

PICEANCE ENERGY LLC - EBUS

Sup & Shep 25-11 M

**Majors 24**

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: 09/27/2014

Job Date: 09/04/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 344919	Ship To #: 3560680	Quote #: 0021918886	Sales Order #: 0901613188
Customer: PICEANCE ENERGY LLC - EBUS	Customer Rep: MATT SCTTLES		
Well Name: SUP & SHEP FEDERAL	Well #: 25-11M	API/UWI #: 05-077-10219-00	
Field: BUZZARD CREEK	City (SAP): COLLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: NE SW-25-9S-93W-2510FSL-1946FWL			
Contractor:	Rig/Platform Name/Num: Major Drilling		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066	Srvc Supervisor: Christopher Kukus		
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1523ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5FT
Perforation Depth (MD)	From To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		16	15.25	65			0	60		
Casing	0	8.625	8.097	24	8 RD (LT&C)	K-55	0	1521		0
Open Hole Section			11				60	1523		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	8.625	1		1521		Top Plug	8.625	1	HES
Float Shoe	8.625	1				Bottom Plug	8.625	1	HES
Float Collar	8.625	1		1494.9		SSR plug set	8.625		HES
Insert Float	8.625	1				Plug Container	8.625	1	HES
Stage Tool	8.625	1				Centralizers	8.625		HES

Miscellaneous Materials										
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	40	bbl	8.33			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ5	VARICEM (TM) CEMENT	195	sack	12.3	2.45		6	14.17	



0.25 lbm		POLY-E-FLAKE (101216940)							
14.12 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	110	sack	12.8	2.18		6	12.11
12.05 Gal		FRESH WATER							
0.25 lbm		POLY-E-FLAKE (101216940)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	95.1	bbl	8.3			6	
Cement Left In Pipe		Amount	26 ft		Reason		Shoe Joint		
Comment									

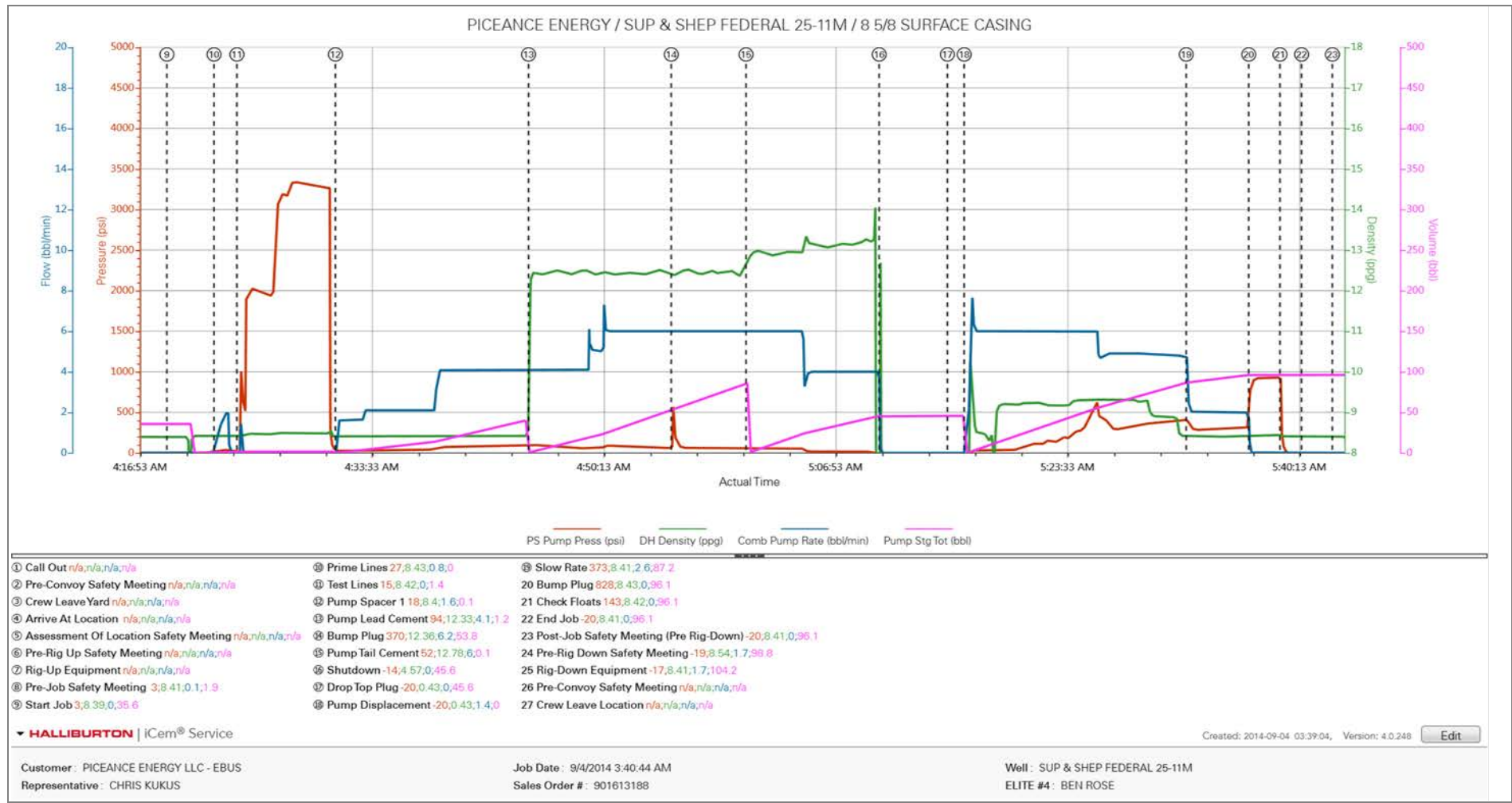
## 1.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	9/3/2014	20:30:45	USER					HES CALLED OUT AT 20:30 WITH ON LOCATION TIME OF 02:00
Event	2	Pre-Convoy Safety Meeting	9/3/2014	23:50:52	USER					ALL HES EMPLOYEES
Event	3	Crew Leave Yard	9/4/2014	00:01:58	USER					HES CREW LEFT YARD AT 00:01
Event	4	Arrive At Location	9/4/2014	03:00:07	USER					HES CREW ARRIVED 1 HOUR LATE DUE TO WRONG TURN
Event	5	Assessment Of Location Safety Meeting	9/4/2014	03:10:28	USER					ALL HES EMPLOYEES RIG WAS ON BOTTOM CIRCULATING AND READY HES CREW SPOTTED EQUIPMENT AND RIG UP
Event	6	Pre-Rig Up Safety Meeting	9/4/2014	03:20:38	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	9/4/2014	03:25:08	USER					RIG UP IRON TO RIG FLOOR, SUCTION LINES TO FRESH WATER, MUD LINES TO MUD TANK, BULK LINE TO BULK TRUCK
Event	8	Pre-Job Safety Meeting	9/4/2014	03:50:22	USER					ALL PERSONEL ON LOCATION
Event	9	Start Job	9/4/2014	04:18:58	COM5					TD:1523 TP: 1521 CSG: 8 5/8 24# SJ:26.07 OH: 11 MUD: 9.2 VIS: 34
Event	10	Prime Lines	9/4/2014	04:22:21	COM5	26.00	8.43	1.0	2.0	PRIME LINES WITH FRESH WATER
Event	11	Test Lines	9/4/2014	04:24:00	COM5	3340.0	8.42	0.00	2.0	PRESSURE TEST OK AT 3340 PSI
Event	12	Pump Spacer 1	9/4/2014	04:31:04	COM5	18.00	8.40	4.0	40.0	40 BBL FRESH WATER SPACER
Event	13	Pump Lead Cement	9/4/2014	04:44:57	COM5	93.00	12.35	6.0	85.1	VARICEM 195 SKS 12.3 PPG 2.45 YIELD 14.17 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN
Event	14	Bump Plug	9/4/2014	04:55:13	USER	466.00	12.35	6.10	53.7	BUMP BOTTOM PLUG
Event	15	Pump Tail Cement	9/4/2014	05:00:36	COM5	52.00	12.86	6.00	42.7	VARICEM 110 SKS 12.8 PPG 2.18 YEILD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN

Event	16	Shutdown	9/4/2014	05:10:10	COM5	-14.00	6.39	0.00	42.7	SHUTDOWN END OF CEMENT READY TANKS FOR DISPLACEMENT
Event	17	Drop Top Plug	9/4/2014	05:15:04	COM5	-20.00	0.44	0.00	42.7	PLUG AWAY OK
Event	18	Pump Displacement	9/4/2014	05:16:16	COM5	-20.00	0.43	6.0	95.1	PUMP 95.1 BBLS OF MUD DISPALCEMENT
Event	19	Slow Rate	9/4/2014	05:32:14	USER	380.00	8.41	2.0	85.1	SLOW RATE TO BUMP PLUG
Event	20	Bump Plug	9/4/2014	05:36:44	COM5	310.0	8.43	2.0	95.1	PLUG BUMP AT 310 PSI AND WAS TOOK TO 928 PSI
Event	21	Check Floats	9/4/2014	05:38:59	USER	928.0	8.43	0.00	95.1	FLOATS HELD WITH .5BBL BACK TO DISPLACEMENT TANKS
Event	22	End Job	9/4/2014	05:40:32	USER	-20.00	8.41	0.00	95.1	JOB WENT WELL WITH NO ISSUES GOT 30 BBLS OF CEMENT TO SURFACE RIG USED NO SUGAR
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	9/4/2014	05:42:45	USER					ALL HES EMPLOYEES
Event	24	Pre-Rig Down Safety Meeting	9/4/2014	05:46:58	USER					ALL HES EMPLOYEES
Event	25	Rig-Down Equipment	9/4/2014	05:50:11	USER					RIG DOWN IRON, SUCTION LINES, BULK LINE, MUD LINES, WASH UP PUMP
Event	26	Pre-Convoy Safety Meeting	9/4/2014	06:20:24	USER					ALL HES EMPLOYEES
Event	27	Crew Leave Location	9/4/2014	06:30:35	USER					THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

2.0 Attachments

2.1 PICEANCE ENERGY SURFACE CASING -Custom Results.png



<b>Sales Order #:</b> 0901613188	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/4/2014
<b>Customer:</b> PICEANCE ENERGY LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT SETTLES		<b>API / UWI: (leave blank if unknown)</b> 05-077-10219-00
<b>Well Name:</b> SUP & SHEP FEDERAL		<b>Well Number:</b> 0080641248
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> MESA

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	9/4/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX35027
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT SETTLES
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE



<b>Sales Order #:</b> 0901613188	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/4/2014
<b>Customer:</b> PICEANCE ENERGY LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT SETTLES		<b>API / UWI: (leave blank if unknown)</b> 05-077-10219-00
<b>Well Name:</b> SUP & SHEP FEDERAL		<b>Well Number:</b> 0080641248
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> MESA

*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	9/4/2014

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.	3
<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.	1.5
<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



<b>Sales Order #:</b> 0901613188	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/4/2014
<b>Customer:</b> PICEANCE ENERGY LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MATT SETTLES		<b>API / UWI: (leave blank if unknown)</b> 05-077-10219-00
<b>Well Name:</b> SUP & SHEP FEDERAL		<b>Well Number:</b> 0080641248
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> MESA

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?	Both
<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	80
<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	80
<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

# HALLIBURTON

## Water Analysis Report

Company: PICEANCE ENERGY

Submitted by: CHRIS KUKUS

Attention: LARRY COOKSEY

Lease SUP & SHEP FEDERAL

Well # 25-11M

Date: 9/4/2014

Date Rec.: 9/4/2014

S.O.# 901613188

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 400</b> Mg / L
Hardness		<b>50</b> Mg / L
Temp	<i>40-80</i>	<b>78</b> Deg
Total Dissolved Solids		<b>200</b> Mg / L

Respectfully: CHRIS KUKUS

Title: CEMENTING SUPERVISOR

Location: GRAND JUNCTION , CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or i