

Piceance Energy LLC - EBUS

Gunderson 29-9E

Paterson 306

Post Job Summary

Cement Production

Date Prepared: 4/17/2015
Job Date: 4/13/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 344919	Ship To #: 3123907	Quote #:	Sales Order #: 0902315115
Customer: PICEANCE ENERGY LLC - EBUS		Customer Rep: ROGER FOSTER	
Well Name: GUNDERSON	Well #: 29-09E	API/UWI #: 05-077-09762-00	
Field: VEGA	City (SAP): COLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: NE SW-29-9S-93W-2393FNL-1140FEL			
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 306	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066		Srcv Supervisor: Thomas Ponder	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	7845ft Job Depth TVD
Water Depth	Wk Ht Above Floor 3ft
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		8.625	7.921	32			0	1549		0
Casing		4.5	4	11.6			0	7845		0
Open Hole Section			8.875				1549	7856	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5	1			Top Plug	4.5	1	HES
Float Shoe	4.5	1	HES	7845	Bottom Plug	4.5	1	HES
Float Collar	4.5	1	HES	7755.3	SSR plug set	4.5		
Insert Float	4.5	1			Plug Container	4.5	1	HES
Stage Tool	4.5	1			Centralizers	4.5		

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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Tuned Spacer III	Tuned Spacer III	40	bbl	11	4.55	30	4	
37 gal/bbl		FRESH WATER							
123.25 lbm/bbl		BARITE, BULK (100003681)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
2	VersaCem GJ4	VERSACEM (TM) SYSTEM	890	sack	12.8	1.75		8	8.5	
	0.25 lbm	POLY-E-FLAKE (101216940)								
	6 lbm	KOL-SEAL, BULK (100064233)								
	8.50 Gal	FRESH WATER								
3	ExpandaCem GJ4	EXPANDACEM (TM) SYSTEM	413	sack	13.3	1.89		8	8.66	
	0.25 lbm	POLY-E-FLAKE (101216940)								
	8.66 Gal	FRESH WATER								
	6 lbm	KOL-SEAL, BULK (100064233)								
	20 %	SS-200 - BULK (102240841)								
4	Displacement	Displacement	120.2	bbl	8.34			10		
	0.05 gal/bbl	CLA-WEB - TOTE (101985045)								
	0.01 gal/bbl	MICRO MATRIX CEMENT RETARDER, 1 GAL PAIL (100003780)								
Cement Left In Pipe		Amount	90 ft			Reason		Shoe Joint		
Comment										

Summary Report

Sales Order #: 0902315115
WO #: 0902315115
PO/AFE #: NA



Crew: _____

Job Start Date: 4/13/2015

Customer:	PICEANCE ENERGY LLC - EBUS	Field:	VEGA	Job Type:	CMT PRODUCTION
UWI / API Number:	05-077-09762-00	County/Parish:	MESA	Service Supervisor:	CASING BOM
Well Name:	GUNDERSON	State:	COLORADO		Thomas Ponder
Well No:	29-09E	Latitude:	39.248840	Cust Rep Name:	ROGER FOSTER
		Longitude:	-107.7878	Cust Rep Phone#:	
		Sect / Twn / Rng:	29/9/93		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

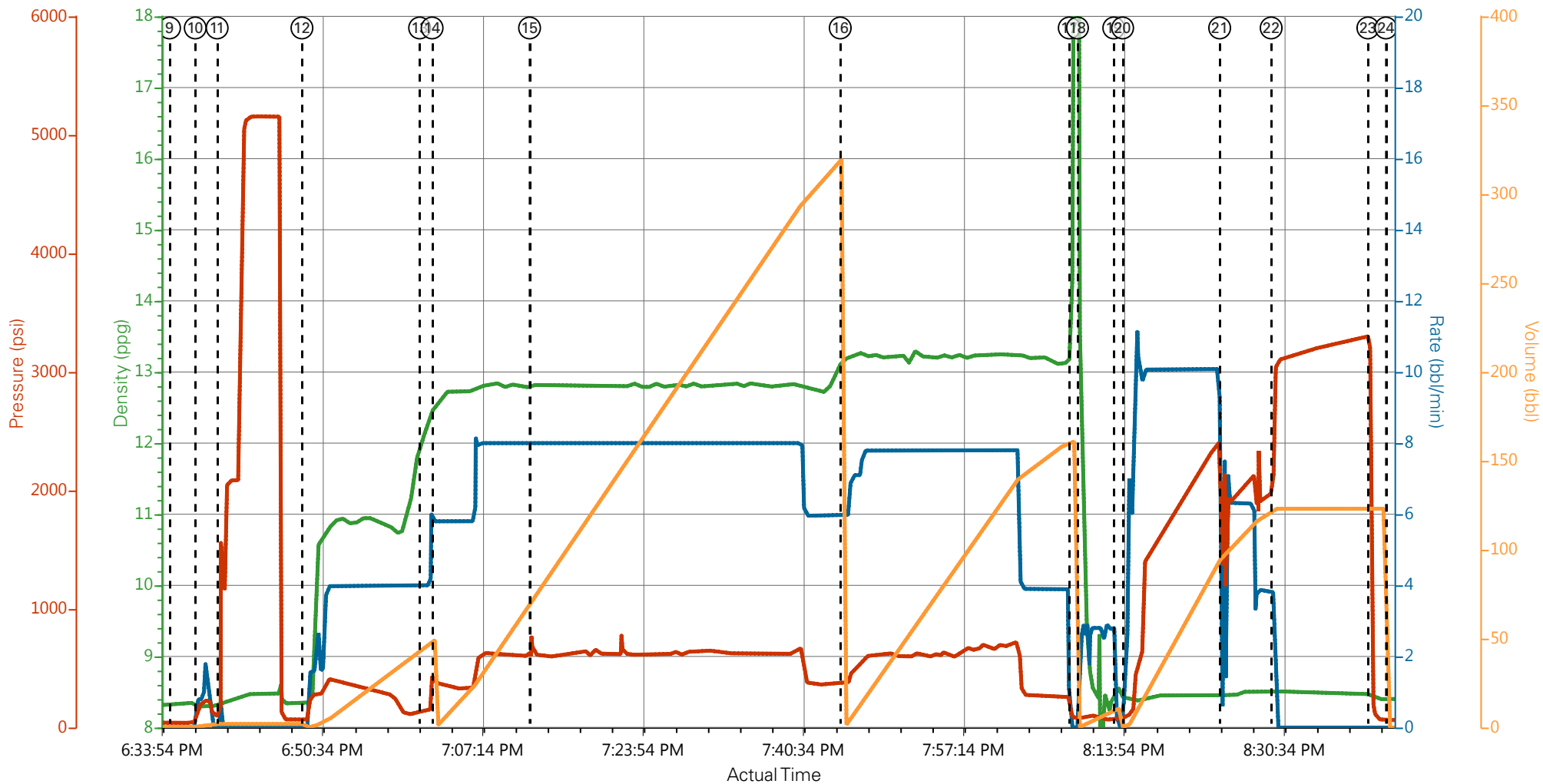
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	4/13/2015	13:00:00	USER					ON LOCATION WAS ORIGINALLY 1900, CUSTOMER REP CALLED BACK AND ASKE FOR CREW TO TRY AND BE ON LOCATION @ 1600
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/13/2015	14:45:00	USER					ALL PERSONNEL INVOLVED WITH CONVOY PRESENT FOR THE MEETING
Event	3	Crew Leave Yard	Crew Leave Yard	4/13/2015	15:00:00	USER					ALL VEHICLES LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	Arrive At Loc	4/13/2015	16:30:00	USER					RIG WAS ON BOTTOM WAITING ON HES WHEN CREW ARRIVED, RIG STARTED CIRCULATING ON BOTTOM @ 1600
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/13/2015	16:40:00	USER					TD - 7856', TP - 7845.1', SJ - 89.8', MUD - 9.3 PPG, OPEN HOLE - 7 7/8", SURFACE CASING - 8 5/8" 32# SET @ 1549', PRODUCTION CASING - 4 1/2" 11.6# P-110
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/13/2015	16:50:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	Rig-Up Equipment	4/13/2015	17:00:00	USER					1 - 550 PICKUP TRUCK, 1 - ELITE PUMPING UNIT, 2 - 660 CUFT BULK TRAILERS, 1 - 1700 CUFT STORAGE SILO, 1 - 4 1/2" PLUG CONTAINER AND QUICK LATCH, 1 - 4

Event	ID	Description	Activity	Date	Time	User	Pressure (PSI)	Flow (GPM)	Volume (GAL)	Volume (SKS)	Notes
											1/2" TOP AND BOTTOM PLUG, 2" CIRCULATING IRON
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/13/2015	18:00:00	USER					ALL HES PRESENT, RIG CREW PRESENT
Event	9	Start Job	Start Job	4/13/2015	18:35:00	COM7					RIG UP LINES FROM PLUG CONTAINER TO STANDPIPE
Event	10	Prime Pumps	Prime Pumps	4/13/2015	18:37:40	COM7	8.33	2	235	2	FILL LINES WITH FRESH WATER
Event	11	Test Lines	Test Lines	4/13/2015	18:39:56	COM7		.1	5156	.1	GOOD PRESSURE TEST NO LEAKS IN THE LINES
Event	12	Pump Spacer 1	Pump Spacer 1	4/13/2015	18:48:45	COM7	11.0	4	411	40	40 BBL 11.0 PPG 4.55 FT3/SK 30 GAL/SK TUNED SPACER
Event	13	Drop Bottom Plug	Drop Bottom Plug	4/13/2015	19:01:00	USER					PLUG DROP VERIFIED BY CO REP
Event	14	Pump Lead Cement	Pump Lead Cement	4/13/2015	19:02:17	COM7	12.8	8	645	277.4	890 SKS 12.8 PPG 1.75 FT3/SK 8.5 GAL/SK, SLOWED RATE AT THE END OF LEAD TO ENSURE THAT DENSITY WAS GOOD AND THAT ALL CEMENT WAS MIXED OUT OF THE SILO, DUE TO LCM IN THE CEMENT STROKE COUNTER WENT OVER
Event	15	Other	Other	4/13/2015	19:12:25	USER			855		BOTTOM PLUG RUPTURED
Event	16	Pump Tail Cement	Pump Tail Cement	4/13/2015	19:44:43	COM7	13.3	8	718	139.0	413 SKS 13.3 PPG 1.89 FT3/SK 8.66 GAL/SK
Event	17	Shutdown	Shutdown	4/13/2015	20:08:32	USER					
Event	18	Clean Lines	Clean Lines	4/13/2015	20:09:23	COM7					
Event	19	Drop Top Plug	Drop Top Plug	4/13/2015	20:13:10	USER					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP

Event	20	Pump Displacement	Pump Displacement	4/13/2015	20:14:05	COM7	8.4	10	2313	110.2	FRESH WATER, 1 GAL MMCR, 5 GAL CLA-WEB
Event	21	Slow Rate	Slow Rate	4/13/2015	20:24:11	USER	8.4	4	1915	10	GOOD RETURNS THROUGH OUT THE JOB, CIRCULATED 20 BBL OF TUNED SPACER TO SURFACE
Event	22	Bump Plug	Bump Plug	4/13/2015	20:29:32	USER	8.4	4	1985	120.2	PLUG BUMPED, PRESSURED UP CASING TO 3000 PSI AS PER CO REP REQUEST, HELD CASING TEST FOR 10 MINS
Event	23	Check Floats	Check Floats	4/13/2015	20:39:35	USER			3307	120.2	FLOATS HELD, 1 1/2 BBL BACK TO THE DISPALCEMENT TANKS
Event	24	End Job	End Job	4/13/2015	20:41:28	USER					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

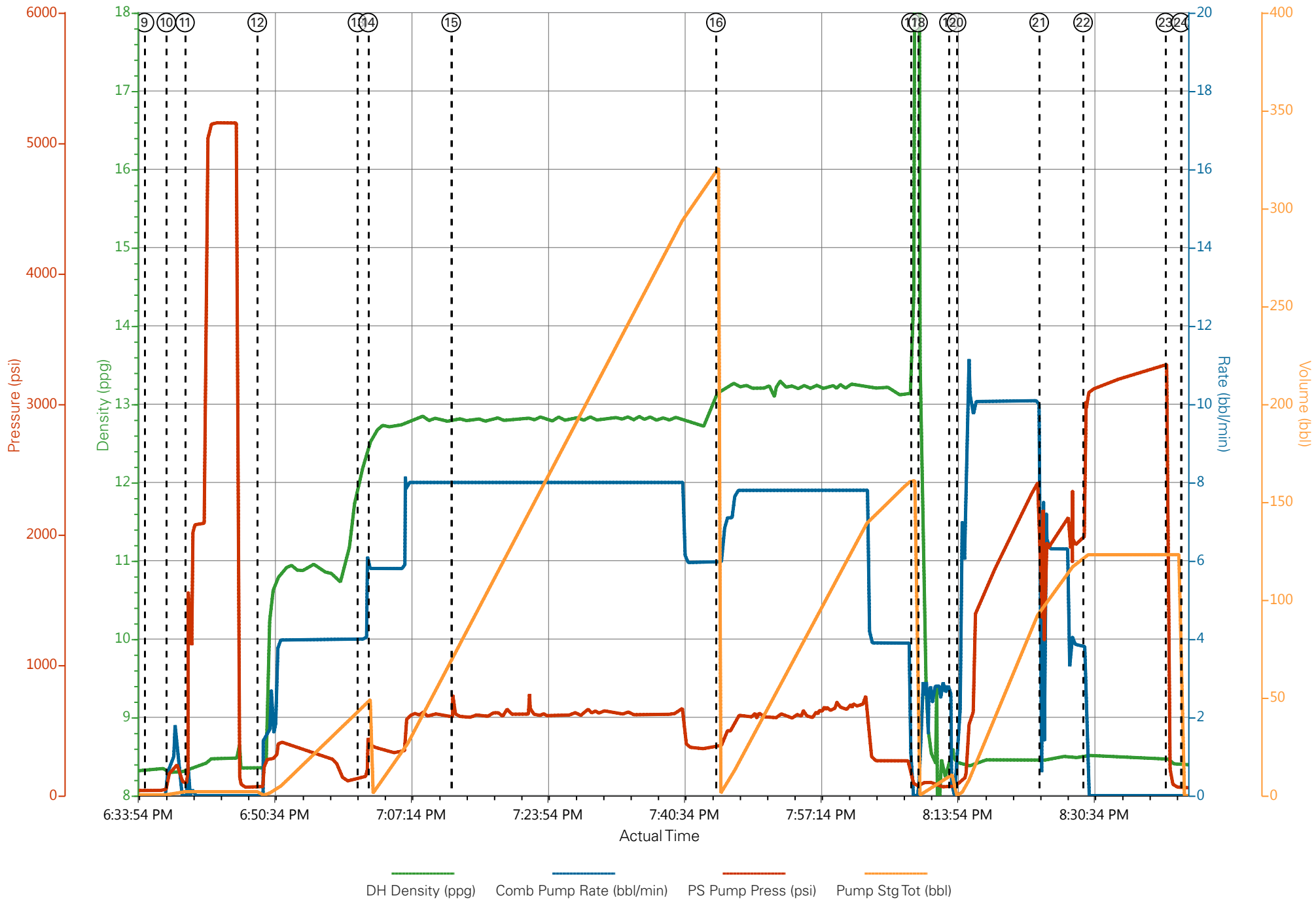
PICEANCE - GUNDERSON 29-09E - 4.5 IN PRODUCTION



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

- | | | | |
|---|--------------------------|---------------------|----------------|
| ① Call Out | ⑧ Pre-Job Safety Meeting | ⑮ Other | ⑳ Bump Plug |
| ② Pre-Convoy Safety Meeting | ⑨ Start Job | ⑯ Pump Tail Cement | ㉑ Check Floats |
| ③ Crew Leave Yard | ⑩ Prime Pumps | ⑰ Shutdown | ㉒ End Job |
| ④ Arrive At Loc | ⑪ Test Lines | ⑱ Clean Lines | |
| ⑤ Assessment Of Location Safety Meeting | ⑫ Pump Spacer 1 | ⑲ Drop Top Plug | |
| ⑥ Pre-Rig Up Safety Meeting | ⑬ Drop Bottom Plug | ㉓ Pump Displacement | |
| ⑦ Rig-Up Equipment | ⑭ Pump Lead Cement | ㉔ Slow Rate | |

PICEANCE - GUNDERSON 29-09E - 4.5 IN PRODUCTION



HALLIBURTON

Company: PICEANCE Date: 4/13/2015
Submitted by: THOMAS PONDER Date Rec.: 4/13/2015
Attention: LARRY COOKSEY S.O.# 902315115
Lease GUNDERSON Job Type: PRODUCTION
Well # 29-09E

Specific Gravity *MAX* **1**
pH *8* **7**
Potassium (K) *5000* **0 Mg / L**
Calcium (Ca) *500* **250 Mg / L**
Iron (FE2) *300* **3 Mg / L**
Chlorides (Cl) *3000* **0 Mg / L**
Sulfates (SO₄) *1500* **<200 Mg / L**
Carbonates hardness
Temp *40-80* **68.8 Deg**
Total Dissolved Solids **450 Mg / L**

Respectfully: THOMAS PONDER
Title: CEMENTING SUPERVISOR
Location: GRAND JCT, CO

Sales Order #: 0902315115	Line Item: 10	Survey Conducted Date: 4/13/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: ROGER FOSTER		API / UWI: (leave blank if unknown) 05-077-09762-00
Well Name: GUNDERSON		Well Number: 0080127642
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: 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	4/13/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ROGER FOSTER
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

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/13/2015
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	5
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Pumping Hours	3
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

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Well Name: GUNDERSON		Well Number: 0080127642
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Both
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Yes
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
Pump Rate (percent) of Job Stayed At Designed Pump Rate 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
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0