

Piceance Energy LLC-EBUS

Piceance 28-06M

Patterson 306

Post Job Summary

Cement Surface Casing

Date Prepared: 08/17/2015

Job Date: 08/11/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 344919	Ship To #: 3123923	Quote #:	Sales Order #: 0902652521
Customer: PICEANCE ENERGY LLC - EBUS		Customer Rep: ROGER FOSTER	
Well Name: PICEANCE	Well #: 28-06M	API/UWI #: 05-077-09779-00	
Field: VEGA	City (SAP): COLLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: SW NW-28-9S-93W-1583FNL-1231FWL			
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 306	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066		Srcv Supervisor: Clifford Sparks	

Job

HOT 962.5' TOT 604', LEAD CMT TO SURFACE. GOOD RETURNS THROUGHOUT JOB. 16 BBLS L CMT TO SURFACE

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1567ft		Job Depth TVD
Water Depth			Wk Ht Above Floor
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	1567	0	1567
Open Hole Section			11				60	1577	60	1577

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	8.625	1		1567	Top Plug	8.625	1	HES
Float Shoe	8.625				Bottom Plug	8.625	1	HES
Float Collar	8.625	1		1520	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			4	

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	14.17	8	
		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	12.05	68		
12.05 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	96.7	bbl	8.33					
Cement Left In Pipe		Amount	47 ft		Reason			Shoe Joint		

1.0 Real-Time Job Summary

1.1 Job Event Log

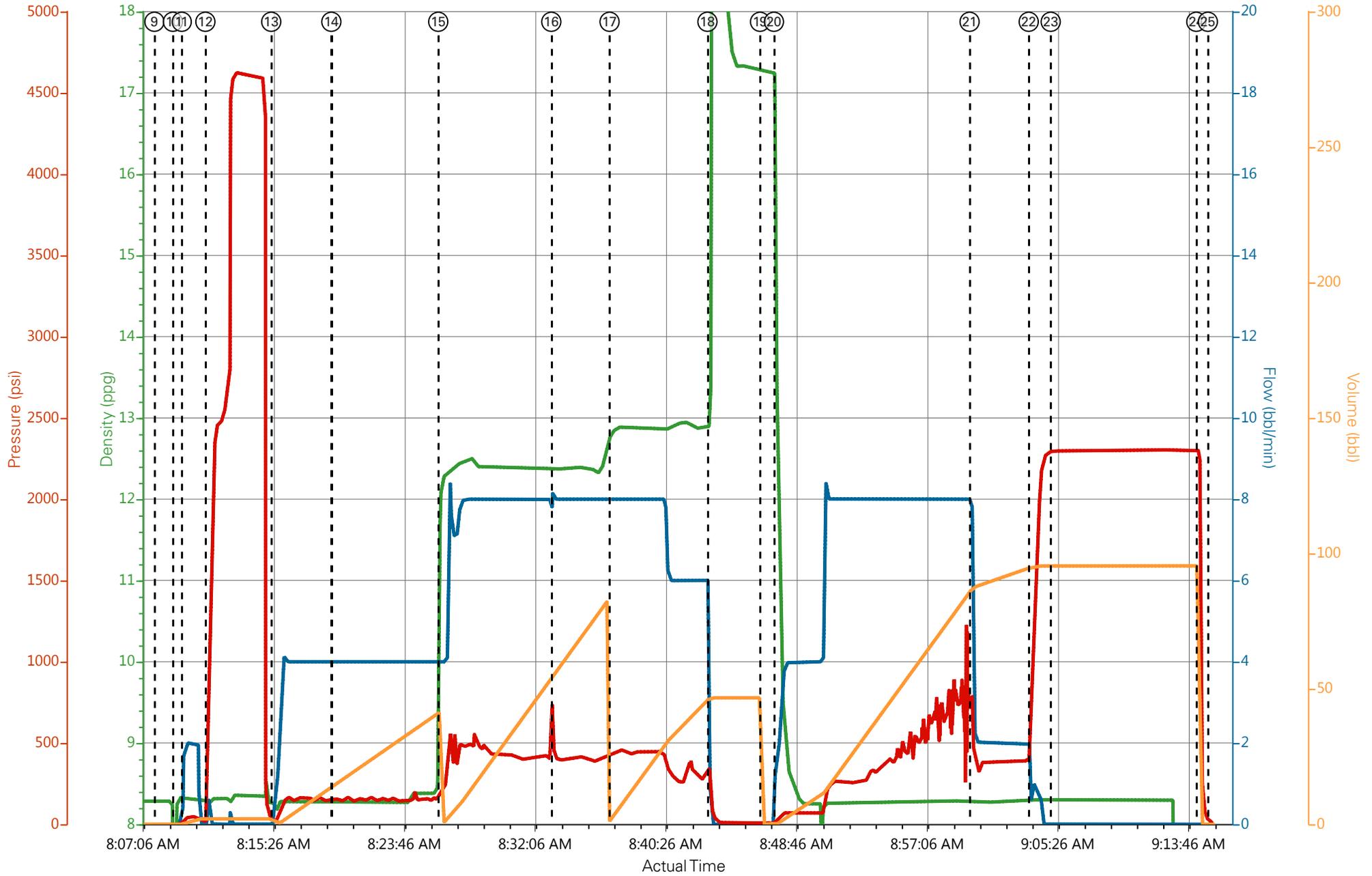
Type	Seq. No.	Activity	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	8/10/2015	21:00:00	USER					ON LOCATION 8/11/2015 @ 0300
Event	2	Pre-Convoy Safety Meeting	8/10/2015	22:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	8/10/2015	23:00:00	USER					1- 550 PU, 1 - ELITE PUMP, 1- 660 AND 1 - IRON TRUCK FOR HOSES. ALL TRUCKS LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	8/11/2015	01:00:00	USER					ARRIVED 2 HOURS EARLY RIG CREW WAS GOING IN THE HOLE WITH DRILL PIPE WHEN WE ARRIVED.
Event	5	Assessment Of Location Safety Meeting	8/11/2015	01:10:00	USER					MET WITH CO REP AND WENT OVER NUMBERS AND JOB PROCEDURE. DID A WALKAROUND OF LOCATION COLLECTED WATER SAMPLE AND COMPLETED JSA
Event	6	Pre-Rig Up Safety Meeting	8/11/2015	04:00:00	USER					CASING CREW TARTED RUNNING CASING AROUND 0330. ALL HES PRESENT FOR MEETING
Event	7	Rig-up Lines	8/11/2015	04:15:00	USER					WE RIGGED UP WHAT WE COULD WHILE STAYING OUT OF THE RED ZONE. COMPLETED RIG UP WHEN CASING CREW WAS FINISHED. ALL HES PRESENT

FOR MEETING

Event	8	Pre-Job Safety Meeting	8/11/2015	07:11:17	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	8/11/2015	08:08:00	COM5					TD 1577', TP 1567, CASING 8.625" 24# OH 11", SJ 46.6 AND MW 9.5
Event	10	Drop Bottom Plug	8/11/2015	08:09:10	USER					PLUG WENT
Event	11	Prime Pumps	8/11/2015	08:09:44	USER	8.34	2	40	2	2 BBLS FRESH WATER
Event	12	Test Lines	8/11/2015	08:11:14	USER	8.34	0	4629	0	TESTED TO 4629 PSI. TESTED GOOD KO'S FUNCTIONING
Event	13	Pump Spacer 1	8/11/2015	08:15:26	COM5	8.34	4	190	40	40 BBLS FRESH WATER
Event	14	Check Weight	8/11/2015	08:19:16	COM5	12.3	4	190	15	MUD SCALES MATCHED RECIRC
Event	15	Pump Lead Cement	8/11/2015	08:26:05	COM5	12.3	8	400	84	192 SKS (84 BBLS) 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK
Event	16	Bump Plug	8/11/2015	08:33:18	USER	12.3	8	720	55.5	PRESSURED UP TO ABOUT 720 PSI
Event	17	Pump Tail Cement	8/11/2015	08:37:01	COM5	12.8	8	430	46.6	120 SKS (46.6 BBLS) 12.8 PPG, 2.18 FT3/SK, 12.05 GAL/SK
Event	18	Shutdown	8/11/2015	08:43:15	USER					END OF CEMENT
Event	19	Drop Top Plug	8/11/2015	08:46:37	USER					PLUG WENT
Event	20	Pump Displacement	8/11/2015	08:47:30	COM5	8.34	8	560	96.7	96.7 BBLS FRESH WATER
Event	21	Slow Rate	8/11/2015	08:59:58	USER	8.34	2	390	86	SLOWED TO 2 BBLS/MIN TO LAND PLUG
Event	22	Bump Plug	8/11/2015	09:03:45	COM5	8.34	2	2200	96.7	BUMPED AT 400 PSI, BROUGHT TO 2200 PSI FOR CASING TEST
Event	23	Pressure Test	8/11/2015	09:05:09	USER	8.34	0.00	2200	96.7	PRESSURED TO 2200 PSI FROM 400

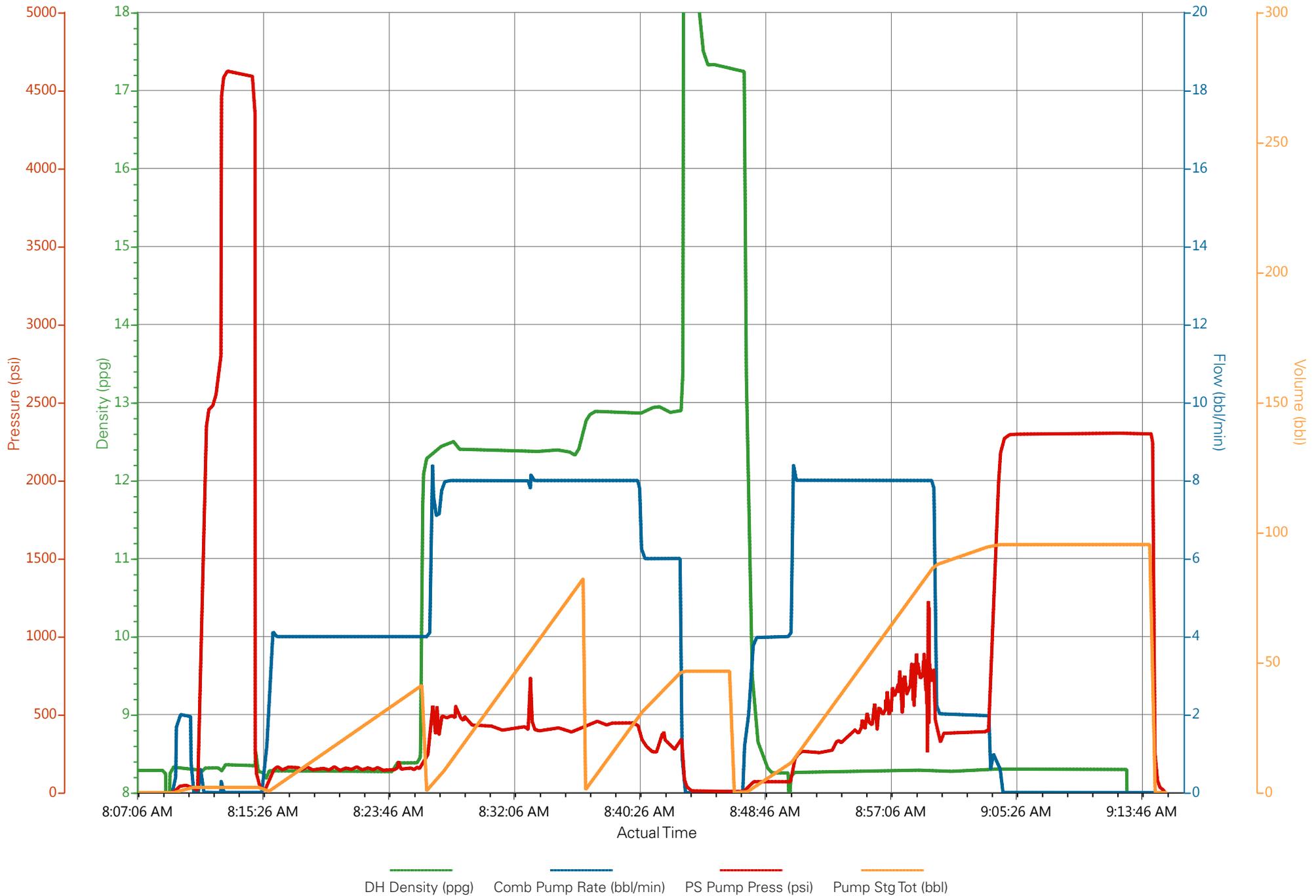
Event	24	Check Floats	8/11/2015	09:14:26	USER	FLOATS HELD 1BBL BACK TO TRUCK
Event	25	End Job	8/11/2015	09:15:10	COM5	16 BBLS OF LED CEMENT TO SURFACE
Event	26	Pre-Rig Down Safety Meeting	8/11/2015	09:20:00	USER	ALL HES PRESENT
Event	27	Rig Down Lines	8/11/2015	09:30:00	USER	
Event	28	Pre-Convoy Safety Meeting	8/11/2015	10:45:00	USER	ALL HES PRESENT
Event	29	Crew Leave Location	8/11/2015	11:00:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT. CLIFF SPARKS AND CREW

PICEANCE ENERGY, PICEANCE 28-06M. 8.625" SURFACE



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

PICEANCE ENERGY, PICEANCE 28-06M. 8.625" SURFACE



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

HALLIBURTON

Water Analysis Report

Company:	<u>PICEANCE</u>	Date:	<u>8/11/2015</u>
Submitted by:	<u>CLIFF SPARKS</u>	Date Rec.:	<u>8/11/2015</u>
Attention:	<u>DALLAS SCOTT</u>	S.O.#	<u>902652521</u>
Lease	<u>PICEANCE</u>	Job Type:	<u>SURFACE</u>
Well #	<u>28-06M</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Hardness	<i>500</i>	<i>250</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 ₄)	<i>1500</i>	<i><200</i> Mg / L
Temp	<i>40-80</i>	<i>68</i> Deg
Total Dissolved Solids		<i>300</i> 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 its u

Sales Order #: 0902652521	Line Item: 10	Survey Conducted Date: 8/11/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ROGER FOSTER		API / UWI: (leave blank if unknown) 05-077-09779-00
Well Name: PICEANCE		Well Number: 0080127659
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	8/11/2015
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	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	N/A

CUSTOMER SIGNATURE

Sales Order #: 0902652521	Line Item: 10	Survey Conducted Date: 8/11/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ROGER FOSTER		API / UWI: (leave blank if unknown) 05-077-09779-00
Well Name: PICEANCE		Well Number: 0080127659
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/11/2015
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?	Yes
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

Sales Order #: 0902652521	Line Item: 10	Survey Conducted Date: 8/11/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ROGER FOSTER		API / UWI: (leave blank if unknown) 05-077-09779-00
Well Name: PICEANCE		Well Number: 0080127659
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)	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