
BHST	110 °F
Ambient Temperature	35 °F

### 1.8 Circulation

Lost Circulation Experienced
No

### 1.9 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Volume (cu.ft)	Top (ft)
1	1	Fresh Water	Spacer	8.34			42.00		20.00		0
1	2	ACem S100.3.XC	Primary	14.50	1.39	6.81		930.00	230.29	1292.70	0
1	3	Fresh Water	Displacement Final	8.34			42.00		152.00		0

### 1.10 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Primary	ACem S100.3.XC	ASTM TYPE III	Cement	100.00	%

## 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	Call out	10/22/2020	03:30					Crew called out to location
2	On location	10/22/2020	06:20					Crew on location, spot equipment
3	Rig up	10/22/2020	06:40					Rig up equipment,
4	Safety meeting	10/22/2020	09:30					Safety meeting with company man and rig crew
5	Pressure test	10/22/2020	10:05	8.34	0.2	0.2	2800	Pressure test lines to 2800 psi
6	Spacer	10/22/2020	10:07	8.34	5.6	20	180	20 bbl of water spacer with blue dye
7	Slurry	10/22/2020	10:22	14.5	5.5	230.3	100	Pump slurry at 14.5 # / 930 sk / 230.3 bbl / yield 1.39 / mix water 6.81 / wet and dry samples taken and weight verified
8	Slurry	10/22/2020	10:49	14.5	4.2		120	Slow down at the end of cement to keep density
9	Drop plug	10/22/2020	10:55					Release pre-loaded plug and wash on top
10	Displacement	10/22/2020	11:00	8.34	5.6	10	120	Start displacement at 5.6 bpm and walk it up to 8 bpm, with chemicals
11	Displacement	10/22/2020	11:08	8.34	8	50	300	50 bbl on displacement, 300 psi, 8 bpm
12	Displacement	10/22/2020	11:14	8.34	8	100	630	100 bbl on displacement, 630 psi, 8 bpm
13	Displacement	10/22/2020	11:18	8.34	3	130	680	130 bbl on displacement, slow down to 3 bpm to land plug and cement back to surface
14	Land plug	10/22/2020	11:25				755	Land plug, bump from 755 psi to 1320 psi, give it a minute, walk it up to 1500 psi to pressure test casing
15	Pressure test	10/22/2020	11:26				1508	Pressure test casing for 30 min, starting at 1508 psi,
16	Pressure test	10/22/2020	11:56				1415	Ending pressure test at 1415 psi
17	Check floats	10/22/2020	11:57					Check floats, 1 bbl back

### 3 Water Analysis

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

### 4 Pump Diagrams

Well Name: BRANT LE 08-359HNX

