



Great Western Operating Company, LLC

Surface Post Job Report

Postle IC 09-299HNX (API 05-123-46040)

S:11 T:3N R:68W Weld 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@bjsservices.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

Cement Treatment

Start Date	10/18/2017	Well	Postle IC 09-299HNX
End Date	10/22/2017	County	Adams
Client	GREAT WESTERN OPERATING COMPANY, LLC	State/Province	CO
District	Cheyenne, WY	API	05-123-46040
		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			1,528.00	1,528.00	25.00		
Casing	8.92	9.63	36.00	1,528.00	1,528.00		J-55	LTC

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	Centralizers Used	Yes
Top Plug Used?	Yes	Centralizers Quantity	16
Top Plug Provided By	Customer	Landing Collar Depth (ft)	1,485
Top Plug Size	9.625	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Circulation Prior to Job	No	Solids Present at End of Circulation	No
Lost Circulation Prior to Cement Job	No	Flare Prior to/during the Cement Job	No
Mud Density In (ppg)	8.5	Gas Present	No
Mud Density Out (ppg)	8.5		

TEMPERATURE

Ambient Temperature (°F)	35	Mix Water Temperature (°F)	70
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Cement Treatment

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3300					20.0000
Tail Slurry	S100-22	14.5000	1.3901	6.78	672	934.0000	166.3000
Displacement Final	Water	8.3300				0.0000	112.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	S100-22	CEMENT, ASTM TYPE III	100.00	PCT
Tail Slurry	S100-22	FOAM PREVENTER, FP-13L	0.03	GALS/SK

TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)
Water	4.00	20.00
S100-22	6.00	166.30
Water	6.00	112.70

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Cement returns During Job	Yes
Calculated Displacement Volume (bbls)	114	Amount of Cement Returned/Reversed	20
Did Float Hold?	Yes	Amount of Spacer to Surface	20
Bump Plug	Yes	Top Out Cement Spotted	No
Bump Plug Pressure (psi)	1100	Lost Circulation During Cement Job	No
Were Returns Planned at Surface	Yes	Casing Pressure Test (psi)	2450



Customer Name Great Western
 Well Name Postle IC 09-299HNNX
 Job Type Surface

District Cheyenne
 Supervisor Andrew Hyde
 Engineer _____

Start Date/Time	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1/5/2018 16:00	Call Out						BJ crew gets called out and requested on location at 22:00
1/5/2018 17:30	Safety Meeting						BJ crew talks about the hazards of driving to location
1/5/2018 18:00	Depart Yard						Depart Yard
1/5/2018 21:00	Arrive On Location						Arrive on location
1/5/2018 21:30	Safety Meeting						BJ crew talks about the hazards of spotting in equipment and rigging up
1/5/2018 22:00	Rig Up	50					Rig up
1/6/2018 1:15	Safety Meeting						BJ and rig crew talk about the hazards of pumping the job
1/6/2018 1:39	Fill Lines		8.33	2	3	40	Pump 3 bbls of water to fill lines
1/6/2018 1:41	Pressre Test						Pressure test pumps and lines to 3000 psi
1/6/2018 1:43	Pump Water		8.33	3	20	50	Pump 20 bbls of dye water spacer
1/6/2018 1:49	Pump Cement		14.5	6	166	200	Mix up and pump 672 sks of S100-X2 primary cement at 14.5 ppg, yield 1.39, 6.76gal/sk, 166 bbls
1/6/2018 2:18	Shutdown						Shutdown line out manifold to drop top plug
1/6/2018 2:20	Drop Top Plug	63					Costomer witness plug leave manifold
1/6/2018 2:21	Pump Displacment		8.33	6	100	400	Pump 114 bbls of water displacement
1/6/2018 2:37	Slow Rate		8.33	3	114	600	Slow rate the last 14 bbls to 3 bpm
1/6/2018 2:39	Bump Plug						Bump plug at 600 psi, took it up to 1100 psi
1/6/2018 2:42	Check Floats	68					Got .5 bbls back to the truck
1/6/2018 2:45	Casing Test					2400	Pressure up to 2450 psi for 15 min casing test
1/6/2018 3:00	Release Pressure						Pressure dropped to 2390 psi. Release pressure
1/6/2018 3:05	Safety Meeting						BJ crew talked about the hazards of Rigging down
1/6/2018 3:15	Rig Down	73					Rig down
1/6/2018 4:00	Depart Location						Depart location
1/6/2018 4:01	Other						Got 20 bbls cement to surface

Customer: GREAT WESTERN

Well Number: 09-299HNX

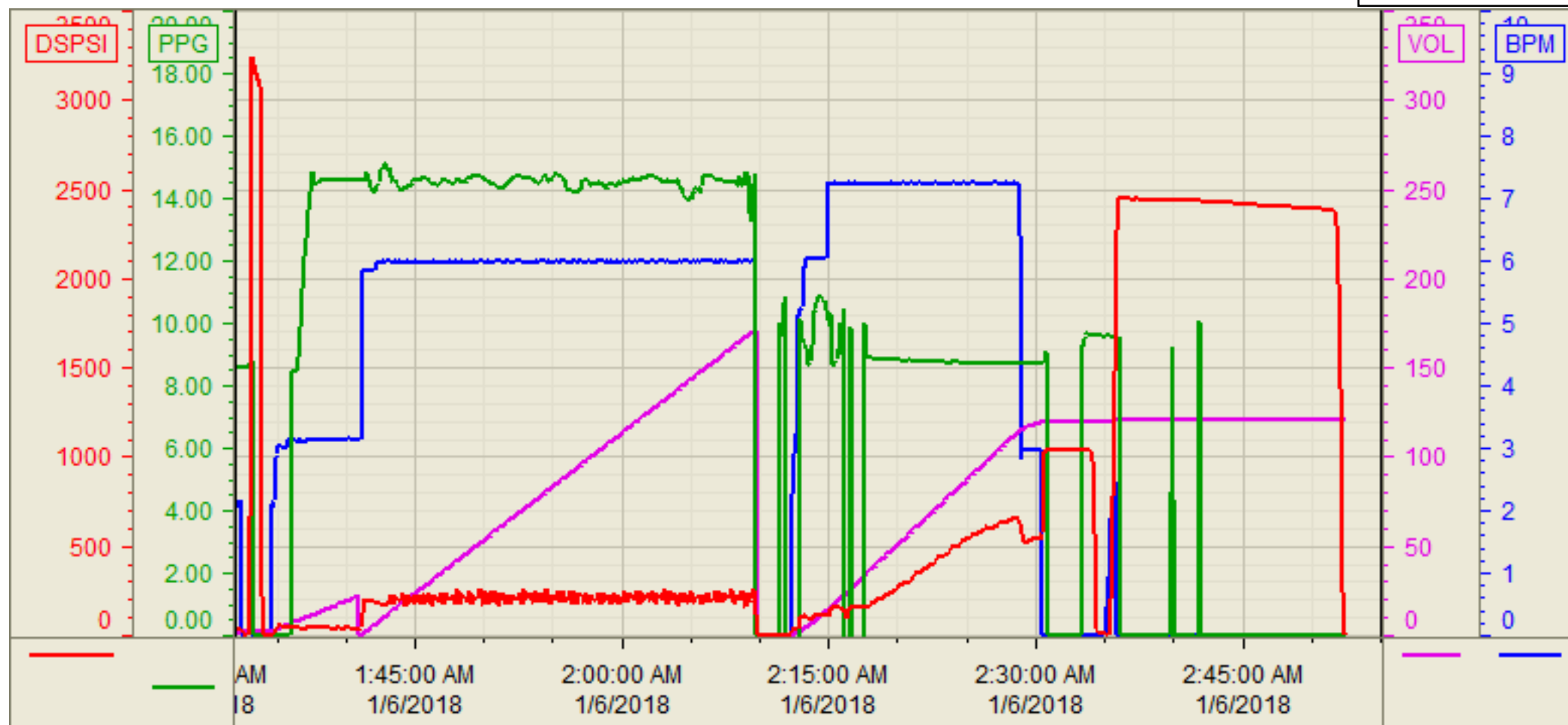
Lease Info: POSTLE IC

Postle IC 09-299HNX (API: 05-123-46040)



Print Date/Time

1/6/2018 2:52:32 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)		1/6/2018 2:55:00 AM i.	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)		1/6/2018 2:55:00 AM i.	Cementer\DENSITY_ACTUAL_RATE
3	Down Hole Total (BBLs)		1/6/2018 2:55:00 AM i.	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined rate (BPM)		1/6/2018 2:55:00 AM i.	Cementer\Flow_Combined
5				

Source: Control1 2:52:27 AM