

Piceance Energy LLC - EBUS

Gunderson 29-13E

Patterson 306

Post Job Summary

Cement Surface Casing

Date Prepared: 4/29/2015

Job Date: 4/18/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 344919		Ship To #: 3624341		Quote #:		Sales Order #: 0902324323				
Customer: PICEANCE ENERGY LLC - EBUS				Customer Rep: MATT SETTLES						
Well Name: GUNDERSON		Well #: 29-13E		API/UWI #: 05-077-10231-00						
Field: BUZZARD CREEK		City (SAP): COLLBRAN		County/Parish: MESA		State: COLORADO				
Legal Description: SE NE-29-9S-93W-2405FNL-1149FEL										
Contractor: PATTERSON-UTI ENERGY				Rig/Platform Name/Num: PATTERSON 306						
Job BOM: 7521										
Well Type: DIRECTIONAL GAS										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: CLIFF SPARKS						
Job										
Tail cement at 642', Lead cement to surface. Good returns throughout job good cement back at 80bbbls gone on disp.										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job Depth		1555'		Job Depth TVD		1555'				
Water Depth				Wk Ht Above Floor		3'				
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	1555	0	1555
Open Hole Section			11				60	1565	65	1565
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	8.625	1		1555		Top Plug	8.625	1	HES	
Float Shoe	8.625					Bottom Plug	8.625	1	HES	
Float Collar	8.625	1		1508.7'		SSR plug set	8.625			
Insert Float	8.625					Plug Container	8.625			
Stage Tool	8.625					Centralizers	8.625			
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				
Fluid Data										
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	192	sack	12.3	2.46		6	14.17
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	114	sack	12.8	2.18		6	12.11
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	96	bbl	8.3				
Cement Left In Pipe		Amount	46 ft		Reason			Shoe Joint	

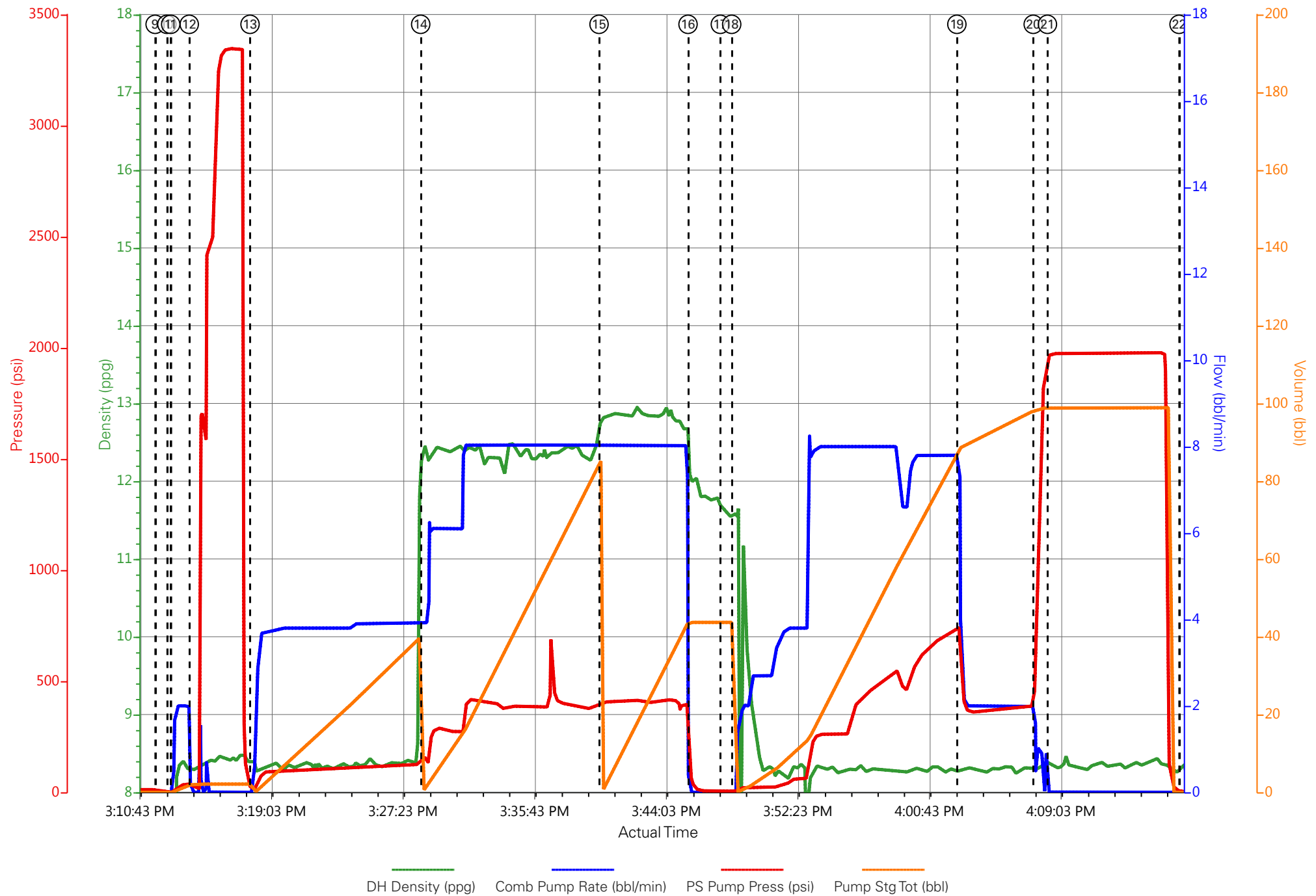
2.0 Real-Time Job Summary

2.1 Job Event Log

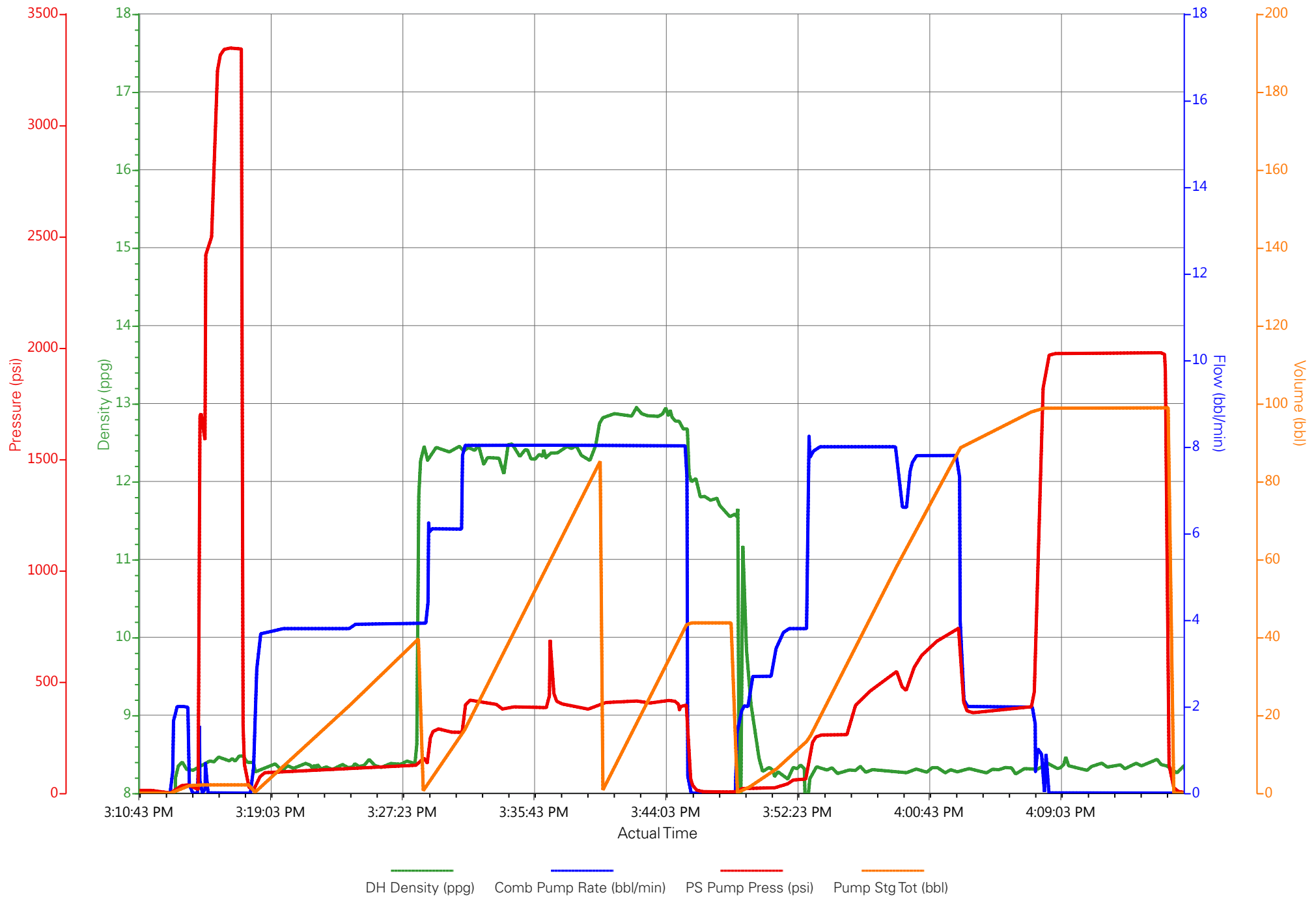
Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	4/18/2015	08:00:00	USER					ON LOCATION TIME 1300
Event	2	Pre-Convoy Safety Meeting	4/18/2015	10:27:09	USER					ALL PRESENT
Event	3	Crew Leave Yard	4/18/2015	10:27:23	USER					CREW LEFT YARD TOGETHER
Event	4	Arrive At Loc	4/18/2015	10:27:35	USER					ARRIVED 45 MIN. LATE AFTER HAVING TO CHAIN UP AND WITH A 5 HOUR CALLOUT. LANDING JOINT WAS GOING UP.
Event	5	Assessment Of Location Safety Meeting	4/18/2015	10:28:00	USER					11" HOLE TO 1565', 8.625" 24# J-55 CASING TO 1555', 46.3' SHOE JOINT AT 1508.7'
Event	6	Pre-Rig Up Safety Meeting	4/18/2015	10:28:14	USER					ALL HES
Event	7	Rig-Up Equipment	4/18/2015	10:28:43	USER					1 ELITE, 2 660'S
Event	8	Pre-Job Safety Meeting	4/18/2015	10:28:53	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	4/18/2015	15:11:51	COM2					RIG UP BAILS AND CEMENT HEAD TO CASING
Event	10	Prime Pumps	4/18/2015	15:12:35	COM2	8.34	2	45	2	USED FRESH WATER AND 6X5 TO ESTABLISH FLOW AND KICKED IN PUMPS AT 2BBLs/MIN FOR 2 BBLs
Event	11	Drop Top Plug	4/18/2015	15:12:50	USER					PLUG WENT
Event	12	Test Lines	4/18/2015	15:14:00	COM2	8.34	0.00	3342	2.0	TESTED TO 3342 PUMPS HELD PRESSURE
Event	13	Pump Spacer 1	4/18/2015	15:17:51	COM2	8.34	4	102	40	40 BBLs H2O

Event	14	Pump Lead Cement	4/18/2015	15:28:40	COM2	12.3	8	400	84.1	192 SKS (84.1BBLs) 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK
Event	15	Pump Tail Cement	4/18/2015	15:39:57	COM2	12.8	8	420	44.3	114 SKS (44.3 BLS) 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK
Event	16	Shutdown	4/18/2015	15:45:36	USER	12.8	0	0	44.3	WASHED UP ON TOP OF THE PLUG
Event	17	Drop Top Plug	4/18/2015	15:47:38	COM2					PLUG WENT
Event	18	Pump Displacement	4/18/2015	15:48:21	COM2	8.34	8	710	96	96 BLS FRESH WATER
Event	19	Slow Rate	4/18/2015	16:02:37	USER	8.34	2	360	86	SLOWED TO 2 BBLs MIN
Event	20	Bump Plug	4/18/2015	16:07:27	COM2	8.34	2	395	96	PLUG BUMPED AT 395 PSI
Event	21	Pressure Up Well	4/18/2015	16:08:21	USER	8.34	0.00	1973	96	10 MIN CASING TEST @ 1978. PRESSURE HELD
Event	22	End Job	4/18/2015	16:16:41	COM2					GOOD RETURNS THROUGHOUT JOB. SAW GOOD CEMENT BACK ABOUT 80 BBLs GONE DURING DISPLACEMENT
Event	23	Pre-Rig Down Safety Meeting	4/18/2015	16:16:42	USER					ALL HES
Event	24	Rig Down Lines	4/18/2015	16:16:43	USER					
Event	25	Pre-Convoy Safety Meeting	4/18/2015	16:16:44	USER					ALL HES
Event	26	Crew Leave Location	4/18/2015	16:16:45	USER					THANK YOU FOR CHOOSING HALLIBURTON. CLIFF SPARKS AND CREW

PICEANCE - GUNDERSON 29-13E - CEMENT SURFACE CASING



PICEANCE - GUNDERSON 29-13E - CEMENT SURFACE CASING



HALLIBURTON

Water Analysis Report

Company: PICEANCE ENERGY
Submitted by: CLIFF SPARKS
Attention: DALLAS SCOTT
Lease: PICEANCE
Well #: 29-13E

Date: 4/18/2015
Date Rec.: 4/18/2015
S.O.#: 902324323
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</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
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>40</i> Deg
Total Dissolved Solids		<i>290</i> Mg / L

Respectfully: CLIFF SPARKS

Title: CEMENTING SUPERVISOR

Location: WILLISTON ND

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

Sales Order #: 0902324323	Line Item: 10	Survey Conducted Date: 4/19/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT SETTLES		API / UWI: (leave blank if unknown) 05-077-10231-00
Well Name: GUNDERSON		Well Number: 0080703215
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	4/19/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HAL9235
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	NA

CUSTOMER SIGNATURE

Sales Order #: 0902324323	Line Item: 10	Survey Conducted Date: 4/19/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT SETTLES		API / UWI: (leave blank if unknown) 05-077-10231-00
Well Name: GUNDERSON		Well Number: 0080703215
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/19/2015
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 #: 0902324323	Line Item: 10	Survey Conducted Date: 4/19/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT SETTLES		API / UWI: (leave blank if unknown) 05-077-10231-00
Well Name: GUNDERSON		Well Number: 0080703215
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