

Submit a 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>30-045-35441                                                                        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>L2986-1                                                             |
| 7. Lease Name or Unit Agreement Name<br>CHACO 2408- 32P                                             |
| 8. Well Number<br>114H                                                                              |
| 9. OGRID Number<br>372286                                                                           |
| 10. Pool name or Wildcat<br>Nageezi Gallup                                                          |

|                                                                                                                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br/>(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.)</p> |  |
| <p>1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/></p>                                                                                 |  |
| <p>2. Name of Operator<br/>Enduring Resources IV LLC</p>                                                                                                                                                              |  |
| <p>3. Address of Operator<br/>200 Energy Court Farmington NM 87401</p>                                                                                                                                                |  |
| <p>4. Well Location<br/>Unit Letter <u>P</u> : 1203' feet from the <u>S</u> line and 382' feet from the <u>E</u> line<br/>Section 32 Township 24N Range 08W NMPM County SAN JUAN</p>                                  |  |
| <p>11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br/>7017'</p>                                                                                                                                                   |  |

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐  
CLOSED-LOOP SYSTEM ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐  
OTHER: ☐

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.

Enduring Resources performed a workover to repair the rod pump completion. An updated schematic is attached.

EOT: 5,666' MD  
SN: 5,598' MD  
TAC: 4,953' MD  
Job Start: 6/23/2021  
Job End: 6/26/2021

Spud Date:

Rig Release Date:

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

SIGNATURE  TITLE Permitting Technician \_\_\_\_\_ DATE 07/30/21 \_\_\_\_\_

Type or print name Heather Huntington E-mail address: hhuntington@enduringresources.com PHONE: 505-636-9751

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any): \_\_\_\_\_

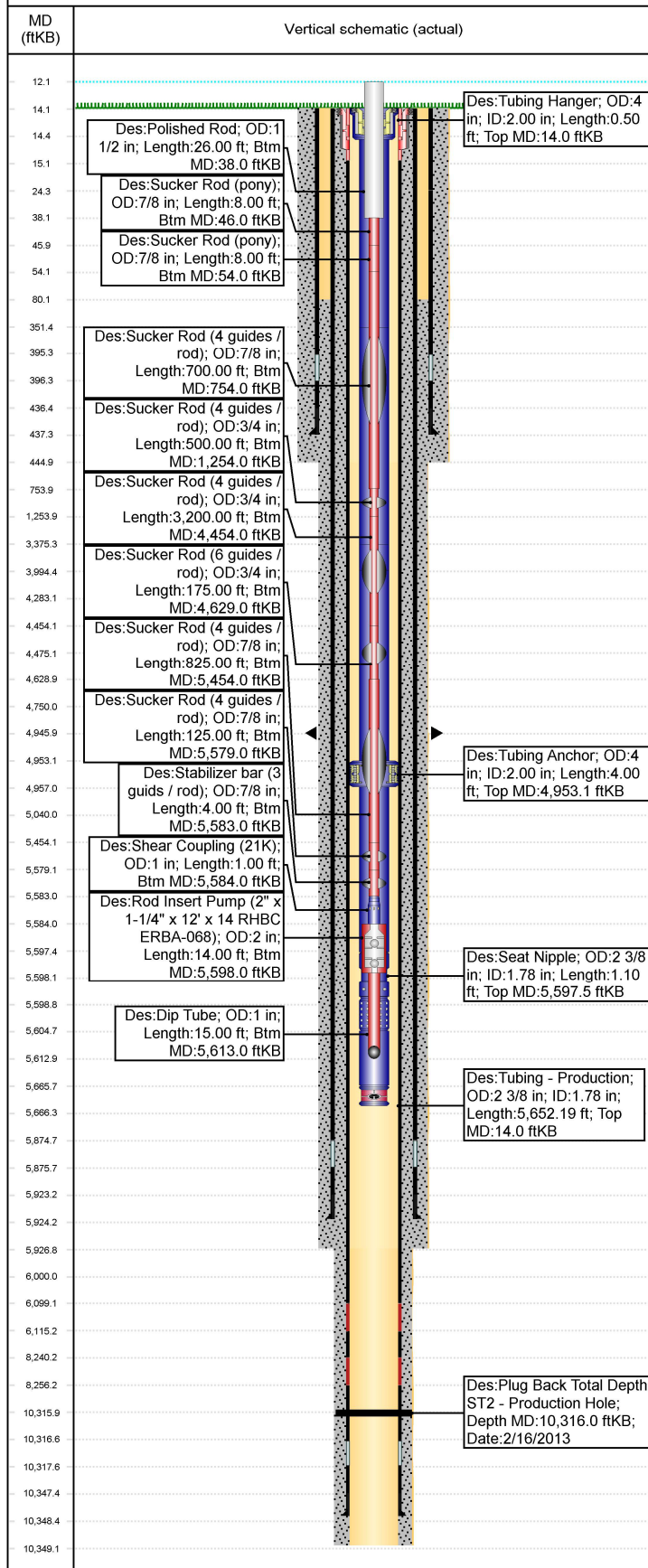


# Enduring Resources IV - Production WBD

**Well Name: CHACO 2408-32P 114H**
**NOTE: Well schematic is drawn vertically due to space constraints on the report. Please reference the directional surveys as needed.**

|                                        |                                                                       |                              |                                     |                              |                                       |
|----------------------------------------|-----------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------|---------------------------------------|
| API/UWI<br>30-045-35441                | Surface Legal Location<br>SE/2, SE/2, Section 32, (Unit P), Twp 24... | Field Name<br>LYBROOK-GALLUP | License #                           | State/Province<br>NEW MEXICO | Well Configuration Type<br>Horizontal |
| Original KB Elevation (ft)<br>7,031.01 | KB-Tubing Head Distance (ft)                                          | Spud Date<br>1/4/2013 07:00  | Rig Release Date<br>2/18/2013 06:00 | PBTD (All) (ftKB)            | Total Depth All (TVD) (ftKB)          |

Horizontal, ST2 - Production Hole, 7/28/2021 10:41:13 AM


**Wellbore Sections**

| Section Des       | Size (in) | Act Top (ftKB) | Act Top (TVD) (ftKB) | Act Btm (ftKB) | Act Btm (TVD) (ftKB) |
|-------------------|-----------|----------------|----------------------|----------------|----------------------|
| Intermediate Hole | 8 3/4     | 4,946.0        | 4,919.3              | 5,927.0        | 5,543.8              |
| Production Hole   | 6 1/8     | 5,927.0        | 5,543.8              | 10,349.0       | 5,439.9              |

**Rod Strings**

| Rod Description                                        | Run Date  | String Length (ft) |          | Set Depth (ftKB) |            |
|--------------------------------------------------------|-----------|--------------------|----------|------------------|------------|
| Rod                                                    | 6/26/2021 | 5,601.00           |          | 5,613.0          |            |
| Item Des                                               | Jts       | OD (in)            | Len (ft) | Top (ftKB)       | Btm (ftKB) |
| Polished Rod                                           | 1         | 1 1/2              | 26.00    | 12.0             | 38.0       |
| Sucker Rod (pony)                                      | 1         | 7/8                | 8.00     | 38.0             | 46.0       |
| Sucker Rod (pony)                                      | 1         | 7/8                | 8.00     | 46.0             | 54.0       |
| Sucker Rod (4 guides / rod)                            | 28        | 7/8                | 700.00   | 54.0             | 754.0      |
| Sucker Rod (4 guides / rod)                            | 20        | 3/4                | 500.00   | 754.0            | 1,254.0    |
| Sucker Rod (4 guides / rod)                            | 128       | 3/4                | 3,200.00 | 1,254.0          | 4,454.0    |
| Sucker Rod (6 guides / rod)                            | 7         | 3/4                | 175.00   | 4,454.0          | 4,629.0    |
| Sucker Rod (4 guides / rod)                            | 33        | 7/8                | 825.00   | 4,629.0          | 5,454.0    |
| Sucker Rod (4 guides / rod)                            | 5         | 7/8                | 125.00   | 5,454.0          | 5,579.0    |
| Stabilizer bar (3 guides / rod)                        | 1         | 7/8                | 4.00     | 5,579.0          | 5,583.0    |
| Shear Coupling (21K)                                   | 1         | 1                  | 1.00     | 5,583.0          | 5,584.0    |
| Rod Insert Pump (2" x 1-1/4" x 12' x 14 RHBC ERBA-068) | 1         | 2                  | 14.00    | 5,584.0          | 5,598.0    |
| Dip Tube                                               | 1         | 1                  | 15.00    | 5,598.0          | 5,613.0    |

**Tubing - Production set at 5,666.2ftKB on 6/25/2021 14:30**

| Tubing Description  |     | Run Date  |            |         | String Length (ft) |          | Set Depth (ftKB) |            |
|---------------------|-----|-----------|------------|---------|--------------------|----------|------------------|------------|
| Tubing - Production |     | 6/25/2021 |            |         | 5,652.19           |          | 5,666.2          |            |
| Item Des            | Jts | Grade     | Wt (lb/ft) | OD (in) | ID (in)            | Len (ft) | Top (ftKB)       | Btm (ftKB) |
| Tubing Hanger       | 1   | J-55      |            | 4       | 2.00               | 0.50     | 14.0             | 14.5       |
| Tubing (YB)         | 11  | J-55      | 4.70       | 2 3/8   | 2.00               | 336.86   | 14.5             | 351.4      |
| Tubing (BB)         | 98  | J-55      | 4.70       | 2 3/8   | 2.00               | 3,023.91 | 351.4            | 3,375.3    |
| Tubing (YB)         | 20  | J-55      | 4.70       | 2 3/8   | 2.00               | 619.18   | 3,375.3          | 3,994.5    |
| Tubing (YB)         | 30  | J-55      | 4.70       | 2 3/8   | 2.00               | 958.69   | 3,994.5          | 4,953.2    |
| Tubing Anchor       | 1   | J-55      |            | 4       | 2.00               | 4.00     | 4,953.2          | 4,957.2    |
| Tubing (YB)         | 20  | J-55      | 4.70       | 2 3/8   | 2.00               | 640.35   | 4,957.2          | 5,597.5    |
| Seat Nipple         | 1   | J-55      |            | 2 3/8   | 1.78               | 1.10     | 5,597.5          | 5,598.6    |
| Perforated Sub      | 1   | J-55      |            | 2 3/8   | 2.00               | 6.00     | 5,598.6          | 5,604.6    |
| Tubing              | 2   | J-55      | 4.70       | 2 3/8   | 2.00               | 61.10    | 5,604.6          | 5,665.7    |
| Purge Valve         | 1   | J-55      |            | 2 3/8   | 2.00               | 0.50     | 5,665.7          | 5,666.2    |

**Surface Casing - 9-5/8", 437.4ftKB**

|                  |                         |                      |                |                    |                           |            |
|------------------|-------------------------|----------------------|----------------|--------------------|---------------------------|------------|
| OD (in)<br>9 5/8 | Wt/Len (lb/ft)<br>36.00 | String Grade<br>K-55 | Top Connection | Top (ftKB)<br>14.0 | Set Depth (ftKB)<br>437.4 |            |
| Item Des         |                         |                      | Jts            | Len (ft)           | Top (ftKB)                | Btm (ftKB) |
| Casing Joints    |                         |                      | 1              | 10.40              | 14.0                      | 24.4       |
| Casing Joints    |                         |                      | 8              | 371.00             | 24.4                      | 395.4      |
| Float Collar     |                         |                      |                | 1.00               | 395.4                     | 396.4      |
| Casing Joints    |                         |                      | 1              | 40.00              | 396.4                     | 436.4      |
| Float Shoe       |                         |                      |                | 1.00               | 436.4                     | 437.4      |

**Intermediate Casing - 7", 5,924.1ftKB**

|               |                         |                      |                |                    |                             |            |
|---------------|-------------------------|----------------------|----------------|--------------------|-----------------------------|------------|
| OD (in)<br>7  | Wt/Len (lb/ft)<br>23.00 | String Grade<br>J-55 | Top Connection | Top (ftKB)<br>14.0 | Set Depth (ftKB)<br>5,924.1 |            |
| Item Des      |                         |                      | Jts            | Len (ft)           | Top (ftKB)                  | Btm (ftKB) |
| Casing Joints |                         |                      | 129            | 5,860.60           | 14.0                        | 5,874.6    |
| Float Collar  |                         |                      |                | 1.00               | 5,874.6                     | 5,875.6    |
| Casing Joints |                         |                      | 1              | 47.54              | 5,875.6                     | 5,923.1    |
| Float Shoe    |                         |                      |                | 1.00               | 5,923.1                     | 5,924.1    |

**Production Casing - 4-1/2", 10,348.3ftKB**

| OD (in)       | Wt/Len (lb/ft) | String Grade | Top Connection | Top (ftKB) | Set Depth (ftKB) |            |
|---------------|----------------|--------------|----------------|------------|------------------|------------|
| 4 1/2         | 11.60          | N-80         |                | 14.0       | 10,348.3         |            |
| Item Des      |                |              | Jts            | Len (ft)   | Top (ftKB)       | Btm (ftKB) |
| Casing Hanger |                |              |                | 1.00       | 14.0             | 15.0       |
| Casing Joints |                |              | 143            | 6,084.00   | 15.0             | 6,099.0    |
| Marker Joints |                |              | 1              | 16.00      | 6,099.0          | 6,115.0    |



## Enduring Resources IV - Production WBD

Well Name: CHACO 2408-32P 114H

NOTE: Well schematic is drawn vertically due to space constraints on the report. Please reference the directional surveys as needed.

|                                        |                                                                       |                              |                                     |                              |                                       |
|----------------------------------------|-----------------------------------------------------------------------|------------------------------|-------------------------------------|------------------------------|---------------------------------------|
| API/UWI<br>30-045-35441                | Surface Legal Location<br>SE/2, SE/2, Section 32, (Unit P), Twp 24... | Field Name<br>LYBROOK-GALLUP | License #                           | State/Province<br>NEW MEXICO | Well Configuration Type<br>Horizontal |
| Original KB Elevation (ft)<br>7,031.01 | KB-Tubing Head Distance (ft)                                          | Spud Date<br>1/4/2013 07:00  | Rig Release Date<br>2/18/2013 06:00 | PBTD (All) (ftKB)            | Total Depth All (TVD) (ftKB)          |

| Horizontal, ST2 - Production Hole, 7/28/2021 10:41:16 AM |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|--------------------|--|----------|-----|----------|------------|------------|---------------|----|----------|---------|---------|---------------|---|-------|---------|---------|---------------|----|----------|---------|----------|--------------|--|------|----------|----------|---------------|---|-------|----------|----------|------------|--|------|----------|----------|---------------|--|--|--|--|-------------|--|--|--|--|----------------|--|----------------------|--|--------------------|--|--|----------|--|----------|---------|--|--|--|--|------------|--|--|--|--|-------------|--|--|--|--|------------------------------|--|----------------------|--|--------------------|--|--|----------|--|-----------|---------|--|--|--|--|-----------------------------------|--|--|--|--|-------------|--|--|--|--|-------------------------------|--|----------------------|--|--------------------|--|--|-----------|--|-----------|---------|--|--|--|--|-------------------------------|--|--|--|--|-------------|--|--|--|--|---------------------|--|----------------------|--|--------------------|--|--|----------|--|----------|---------|--|--|--|--|------------|--|--|--|--|-------------|--|--|--|--|-------------------|--|----------------------|--|--------------------|--|--|-----------|--|-----------|---------|--|--|--|--|------------|--|--|--|--|
| MD (ftKB)                                                | Vertical schematic (actual)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 12.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 14.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 14.4                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 15.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 24.3                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 38.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 45.9                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 54.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 80.1                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 351.4                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 365.3                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 366.3                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 436.4                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 437.3                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 444.9                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 753.9                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 1,253.9                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 3,375.3                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 3,994.4                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,283.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,454.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,475.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,628.9                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,760.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,945.9                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,953.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 4,957.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,040.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,454.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,579.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,583.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,584.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,597.4                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,598.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,598.8                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,604.7                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,612.9                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,665.7                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,666.3                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,874.7                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,875.7                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,923.2                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,924.2                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 5,926.8                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 6,000.0                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 6,099.1                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 6,115.2                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 8,240.2                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 8,256.2                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,315.9                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,316.6                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,317.6                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,347.4                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,348.4                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 10,349.1                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | <table><tr><th>Item Des</th><th>Jts</th><th>Len (ft)</th><th>Top (ftKB)</th><th>Btm (ftKB)</th></tr><tr><td>Casing Joints</td><td>50</td><td>2,125.13</td><td>6,115.0</td><td>8,240.2</td></tr><tr><td>Marker Joints</td><td>1</td><td>16.00</td><td>8,240.2</td><td>8,256.2</td></tr><tr><td>Casing Joints</td><td>49</td><td>2,060.51</td><td>8,256.2</td><td>10,316.7</td></tr><tr><td>Float Collar</td><td></td><td>1.00</td><td>10,316.7</td><td>10,317.7</td></tr><tr><td>Casing Joints</td><td>1</td><td>29.62</td><td>10,317.7</td><td>10,347.3</td></tr><tr><td>Float Shoe</td><td></td><td>1.00</td><td>10,347.3</td><td>10,348.3</td></tr><tr><td colspan="5"><b>Cement</b></td></tr><tr><td colspan="5">Description</td></tr><tr><td colspan="2">Surface Cement</td><td colspan="2">Cementing Start Date</td><td>Cementing End Date</td></tr><tr><td colspan="2"></td><td colspan="2" rowspan="4">1/5/2013</td><td>1/5/2013</td></tr><tr><td colspan="5">Comment</td></tr><tr><td colspan="5">240 sx cmt</td></tr><tr><td colspan="5">Description</td></tr><tr><td colspan="2">OH Cement Plugs - Pilot Hole</td><td colspan="2">Cementing Start Date</td><td>Cementing End Date</td></tr><tr><td colspan="2"></td><td colspan="2" rowspan="4">1/6/2013</td><td>1/17/2013</td></tr><tr><td colspan="5">Comment</td></tr><tr><td colspan="5">SET 3 PLUGS IN OH TO DRILL OFF OF</td></tr><tr><td colspan="5">Description</td></tr><tr><td colspan="2">OH Cement Plug - w/ Whipstock</td><td colspan="2">Cementing Start Date</td><td>Cementing End Date</td></tr><tr><td colspan="2"></td><td colspan="2" rowspan="4">1/27/2013</td><td>1/27/2013</td></tr><tr><td colspan="5">Comment</td></tr><tr><td colspan="5">CEMENT WHIPSTOCK IN OPEN HOLE</td></tr><tr><td colspan="5">Description</td></tr><tr><td colspan="2">Intermediate Cement</td><td colspan="2">Cementing Start Date</td><td>Cementing End Date</td></tr><tr><td colspan="2"></td><td colspan="2" rowspan="4">2/1/2013</td><td>2/2/2013</td></tr><tr><td colspan="5">Comment</td></tr><tr><td colspan="5">780 sx cmt</td></tr><tr><td colspan="5">Description</td></tr><tr><td colspan="2">Production Cement</td><td colspan="2">Cementing Start Date</td><td>Cementing End Date</td></tr><tr><td colspan="2"></td><td colspan="2" rowspan="21">2/17/2013</td><td>2/17/2013</td></tr><tr><td colspan="5">Comment</td></tr><tr><td colspan="5">408 sx cmt</td></tr></table> |                      |            |                    |  | Item Des | Jts | Len (ft) | Top (ftKB) | Btm (ftKB) | Casing Joints | 50 | 2,125.13 | 6,115.0 | 8,240.2 | Marker Joints | 1 | 16.00 | 8,240.2 | 8,256.2 | Casing Joints | 49 | 2,060.51 | 8,256.2 | 10,316.7 | Float Collar |  | 1.00 | 10,316.7 | 10,317.7 | Casing Joints | 1 | 29.62 | 10,317.7 | 10,347.3 | Float Shoe |  | 1.00 | 10,347.3 | 10,348.3 | <b>Cement</b> |  |  |  |  | Description |  |  |  |  | Surface Cement |  | Cementing Start Date |  | Cementing End Date |  |  | 1/5/2013 |  | 1/5/2013 | Comment |  |  |  |  | 240 sx cmt |  |  |  |  | Description |  |  |  |  | OH Cement Plugs - Pilot Hole |  | Cementing Start Date |  | Cementing End Date |  |  | 1/6/2013 |  | 1/17/2013 | Comment |  |  |  |  | SET 3 PLUGS IN OH TO DRILL OFF OF |  |  |  |  | Description |  |  |  |  | OH Cement Plug - w/ Whipstock |  | Cementing Start Date |  | Cementing End Date |  |  | 1/27/2013 |  | 1/27/2013 | Comment |  |  |  |  | CEMENT WHIPSTOCK IN OPEN HOLE |  |  |  |  | Description |  |  |  |  | Intermediate Cement |  | Cementing Start Date |  | Cementing End Date |  |  | 2/1/2013 |  | 2/2/2013 | Comment |  |  |  |  | 780 sx cmt |  |  |  |  | Description |  |  |  |  | Production Cement |  | Cementing Start Date |  | Cementing End Date |  |  | 2/17/2013 |  | 2/17/2013 | Comment |  |  |  |  | 408 sx cmt |  |  |  |  |
| Item Des                                                 | Jts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Len (ft)             | Top (ftKB) | Btm (ftKB)         |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Casing Joints                                            | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2,125.13             | 6,115.0    | 8,240.2            |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Marker Joints                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16.00                | 8,240.2    | 8,256.2            |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Casing Joints                                            | 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2,060.51             | 8,256.2    | 10,316.7           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Float Collar                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.00                 | 10,316.7   | 10,317.7           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Casing Joints                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 29.62                | 10,317.7   | 10,347.3           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Float Shoe                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.00                 | 10,347.3   | 10,348.3           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| <b>Cement</b>                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Description                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Surface Cement                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cementing Start Date |            | Cementing End Date |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1/5/2013             |            | 1/5/2013           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Comment                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 240 sx cmt                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Description                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| OH Cement Plugs - Pilot Hole                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cementing Start Date |            | Cementing End Date |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1/6/2013             |            | 1/17/2013          |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Comment                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| SET 3 PLUGS IN OH TO DRILL OFF OF                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Description                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| OH Cement Plug - w/ Whipstock                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cementing Start Date |            | Cementing End Date |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1/27/2013            |            | 1/27/2013          |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Comment                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| CEMENT WHIPSTOCK IN OPEN HOLE                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Description                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Intermediate Cement                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cementing Start Date |            | Cementing End Date |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2/1/2013             |            | 2/2/2013           |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Comment                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 780 sx cmt                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Description                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Production Cement                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cementing Start Date |            | Cementing End Date |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2/17/2013            |            | 2/17/2013          |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| Comment                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
| 408 sx cmt                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Polished Rod; OD:1 1/2 in; Length:26.00 ft; Btm MD:38.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (pony); OD:7/8 in; Length:8.00 ft; Btm MD:46.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (pony); OD:7/8 in; Length:8.00 ft; Btm MD:54.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (4 guides / rod); OD:7/8 in; Length:700.00 ft; Btm MD:754.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (4 guides / rod); OD:3/4 in; Length:500.00 ft; Btm MD:1,254.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (4 guides / rod); OD:3/4 in; Length:3,200.00 ft; Btm MD:4,454.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (6 guides / rod); OD:3/4 in; Length:175.00 ft; Btm MD:4,629.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (4 guides / rod); OD:7/8 in; Length:825.00 ft; Btm MD:5,454.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Sucker Rod (4 guides / rod); OD:7/8 in; Length:125.00 ft; Btm MD:5,579.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Stabilizer bar (3 guides / rod); OD:7/8 in; Length:4.00 ft; Btm MD:5,583.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Shear Coupling (21K); OD:1 in; Length:1.00 ft; Btm MD:5,584.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Rod Insert Pump (2" x 1-1/4" x 12" x 14 RHBC ERBA-068); OD:2 in; Length:14.00 ft; Btm MD:5,598.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Dip Tube; OD:1 in; Length:15.00 ft; Btm MD:5,613.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Tubing Hanger; OD:4 in; ID:2.00 in; Length:0.50 ft; Top MD:14.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Tubing Anchor; OD:4 in; ID:2.00 in; Length:4.00 ft; Top MD:4,953.1 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Seat Nipple; OD:2 3/8 in; ID:1.78 in; Length:1.10 ft; Top MD:5,597.5 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Tubing - Production; OD:2 3/8 in; ID:1.78 in; Length:5,652.19 ft; Top MD:14.0 ftKB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |
|                                                          | Des:Plug Back Total Depth ST2 - Production Hole; Depth MD:10,316.0 ftKB; Date:2/16/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |            |                    |  |          |     |          |            |            |               |    |          |         |         |               |   |       |         |         |               |    |          |         |          |              |  |      |          |          |               |   |       |          |          |            |  |      |          |          |               |  |  |  |  |             |  |  |  |  |                |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                              |  |                      |  |                    |  |  |          |  |           |         |  |  |  |  |                                   |  |  |  |  |             |  |  |  |  |                               |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |                               |  |  |  |  |             |  |  |  |  |                     |  |                      |  |                    |  |  |          |  |          |         |  |  |  |  |            |  |  |  |  |             |  |  |  |  |                   |  |                      |  |                    |  |  |           |  |           |         |  |  |  |  |            |  |  |  |  |

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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 38894

CONDITIONS

|                                                                                                |                                                |
|------------------------------------------------------------------------------------------------|------------------------------------------------|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way, Suite 525<br>Centennial, CO 80111 | OGRID:<br>372286                               |
|                                                                                                | Action Number:<br>38894                        |
|                                                                                                | Action Type:<br>[C-103] Sub. Workover (C-103R) |

CONDITIONS

|            |                     |                |
|------------|---------------------|----------------|
| Created By | Condition           | Condition Date |
| dmcclure   | Accepted for Record | 2/17/2022      |