

HALLIBURTON

CONOCO/PHILLIPS COMPANY EBUSINESS

Watkins 30-5-8H

Weld County , Colorado

Cement Surface Casing

02-Mar-2014

Job Site Documents

Field Ticket

| | | | |
|---|--|---|--|
| Field Ticket Number: 901161083 | | Field Ticket Date: Sunday, March 02, 2014 | |
| Bill To: CONOCO/PHILLIPS COMPANY EBUSINESS DO NOT MAIL- 600 N DAIRY ASHFORD HOUSTON, TX 77079 | | Job Name: Surface Casing Order Type: Streamline Order (ZOH) Well Name: Watkins 30-5-8H Company Code: 1100 Customer PO No.: NA Shipping Point: Fort Lupton, CO, USA Sales Office: Rocky Mountains BD Well Type: Horizontal Gas Well Category: Development | |
| Ship To: CONOCO/PHILLIPS COMPANY EBUSINESS Watkins, 30-5-8H 3116871 SEC 30-T4S-R64W WATKINS, CO 80137 | | | |

| Material | Description | QTY | UOM | Base Amt | Unit Amt | Gross Amount | Discount | Net Amount |
|----------|--|-------|-----|----------|----------|--------------|----------|------------|
| 7521 | CMT SURFACE CASING BOM | 1 | JOB | 0.00 | 0.00 | 0.00 | 67% | 0.00 |
| 2 | MILEAGE FOR CEMENTING CREW,ZI | 78 | MI | 0.00 | 5.76 | 449.28 | 67% | 148.26 |
| | Number of Units | 1 | | | | | | |
| 1 | ZI-MILEAGE FROM NEAREST HES BASE,/UNIT | 78 | MI | 0.00 | 9.79 | 763.62 | 67% | 251.99 |
| | Number of Units | 1 | | | | | | |
| 16091 | ZI - PUMPING CHARGE | 1 | EA | 0.00 | 5,584.00 | 5,584.00 | 67% | 1,842.72 |
| | DEPTH | 2062 | | | | | | |
| | FEET/METERS (FT/M) | | FT | | | | | |
| 139 | ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI | 1 | JOB | 0.00 | 2,275.00 | 2,275.00 | 67% | 750.75 |
| | NUMBER OF UNITS | 1 | | | | | | |
| 130104 | PORT. DATA ACQUIS. W/OPTICEM RT W/HES | 1 | EA | 0.00 | 2,549.00 | 2,549.00 | 67% | 841.17 |
| | DAYS OR PARTIAL DAY(WHOLE NO.) | 1 | | | | | | |
| 114 | R/A DENSOMETER W/CHART RECORDER,/JOB,Z | 1 | JOB | 0.00 | 1,285.00 | 1,285.00 | 67% | 424.05 |
| | NUMBER OF UNITS | 1 | | | | | | |
| 90 | ZI QUICK LATCH ATTACHMENT | 1 | JOB | 0.00 | 616.00 | 616.00 | 67% | 203.28 |
| | SIZE IN INCHES/MILLIMETER | 9.625 | | | | | | |
| | INCHES/MILLIMETERS (IN/MM) | | IN | | | | | |
| 74038 | ZI PLUG CONTAINER RENTAL-1ST DAY | 1 | EA | 0.00 | 1,322.00 | 1,322.00 | 67% | 436.26 |
| | DAYS OR FRACTION (MIN1) | 1 | | | | | | |
| 7 | ENVIRONMENTAL CHARGE,/JOB,ZI | 1 | JOB | 0.00 | 134.00 | 134.00 | | 134.00 |
| 8 | IRON SAFETY INSPECTION SURCHARGE /JOB ZI | 1 | JOB | 0.00 | 83.00 | 83.00 | | 83.00 |
| 86954 | ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON | 78 | MI | 0.00 | 0.24 | 18.72 | | 18.72 |

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| Ship To: CONOCO/PHILLIPS COMPANY EBUSINESS Watkins, 30-5-8H 3116871 SEC 30-T4S-R64W WATKINS, CO 80137 | | | |

| Material | Description | QTY | UOM | Base Amt | Unit Amt | Gross Amount | Discount | Net Amount |
|---------------------------------------|---|-------|-----|---------------|------------|------------------|------------------|------------------|
| | Number of Units | 1 | | | | | | |
| 86955 | ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON | 78 | MI | 0.00 | 0.72 | 224.64 | | 224.64 |
| | Number of Units | 4 | | | | | | |
| 87605 | ZI FUEL SURCHG-CMT & CMT ADDITIVES | 39 | MI | 0.00 | 0.24 | 350.63 | | 350.63 |
| | NUMBER OF TONS | 37.46 | | | | | | |
| 372867 | Cmt PSL - DOT Vehicle Charge, CMT | 4 | EA | 0.00 | 241.00 | 964.00 | | 964.00 |
| 76400 | ZI MILEAGE,CMT MTLS DEL/RET MIN | 39 | MI | 0.00 | 3.35 | 4,414.66 | 67% | 1,456.84 |
| | NUMBER OF TONS | 33.79 | | | | | | |
| 3965 | HANDLE&DUMP SVC CHRGR, CMT&ADDITIVES,ZI | 832 | CF | 0.00 | 5.49 | 4,567.68 | 67% | 1,507.33 |
| | NUMBER OF EACH | 1 | | | | | | |
| | Unit of Measurement | 0 | | | | | | |
| 719269 | CLEANS PACER III | 50 | BBL | 0.00 | 250.00 | 12,500.00 | 67% | 4,125.00 |
| 100003691 | SAND-200 MESH SILICA FLOUR SSA-1 | 7273 | LB | | 0.00 | 0.00 | | 0.00 |
| 102077046 | CHEM, SA-1015, 50 LB SACK | 77 | LB | | 0.00 | 0.00 | | 0.00 |
| 452990 | SWIFTCHEM (TM) SYSTEM | 200 | SK | | | 12,854.80 | 67% | 4,242.08 |
| 452990 | SWIFTCHEM (TM) SYSTEM | 450 | SK | | | 28,861.44 | 67% | 9,524.28 |
| Halliburton Rep: JOSEPH BARRAS | | | | Totals | USD | 79,817.47 | 52,288.47 | 27,529.00 |
| Customer Agent: James Hayden | | | | | | | | |
| Halliburton Approval | | | | | | | | |

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| Ship To: CONOCO/PHILLIPS COMPANY EBUSINESS Watkins, 30-5-8H 3116871 SEC 30-T4S-R64W WATKINS, CO 80137 | | | |

| Material | Description | QTY | UOM | Base Amt | Unit Amt | Gross Amount | Discount | Net Amount |
|--|-------------|-----|-----|----------|----------|--------------|----------|------------|
| THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS. | | | | | | | | |

X

 Customer Signature

FIELD TICKET TOTAL: USD

27,529.00

Was our HSE performance satisfactory? **Y or N**
 (Health, Safety, Environment)

Were you satisfied with our Equipment? **Y or N**

Were you satisfied with our people? **Y or N**

Comments

| Customer Information Only |
|---------------------------|
| COP plant code |
| COP approver/user ID |
| Network# |
| Activity code |
| OLA Number |
| |
| |

The Road to Excellence Starts with Safety

| | | | |
|---|--------------------------------|---------------------------------|--------------------------|
| Sold To #: 352431 | Ship To #: 3116871 | Quote #: | Sales Order #: 901161083 |
| Customer: CONOCO/PHILLIPS COMPANY EBUSINESS | | Customer Rep: Hayen, James | |
| Well Name: Watkins | Well #: 30-5-8H | API/UWI #: 05-005-07189 | |
| Field: | City (SAP): WATKINS | County/Parish: Weld | State: Colorado |
| Contractor: H&P | Rig/Platform Name/Num: H&P 280 | | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: GROFF, THEODORE | | Srv Supervisor: BARRAS, JOSEPH | MBU ID Emp #: 405168 |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---------------------|---------|--------|--------------------|---------|--------|----------------------|---------|--------|
| BANUELOS, GUADALUPE | 7 | 372277 | BARNES, BRIAN L | 7 | 485204 | BARRAS, JOSEPH Corey | 7 | 405168 |
| MAYFIELD, BYRON L | 7 | 528751 | SCILEPPI, JOSEPH D | 7 | 555492 | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10866497C | 39 mile | 11064535 | 39 mile | 11518548 | 39 mile | 11764737 | 39 mile |
| 11808819C | 39 mile | 11923776C | 39 mile | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|-------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| TOTAL | | | | | | | | |

Total is the sum of each column separately

Job

| Formation Name | Formation Depth (MD) | Top | Bottom | Form Type | Job depth MD | Job Depth TVD | Water Depth | Perforation Depth (MD) | From | To |
|----------------|----------------------|-----|--------|-----------|--------------|---------------|-------------|------------------------|------|----|
| | | | | BHST | 2062. ft | 2062. ft | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Job Times

| Date | Time | Time Zone |
|------|------|-----------|
| | | |
| | | |
| | | |
| | | |
| | | |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbf/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|---------------------------------------|-----|---------|-------|----------|
| CMT SURFACE CASING BOM | 0 | JOB | | |
| SHOE,FLT,9-5/8 8RD,2-3/4 SUPER SEAL | 1 | EA | | |
| CLR,FLT,9-5/8 8RD 29.3-40PPF,2-3/4 | 1 | EA | | |
| CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED | 25 | EA | | |
| COLLAR-STOP-9 5/8"-FRICTION-HINGED | 1 | EA | | |
| KIT,HALL WELD-A | 1 | EA | | |
| MILEAGE FOR CEMENTING CREW,ZI | 100 | MI | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

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 /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk | |
| 1 | Clean Spacer III | | 50.00 | bbl | 10.5 | 3.86 | 24.21 | .0 | | |
| 2 | SwiftCem B2 | SWIFTCEM (TM) SYSTEM (452990) | 450.0 | sacks | 12. | 2.57 | 15.14 | | 15.14 | |
| | 15.14 Gal | FRESH WATER | | | | | | | | |
| 3 | SwiftCem B2 | SWIFTCEM (TM) SYSTEM (452990) | 200.0 | sacks | 13. | 2.01 | 11.03 | | 11.03 | |
| | 11.03 Gal | FRESH WATER | | | | | | | | |
| Calculated Values | | Pressures | | Volumes | | | | | | |
| Displacement | | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | | Pad | | |
| Top Of Cement | 0 | 5 Min | | Cement Returns | 66 | Actual Displacement | | Treatment | | |
| Frac Gradient | | 15 Min | | Spacers | 50 | Load and Breakdown | | Total Job | | |
| Rates | | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | | |
| Cement Left In Pipe | Amount | 0 ft | Reason | Shoe Joint | | | | | | |
| Frac Ring # 1 @ | ID | | Frac ring # 2 @ | ID | | Frac Ring # 3 @ | ID | | Frac Ring # 4 @ | ID |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | | |

The Road to Excellence Starts with Safety

| | | | |
|---|---------------------------------|---|--------------------------|
| Sold To #: 352431 | Ship To #: 3116871 | Quote #: | Sales Order #: 901161083 |
| Customer: CONOCO/PHILLIPS COMPANY EBUSINESS | | Customer Rep: Hayen, James | |
| Well Name: Watkins | Well #: 30-5-8H | API/UWI #: 05-005-07189 | |
| Field: | City (SAP): WATKINS | County/Parish: Weld | State: Colorado |
| Legal Description: | | | |
| Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. | | Long: E 0 deg. OR E 0 deg. 0 min. 0 secs. | |
| Contractor: H&P | Rig/Platform Name/Num: H&P 280 | | |
| Job Purpose: Cement Surface Casing | | Ticket Amount: | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: GROFF, THEODORE | Srv Supervisor: BARRAS, JOSEPH | MBU ID Emp #: 405168 | |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Arrive at Location from Service Center | 03/02/2014 12:55 | | | | | | | |
| Rig-Up Equipment | 03/02/2014 13:35 | | | | | | | |
| Rig-Up Completed | 03/02/2014 15:00 | | | | | | | |
| Safety Meeting - Pre Job | 03/02/2014 15:15 | | | | | | | with HES and rig crew |
| Start Job | 03/02/2014 16:35 | | | | | | | |
| Test Lines | 03/02/2014 16:40 | | | | | | | test lines to 2500 psi with no visible leaks |
| Pump Spacer 1 | 03/02/2014 16:46 | | 4 | 50 | | | 94.0 | clean spacer mixed with rig water @ 10.5 ppg/3.86 yield /24.21 gal /sk |
| Drop Top Plug | 03/02/2014 17:00 | | | | | | | PRELOADED AND WITNESSED BY COMPANYMAN |
| Pump Lead Cement | 03/02/2014 17:03 | | 7 | 205 | | | 158.0 | mixed with rig water @ 12.0 ppg /450 sks /2.57 yield/15.14 gal/sk |
| Pump Tail Cement | 03/02/2014 17:38 | | 6 | 72 | | | 149.0 | mixed with rig water @ 13.0 ppg/ 200 sks /2.01 yield /11.03 gal/sk |
| Shutdown | 03/02/2014 17:51 | | | | | | | wassh pumps and lines |
| Drop Top Plug | 03/02/2014 17:51 | | | | | | | preloaded and witnessed by companyman |
| Pump Displacement | 03/02/2014 17:56 | | 6 | 156 | | | 510.0 | rig water |
| Bump Plug | 03/02/2014 18:26 | | 2 | | | | 1103.0 | |
| Check Floats | 03/02/2014 18:28 | | | | | | | held with 2 bbl back to truck |

Sold To #: 352431

Ship To #: 3116871

Quote #:

Sales Order #: 901161083

SUMMIT Version: 7.3.0124

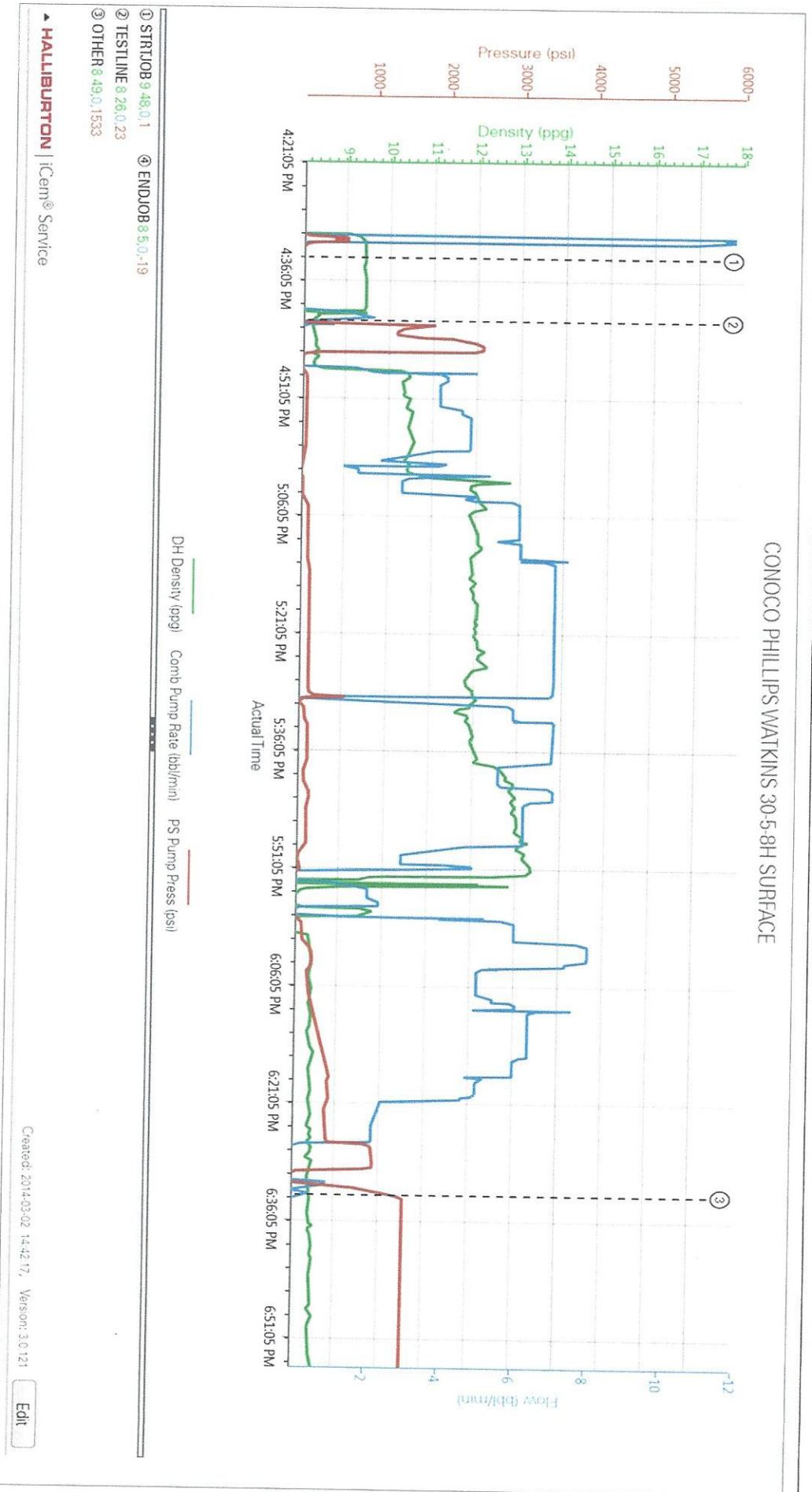
Sunday, March 02, 2014 07:30:00

Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments | |
|--------------------------------------|---------------------|----------|---------------------|---------------|-------|------------------|------------|------------------------|--|
| | | | | Stage | Total | Tubing | Casing | | |
| Other | 03/02/2014 18:30 | | | | | | 1500. 0 | casing test for 30 min | |
| End Job | 03/02/2014 19:02 | | | | | | | | |
| Rig-Down Equipment | 03/02/2014 19:10 | | | | | | | | |
| Return to Service Center from Job | 03/02/2014 20:30 | | | | | | | | |

4.0 Attachments

4.1 CONOCO PHILLIPS WATKINS 30-5-8H SURFACE-Custom Results.png



HALLIBURTON

CONOCO PHILLIPS

901161083

CONOCO PHILLIPS WATKINS 30-5-8H SURFACE

3.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | DH Density (ppg) | Comb Pump Rate (bbl/min) | PS Pump Press (psi) | Comment |
|-------|----------|----------|-------------|----------|----------|--------|------------------|--------------------------|---------------------|---------|
| Event | 1 | STRTOB | STRTOB | 3/2/2014 | 16:33:33 | COM4 | 9.48 | 0.00 | 1.00 | |
| Event | 2 | TESTLINE | TESTLINE | 3/2/2014 | 16:41:34 | COM4 | 8.26 | 0.00 | 23.00 | |
| Event | 3 | OTHER | OTHER | 3/2/2014 | 18:33:08 | COM4 | 8.49 | 0.00 | 1533.00 | |
| Event | 4 | ENDJOB | ENDJOB | 3/2/2014 | 19:02:35 | COM4 | 8.50 | 0.00 | -19.00 | |

Water Analysis For Cement Mixing Water

Company: CONOCO/PHILLIP S COMPANY
 Lease: Watkins
 Well Name, Nbr: Watkins, 30-5-8H
 Rig Name/Nbr: H&P 280
 County: Weld
 State: Colorado
 API No. /UWI: 05-005-07189
 Country: United States of America

FIELD TEST KIT

NOTE: These tests are an indication of POTENTIAL contamination and are not conclusive.
 For more comprehensive results, a sample should be submitted to the Local Area Lab

Date 02-Mar-2014
 Service Supervisor BARRAS, JOSEPH

Ticket Number 901161083
 Water Source FRAC TANK

Temperature < 80 [<80 F]
 pH. 7 [between 6-8 pH]
 Specific Gravity .0005 [1.000 - 1.005 see Chart]
 Chart in Kit shows comparisons of: Chlorides [<3,000 ppm @ 1.004 S.G.]
 Calcium [<500 ppm @ 1.004 S.G.]

| | | | |
|--------------------------|--------------------------|---|-------------------------------|
| PASS | FAIL | <u>Nessler's Nitrogen</u> | [<i>Passing Parameters</i>] |
| <input type="checkbox"/> | <input type="checkbox"/> | Color of Yellow <u>< 4.5</u> | [<i><4.5 ppm (mg/L)</i>] |
| | | <u>Tannin-Lignin</u> | |
| <input type="checkbox"/> | <input type="checkbox"/> | Color of Blue <u>< 25</u> | [<i><25.0 ppm</i>] |
| | | <u>Sulfate</u> | |
| | | Degree of Clarity <u>[200 ppm]</u> | |
| <input type="checkbox"/> | <input type="checkbox"/> | Black X Visible <u>[if NO >200 ppm = FAIL]</u> | |
| | | <u>Iron (Fe)</u> | |
| <input type="checkbox"/> | <input type="checkbox"/> | Degree of Orange <u>< 20</u> | [<i><20.0 ppm</i>] |