

GUNNISON ENERGY CORP - EBUS

DGU Federal 1289 #18-CS1

**Savannah 650**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 08/28/2014

Job Date: 08/17/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

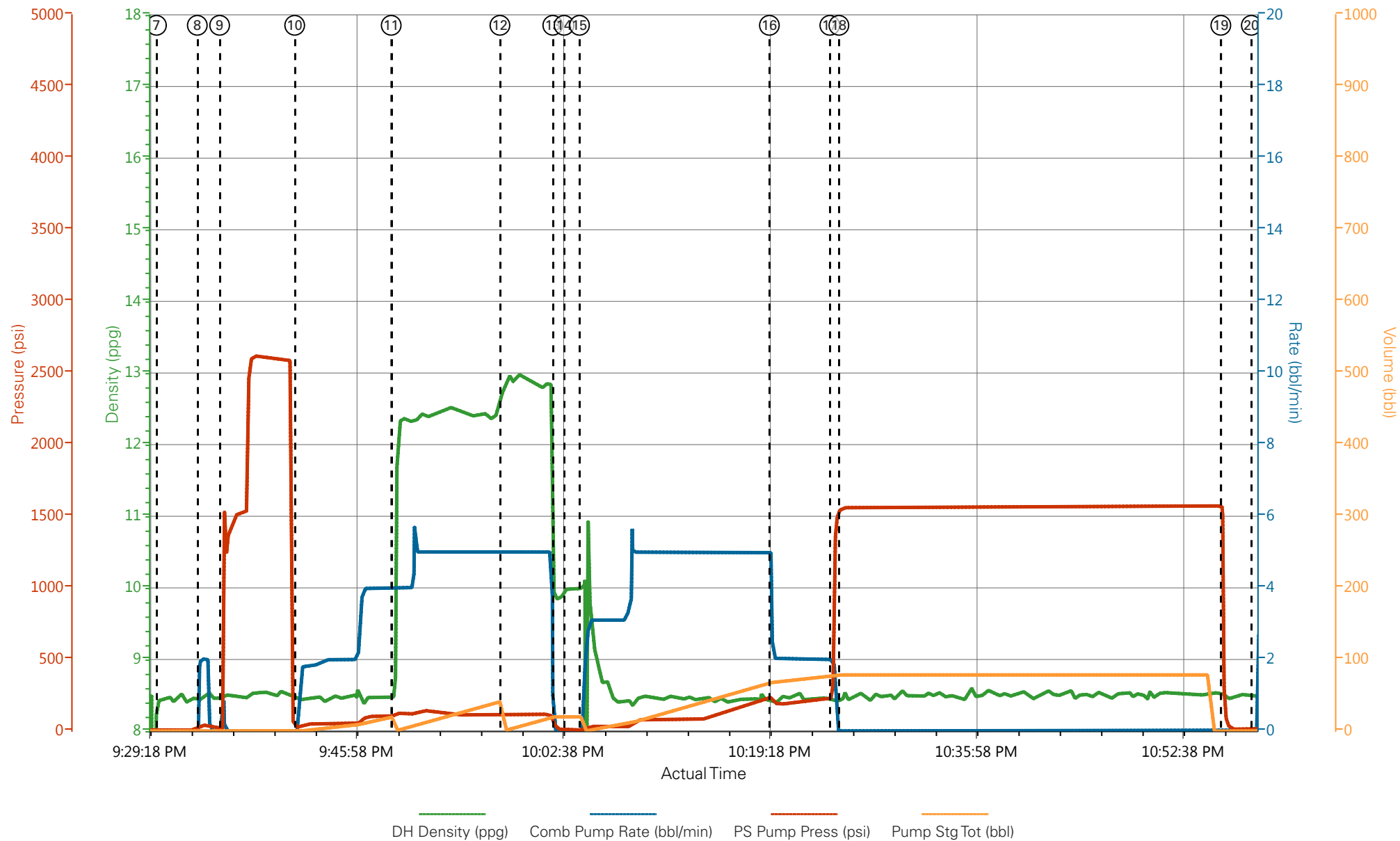
*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 338641		<b>Ship To #:</b> 338641		<b>Quote #:</b> 0021913481		<b>Sales Order #:</b> 0901594233				
<b>Customer:</b> GUNNISON ENERGY CORP - EBUS				<b>Customer Rep:</b> CURT CLAUSSEN						
<b>Well Name:</b> DGU Federal 1289		<b>Well #:</b> #18-CS1		<b>API/UWI #:</b> 05-051-06125						
<b>Field:</b> West Muddy Creek		<b>City (SAP):</b> Somerset		<b>County/Parish:</b> Gunnison		<b>State:</b> COLORADO				
<b>Legal Description:</b>										
<b>Contractor:</b> SAVANNA DRLG				<b>Rig/Platform Name/Num:</b> SAVANNA 650						
<b>Job BOM:</b> 7521										
<b>Well Type:</b> VERTICAL GAS										
<b>Sales Person:</b> HALAMERICA\HX17509				<b>Srvc Supervisor:</b> Thomas Ponder						
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>						
<b>Form Type</b>				<b>BHST</b>						
<b>Job depth MD</b>		1062ft		<b>Job Depth TVD</b>						
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>		8ft				
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>						
<b>Well Data</b>										
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
Casing		9.625	8.921	36	LTC	J-55	0	1062		0
Open Hole Section			12.25				0	1062		0
<b>Fluid Data</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
1	SPACER	FRESH WATER SPACER	20	BBL	8.33			4		
FRESH WATER										
<b>Stage/Plug #: 1</b>										
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
1	VariCem GJ5	VARICEM (TM) CEMENT	100	sack	12.28	2.45		5	14.17	
14.17 Gal FRESH WATER										
	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>	
2	VariCem GJ5	VARICEM (TM) CEMENT	50	sack	12.78	2.18		5	12.11	
12.11 Gal FRESH WATER										
<b>Cement Left In Pipe</b>		<b>Amount</b>	41.6			<b>Reason</b>		Shoe Joint		
<b>Comment</b>										

## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	8/17/2014	13:00:00	USER					CREW ON OTHER LOCATION, ON LOCATION TIME @ 1800
Event	2	Crew Leave Yard	8/17/2014	15:30:00	USER					ALL HES PRESENT FOR THE PRE-CONVOY SAFETY HUDDLE
Event	3	Arrive At Loc	8/17/2014	18:00:00	USER					RIG WAS STILL RUNNING CASING WHEN THE CREW ARRIVED ON LOCATION
Event	4	Assessment Of Location Safety Meeting	8/17/2014	19:45:00	USER					TD - 1070', TP - 1062', SJ - 41.6', MUD- 9.6 PPG, SURFACE CASING - 9.625 IN 36# J-55
Event	5	Rig-Up Equipment	8/17/2014	20:00:00	USER					1 - 550 PICK UP, 1 - ELITE PUMP UNIT, 1 - 400 CUFT BODY LOAD
Event	6	Pre-Job Safety Meeting	8/17/2014	21:15:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 1930
Event	7	Start Job	8/17/2014	21:30:05	COM6					
Event	8	Prime Pumps	8/17/2014	21:33:22	USER	8.33	2	43	2	FILL LINES
Event	9	Test Lines	8/17/2014	21:35:10	COM6		.1	2620	.1	PRESSURE TEST HELD GOOD
Event	10	Pump Spacer 1	8/17/2014	21:41:13	COM6	8.33	4	105	20	FRESH WATER
Event	11	Pump Lead Cement	8/17/2014	21:49:00	COM6	12.3	5	125	43.6	100 SKS 12.3 PPG 2.45 FT3/SK 14.17 GAL/SK
Event	12	Pump Tail Cement	8/17/2014	21:57:46	COM6	12.8	5	125	19.4	50 SKS 12.8 PPG 2.18 FT3/SK 12.11 GAL/SK
Event	13	Shutdown	8/17/2014	22:02:02	USER					
Event	14	Drop Plug	8/17/2014	22:02:57	USER					PLUG DROP VERIFIED VIA TATTLE TELL
Event	15	Pump Displacement	8/17/2014	22:04:11	COM6	8.33	5	242	88.9	FRESH WATER, WASHED UP ON TOP OF THE PLUG WITH THE FIRST 10 BBL OF DISPLACEMENT OUT OF THE MIXING TUB
Event	16	Slow Rate	8/17/2014	22:19:30	USER	8.33	2	190	10	GOOD RETURNS THROUGH OUT THE JOB, DID NOT CIRCULATE CEMENT TO SURFACE
Event	17	Bump Plug	8/17/2014	22:24:23	COM6		2	228	78.9	PLUG BUMPED
Event	18	Pressure Test	8/17/2014	22:25:07	USER			1560		30 MININUTE CASING TEST AS PER CO REP. REQUEST
Event	19	Check Floats	8/17/2014	22:55:54	USER			1570		FLOATS HELD, 1 BBL BACK TO THE DISPLACEMENT TANKS, CUSTOMER RELEASED CREW WITHOUT TOPPING OUT WELL, WANTS TO DO A BOND LOG FIRST
Event	20	End Job	8/17/2014	22:58:22	COM6					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

# GUNNISON ENERGY - DGU FEDERAL 1289 #18-CS1- 9.625 IN SURFACE



- |   |                          |                    |                     |                 |
|---|--------------------------|--------------------|---------------------|-----------------|
| ① Call Out                              | ⑤ Rig-Up Equipment       | ⑨ Test Lines       | ⑬ Shutdown          | ⑰ Bump Plug     |
| ② Crew Leave Yard                       | ⑥ Pre-Job Safety Meeting | ⑩ Pump Spacer 1    | ⑭ Drop Plug         | ⑱ Pressure Test |
| ③ Arrive At Loc                         | ⑦ Start Job              | ⑪ Pump Lead Cement | ⑮ Pump Displacement | ⑲ Check Floats  |
| ④ Assessment Of Location Safety Meeting | ⑧ Prime Pumps            | ⑫ Pump Tail Cement | ⑯ Slow Rate         | ⑳ End Job       |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-08-17 20:34:03, Version: 3.0.121

Edit

Customer : GUNNISON ENERGY CORP - EBUS

Job Date : 8/17/2014 8:35:46 PM

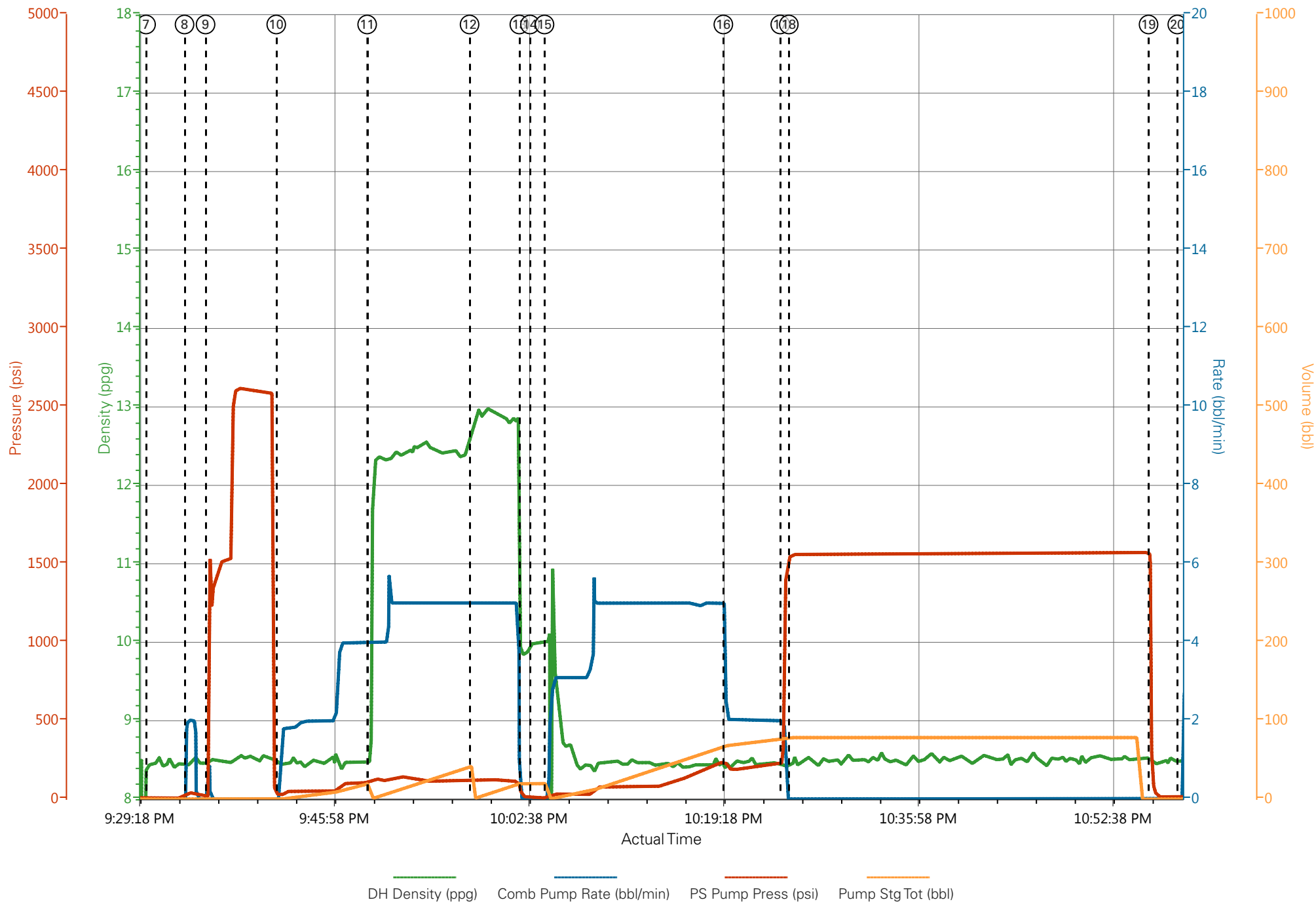
Well : DGU FEDERAL 1289 #18CS1

Representative : CURT CLAUSSEN

Sales Order # : 901594233

ELITE #3 : TRAVIS BROWN / THOMAS PONDER

# GUNNISON ENERGY - DGU FEDERAL 1289 #18-CS1- 9.625 IN SURFACE



# HALLIBURTON

Company:	<u>GUNNISON</u>	Date:	<u>8/17/2014</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>8/17/2014</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901594233</u>
Lease	<u>DGU FEDERAL 1289</u>	Job Type:	<u>SURFACE</u>
Well #	<u>#18-CS1</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>0</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>65</i> Deg
Total Dissolved Solids		<i>185</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

<b>Sales Order #:</b> 0901594233	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/17/2014
<b>Customer:</b> GUNNISON ENERGY CORP - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-051-06125
<b>Well Name:</b> DGU Federal 1289		<b>Well Number:</b> N/A
<b>Well Type:</b> VERTICAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> Gunnison

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

### CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	8/17/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> Gunnison

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	8/17/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	2
<b>Customer Non-Productive Rig Time (hrs)</b> Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes



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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> Gunnison

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	96
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	99
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0