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# **NOBLE ENERGY INC E-BUSINESS**

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**Swan E28-8  
WATTENBERG  
Weld County , Colorado**

## **Squeeze Hole in Casing** **28-Nov-2012**

### **Job Site Documents**

## Field Ticket

|  |  |  |  |
|--|--|--|--|
| Field Ticket Number: 900035271   |  | Field Ticket Date: Wednesday, November 28, 2012  |  |
| <b>Bill To:</b><br>NOBLE ENERGY INC E-BUSINESS<br>DO NOT MAIL-100 GLENBOROUGH DR<br>HOUSTON, TX 77067-3610 |  | <b>Job Name:</b> Swan<br><b>Order Type:</b> Streamline Order (ZOH)<br><b>Well Name:</b> Swan E28-8<br><b>Company Code:</b> 1100<br><b>Customer PO No.:</b> NA<br><b>Shipping Point:</b> Brighton, CO, USA<br><b>Sales Office:</b> Rocky Mountains BD<br><b>Well Type:</b> Gas<br><b>Well Category:</b> Development |  |
| <b>Ship To:</b><br>NOBLE SWAN E28-8,WELD<br>SWAN E28-8<br>2966500<br>S28 6N 65W<br>GREELEY, CO 80631       |  |  |  |

| Material | Description                              | QTY | UOM | Base Amt | Unit Amt | Gross Amount | Discount | Net Amount |
|----------|--|-----|-----|----------|----------|--------------|----------|------------|
| 14118    | CMT SQUEEZE HOLE IN CASING BOM           | 1   | JOB | 0.00     | 0.00     | 0.00         |          | 0.00       |
| 2        | MILEAGE FOR CEMENTING CREW,ZI            | 70  | MI  | 0.00     | 5.76     | 403.20       | 60%      | 161.28     |
|          | Number of Units                          | 1   |     |          |          |              |          |            |
| 1        | ZI-MILEAGE FROM NEAREST HES BASE,/UNIT   | 70  | MI  | 0.00     | 9.79     | 685.30       | 60%      | 274.12     |
|          | Number of Units                          | 1   |     |          |          |              |          |            |
| 76400    | ZI MILEAGE,CMT MTLs DEL/RET MIN          | 35  | MI  | 0.00     | 3.35     | 551.08       | 60%      | 220.43     |
|          | NUMBER OF TONS                           | 4.7 |     |          |          |              |          |            |
| 3965     | HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI   | 100 | CF  | 0.00     | 5.49     | 549.00       | 60%      | 219.60     |
|          | NUMBER OF EACH                           | 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      |
| 372867   | Cmt PSL - DOT Vehicle Charge, CMT        | 2   | EA  | 0.00     | 241.00   | 482.00       |          | 482.00     |
| 86954    | ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON     | 70  | MI  | 0.00     | 0.17     | 11.90        |          | 11.90      |
|          | Number of Units                          | 1   |     |          |          |              |          |            |
| 86955    | ZI FUEL SURCHG-HEAVY TRKS >1 1/2 TON     | 70  | MI  | 0.00     | 0.51     | 35.70        |          | 35.70      |
|          | Number of Units                          | 1   |     |          |          |              |          |            |
| 87605    | ZI FUEL SURCHG-CMT & CMT ADDITIVES       | 35  | MI  | 0.00     | 0.17     | 27.97        |          | 27.97      |
|          | NUMBER OF TONS                           | 4.7 |     |          |          |              |          |            |
| 114      | R/A DENSOMETER W/CHART RECORDER,/JOB,ZI  | 1   | JOB | 0.00     | 1,285.00 | 1,285.00     | 60%      | 514.00     |
|          | NUMBER OF UNITS                          | 1   |     |          |          |              |          |            |
| 139      | ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI     | 1   | JOB | 0.00     | 2,275.00 | 2,275.00     | 60%      | 910.00     |

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| <b>Bill To:</b><br>NOBLE ENERGY INC E-BUSINESS<br>DO NOT MAIL-100 GLENBOROUGH DR<br>HOUSTON, TX 77067-3610 |  | <b>Job Name:</b> Swan<br><b>Order Type:</b> Streamline Order (ZOH)<br><b>Well Name:</b> Swan E28-8<br><b>Company Code:</b> 1100<br><b>Customer PO No.:</b> NA<br><b>Shipping Point:</b> Brighton, CO, USA<br><b>Sales Office:</b> Rocky Mountains BD<br><b>Well Type:</b> Gas<br><b>Well Category:</b> Development |  |
| <b>Ship To:</b><br>NOBLE SWAN E28-8,WELD<br>SWAN E28-8<br>2966500<br>S28 6N 65W<br>GREELEY, CO 80631       |  |  |  |

| Material  | Description                          | QTY  | UOM | Base Amt      | Unit Amt   | Gross Amount     | Discount         | Net Amount      |
|-----------|--------------------------------------|------|-----|---------------|------------|------------------|------------------|-----------------|
|           | NUMBER OF UNITS                      | 1    |     |               |            |                  |                  |                 |
| 132       | PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI | 1    | JOB | 0.00          | 1,649.00   | 1,649.00         | 60%              | 659.60          |
|           | NUMBER OF DAYS                       | 1    |     |               |            |                  |                  |                 |
| 100003685 | CLASS G / PREMIUM                    | 101  | SK  | 0.00          | 38.76      | 3,914.76         | 60%              | 1,565.90        |
| 16097     | SQUEEZE PUMPING CHARGE,ZI            | 1    | EA  | 0.00          | 7,271.00   | 7,271.00         | 60%              | 2,908.40        |
|           | DEPTH                                | 3626 |     |               |            |                  |                  |                 |
|           | FEET/METERS (FT/M)                   |      | FT  |               |            |                  |                  |                 |
| 100008028 | SUGAR, GRANULATED, IMPERIAL          | 50   | LB  | 0.00          | 6.44       | 322.00           | 60%              | 128.80          |
|           |                                      |      |     | <b>Totals</b> | <b>USD</b> | <b>19,679.91</b> | <b>11,343.21</b> | <b>8,336.70</b> |

Halliburton Rep: BRANDON NIELSON

Customer Agent: CHRIS HOHNSTDIN

Halliburton Approval

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

FIELD TICKET TOTAL: USD

8,336.70

Customer Signature

 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

AFE/Project Number

## Field Ticket

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| <b>Field Ticket Number:</b> 900035271  |  | <b>Field Ticket Date:</b> Wednesday, November 28, 2012   |  |
| <b>Bill To:</b><br>NOBLE ENERGY INC E-BUSINESS<br>DO NOT MAIL-100 GLENBOROUGH DR<br>HOUSTON, TX 77067-3610 |  | <b>Job Name:</b> Swan<br><b>Order Type:</b> Streamline Order (ZOH)<br><b>Well Name:</b> Swan E28-8<br><b>Company Code:</b> 1100<br><b>Customer PO No.:</b> NA<br><b>Shipping Point:</b> Brighton, CO, USA<br><b>Sales Office:</b> Rocky Mountains BD<br><b>Well Type:</b> Gas<br><b>Well Category:</b> Development |  |
| <b>Ship To:</b><br>NOBLE SWAN E28-8,WELD<br>SWAN E28-8<br>2966500<br>S28 6N 65W<br>GREELEY, CO 80631       |  |  |  |

| Material | Description         | QTY | UOM | Base Amt | Unit Amt | Gross Amount | Discount | Net Amount |
|----------|---------------------|-----|-----|----------|----------|--------------|----------|------------|
|          | Lease/Well Number   |     |     |          |          |              |          |            |
|          | Operation Category  |     |     |          |          |              |          |            |
|          | Noble Remit-To Dept |     |     |          |          |              |          |            |
|          |                     |     |     |          |          |              |          |            |



*The Road to Excellence Starts with Safety*

|                                       |                     |                                  |                          |
|---------------------------------------|---------------------|----------------------------------|--------------------------|
| Sold To #: 345242                     | Ship To #: 2966500  | Quote #:                         | Sales Order #: 900035271 |
| Customer: NOBLE ENERGY INC E-BUSINESS |                     | Customer Rep: HOHNSTDIN, CHRIS   |                          |
| Well Name: Swan                       |                     | Well #: E28-8                    | API/UWI #: 05-123-16654  |
| Field: WATTENBERG                     | City (SAP): GREELEY | County/Parish: Weld              | State: Colorado          |
| Contractor: Leed                      |                     | Rig/Platform Name/Num: Leed 715  |                          |
| Job Purpose: Squeeze Hole in Casing   |                     |                                  |                          |
| Well Type: Development Well           |                     | Job Type: Squeeze Hole in Casing |                          |
| Sales Person: AARON, WESLEY           |                     | Srv Supervisor: NIELSON, BRANDON | MBU ID Emp #: 479703     |

## Job Personnel

| HES Emp Name              | Exp Hrs | Emp #  | HES Emp Name       | Exp Hrs | Emp #  | HES Emp Name     | Exp Hrs | Emp #  |
|---------------------------|---------|--------|--------------------|---------|--------|------------------|---------|--------|
| CHAVEZ, JEROME Christophe | 5.0     | 458298 | NIELSON, BRANDON K | 5.0     | 479703 | ROMERO, JOSEPH M | 5.0     | 512137 |
| SIMS, DENNIS A            | 5.0     | 158880 |                    |         |        |                  |         |        |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 11036298   | 35 mile        | 11812069C  | 35 mile        | 12010167   | 35 mile        | 12010172   | 35 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

## Job Times

| Formation Name         | Formation Depth (MD) | Top               | Bottom   | Called Out    | Date            | Time  | Time Zone |
|------------------------|----------------------|-------------------|----------|---------------|-----------------|-------|-----------|
| Form Type              |                      | BHST              |          | On Location   | 28 - Nov - 2012 | 07:30 | MST       |
| Job depth MD           | 3626. ft             | Job Depth TVD     | 3626. ft | Job Started   | 28 - Nov - 2012 | 09:30 | MST       |
| Water Depth            |                      | Wk Ht Above Floor | 5. ft    | Job Completed | 28 - Nov - 2012 | 12:00 | MST       |
| Perforation Depth (MD) | From                 | To                |          | Departed Loc  | 28 - Nov - 2012 | 12:30 | MST       |

## Well Data

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

## 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 ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---------|------------|------------|-----|---------|------------------------|--------------|------------------|--------------|------------------------|
|---------|------------|------------|-----|---------|------------------------|--------------|------------------|--------------|------------------------|

### Stage/Plug #: 1

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density uom | Yield uom | Mix Fluid uom | Rate uom | Total Mix Fluid uom |
|---------|------------|------------|-----|---------|--------------------|-----------|---------------|----------|---------------------|
|---------|------------|------------|-----|---------|--------------------|-----------|---------------|----------|---------------------|



| Stage/Plug #: 1                          |              |   |           |                                   |                        |                           |                  |              |                        |  |
|--|--------------|---|-----------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|--|
| Fluid #                                  | Stage Type   | Fluid Name  | Qty       | Qty uom                           | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |  |
| 1  | 15.8# Cement | CMT - PREMIUM - CLASS G, 94 LB SK (100003685)           | 100.0     | sacks                             | 15.8                   | 1.15                      | 4.99             |              | 4.99                   |  |
| 94 lbm                                   |              | CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685) |           |                                   |                        |                           |                  |              |                        |  |
| 4.989 Gal                                |              | FRESH WATER   |           |                                   |                        |                           |                  |              |                        |  |
| Calculated Values                        |              |   | Pressures |                                   | Volumes                |                           |                  |              |                        |  |
| Displacement                             |              | Shut In: Instant  |           | Lost Returns                      | 0                      | Cement Slurry             |                  | Pad          |                        |  |
| Top Of Cement                            |              | 5 Min   |           | Cement Returns                    | 0                      | Actual Displacement       |                  | Treatment    |                        |  |
| Frac Gradient                            |              | 15 Min  |           | Spacers                           | 0                      | 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 |                        |                           |                  |              |                        |  |

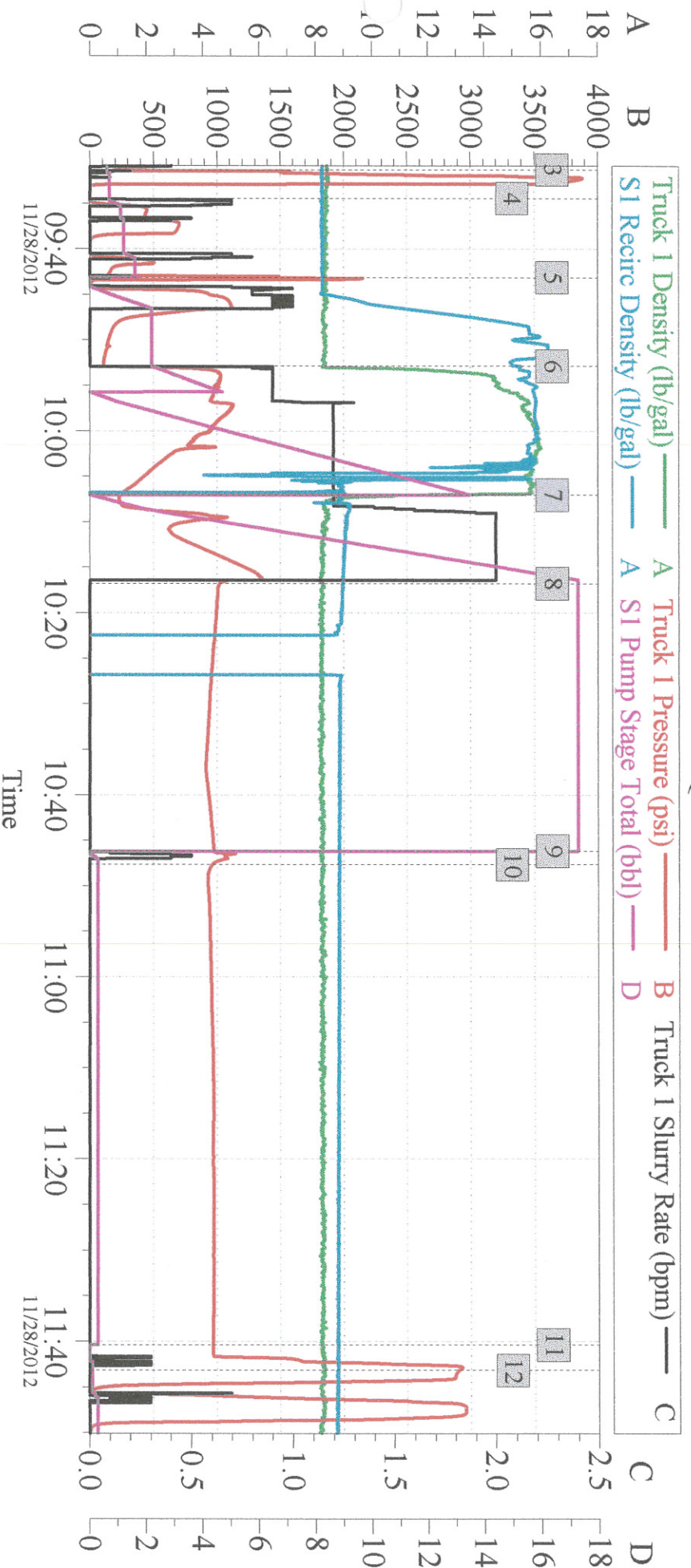
*The Road to Excellence Starts with Safety*

|  |  |                     |                                  |   |                         |                          |  |
|--|--|---------------------|----------------------------------|---|-------------------------|--------------------------|--|
| Sold To #: 345242                        |  | Ship To #: 2966500  |                                  | Quote #:                                  |                         | Sales Order #: 900035271 |  |
| Customer: NOBLE ENERGY INC E-BUSINESS    |  |                     |                                  | Customer Rep: HOHNSTDIN, CHRIS            |                         |                          |  |
| Well Name: Swan                          |  |                     | Well #: E28-8                    |   | API/UWI #: 05-123-16654 |                          |  |
| Field: WATTENBERG                        |  | City (SAP): GREELEY |                                  | 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: Leed                         |  |                     | Rig/Platform Name/Num: Leed 715  |   |                         |                          |  |
| Job Purpose: Squeeze Hole in Casing      |  |                     |                                  |   |                         | Ticket Amount:           |  |
| Well Type: Development Well              |  |                     | Job Type: Squeeze Hole in Casing |   |                         |                          |  |
| Sales Person: AARON, WESLEY              |  |                     | Srv Supervisor: NIELSON, BRANDON |   | MBU ID Emp #: 479703    |                          |  |

| Activity Description | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|----------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
|                      |                  |       |              | Stage      | Total | Tubing        | Casing |  |
| Test Lines           | 11/28/2012 09:31 |       |              |            |       |               |        | TESTED LINES TO 4000 PSI NO VISIBLE LEAKS          |
| Test Lines           | 11/28/2012 09:34 |       |              |            |       |               | 500.0  | PRESSURE UP BACKSIDE AS PER COMPANY REP            |
| Pump Spacer 1        | 11/28/2012 09:43 |       | 1            | 2          |       | 1090.0        |        | FRESH WATER TO ESTABLISH INJECTION RATE            |
| Pump Cement          | 11/28/2012 09:52 |       | 1.2          | 20.4       |       | 1150.0        |        | 100 SKS PREMIUME G MIXED @ 15.8 # WITH FRESH WATER |
| Pump Displacement    | 11/28/2012 10:07 |       | 2            | 22.5       |       | 1323.0        |        | FRESH WATER  |
| Shutdown             | 11/28/2012 10:16 |       |              |            |       |               |        | HESITATE 30 MINUTES                                |
| Pump Spacer 1        | 11/28/2012 10:46 |       | 0.25         | 0.25       |       | 1340.0        |        | FRESH WATER ATTEMPT TO SQUEEZE                     |
| Shutdown             | 11/28/2012 10:47 |       |              |            |       |               |        | HESITATE 1 HOUR                                    |
| Pump Spacer 1        | 11/28/2012 11:40 |       | 0.25         | 0.25       |       | 3000.0        |        | HOLES SQUEEZED                                     |
| End Job              | 11/28/2012 11:53 |       |              |            |       |               |        |  |



# NOBLE SWAN E28-8 4.5 SQUEEZE



## Global Event Log

| Intersection |                   | T1P      |        | Intersection |               | T1P      |        | Intersection |               | T1P      |       |
|--------------|-------------------|----------|--------|--------------|---------------|----------|--------|--------------|---------------|----------|-------|
| 1            | Starting Job      | 08:45:22 | -101.0 | 2            | Start Job     | 09:29:29 | -99.00 | 3            | Test Lines    | 09:31:16 | 214.1 |
| 4            | Test Lines        | 09:34:26 | -9.000 | 5            | Pump Spacer 1 | 09:43:07 | 1278   | 6            | Pump Cement   | 09:52:50 | 107.2 |
| 7            | Pump Displacement | 10:07:01 | 246.6  | 8            | Shutdown      | 10:16:47 | 1026   | 9            | Pump Spacer 1 | 10:46:11 | 979.0 |
| 10           | Shutdown          | 10:47:40 | 964.8  | 11           | Pump Spacer 1 | 11:40:23 | 974.0  | 12           | Other         | 11:43:11 | 2906  |
| 13           | End Job           | 11:53:03 | 3.000  | 14           | Ending Job    | 11:53:36 | 3.000  |              |               |          |       |

Customer: NOBLE  
Well Description: SQUEEZE  
SERVICE SUPERVISOR BRANDON NIELSON

Job Date: 28-Nov-2012  
UWI: 05-123-16654  
OPERATOR JEROME CHAVEZ

Sales Order #: 900035271  
PUMP 11812069

OptiCem v6.4.10  
28-Nov-12 11:55



## Water Analysis For Cement Mixing Water

|               |                                |              |          |                 |                          |
|---------------|--------------------------------|--------------|----------|-----------------|--------------------------|
| Company:      | NOBLE ENERGY<br>INC E-BUSINESS | Lease:       | Swan     | Well Name, Nbr: | Swan, E28-8              |
| Rig Name/Nbr: | Leed 715                       | API No. /UWI |          | 05-123-16654    |                          |
| County:       | Weld                           | State:       | Colorado | 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               | 28-Nov-2012      | Ticket Number | 900035271   |
| Service Supervisor | NIELSON, BRANDON | Water Source  | WATER TRUCK |

|                                    |             |                           |
|------------------------------------|-------------|---------------------------|
| Temperature                        | 49.9        | [<80 F]                   |
| pH.                                | 7           | [between 6-8 pH]          |
| Specific Gravity                   |             | [1.000 - 1.005 see Chart] |
| Chart in Kit shows comparisons of: | Chlorides 0 | [<3,000 ppm @ 1.004 S.G.] |
|                                    | Calcium     | [<500 ppm @ 1.004 S.G.]   |

|                          |                          |                                  |                          |
|--------------------------|--------------------------|----------------------------------|--------------------------|
| PASS                     | FAIL                     | <b><u>Nessler's Nitrogen</u></b> | [Passing Parameters]     |
| <input type="checkbox"/> | <input type="checkbox"/> | Color of Yellow                  | [<4.5 ppm (mg/L)]        |
|                          |                          |                                  |                          |
|                          |                          | <b><u>Tannin-Lignin</u></b>      |                          |
| <input type="checkbox"/> | <input type="checkbox"/> | Color of Blue                    | [<25.0 ppm]              |
|                          |                          |                                  |                          |
|                          |                          | <b><u>Sulfate</u></b>            | <200                     |
|                          |                          | Degree of Clarity                | [200 ppm]                |
| <input type="checkbox"/> | <input type="checkbox"/> | Black X Visible                  | [if NO > 200 ppm = FAIL] |
|                          |                          |                                  |                          |
|                          |                          | <b><u>Iron (Fe)</u></b>          | 0                        |
| <input type="checkbox"/> | <input type="checkbox"/> | Degree of Orange                 | [<20.0 ppm]              |