



Great Western Operating Company, LLC

Surface Post Job Report

Ocho LD 17-369HC (05-001-10000)

S:8 T:1S R:67W Adams CO



Great Western Operating Company, LLC

Great Western Operating Company, LLC | 1801 Broadway, Suite 500 | Denver, CO 80202

Dear Great Western Operating Company,

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,
Jacob Ojeda
Field Engineer I | (763) 516-3012 | jacob.ojeda@bjservices.com

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

Sales Office 999 18th St. Suite 1200 Denver, CO 80202
Phone: (281) 408-2361

Cementing Treatment



Start Date	02/24/2018	Well	Ocho LD 17-369HC
End Date	02/24/2018	County	ADAMS
Client	GREAT WESTERN OPERATING COMPANY, LLC	State/Province	CO
Service Supervisor	Andrew Hyde	API	05-001-10000
District	Cheyenne, WY	Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50			1,721.00	1,720.70	15.00		
Casing	8.92	9.63	36.00	1,721.00	1,720.70		J-55	LTC

Shoe Length (ft): 44

HARDWARE

Bottom Plug Used?	No	Job Pumped Through	Hose
Top Plug Used?	Yes	Top Connection Thread	8RD
Top Plug Provided By	Customer	Top Connection Size	9.625
Top Plug Size	9.625		
Centralizers Used	Yes		
Centralizers Quantity	17		
Landing Collar Depth (ft)	1,678		

Cementing Treatment



CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	Flare Prior to/during the Cement Job	No
Circulation Time (min)	30	Gas Present	No
Lost Circulation Prior to Cement Job	No		
Mud Density In (ppg)	8.4		
Mud Density Out (ppg)	8.4		

TEMPERATURE

Ambient Temperature (°F)	28
Mix Water Temperature (°F)	85

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3300			0.00				20.0000
Tail Slurry	BJCem S100.3.XC	14.5000	1.3901	6.78	0.00	1,740.00	716	996.0000	177.2000
Displacement Final	Water	8.3300			0.00			0.0000	131.3000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Water	DYE, RED TRACER FLOURESCENT	0.0500	PPB
Tail Slurry	BJCem S100.3.XC	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.3.XC	FOAM PREVENTER, FP-13L	0.0300	GALS/SK

Cementing Treatment



TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)
19:53	Water	5.00	20.00
20:03	BJCem S100.3.XC	5.00	177.20
20:55	Water	5.00	131.30

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	26
Calculated Displacement Volume (bbls)	129	Amount of Spacer to Surface	20
Actual Displacement Volume (bbls)	129	Amount Bled Back After Job	1 bbl
Did Float Hold?	Yes	Total Volume Pumped (bbls)	328
Bump Plug	Yes	Top Out Cement Spotted	No
Bump Plug Pressure (psi)	680	Lost Circulation During Cement Job	No
Were Returns Planned at Surface	Yes		
Cement returns During Job	Yes		

Customer Name Great Western
 Well Name OCHO LD 17-369HC
 Job Type Surface

District Cheyenne
 Supervisor Andrew Hyde
 Engineer _____



Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	2/24/2018 9:00	Mobilization	Call Out							BJ crew gets called out and requested on location at 14:30
2	2/24/2018 10:30	Mobilization	Safety Meeting							BJ crew talks about the hazards of driving to location
3	2/24/2018 11:30	Mobilization	Depart Yard							Depart yard
4	2/24/2018 13:00	Mobilization	Arrive On Location							Arrive on location
5	2/24/2018 13:15	Operational	Safety Meeting							BJ crew talks about the hazards of spotting in equipment and rigging up
6	2/24/2018 13:30	Operational	Rig Up		50					Rig up
7	2/24/2018 14:30	Operational	Waiting							Wait for rig crew to finish running casing
8	2/24/2018 19:00	Operational	Safety Meeting							BJ and rig crew talk about the hazards of pumping the job
9	2/24/2018 19:38	Operational	Fill Lines			8.33	2	3	50	Pump 3 bbls of water ahead
10	2/24/2018 19:49	Operational	Pressure Test		54					Pressure test pumps and lines to 2800 psi
11	2/24/2018 19:53	Operational	Pump Spacer		56	8.33	3	20	263	Pump 20 bbls of dye water spacer
12	2/24/2018 20:03	Operational	Pump Cement			14.5	4.5	177	150	Mix up and pump 716 sks of S100.3XC cement at 14.5 ppg, yield 1.39, 6.78 gal/sk, 177 bbls
13	2/24/2018 20:47	Operational	Shutdown							Shutdown to line out manifold to drop top plug
14	2/24/2018 20:48	Operational	Drop Top Plug		63					customer witness plug leave manifold
15	2/24/2018 20:55	Operational	Pump Displacement		64	8.33	6	109	250	Pump 129 bbls of water displacement
16	2/24/2018 21:15	Operational	Slow Rate			8.33	3	20	576	Slow rate the last 20 bbls to 3 bpm to land plug
17	2/24/2018 21:20	Operational	Bump Plug							Bump plug at 680 psi, took it up to 1360 psi
18	2/24/2018 21:23	Operational	Check Floats		68					Check floats got 1 bbl back
19	2/24/2018 21:25	Operational	Casing Test						1000	Pressure up to 1000 psi for 15 min casing test
20	2/24/2018 21:40	Operational	Release Pressure							Casing test was good release pressure
21	2/24/2018 21:50	Operational	Safety Meeting							BJ crew talks about the hazards of rigging down
22	2/24/2018 22:00		Rig Down		73					Rig down
23	2/24/2018 23:00	Operational	Depart Location							Depart location
24	2/24/2018 23:01	Operational	Other							Got 26 bbls cement to surface



JobMaster Program Version 4.02C1

Job Number: 3399

Customer: GREERAT WESTERN

Well Name: OCHO LD 17-369-HC

