



---

# **Great Western Operating Company, LLC**

## **SURFACE POST JOB REPORT**

Schneider HD 11-299HNX 05-123-44683  
S:7 T:4N R:66W Weld CO

CallSheet #: 782  
Proposal #: 13228



**SURFACE Post Job Report**

**Attention:** Mr. Matt Mount | (303) 398-0373 | mmount@gwogco.com  
Great Western Operating Company, LLC  
1801 Broadway, Suite 500 | Denver, CO 80202

---

Dear Mr. Mount,

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

Sincerely,

**Oscar Medrano**

Technical Specialist-II | (307) 996-6222 | Oscar.Medrano@bjservices.com

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

**Sales Office**      475 17th St. Suite 460 Denver Co., 80202  
Phone: (303) 296-1158



Table of Contents

1 Job Details & Summary ..... 3

    1.1 Geometry ..... 3

    1.2 Equipment / People ..... 3

    1.3 Timing ..... 3

    1.4 General Job Information ..... 3

    1.5 Job Details ..... 3

    1.6 Job Details (cont.) ..... 3

    1.7 Circulation ..... 4

    1.8 Job Execution Information ..... 4

    1.11 Job Fluid Details ..... 4

2 Job Logs ..... 5

3 Water Analysis ..... 6

4 Pump Diagrams ..... 6

## 1 Job Details & Summary

### 1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer	n/a	13.5	n/a	n/a	0	1569	25
Casing	Inner	9.625	8.921	36	n/a	0	1569	0

### 1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Bulk Trailer	509	Martinez, Michael	140
Bulk Trailer	E435	Henderson, Ethan	140
Cement Pump	103	Casciato, Luke	140
Light Duty Pickups	6	Bell, Wesley	140

### 1.3 Timing

Event	Date/Time
Call Out	5/12/2017 06:30
Depart Facility	5/12/2017 09:00
On Location	5/12/2017 10:30
Rig Up Iron	5/12/2017 10:45
Job Started	5/12/2017 17:50
Job Completed	5/12/2017 19:15
Rig Down Iron	5/12/2017 19:20
Depart Location	5/12/2017 20:15

### 1.4 General Job Information

Metrics	Value
Well Fluid Density	8.5 lb/gal
Well Fluid Type	Water
Rig Circulation Time	0.5 hours
Calculated Displacement	117 bbls
Actual Displacement	117 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	10 bbls
Well Topped Out	No

### 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	8.5 lb/gal
Well Fluid Density Out of Well	8.5 lb/gal

### 1.6 Job Details (cont.)

Metrics	Value
BHCT	88 °F
BHST	109 °F



### 1.7 Circulation

Lost Circulation Experienced
No

### 1.8 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 (sk)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.33			42.00		20.00	0
1	2	ALTCem S100-22	Primary	14.50	1.39	6.76		673.00	166.41	0
1	3	Water	DisplacementFinal	8.33			42.00		117.00	0

### 1.11 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom	Start (gal)	End (gal)	Used (gal)
1	2	Primary	ALTCem S100-22	AC3-10	Cement	100.00	%			
1	2	Primary	ALTCem S100-22	ADF-20	Defoamer	0.03	gal/sk	4	4	0



## 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	arrive on location	5/12/2017	10:25					arrive on location, requested time was 10:30
2	Rig in	5/12/2017	10:30					spot units and rig in water, bulk and iron
3	Waiting	5/12/2017	11:25					Wait on rig to finish running casing.
4	Safety meeting	5/12/2017	17:30					hold pre-job meeting with rig crew and pump crew. Review job procedure and hazards/hazard controls
5	Fill Lines	5/12/2017	17:50	8.34	2	2	50	Fill Lines with fresh water
6	Pressure Test	5/12/2017	17:53	8.34			3100	Test all lines, no leaks
7	Pump	5/12/2017	17:59	8.34	6	20	100	Pump 20bbls fresh water with red dye
8	Pump Tail Cement	5/12/2017	18:04	14.5	7	166	500	Mix and pump 166bbls of cement at 14.5ppg, Y: 1.39, WR:6.76, 673sks, 108bbls mix water
9	Shut down/drop plug	5/12/2017	18:30					Drop 9 5/8" top rubber plug
10	Displacement	5/12/2017	18:35	8.34				Start displacement
11	Pump	5/12/2017	18:45	8.34	7	50	500	50bbls of displacement away
12	Pump	5/12/2017	18:52	8.34	7	50	800	100bbls of displacement away
13	Land plug	5/12/2017	18:55	8.34	3	17	650	land plug at 117bbls away, final circulating pressure 650psi bumped to 1250psi. 10bbls of cement to surface
14	Check Floats	5/12/2017	18:58	8.34				Floats hold, .5bbls back to truck
15	Casing Test	5/12/2017	19:00	8.34			2600	Casing test for 15minutes, casing tested good.
16	Job complete	5/12/2017	19:15					
17	Rig Down	5/12/2017	19:20					
18	Leave Location	5/12/2017	20:15					

### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	60 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	90 mg/L	0-3000 mg/L
Total Alkalinity	80	0-1000
Total Hardness	100 mg/L	0-500 mg/L
Carbonates	75 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	200 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

### 4 Pump Diagrams

