



Great Western Operating Company, LLC

Surface Post Job Report

Postle IC 09-259HN (05-123-46038)

S: 11 T: 3N R: 68W 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	01/04/2018	Well	Postle IC 09-259HN
End Date	01/04/2018	County	Weld
Client	GREAT WESTERN OPERATING COMPANY, LLC	State/Province	CO
Client Field Rep	Roberts, Dale	API	05-123-46038
Service Supervisor	Casciato, Luke	Type of Job	Surface
Field Ticket No.	2066	District	Cheyenne, WY

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50			1,525.00	1,525.00	25.00		
Casing	8.92	9.63	36.00	1,525.00	1,525.00		J-55	LTC

Shoe Length (ft): 45

HARDWARE

Bottom Plug Used?	No	Top Plug Size	9.625
Top Plug Used?	Yes	Centralizers Used	Yes
Top Plug Provided By	Costumer	Landing Collar Depth (ft)	1,483

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.5
Circulation Prior to Job	No	Mud Density Out (ppg)	8.5
Circulation Time (min)	30	Solids Present at End of Circulation	No
Circulation Rate (bpm)	5	Flare Prior to/during the Cement Job	No
Circulation Volume (bbls)	150	Gas Present	No
Lost Circulation Prior to Cement Job	No		

TEMPERATURE

Ambient Temperature (°F)	30	Mix Water Temperature (°F)	57
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Cementing 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

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
9:42	Water	5.00	20.00	150
9:48	S100-22	5.00	166.30	250
10:24	Water	5.00	112.70	500

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	21
Calculated Displacement Volume (bbls)	114	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	114	Amount of Spacer to Surface	20
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	Yes	Amount Bled Back After Job	0
Bump Plug Pressure (psi)	1100	Total Volume Pumped (bbls)	300
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No
		# h u	2400



Customer Name GREAT WESTERN
 Well Name POSTLE IC 09-259HN
 Job Type Surface

District Cheyenne
 Supervisor Casciato, Luke
 Engineer _____

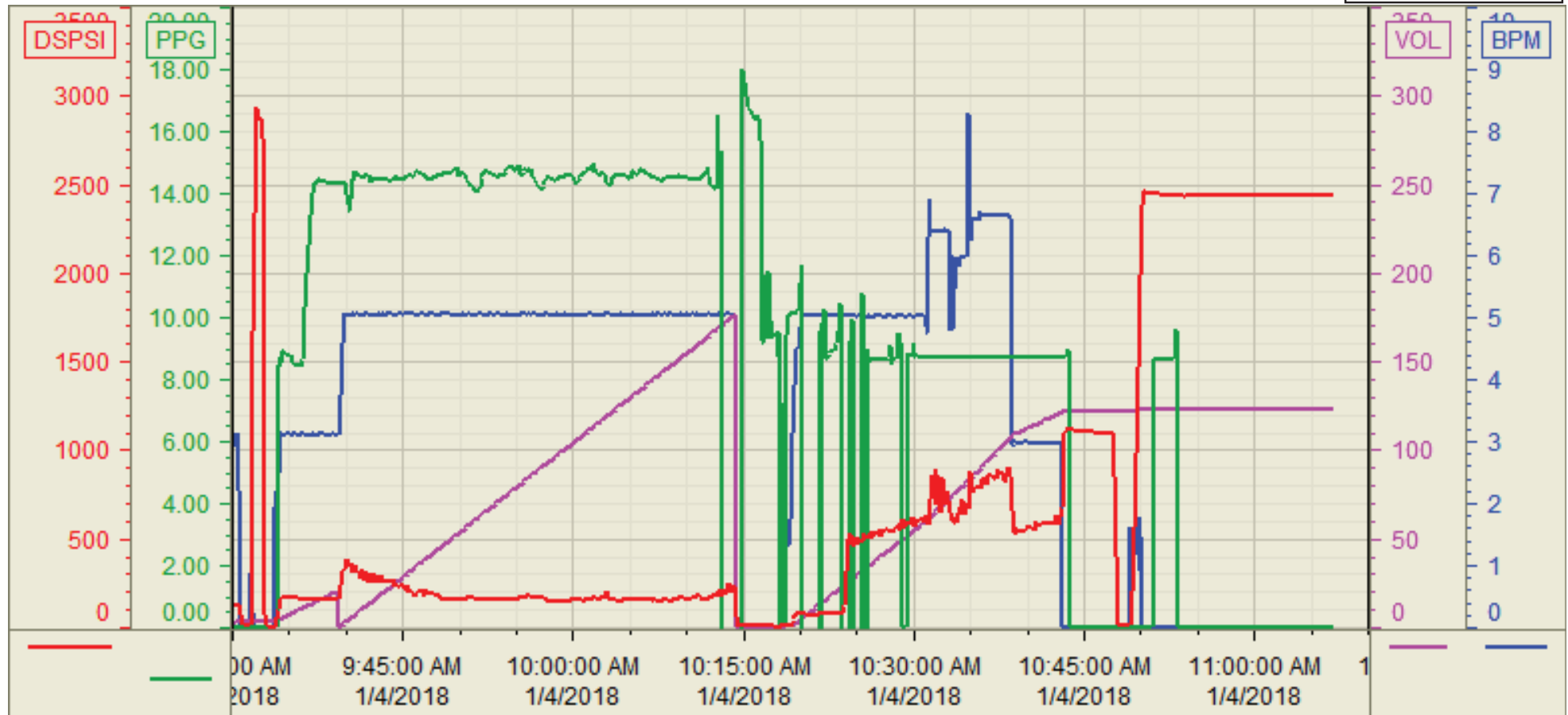
Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	1/3/2018 11:33	Mobilization	CALLOUT		1					CREW WAS CALLED OUT TO GREAT WESTERN SURFACE, REQUESTED ON LOCATION BY 1/4/2018 05:30.
2	1/4/2018 2:00	Operational	STEACS							CREW CONDUCTED JOURNEY MANAGEMENT.
3	1/4/2018 2:30	Operational	DEPART							CREW HEADS TO LOCATION.
4	1/4/2018 3:30	Operational	ARRIVE							CREW ARRIVED ON LOCATION.
5	1/4/2018 7:00	Operational	STEACS							CREW CONDUCTED STEACS PRIOR TO RIG UP.
6	1/4/2018 7:30	Operational	RIG UP		50					CREW RIGGED UP ALL IRON AND FITTINGS.
7	1/4/2018 9:00	Operational	STEACS							BJ CREW, RIG CREW, AND COSTUMER REPRESENTATIVE CONDUCTED STEACS PRIOR TO CEMENT JOB.
8	1/4/2018 9:37	Operational	START JOB							CREW BEGINS JOB.
9	1/4/2018 9:38	Operational	FILL LINES			8.33	2	2	50	PUMPED 2BBL OF H2O TO FILL LINES FOR PRESSURE TEST.
10	1/4/2018 9:40	Operational	PRESSURE TEST		54				3000	PRESSURE TESTED ALL LINES TO 3000PSI.
11	1/4/2018 9:42	Operational	SPACER			8.33	4	20	150	PUMPED 20BBL OF H2O WITHD DYE. FULL RETURNS.
12	1/4/2018 9:48	Operational	PRIMARY			14.5	5	166	250	MIXED AND PUMPED 166BBL OF PRIMARY CEMENT AT 14.5PPG (672SKS, 1.39YLS, 6.76GL/SK). FULL RETURNS.
13	1/4/2018 10:24	Operational	SHUTDOWN							SHUTDOWN TO DROP TOP PLUG.
14	1/4/2018 10:27	Operational	DISPLACEMENT			8.33	5	104	700	DROPPED TOP PLUG, VERIFIED BY COSTUMER REPRESENTATIVE, PUMPED 104BBL OF H2O DISPLACEMENT AT 5BPM. FULL RETURNS.
15	1/4/2018 10:48	Operational	SLOW RATE			8.33	3	10	500	SLOWED RATE LAST 10BBL TO 3BPM TO LAND PLUG.
16	1/4/2018 10:52	Operational	SHUTDOWN						1100	LANDED PLUG AT CALCULATED DISPLACEMENT OF 114BBL. 21BBL OF CEMENT TO SURFACE. LANDED AT 700PSI, BUMPED 500 OVER TO 1100PSI.
17	1/4/2018 10:55	Operational	CHECK FLOATS		68					FLOATS HELD, 1BBL BACK.
18	1/4/2018 10:56	Operational	CASING TEST						2400	15MIN CASING TEST AT 2400PSI.
19	1/4/2018 11:08	Operational	CHECK FLOATS		68					FLOATS HELD, 1BBL BACK.
20	1/4/2018 11:15	Operational	STEACS							CREW CONDUCTED STEACS PRIOR TO RIG DOWN.
21	1/4/2018 11:20	Operational	RIG DOWN		73					CREW RIGGED DOWN ALL IRON AND FITTINGS.
22	1/4/2018 12:00	Operational	STEACS							CREW CONDUCTED JOURNEY MANAGEMENT.
23	1/4/2018 12:20	Operational	DEPART LOCATION							CREW HEADS TO CAMP.
24										

Customer: GREAT WESTERN
Well Number: 09-259HC
Lease Info: POSTLE IC



Print Date/Time

1/4/2018 11:07:00 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)		1/4/2018 11:10:00 AM i.	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)		1/4/2018 11:10:00 AM i.	Cementer\DENSITY_ACTUAL_RATE
3	Down Hole Total (BBLs)		1/4/2018 11:10:00 AM i.	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined rate (BPM)		1/4/2018 11:10:00 AM i.	Cementer\Flow_Combined
5				

Source: Control1 11:06:55 AM