

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                     |        |
|-----------------------------------------------------------------------------------------------------|--------|
| WELL API NO.<br>30-025-21617                                                                        |        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |        |
| 6. State Oil & Gas Lease No.<br>312479                                                              |        |
| 7. Lease Name or Unit Agreement Name<br>NVAU                                                        |        |
| 8. Well Number                                                                                      | 109    |
| 9. OGRID Number                                                                                     | 298299 |
| 10. Pool name or Wildcat<br>VACUUM; ABO, NORTH                                                      |        |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>4072 KB                                       |        |

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator  
CROSS TIMBERS ENERGY, LLC

3. Address of Operator  
400 WEST 7th STREET, FORT WORTH, TX 76102

4. Well Location  
Unit Letter N : 610 feet from the S line and 1830 feet from the W line  
Section 24 Township 17S Range 34E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
4072 KB

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

|                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E-PERMITTING</b><br>P&A NR _____<br>INT TO P&A _____<br>CSNG _____<br>TA _____<br>CHG Loc _____<br>RBDMS CHART <u>AS</u> | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input checked="" type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/><br>CASING/CEMENT JOB <input type="checkbox"/><br>OTHER: _____ MIT <input checked="" type="checkbox"/> |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

MESA PU 8-13-14/8-15-14  
PULLED WELL  
REPAIRED TBG.  
PACKER DEPTH 8365'  
RETURNED TO INJECTION  
WELLBORE SCHEMATIC ATTACHED  
MIT CHART ATTACHED  
NO OCD WITNESS PRESENT

Spud Date:

01/19/1966

Rig Release Date:

03/14/1966

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Laura Stone TITLE REGULATORY COMPLIANCE DATE 8/26/14

Type or print name LAURA STONE

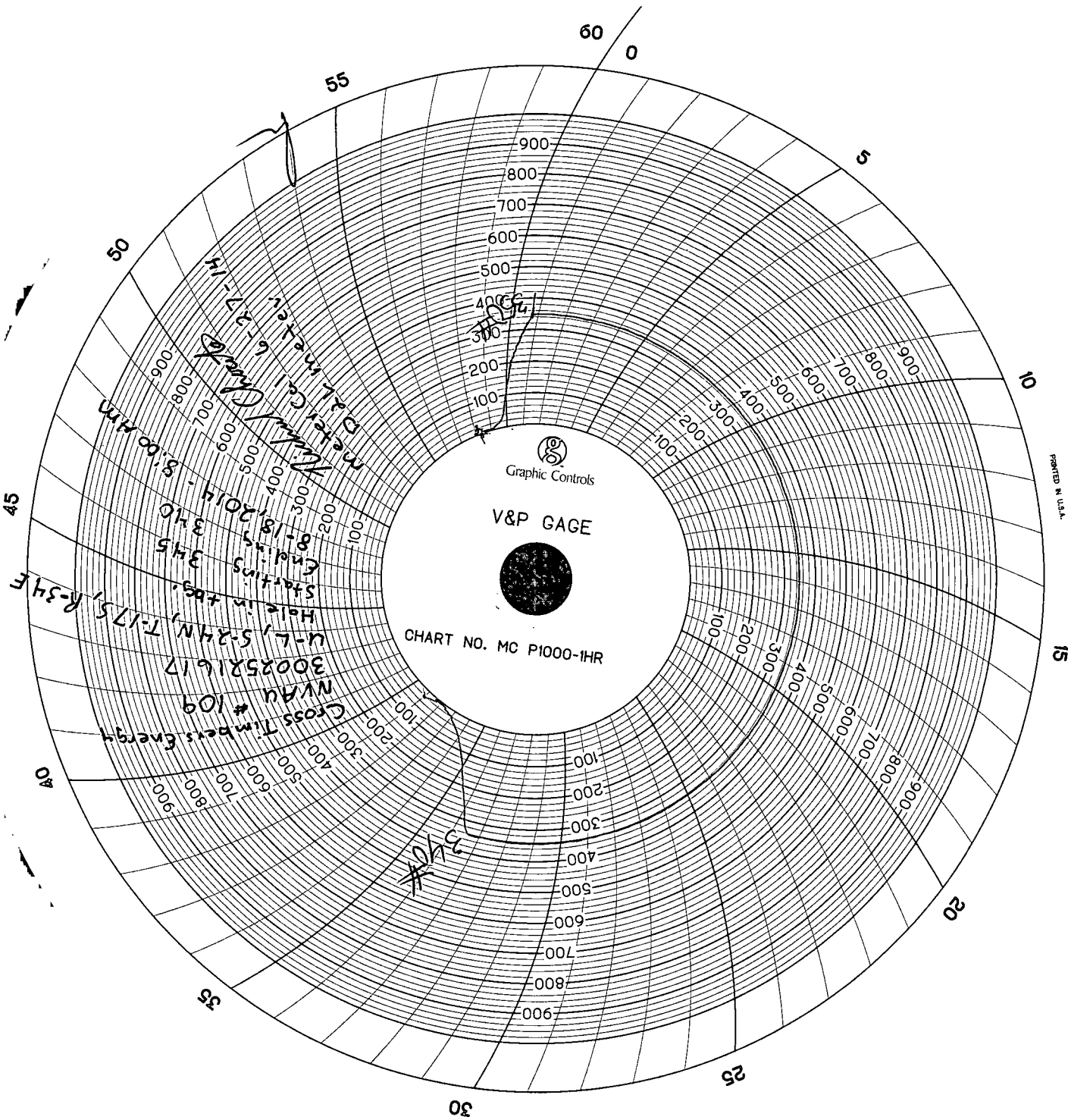
E-mail address: rgrigg@mspartner.com PHONE: 817-334-7842

For State Use Only

APPROVED BY: Mary Brown TITLE Dist. Supervisor DATE 9/2/2014

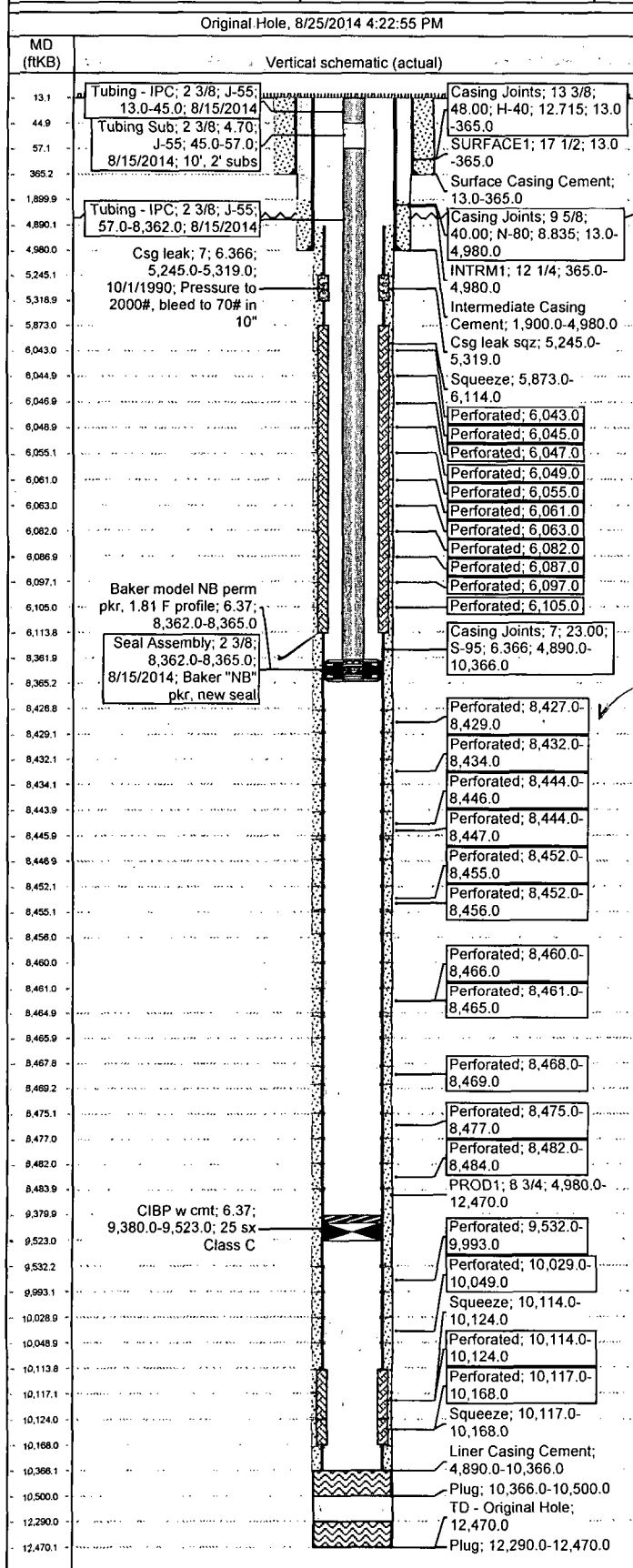
Conditions of Approval (if any):

SEP 03 2014



# Schematic & History

|                                               |        |                                                           |                      |                                         |                                         |                                            |  |
|-----------------------------------------------|--------|-----------------------------------------------------------|----------------------|-----------------------------------------|-----------------------------------------|--------------------------------------------|--|
| Well Name<br><b>NORTH VACUUM ABO UNIT 109</b> |        | API/UWI<br><b>3002521617</b>                              | County<br><b>Lea</b> |                                         | State/Province<br><b>New Mexico</b>     | Field Name<br><b>VACUUM N</b>              |  |
| Location<br><b>610 FSL &amp; 1830 FWL</b>     |        | Township<br><b>17S</b>                                    | Range<br><b>34E</b>  | Section<br><b>24</b>                    | Latitude (°)<br><b>32° 48' 51.66" N</b> | Longitude (°)<br><b>103° 30' 58.428" W</b> |  |
| Section                                       | Survey | Block                                                     |                      | Township                                |                                         | Abstract                                   |  |
| Original KB Elevation (ft)<br><b>4,029.00</b> |        | Ground/Corrected Ground Elevation (ft)<br><b>4,016.00</b> |                      | KB-Ground Distance (ft)<br><b>13.00</b> |                                         | Spud Date                                  |  |



| Jobs                                   |               |            |                    |                                                                                                |            |               |
|----------------------------------------|---------------|------------|--------------------|------------------------------------------------------------------------------------------------|------------|---------------|
| Type                                   |               | Start Date |                    | Summary                                                                                        |            |               |
| Drilling Original & Initial Completion |               | 1/19/1966  |                    | Specific date NA                                                                               |            |               |
| Convert To Injection                   |               | 1/1/1973   |                    |                                                                                                |            |               |
| Repair Injector                        |               | 1/18/2013  |                    |                                                                                                |            |               |
| Repr Injection Well Failure            |               | 8/13/2014  |                    |                                                                                                |            |               |
| Wellbore Sections                      |               |            |                    |                                                                                                |            |               |
| Section Des                            | Wellbore Name | Size (in)  | Act Top (ftKB)     | Act Btm (ftKB)                                                                                 | Start Date |               |
| SURFACE1                               | Original Hole | 17 1/2     | 13.0               | 365.0                                                                                          |            |               |
| Section Des                            | Wellbore Name | Size (in)  | Act Top (ftKB)     | Act Btm (ftKB)                                                                                 | Start Date |               |
| INTRM1                                 | Original Hole | 12 1/4     | 365.0              | 4,980.0                                                                                        |            |               |
| Section Des                            | Wellbore Name | Size (in)  | Act Top (ftKB)     | Act Btm (ftKB)                                                                                 | Start Date |               |
| PROD1                                  | Original Hole | 8 3/4      | 4,980.0            | 12,470.0                                                                                       |            |               |
| Surface 365.0 ftKB <Run Date?>         |               |            |                    |                                                                                                |            |               |
| Comment                                |               |            |                    |                                                                                                |            |               |
| OD (in)                                | Wt (lb/ft)    | Grade      | Top (ftKB)         | Btm (ftKB)                                                                                     | Len (ft)   | Item Des      |
| 13 3/8                                 | 48.00         | H-40       | 13.0               | 365.0                                                                                          | 352.00     | Casing Joints |
| Intermediate 4,980.0 ftKB <Run Date?>  |               |            |                    |                                                                                                |            |               |
| Comment                                |               |            |                    |                                                                                                |            |               |
| OD (in)                                | Wt (lb/ft)    | Grade      | Top (ftKB)         | Btm (ftKB)                                                                                     | Len (ft)   | Item Des      |
| 9 5/8                                  | 40.00         | N-80       | 13.0               | 4,980.0                                                                                        | 4,967.00   | Casing Joints |
| Production 10,366.0 ftKB <Run Date?>   |               |            |                    |                                                                                                |            |               |
| Comment                                |               |            |                    |                                                                                                |            |               |
| OD (in)                                | Wt (lb/ft)    | Grade      | Top (ftKB)         | Btm (ftKB)                                                                                     | Len (ft)   | Item Des      |
| 7                                      | 23.00         | S-95       | 4,890.0            | 10,366.0                                                                                       | 5,476.00   | Casing Joints |
| Cement Stages                          |               |            |                    |                                                                                                |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Surface Casing Cement                  | 13.0          | 365.0      | Cement Returns     | 350 SX INCOR NEAT + 2% CACL, 1/4 PPS FLOCELE, CIRC.                                            |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Intermediate Casing Cement             | 1,900.0       | 4,980.0    | Temperature Survey | Lead: 2500 sx Incor + 6% gel, 1/4 pps flocele in 2st 500 sx; Tail: 100 sx Incor neat, no circ. |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Liner Casing Cement                    | 4,890.0       | 10,366.0   | Bit Tag            | 725 sx TILW; Tail: 400 sx TIN, rvs 5 sx out liner top,                                         |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Plug                                   | 10,366.0      | 10,500.0   | Bit Tag            | 50 sx TIN, spotted                                                                             |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Plug                                   | 12,290.0      | 12,470.0   | Bit Tag            | 50 sx TIN, spotted                                                                             |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Squeeze                                | 5,873.0       | 6,114.0    | Bit Tag            | Sqz 150 sx TIN, 250 sx TIN, 100 sx TIN, 100 sx Incor, DO tstd gd.                              |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Squeeze                                | 10,114.0      | 10,124.0   | Bit Tag            | Sqz 100 sx                                                                                     |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Squeeze                                | 10,117.0      | 10,168.0   | Bit Tag            | Sqz 150 sx                                                                                     |            |               |
| Description                            | Top (ftKB)    | Btm (ftKB) | Top Meas Meth      | Comment                                                                                        |            |               |
| Csg leak sqz                           | 5,245.0       | 5,319.0    |                    | 100 sx Class C + 0.4% Halad 322, and 50 sx Class C neat.                                       |            |               |

Original Hole, 8/25/2014 4:22:55 PM

Perforations

MD (ftKB)

Vertical schematic (actual)

13.1 Tubing - IPC; 2 3/8; J-55; 13.0-45.0; 8/15/2014

44.9 Tubing Sub; 2 3/8; 4.70; J-55; 45.0-57.0; 8/15/2014; 10', 2' subs

365.2 Tubing - IPC; 2 3/8; J-55; 57.0-8,362.0; 8/15/2014

1,899.9 Csg leak; 7; 6,366; 5,245.0-5,319.0; 10/1/1990; Pressure to 2000#, bleed to 70# in 10"

4,980.0 Baker model NB perm pkr, 1.81 F profile; 6,37; 8,362.0-8,365.0

5,245.1 Seal Assembly; 2 3/8; 8,362.0-8,365.0; 8/15/2014; Baker "NB" pkr, new seal

5,318.9

5,873.0

6,043.0

6,044.9

6,046.9

6,048.9

6,051.1

6,061.0

6,063.0

6,062.0

6,068.9

6,097.1

6,105.0

6,113.8

8,361.9

8,365.2

8,426.8

8,429.1

8,432.1

8,434.1

8,443.9

8,445.9

8,446.9

8,452.1

8,455.1

8,456.0

8,460.0

8,461.0

8,464.9

8,465.9

8,467.8

8,469.2

8,475.1

8,477.0

8,482.0

8,483.9

9,379.9

9,523.0

9,532.2

9,993.1

10,028.9

10,048.9

10,113.8

10,117.1

10,124.0

10,168.0

10,366.1

10,500.0

12,290.0

12,470.1

Casing Joints; 13 3/8; 48.00; H-40; 12,715; 13.0-365.0

SURFACE1; 17 1/2; 13.0-365.0

Surface Casing Cement; 13.0-365.0

Casing Joints; 9 5/8; 40.00; N-80; 8,835; 13.0-4,980.0

INTRM1; 12 1/4; 365.0-4,980.0

Intermediate Casing Cement; 1,900.0-4,980.0

Csg leak sqz; 5,245.0-5,319.0

Squeeze; 5,873.0-6,114.0

Perforated; 6,043.0

Perforated; 6,045.0

Perforated; 6,047.0

Perforated; 6,049.0

Perforated; 6,055.0

Perforated; 6,061.0

Perforated; 6,063.0

Perforated; 6,082.0

Perforated; 6,087.0

Perforated; 6,097.0

Perforated; 6,105.0

Casing Joints; 7; 23.00; S-95; 6,366; 4,890.0-10,366.0

Perforated; 8,427.0-8,429.0

Perforated; 8,432.0-8,434.0

Perforated; 8,444.0-8,446.0

Perforated; 8,444.0-8,447.0

Perforated; 8,452.0-8,455.0

Perforated; 8,452.0-8,456.0

Perforated; 8,460.0-8,466.0

Perforated; 8,461.0-8,465.0

Perforated; 8,468.0-8,469.0

Perforated; 8,475.0-8,477.0

Perforated; 8,482.0-8,484.0

PROD1; 8 3/4; 4,980.0-12,470.0

Perforated; 9,532.0-9,993.0

Perforated; 10,029.0-10,049.0

Squeeze; 10,114.0-10,124.0

Perforated; 10,114.0-10,124.0

Perforated; 10,117.0-10,168.0

Squeeze; 10,117.0-10,168.0

Liner Casing Cement; 4,890.0-10,366.0

Plug; 10,366.0-10,500.0

TD - Original Hole; 12,470.0

Plug; 12,290.0-12,470.0

CIBP w cmt; 6,37; 9,380.0-9,523.0; 25 sx Class C

| Top (ftKB) | Btm (ftKB) | Shot Dens (shot s/ft) | Date | Zone                     | Calculated Shot Total |
|------------|------------|-----------------------|------|--------------------------|-----------------------|
| 6,043.0    | 6,043.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,045.0    | 6,045.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,047.0    | 6,047.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,049.0    | 6,049.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,055.0    | 6,055.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,061.0    | 6,061.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,063.0    | 6,063.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,082.0    | 6,082.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,087.0    | 6,087.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,097.0    | 6,097.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 6,105.0    | 6,105.0    | 1.0                   |      | Glorietta, Original Hole | 1                     |
| 8,427.0    | 8,429.0    | 1.0                   |      | Abo, Original Hole       | 3                     |
| 8,432.0    | 8,434.0    | 1.0                   |      | Abo, Original Hole       | 3                     |
| 8,444.0    | 8,446.0    | 1.0                   |      | Abo, Original Hole       | 3                     |
| 8,444.0    | 8,447.0    | 1.0                   |      | Abo, Original Hole       | 4                     |
| 8,452.0    | 8,455.0    | 1.0                   |      | Abo, Original Hole       | 4                     |
| 8,452.0    | 8,456.0    | 1.0                   |      | Abo, Original Hole       | 5                     |
| 8,460.0    | 8,466.0    | 1.0                   |      | Abo, Original Hole       | 7                     |
| 8,461.0    | 8,465.0    | 1.0                   |      | Abo, Original Hole       | 5                     |
| 8,468.0    | 8,469.0    | 1.0                   |      | Abo, Original Hole       | 2                     |
| 8,475.0    | 8,477.0    | 1.0                   |      | Abo, Original Hole       | 3                     |
| 8,482.0    | 8,484.0    | 1.0                   |      | Abo, Original Hole       | 3                     |
| 9,532.0    | 9,993.0    |                       |      | Wolfcamp, Original Hole  | 1                     |
| 10,029.0   | 10,049.0   |                       |      | Wolfcamp, Original Hole  | 1                     |
| 10,114.0   | 10,124.0   |                       |      | Penn, Original Hole      | 1                     |
| 10,117.0   | 10,168.0   |                       |      | Penn, Original Hole      | 1                     |

Stim/Treat Stages

| Type | Start Date | Top (ftKB) | Btm (ftKB) | Com |
|------|------------|------------|------------|-----|
|      |            |            |            |     |

Other In Hole

| Des      | Com         | OD (in) | Run Date | Top (ftKB) | Btm (ftKB) |
|----------|-------------|---------|----------|------------|------------|
| Csg leak | Pressure to |         |          |            |            |