



Great Western Operating Company, LLC

SURFACE POST JOB REPORT

Marcus LD 11-365HN 05-123-43995
S:34 T:1N R:67W Weld CO

CallSheet #: 645
Proposal #: 13052



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
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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	1700	25
Casing	Inner	9.625	8.921	36	n/a	0	1700	0

1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Cement Pump	103	Montoya, Hector	180
Cement Chemical	402		180
Light Duty Pickups	8	Hyde, Andrew	180
Bulk Trailer	504	Creel, Jason	180
Bulk Trailer	506		180

1.3 Timing

Event	Date/Time
Call Out	3/18/2017 14:00
Depart Facility	3/18/2017 15:30
On Location	3/18/2017 17:30
Rig Up Iron	3/18/2017 19:00
Job Started	3/18/2017 21:59
Job Completed	3/18/2017 23:20
Rig Down Iron	3/18/2017 23:30
Depart Location	3/19/2017 01:00

1.4 General Job Information

Metrics	Value
Well Fluid Density	8.8 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	100 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	128 bbls
Actual Displacement	128 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	30 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	8.8 lb/gal
Well Fluid Density Out of Well	8.8 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 ³ /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		761.00	188.17	0
1	3	Water	DisplacementFinal	8.33			42.00		129.00	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	10	5	5



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	3/18/2017	14:00					BJ crew got called out and requested on location at 20:00
2	Depart Yard	3/18/2017	15:30					Bj crew leaves yard
3	Arrive On Location	3/18/2017	17:30					BJ crew arrives on location
4	Safety Meeting	3/18/2017	18:45					BJ crew talked about the hazards of spotting in equipment and rigging up
5	Rig Up	3/18/2017	19:00					Rig up
6	Waiting	3/18/2017	20:00					Wait for casing crew to finish running casing
7	Safety Meeting	3/18/2017	21:20					BJ and rig crew talked about the hazards of pumping the job
8	Fill Lines	3/18/2017	21:59	8.33	2	3	20	Pump 3 bbls of water ahead
9	Pressure Test	3/18/2017	22:01					Pressure test pumps and lines to 3000 psi
10	Pump Spacer	3/18/2017	22:03	8.33	2	20	40	Pump 20 bbls of red dye water spacer
11	Pump Cement	3/18/2017	22:09	14.5	6	188	273	Mix up and pump 761 sks of ALTCem S100-22 primary cement at 14.5 ppg, yield 1.39, 6.76 gal/sk, 188 bbls
12	Shutdown	3/18/2017	22:43					Shutdown to line out manifold to drop plug
13	Drop Top Plug	3/18/2017	22:45					Company man witness plug leave manifold
14	Pump Displacement	3/18/2017	22:46	8.33	7	128	450	Pump 128 bbls of water displacement with biocide
15	Bump Plug	3/18/2017	23:01					Bump plug at 850 psi, took it up to 1770 psi
16	Casing Test	3/18/2017	23:05					Pressure up to 2400 psi for a 15 min casing test
17	Check Floats	3/18/2017	23:20					Check floats got 1 bbl back to the truck
18	Safety Meeting	3/18/2017	23:25					Bj crew talked about the hazards of rigging down
19	Rig Down	3/18/2017	23:30					Rig Down
20	Depart Location	3/19/2017	01:00					Depart location
21	Other	3/19/2017	01:01					Got 30 bbls cement to surface

