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# **Great Western Operating Company, LLC**

## **SURFACE POST JOB REPORT**

Schneider HD 11-342HNX 05-123-44684  
S:7 T:4N R:66W Weld CO

CallSheet #: 776  
Proposal #: 13229



**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

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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  
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## 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	1575	25
Casing	Inner	9.625	8.921	36	n/a	0	1575	0

### 1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Cement Pump	103	Hyde, Zack	140
Bulk Trailer	502	Chaparro, Hector	140
Bulk Trailer	509	Mathews, Travis	140
Light Duty Pickups	6	Bell, Wesley	140

### 1.3 Timing

Event	Date/Time
Call Out	5/9/2017 12:50
Depart Facility	5/9/2017 02:00
On Location	5/9/2017 03:22
Rig Up Iron	5/9/2017 04:45
Job Started	5/9/2017 06:55
Job Completed	5/9/2017 08:17
Rig Down Iron	5/9/2017 08:20
Depart Location	5/9/2017 09:15

### 1.4 General Job Information

Metrics	Value
Well Fluid Density	8.5 lb/gal
Well Fluid Type	Water
Rig Circulation Vol	na bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	117 bbls
Actual Displacement	117 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	17 bbls
Well Topped Out	No

### 1.5 Job Details

Metrics	Value
Flare Prior to Job	Yes
Flare During Job	Yes
Flare at End of Job	Yes
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

### 1.9 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	5/9/2017	03:22					Arrive on location, requested time 05:00
2	Spot/Rig in	5/9/2017	04:45					Spot all bulk and pump units, rig in all iron, bulk, water lines.
3	Waiting	5/9/2017	05:30					Wait on rig to finish running casing
4	Safety meeting	5/9/2017	06:30					hold safety meeting with rig crew and pump crew. Review job procedure and hazards. Designate no go zones
5	Fill Lines	5/9/2017	06:50	8.34	2	2	100	Fill lines with fresh water
6	Pressure Test	5/9/2017	06:53	8.34			3200	Pressure test lines, no leaks
7	Pump	5/9/2017	06:55	8.34	5	20	200	Pump 20bbls of Fresh water ahead
8	Pump Tail Cement	5/9/2017	07:00	14.5	5	166.6	370	Mix and pump 166.6bbls of cement at 14.5ppg, Y:1.39, WR:6.76, 673sks, 108bbls mix water
9	Shut down/drop Plug	5/9/2017	07:29					Drop Top rubber plug 9 5/8"
10	Displacement	5/9/2017	07:32	8.34				Begin displacement with Fresh water
11	Pump	5/9/2017	07:43	8.34	5	50	300	50bbls of displacement away
12	Pump	5/9/2017	07:53	8.34	5	50	650	100bbls of displacement away, red dye to surface at 90bbls away, Cement to surface at 100bbls away
13	Land Plug	5/9/2017	07:58	8.34	2	17	700	Land plug at 117bbls of displacement, bump pressure up to 1350psi
14	Check Floats	5/9/2017	08:01	8.34				Floats held, .5bbls back
15	Casing test	5/9/2017	08:02	8.34			2400	Casing test for 15min at 2400psi. Casing test good, no pressure drop
16	Rig out	5/9/2017	08:20					
17	Job complete	5/9/2017	08:45					
18	Leave Location	5/9/2017	09:00					

### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	65 °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	250 mg/L	0-500 mg/L
Carbonates	70 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

