

Piceance Energy LLC- EBUS

Gunderson 29-09E

Patterson 306

Post Job Summary

Cement Surface Casing

Date Prepared: 04/15/2015
Job Date: 04/10/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

| | | | |
|--|--------------------------------------|----------------------------|---------------------------|
| Sold To #: 344919 | Ship To #: 3123907 | Quote #: | Sales Order #: 0902313201 |
| 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): COLLBRAN | 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: 7521 | | | |
| Well Type: DIRECTIONAL GAS | | | |
| Sales Person: HALAMERICA\HB21661 | Srvs Supervisor: Dustin Hyde | | |

Job

| | |
|------------------------|--------|
| Formation Name | |
| Formation Depth (MD) | Top |
| Form Type | BHST |
| Job depth MD | 1549ft |
| Water Depth | |
| Perforation Depth (MD) | From |

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 | 1549 | 0 | 1549 |
| Open Hole Section | | | 11 | | | | 60 | 1559 | | 1559 |

Tools and Accessories

| Type | Size in | Qty | Make | Depth ft | Type | Size in | Qty | Make |
|--------------|---------|-----|------|----------|----------------|---------|-----|------|
| Guide Shoe | 8.625 | 1 | | 1549 | Top Plug | 8.625 | 1 | HES |
| Float Shoe | 8.625 | 1 | | | Bottom Plug | 8.625 | 1 | HES |
| Float Collar | 8.625 | 1 | | 1503 | SSR plug set | 8.625 | | |
| Insert Float | 8.625 | 1 | | | Plug Container | 8.625 | 1 | HES |
| Stage Tool | 8.625 | 1 | | | Centralizers | 8.625 | | |

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 | 40 | 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 | 192 | sack | 12.3 | 2.46 | | 8 | 14.17 |
| 14.17 Gal | | FRESH WATER | | | | | | | |
| | | | | | | | | | |
| 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 |
| 3 | VariCem GJ5 | VARICEM (TM) CEMENT | 114 | sack | 12.8 | 2.18 | | 8 | 12.11 |
| 12.11 Gal | | FRESH WATER | | | | | | | |
| | | | | | | | | | |
| 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 |
| 4 | Fresh Water Displacement | Fresh Water Displacement | 93.6 | bbl | 8.3 | | | 9.5 | |
| | | | | | | | | | |
| Cement Left In Pipe | | Amount | 46 ft | | Reason | | Shoe Joint | | |
| Comment | | | | | | | | | |

1.0 Real-Time Job Summary

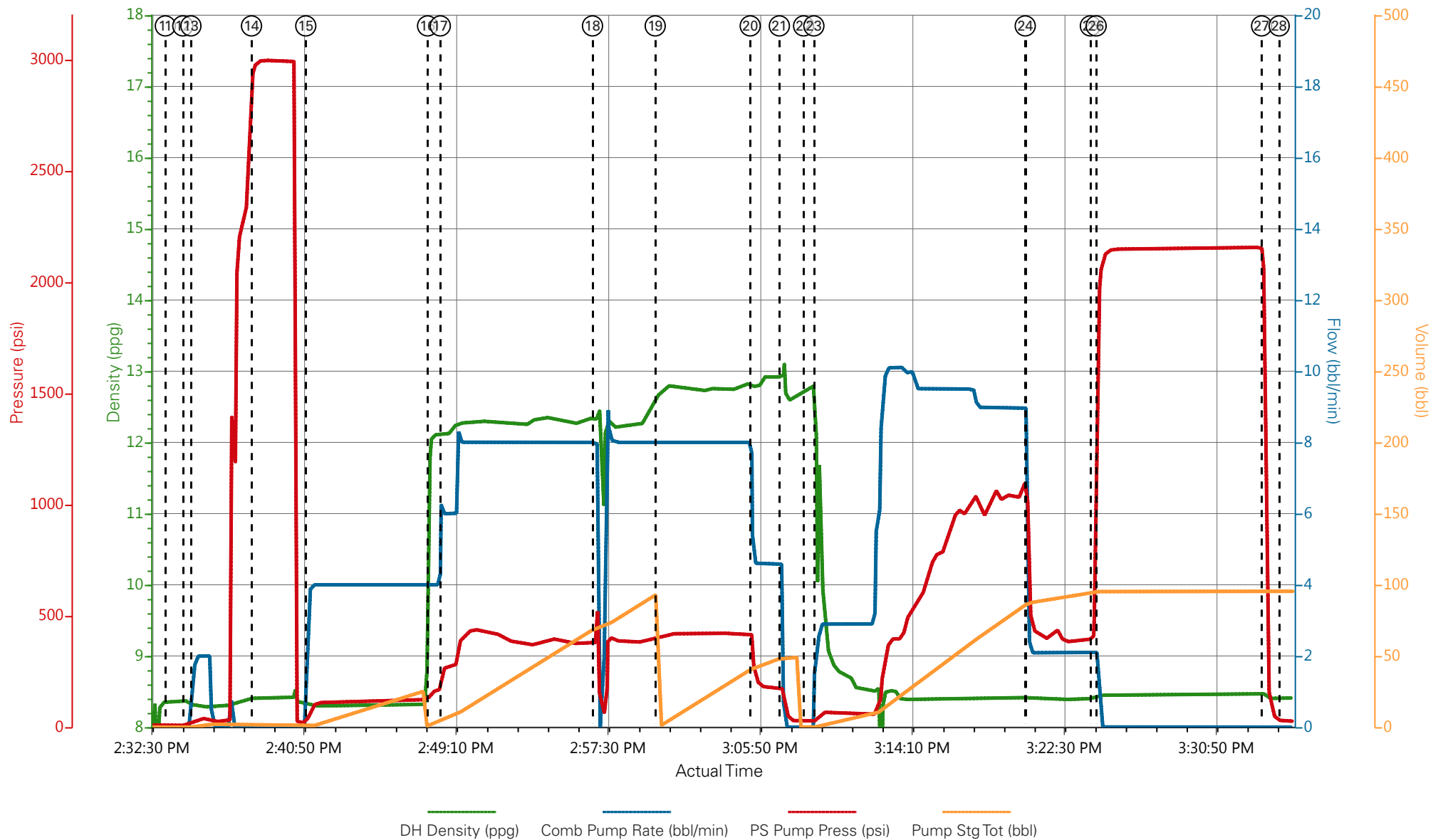
1.1 Job Event Log

| 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 | 4/10/2015 | 08:00:00 | USER | | | | | ON LOCATION TO BE @ 1500 |
| Event | 2 | Pre-Convoy Safety Meeting | 4/10/2015 | 10:45:00 | USER | | | | | ALL HES EMPLOYEES ATTENDED |
| Event | 3 | Crew Leave Yard | 4/10/2015 | 11:00:00 | USER | | | | | 1 HT 400 PUMP TRUCK E#7, 2 660 BULK TRUCK, 1 550 SERVICE PICKUP |
| Event | 4 | Arrive At Loc | 4/10/2015 | 13:00:00 | USER | | | | | RIG GETTING READY TO START CIRCULATING |
| Event | 5 | Assessment Of Location Safety Meeting | 4/10/2015 | 13:15:00 | USER | | | | | ALL HES EMPLOYEES ATTENDED |
| Event | 6 | Other | 4/10/2015 | 13:30:00 | USER | | | | | 1 HT 400 PUMP TRUCK E#7, 2 660 BULK TRUCK, 1 550 SERVICE PICKUP |
| Event | 7 | Pre-Rig Up Safety Meeting | 4/10/2015 | 13:45:00 | USER | | | | | ALL HES EMPLOYEES ATTENDED |
| Event | 8 | Rig-Up Equipment | 4/10/2015 | 13:50:00 | USER | | | | | 1 HT 400 PUMP TRUCK E#7, 2 660 BULK TRUCK, 1 550 SERVICE PICKUP |
| Event | 9 | Rig-Up Completed | 4/10/2015 | 14:20:00 | USER | | | | | RIG CIRCULATED FOR 1.5 HRS |
| Event | 10 | Pre-Job Safety Meeting | 4/10/2015 | 14:30:00 | USER | | | | | ALL HES AND RIG CREW ATTENDED |
| Event | 11 | Start Job | 4/10/2015 | 14:33:24 | COM8 | | | | | TD 1559', TP 1549', OH 11", SJ 46.14', SCG 8 5/8" 24# J-55, WF/WT 9.5 |

| | | | | | | | | | | |
|-------|----|-------------------|-----------|----------|------|------|-----|------|------|--|
| Event | 12 | Drop Bottom Plug | 4/10/2015 | 14:34:21 | USER | | | | | LOADED BOTTOM PLUG AND PRE LOADED TOP PLUG INTO PLUG CONTAINER |
| Event | 13 | Prime Pumps | 4/10/2015 | 14:34:48 | USER | 8.33 | 2.0 | 40 | 2 | FRESH WATER |
| Event | 14 | Test Lines | 4/10/2015 | 14:38:07 | COM8 | | | | 2997 | PRESSURE HELD @ 2997 PSI |
| Event | 15 | Pump Spacer 1 | 4/10/2015 | 14:41:05 | COM8 | 8.33 | 4.0 | 120 | 25 | FRESH WATER |
| Event | 16 | Pump Lead Cement | 4/10/2015 | 14:47:46 | COM8 | 12.3 | 8.0 | 390 | 84 | 192 SKS VARICEM CMT, 12.3 PPG, 2.46 YIELD, 14.17 GAL/SK |
| Event | 17 | Check Weight | 4/10/2015 | 14:48:27 | COM8 | 12.3 | | | | MUD CUP SAMPLE MATCHED RECIRC DENSITY |
| Event | 18 | Other | 4/10/2015 | 14:56:48 | USER | | | | 95 | BOTTOM PLUG PRESSURED UP AND HIT KICK OUTS |
| Event | 19 | Pump Tail Cement | 4/10/2015 | 15:00:14 | COM8 | 12.8 | 8.0 | 420 | 44 | 114 SKS VARICEM CMT, 12.8 PPG, 2.18 YIELD, 12.11 GAL / SK |
| Event | 20 | Slow Rate | 4/10/2015 | 15:05:27 | USER | | | | | SLOWED TO END CMT |
| Event | 21 | Shutdown | 4/10/2015 | 15:07:02 | USER | | | | | END OF CMT WASHING UP ONTOP OF PLUG |
| Event | 22 | Drop Top Plug | 4/10/2015 | 15:08:22 | COM8 | | | | | VERIFIED BY TATTLE TAIL |
| Event | 23 | Pump Displacement | 4/10/2015 | 15:08:56 | COM8 | 8.33 | 9.5 | 1080 | 85 | FRESH WATER |
| Event | 24 | Slow Rate | 4/10/2015 | 15:20:31 | USER | 8.33 | 2.0 | 385 | 10 | SLOWED TO BUMP PLUG |
| Event | 25 | Bump Plug | 4/10/2015 | 15:24:05 | COM8 | 8.33 | 2.0 | 410 | 95 | PLUG BUMPED BROUGHT UP TO 2000 PSI FOR CSG TEST |
| Event | 26 | Other | 4/10/2015 | 15:24:24 | USER | | | | 2146 | 10 MIN CSG TEST |
| Event | 27 | Check Floats | 4/10/2015 | 15:33:28 | USER | | | | 2156 | FLOATS HELD 1 BBL FLOW BACK |
| Event | 28 | End Job | 4/10/2015 | 15:34:26 | COM8 | | | | | GOOD RETURNS THROUGHOUT JOB 30 BBLS CMT TO SURFACE |

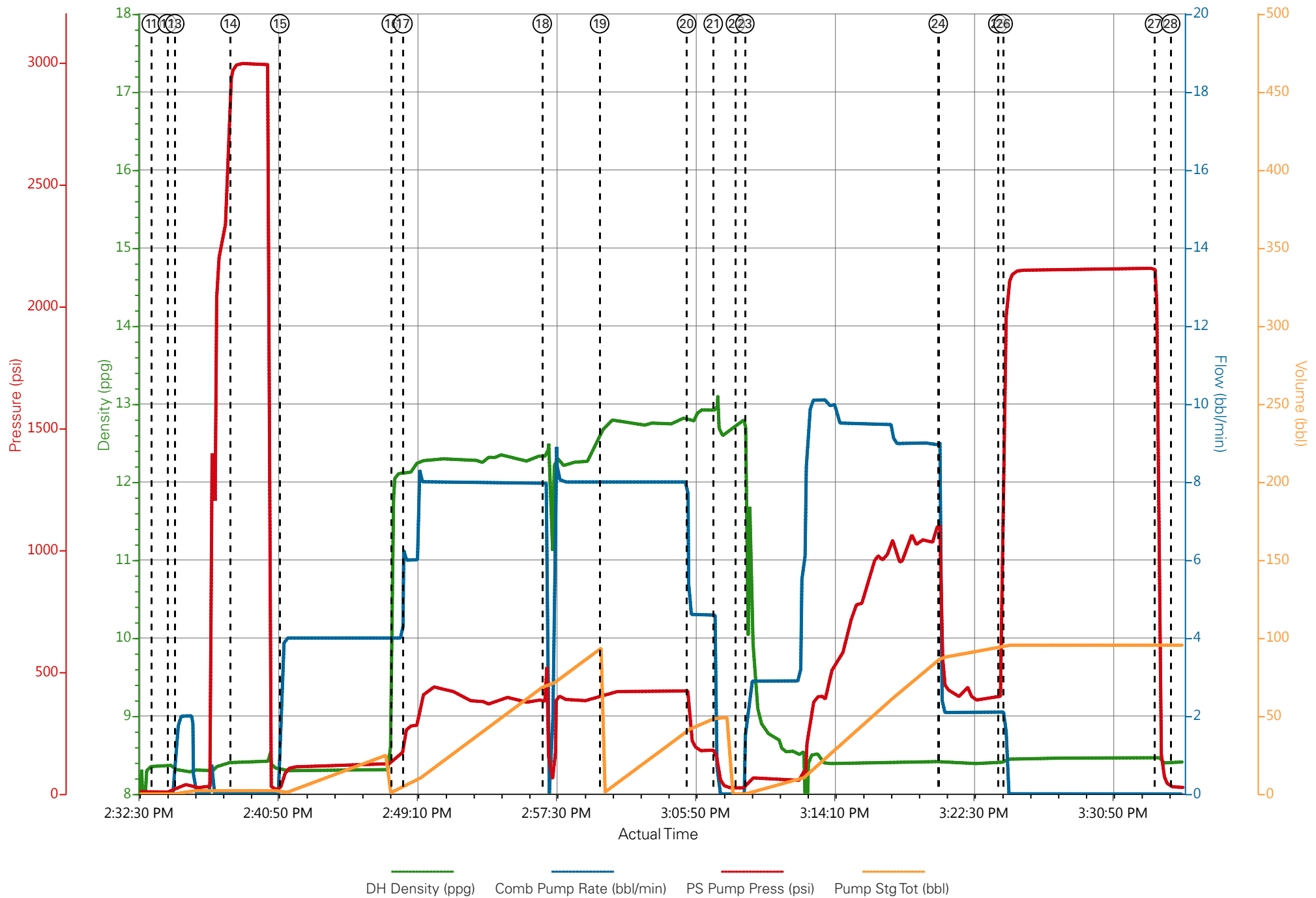
| | | | | | | |
|-------|----|--|-----------|----------|------|--|
| Event | 29 | Post-Job Safety Meeting (Pre Rig-Down) | 4/10/2015 | 15:44:49 | USER | ALL HES EMPLOYEES ATTENDED |
| Event | 30 | Rig-Down Equipment | 4/10/2015 | 15:55:00 | USER | 1 HT 400 PUMP TRUCK E#7, 2 660 BULK TRUCK, 1 550 SERVICE PICKUP |
| Event | 31 | Rig-Down Completed | 4/10/2015 | 16:30:00 | USER | NO INJURIES TO REPORT |
| Event | 32 | Pre-Convoy Safety Meeting | 4/10/2015 | 16:45:00 | USER | ALL HES EMPLOYEES ATTENDED |
| Event | 33 | Crew Leave Location | 4/10/2015 | 17:00:00 | USER | THANK YOU FOR USING HALLIBURTON CMT |

PICEANCE ENERGY GUNDERSON 29-09E 8 5/8" SURFACE



- | | | | | | | | |
|-----------------------------|---|--------------------------|--------------------|--------------------|----------------------|-----------------|--------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Rig-Up Completed | ⑬ Prime Lines | ⑰ Check weight | 21 Shutdown | 25 Bump Plug | 29 Pos |
| ② Pre-Convoy Safety Meeting | ⑥ Spot Equipment | ⑩ Pre-Job Safety Meeting | ⑭ Test Lines | ⑱ Kicked Out | 22 Drop Top Plug | 26 Casing Test | 30 Rig |
| ③ Crew Leave Yard | ⑦ Pre-Rig Up Safety Meeting | ⑪ Start Job | ⑮ Pump H2O Spacer | ⑲ Pump Tail Cement | 23 Pump Displacement | 27 Check Floats | 31 Rig |
| ④ Arrive At Loc | ⑧ Rig-Up Equipment | ⑫ Drop Bottom Plug | ⑯ Pump Lead Cement | 20 Slow Rate | 24 Slow Rate | 28 End Job | 32 Pre |

PICEANCE ENERGY GUNDERSON 29-09E 8 5/8" SURFACE



| | | |
|--|--------------------------------|---|
| Sales Order #: 0902313201 | Line Item: 10 | Survey Conducted Date: 4/10/2015 |
| Customer: PICEANCE ENERGY LLC - EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: | | 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 | 4/10/2015 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | HB43597 |
| Customer Participation | Did the customer participate in this survey? (Y/N) | No |
| Customer Representative | Enter the Customer representative name | |
| HSE | Was our HSE performance satisfactory? Circle Y or N | |
| Equipment | Were you satisfied with our Equipment? Circle Y or N | |
| Personnel | Were you satisfied with our people? Circle Y or N | |
| Customer Comment | Customer's Comment | |

| |
|---------------------------|
| CUSTOMER SIGNATURE |
|---------------------------|

| | | |
|--|--------------------------------|---|
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| Customer Representative: | | 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 |

KEY PERFORMANCE INDICATORS

| General | |
|-----------------------------------|-----------|
| Survey Conducted Date | 4/10/2015 |
| 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 | Vertical |
| 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 #: 0902313201 | Line Item: 10 | Survey Conducted Date: 4/10/2015 |
| Customer: PICEANCE ENERGY LLC - EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: | | 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 |

| | |
|--|------|
| 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 | 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 |