

Piceance Energy LLC- EBUS

Piceance 28-08M

Patterson 306

Post Job Summary

Cement Surface Casing

Date Prepared: 07/28/2015

Job Date: 07/23/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 344919	Ship To #: 3672953	Quote #:	Sales Order #: 0902602285
Customer: PICEANCE ENERGY LLC - EBUS		Customer Rep: matt settls	
Well Name: PICEANCE	Well #: 28-08M	API/UWI #: 05-077-10245-00	
Field: VEGA	City (SAP): COLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: SW NW-28-9S-93W-1606FNL-1250FWL			
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 306	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Clifford Sparks	
Job			

HOT 1037', TOT 524' LEAD TO SURFACE. GREAT RETURNS 30 BBLs LEAD CEMENT TO SURFACE

Formation Name		Bottom	
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	1562ft	Job Depth TVD	1562ft
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		16	15.25	65			0	60	0	60
Casing		8.625	8.097	24	STC	J-55	0	1562	0	1562
Open Hole Section			11				60	1562	60	1562

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	8.625			1562	Top Plug	8.625	1	HES
Float Shoe	8.625				Bottom Plug	8.625	1	HES
Float Collar	8.625			1516	SSR plug set	8.625		
Insert Float	8.625				Plug Container	8.625		
Stage Tool	8.625				Centralizers	8.625		

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	Fresh Water	Fresh Water	40	bbl	8.33				

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
2	VariCem GJ5	VARICEM (TM) CEMENT	192	sack	12.3	2.46		6	14.17
		14.17 Gal	FRESH WATER						

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	
3	VariCem GJ5	VARICEM (TM) CEMENT	120	sack	12.8	2.18		6	12.11	
12.11 Gal		FRESH WATER								
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	
4	Fresh Water Displacement	Fresh Water Displacement	96.4	bbl	8.3					
Cement Left In Pipe	Amount	44 ft	Reason					Shoe Joint		

1.0 Real-Time Job Summary

1.1 Job Event Log

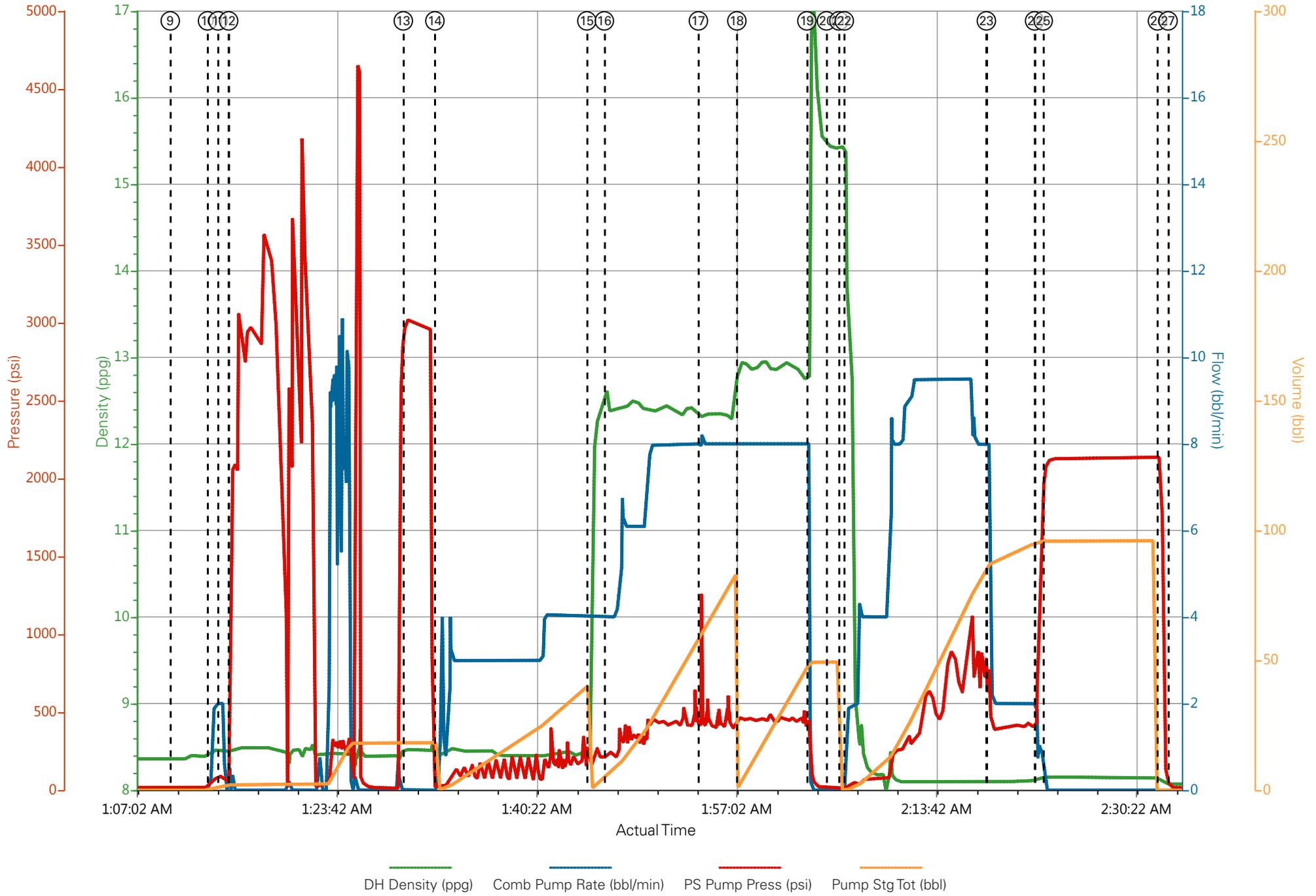
Type	Seq. No.	Activity	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	7/23/2015	18:00:00	USER					ON LOCATION 0000 7-24-2015
Event	2	Pre-Convoy Safety Meeting	7/23/2015	18:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Location	7/23/2015	19:00:00	USER					1 550 PICKUP, 1 660, 1 IRON TRUCK FOR HOSES, AND 1 ELITE PUMP. ALL TRUCKS LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	7/23/2015	21:30:00	USER					ARRIVED 2.5 HOURS EARLY. CREW WAS STILL RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	7/23/2015	21:45:00	USER					MET WITH CO REP TO GO OVER JOB DETAILS. GOT A WAER SAMPLE AND CHECKED LEVEL AND DID A WALKAROUND OF LOCATION.
Event	6	Pre-Rig Up Safety Meeting	7/23/2015	22:00:00	USER					ALL HES PRESENT
Event	7	Rig-up Lines	7/23/2015	22:15:00	USER					RIGGED UP WHAT WE SAFELY COULD STAYING OUT OF THE RED ZONE. FINISHED RIGGING UP WHEN CASING WAS FINISHED AROUND 0000.
Event	8	Pre-Job Safety Meeting	7/24/2015	00:59:47	USER					ALL HES AND RIG CREW WAS PRESENT
Event	9	Start Job	7/24/2015	01:10:00	COM5					TD 1572', TP1562', SJ 46.43',

CS 8.625" 24# J-55, OH 11",
MW 9#

Event	10	Prime Pumps	7/24/2015	01:13:06	USER	8.34	2	42	2	DROP BOTTOM PLUG / PRIME LINES WITH H2O 2 BBLs
Event	11	Drop Bottom Plug	7/24/2015	01:13:59	USER					PLUG WENT
Event	12	Test Lines	7/24/2015	01:14:52	USER					TEST FAILED. REPLACED 1" RELEASE VALVE
Event	13	Test Lines	7/24/2015	01:29:26	COM5	8.34	0.00	3025	2	TESTED LINE TO 3025 PSI. TESTED GOOD AFTER REPLACING THE 1" RELEASE LINE ON THE TRUCK.
Event	14	Pump Spacer 1	7/24/2015	01:32:04	COM5	8.34	4	270	40	40 BBLs H2O
Event	15	Pump Lead Cement	7/24/2015	01:44:44	COM5	12.3	8	430	84	192 SKS (84BBLs) 12.3 PPG 2.46 FT3/SK 14.17 GAL/SK
Event	16	Check Weight	7/24/2015	01:46:12	USER	12.3	8	300	6	WEIGHED UP TUB. SET DOWNHOLE TO MATCH 12.3 PPG
Event	17	Bump Plug	7/24/2015	01:54:03	USER	12.3	8	1200	60	BOTTOM PLUG LANDED
Event	18	Pump Tail Cement	7/24/2015	01:57:15	COM5	12.8	8	470	47	120 SKS (47 BBLs) 12.8 PPG 2.18 FT3/SK 12.11 GAL/SK
Event	19	Shutdown	7/24/2015	02:03:05	USER					END OF CEMENT
Event	20	Other	7/24/2015	02:04:43	USER					WASH UP ON TOP OF PLUG FIRST 10 BBLs OF DISPLACEMENT
Event	21	Drop Top Plug	7/24/2015	02:05:46	USER					PLUG WENT
Event	22	Pump Displacement	7/24/2015	02:06:12	COM5	8.34	9.5	875	96.4	96.4 BBLs FRESH WATER
Event	23	Slow Rate	7/24/2015	02:18:04	USER	8.34	2	380	86	2 BBLs/MIN AT 86 GONE
Event	24	Bump Plug	7/24/2015	02:22:05	COM5	8.11	0.70	771.00	95.5	BUMPED AT 435 PSI PRESSURED UP TO 2125 PSI FOR CASING TEST

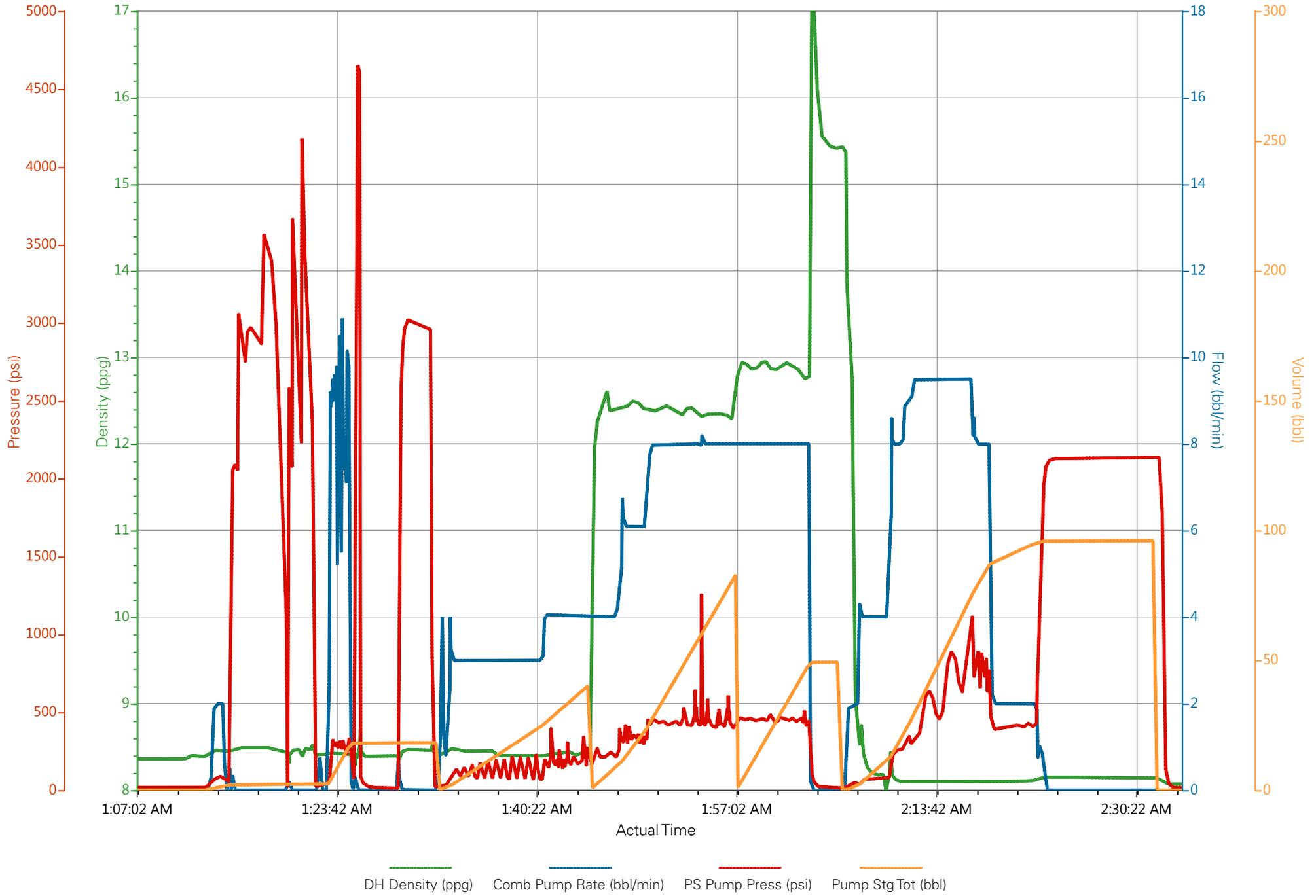
Event	25	Pressure Test	7/24/2015	02:22:48	USER	8.34	0.00	2085.00	96.4	10 MIN 2000 PSI CASING TEST
Event	26	Check Floats	7/24/2015	02:32:20	USER					FLOATS HELD 1BBL BACK
Event	27	End Job	7/24/2015	02:33:13	COM5					GREAT RETURNS THROUGHOUT JOB. 30 BBLS OF LEAD CEMENT TO SURFACE
Event	28	Pre-Rig Down Safety Meeting	7/24/2015	02:45:00	USER					ALL HES PRESENT
Event	29	Rig Down Lines	7/24/2015	03:00:00	USER					
Event	30	Pre-Convoy Safety Meeting	7/24/2015	04:30:00	USER					ALL HES PRESENT
Event	31	Crew Leave Location	7/24/2015	04:45:00	USER					THANK YOU FOR USING HALIBURTON CEMENT. CLIFF SPARKS AND CREW.

PICEANCE 28-08M - 8.625" SURFACE CASING



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

PICEANCE 28-08M - 8.625" SURFACE CASING



HALLIBURTON

Water Analysis Report

Company:	<u>PICEANCE</u>	Date:	<u>7/23/2015</u>
Submitted by:	<u>CLIFF SPARKS</u>	Date Rec.:	<u>7/23/2015</u>
Attention:	<u>DALLAS SCOTT</u>	S.O.#	<u>902602285</u>
Lease	<u>PICEANCE</u>	Job Type:	<u>SURFACE</u>
Well #	<u>28-08M</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Hardness	<i>500</i>	200 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	62 Deg
Total Dissolved Solids		320 Mg / L

Respectfully: CLIFF SPARKS
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

Sales Order #: 0902602285	Line Item: 10	Survey Conducted Date: 7/24/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: PRICE HERNANDEZ		API / UWI: (leave blank if unknown) 05-077-10245-00
Well Name: PICEANCE		Well Number: 0080734039
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	7/24/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB74155
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	PRICE HERNANDEZ
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	N/A

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	7/24/2015
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)	4
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?	No
Was the job delivered correctly as per customer agreed design?	
Pumping Hours	2
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	5
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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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)	Not Available
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	98
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	98
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