

PICEANCE ENERGY LLC - EBUS

Sup & Shep 25-11W

**Majors 24**

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: 09/26/2014

Job Date: 09/15/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 344919	Ship To #: 3560733	Quote #: 0021920007	Sales Order #: 0901632324
Customer: PICEANCE ENERGY LLC - EBUS		Customer Rep: MATT SETTLES	
Well Name: SUP & SHEP FEDERAL	Well #: 25-11W	API/UWI #: 05-077-10218-00	
Field: BUZZARD CREEK	City (SAP): COLLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: NE SW-25-9S-93W-2505FSL-1939FWL			
Contractor:		Rig/Platform Name/Num: Majors 24	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Eric Carter	
Job			

Formation Name			
Formation Depth (MD)	Top	60 FT.	Bottom 1538 FT.
Form Type	BHST		
Job depth MD	1533ft		
Water Depth	Wk Ht Above Floor 5 FT.		
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		8.625	8.097	24		J-55	0	1533		0
Open Hole Section			11				60	1538		0

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

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

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	20	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	14.17	6		

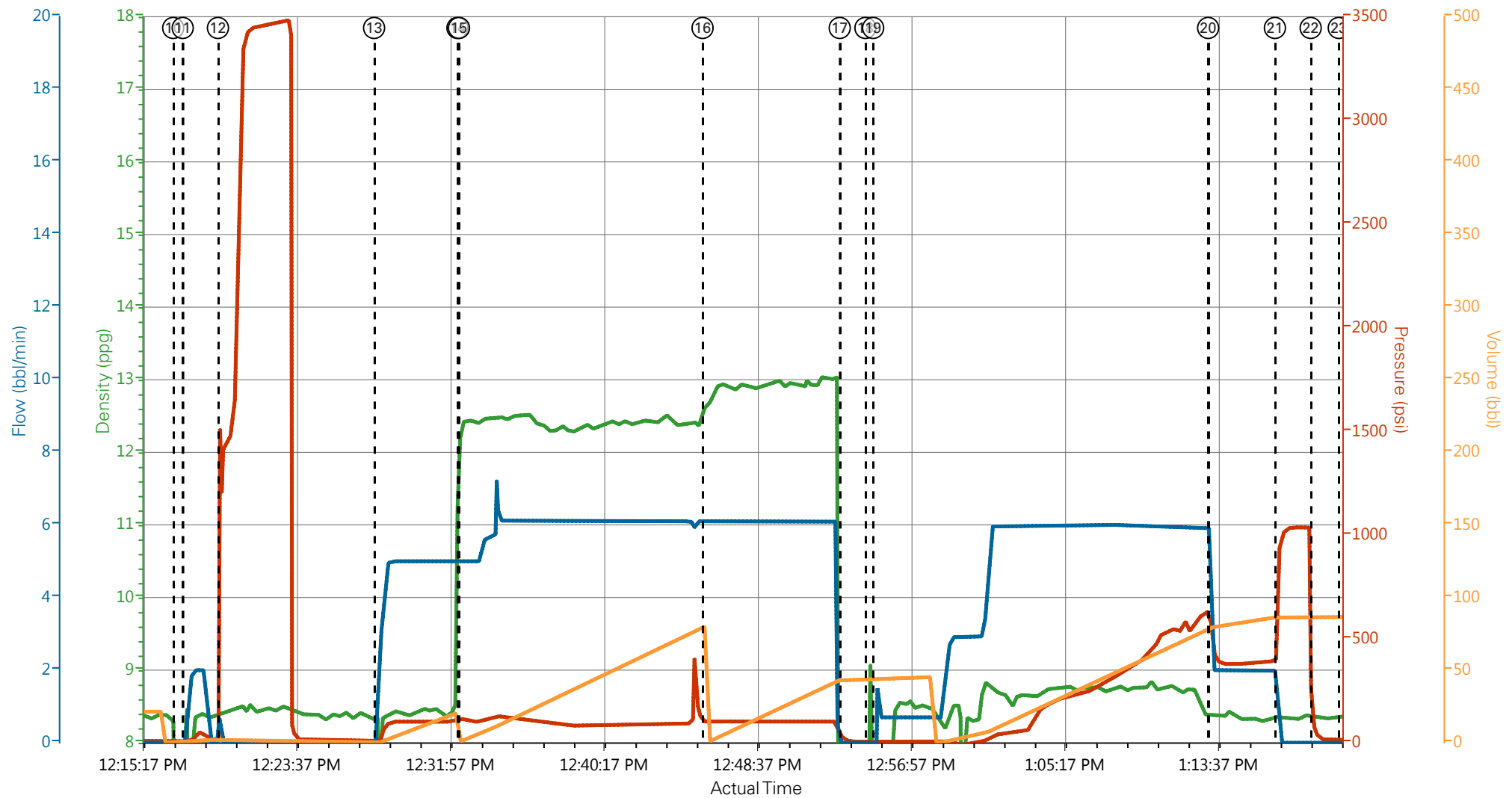
14.12 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	110	sack	12.8	2.18	12.11	6	
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	95.1	bbl	8.3			6	
Cement Left In Pipe		Amount	37 ft		Reason		Shoe Joint		
Comment									

## 3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	9/15/2014	06:00:00	USER					
Event	2	Depart Yard Safety Meeting	9/15/2014	07:50:00	USER					ATTENDED BY ALL HES CREW
Event	3	Crew Leave Yard	9/15/2014	08:00:00	USER					
Event	4	Arrive At Loc	9/15/2014	10:30:00	USER					RIG LANDING CASING
Event	5	Assessment Of Location Safety Meeting	9/15/2014	10:40:00	USER					ATTENDED BY ALL HES CREW
Event	6	Other	9/15/2014	10:50:00	USER					SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	9/15/2014	11:00:00	USER					ATTENDED BY ALL HES CREW
Event	8	Rig-Up Equipment	9/15/2014	11:10:00	USER					
Event	9	Pre-Job Safety Meeting	9/15/2014	11:50:00	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	10	Start Job	9/15/2014	12:17:05	USER					TP 1532.1', TD 1538', MW 9 PPG, CASING 8.625", 24#, J-55, SJ 36.86', HOLE 11", RIG CIRCULATED FOR 1 HR PRIOR TO JOB
Event	11	Fill Lines	9/15/2014	12:17:36	USER	8.34	50	2	2	FRESH WATER
Event	12	Test Lines	9/15/2014	12:19:30	USER					PRESSURED UP TO 3450 PSI, PRESSURE HELD
Event	13	Pump Spacer	9/15/2014	12:27:59	USER	8.34	105	4	20	FRESH WATER
Event	14	Drop Bottom Plug	9/15/2014	12:32:30	USER					PLUG LAUNCHED
Event	15	Pump Lead Cement	9/15/2014	12:32:35	USER	12.3	130	6	85.1	195 SKS VARICEM MIXED AT 12.3 PPG, 2.45 YIELD, 14.17 GL/SK
Event	16	Pump Tail Cement	9/15/2014	12:45:48	USER	12.8	110	6	42.7	110 SKS VARICEM MIXED AT 12.8 PPG, 2.18 YIELD, 12.11 GL/SK
Event	17	Shutdown	9/15/2014	12:53:14	USER					
Event	18	Drop Top Plug	9/15/2014	12:54:38	USER					PLUG LAUNCHED
Event	19	Pump Displacement	9/15/2014	12:55:03	USER	9	590	6	85.1	WBM AT 9 PPG
Event	20	Slow Rate	9/15/2014	13:13:13	USER	8.34	400	2	10	FRESH WATER
Event	21	Bump Plug	9/15/2014	13:16:50	USER		1050			PLUG LANDED

Event	22	Check Floats	9/15/2014	13:18:47	USER	FLOATS HELD
Event	23	End Job	9/15/2014	13:20:18	USER	GOOD CIRCULATION THROUGH OUT JOB, 24 BBLS CEMENT TO SURFACE, PIPE NOT MOVED DURING JOB
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	9/15/2014	13:25	USER	ATTENDED BY ALL HES CREW
Event	25	Rig-Down Equipment	9/15/2014	13:30	USER	
Event	26	Depart Location Safety Meeting	9/15/2014	13:50	USER	ATTENDED BY ALL HES CREW
Event	27	Crew Leave Location	9/15/2014	14:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

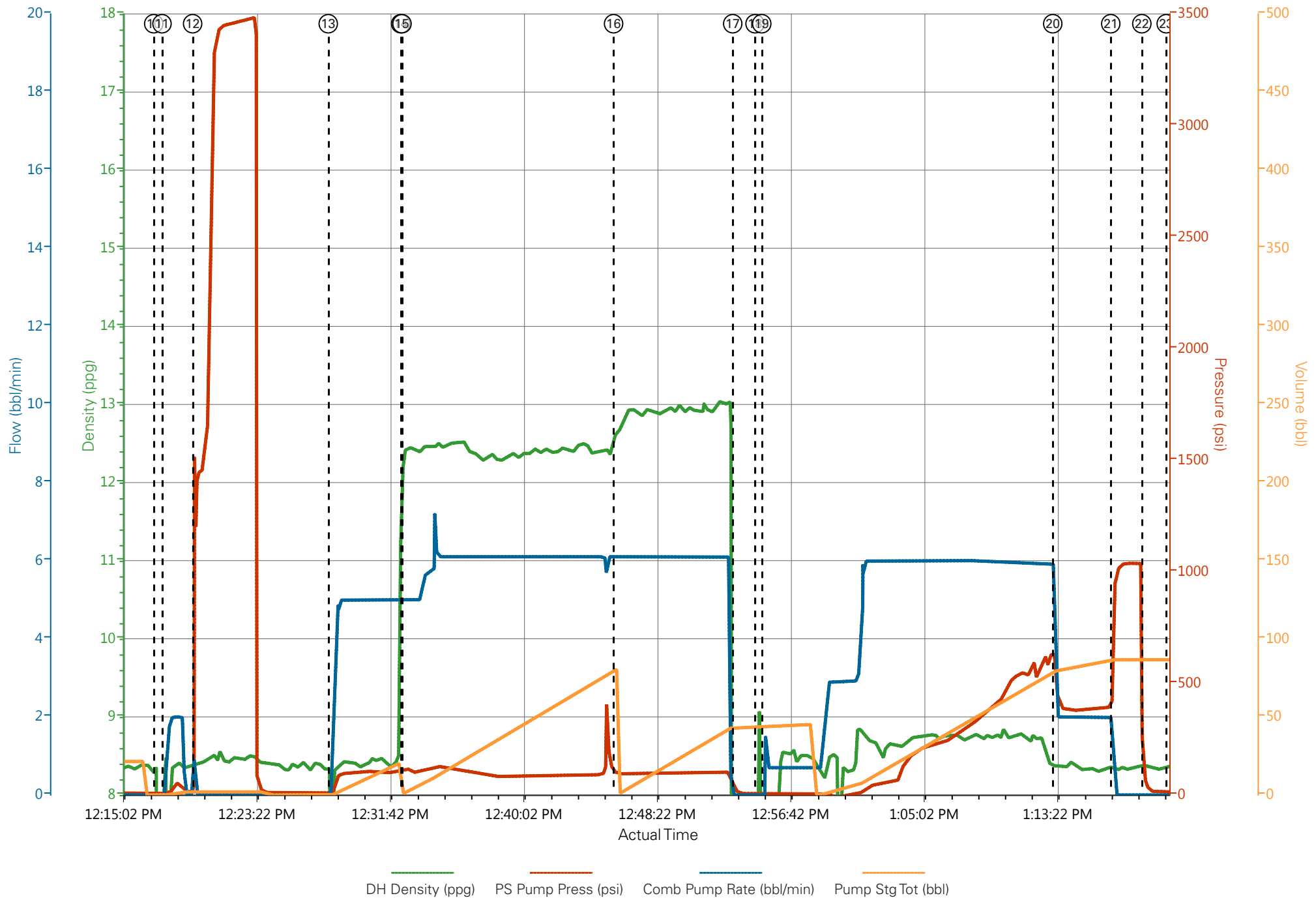
# PICEANCE ENERGY - SUP & SHEEP 25-11W - SURFACE



— DH Density (ppg)
 — PS Pump Press (psi)
 — Comb Pump Rate (bbl/min)
 — Pump Stg Tot (bbl)

① Call Out n/a;n/a;n/a;n/a	⑥ Other n/a;n/a;n/a;n/a	⑪ Fill Lines 8.39;7;0;0	⑯ Pump Tail Cement 12.64;100;6.1;80.5	⑳ Bump Plug 8.35;9
② Depart Yard Safety Meeting n/a;n/a;n/a;n/a	⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑫ Test Lines 8.42;1207;0;2	⑰ Shutdown 0.41;19;0;43	㉑ Check Floats 8.38;
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑧ Rig-Up Equipment n/a;n/a;n/a;n/a	⑬ Pump Spacer 8.35;9;1;0	⑱ Drop Top Plug 7.95;6;0;43	㉒ End Job 8.4;13;0;0
④ Arrive At Loc n/a;n/a;n/a;n/a	⑨ Pre-Job Safety Meeting 8.37;10;0;21.4	⑭ Drop Bottom Plug 12.43;113;5;1.1	㉓ Pump Displacement 0.14;6;0;43	㉔ Post-Job Safety M
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑩ Start Job 2.03;9;0;0	⑮ Pump Lead Cement 12.4;117;5;1.5	㉔ Slow Rate 8.39;509;2;79.5	㉕ Rig-Down Equipm

# PICEANCE ENERGY - SUP & SHEEP 25-11W - SURFACE



# HALLIBURTON

## Water Analysis Report

Company: PICEANCE ENERGY

Submitted by: ERIC CARTER

Attention: J.Trout

Lease MAJORS 24

Well # 25-11W

Date: 9/26/2014

Date Rec.: 9/26/2014

S.O.# 901632324

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Hrdness	<i>500</i>	<i>425</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>250</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>68</i> Deg
Total Dissolved Solids		<i>80</i> Mg / L

Respectfully: ERIC CARTER

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 it



<b>Sales Order #:</b> 0901632324	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/15/2014
<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> 05-077-10218-00
<b>Well Name:</b> SUP & SHEP FEDERAL		<b>Well Number:</b> 0080641306
<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	9/15/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
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	

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	9/15/2014

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>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<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	5
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Customer Non-Productive Rig Time (hrs)</b>	0

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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.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Both
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<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	98
<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	98
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	Y
<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