

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

State of New Mexico  
Energy, Minerals and Natural Resources

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

*Amended* Form C-103  
Revised July 18, 2013

|                                                                                                                                                                                                        |  |                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| SUNDRY NOTICES AND REPORTS ON WELLS<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.) |  | WELL API NO.<br>30-015-43892                                                                        |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD <input type="checkbox"/> <b>NM OIL CONSERVATION</b>                                          |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator CHEVRON U.S.A. INC.                                                                                                                                                                |  | 6. State Oil & Gas Lease No.                                                                        |
| 3. Address of Operator 6301 Deauville Blvd., MIDLAND, TX 79706                                                                                                                                         |  | 7. Lease Name or Unit Agreement Name<br>Gravitas 2 State SWD (316753)                               |
| 4. Well Location<br>Unit Letter: N 400 feet from the South line and 1560 feet from the West line<br>Section 2 Township 26S Range 27E NMPM County LEA                                                   |  | 8. Well Number 002                                                                                  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)                                                                                                                                                     |  | 9. OGRID Number 4323                                                                                |
| 10. Pool name or Wildcat<br>SWD; Devonian - Silurian (97869)                                                                                                                                           |  |                                                                                                     |

RECEIVED  
SEP 22 2016

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

Chevron respectfully requests to make changes to the original permit. Please refer to Cementing & Casing program attached.

Should question arise, please contact me Dorian at 432-687-7631 or [djvo@chevron.com](mailto:djvo@chevron.com).

| Type    | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|---------|-----------|-------------|------------------|---------------|-----------------|---------------|
| SURF    | 24        | 18.625      | 87.5#            | 450           | 422             | 0             |
| INTER 1 | 16.5      | 13.375      | 72#              | 8100          | 1145            | 300           |
| LINER 1 | 14.5      | 11.75       | 60#              | 9400          | 328             | 7900          |
| PROD    | 10.625    | 8.625       | 44#              | 13100         | 680             | 8900          |
| LINER 2 | 8.5       | 6 5/8       | 28#              | 14100         | 56              | 12900         |

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

*Dorian K. Fuentes*

TITLE: REGULATORY SPECIALIST

DATE: 09/21/2016

Type or print name: DORIAN K. FUENTES

E-mail address: [DJVO@CHEVRON.COM](mailto:djvo@chevron.com)

PHONE: 432-687-7631

For State Use Only

APPROVED BY:

*Karen Sharp*

TITLE

*Bus Oper Spec Adv*

DATE

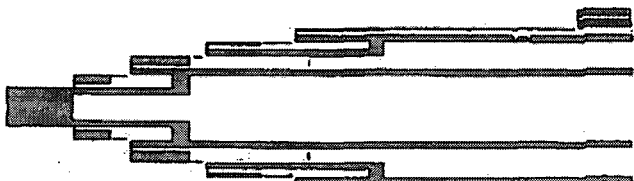
*9-22-16*

Conditions of Approval (if any):

## 5. CEMENTING PROGRAM

| Slurry             | Type                                                                                        | Top     | Bottom  | Weight | Yield      | Sacks | Water  |
|--------------------|---------------------------------------------------------------------------------------------|---------|---------|--------|------------|-------|--------|
| Surface            |                                                                                             |         |         | (ppg)  | (cc/sq ft) |       | gal/sk |
| Tail               | Class C                                                                                     | 0'      | 450'    | 14.8   | 1.33       | 422   | 6.37   |
| Intermediate       |                                                                                             |         |         |        |            |       |        |
| Stage 2 Lead       | 50.50 Poz: Class C +<br>Antifoam, Extender,<br>Salt, Retarder                               | 0'      | 1,100'  | 11.9   | 2.43       | 194   | 14.21  |
| Stage 2 Tail       | Class C + Antifoam,<br>Retarder, Viscosifier                                                | 1,100'  | 2,100'  | 14.8   | 1.33       | 321   | 6.37   |
| Stage 1 Lead       | 50.50 Poz: Class H +<br>Extender, Antifoam,<br>Retarder, Salt,<br>Viscosifier               | 2,100'  | 6,600'  | 11.9   | 2.43       | 792   | 13.76  |
| Stage 1 Tail       | Class H + Retarder,<br>Extender, Dispersant                                                 | 6,600'  | 7,600'  | 15.6   | 1.21       | 353   | 5.54   |
| Intermediate Liner |                                                                                             |         |         |        |            |       |        |
| Lead               | 50.50 Poz: Class H +<br>Extender, Antifoam,<br>Dispersant, Retarder                         | 7,300'  | 8,200'  | 14.5   | 1.21       | 293   | 5.54   |
| Tail               | Class H + Viscosifier,<br>Antifoam, Dispersant,<br>Fluid Loss, Retarder,<br>Expanding Agent | 8,200'  | 9,200'  | 15.6   | 1.2        | 328   | 5.30   |
| Production         |                                                                                             |         |         |        |            |       |        |
| Lead               | 50.50 Poz: Class H +<br>Extender, Antifoam,<br>Dispersant, Retarder                         | 8,900'  | 11,810' | 14.5   | 1.21       | 505   | 5.54   |
| Tail               | Class H + Viscosifier,<br>Antifoam, Dispersant,<br>Fluid Loss, Retarder,<br>Expanding Agent | 11,810' | 12,810' | 15.6   | 1.2        | 175   | 5.30   |
| Production Liner   |                                                                                             |         |         |        |            |       |        |
| Tail               | Class H                                                                                     | 12,500' | 14,000' | 11.7   | 2.45       | 56    | 14.21  |

# Eddy County Horizontal Development Hayhurst NM Drilling Program "Quick-Look" for 5 String + OH



Intermediate String  
13.3/8" 72 ppi, P-110S, BLUE @ Third Bone Spring (Collar size=14.25")  
DV Tool @ Lima

Production String  
6.5/8" 44 ppi, TW110HC, T-524 @ Base of Barnett Shale (Collar size=9.125")

Production Liner String  
6.5/8" 28 ppi, P-110, T-521 @ Woodford (Collar size=7.125")

## SWD Well Eddy County, NM

| Node Size      | Fluid                   | Bit |
|----------------|-------------------------|-----|
| 24"            | Fresh Water             | POC |
| 18.5"          | DBH<br>8.8.2 ppg        | POC |
| 12.25" + 14.5" | DBH<br>8.8.12 ppg       | POC |
| 10.625"        | DBH<br>12.5.15.5 ppg    | POC |
| 8.125" + 8.5"  | DBH<br>8.8.3.2 ppg      | POC |
| 5.5"           | Cut Bone<br>8.8.3.9 ppg | POC |

| Formation                   | Depth<br>ft. from top of TSD | Thickness<br>ft. from top of TSD | Porosity<br>% at 14.7 ppg | Permeability<br>md | Grain Density<br>lb./cu. ft. | Grain Volume<br>cu. ft./cu. ft. | Grain Weight<br>lb./cu. ft. | Grain Volume<br>cu. ft./cu. ft. | Grain Weight<br>lb./cu. ft. |
|-----------------------------|------------------------------|----------------------------------|---------------------------|--------------------|------------------------------|---------------------------------|-----------------------------|---------------------------------|-----------------------------|
| Caliche (Fresh Water Table) | 410                          | 2.95                             | 1.350                     | 1.400              | 130                          | 234                             | 8.9                         | 8.9                             | N/A                         |
| Lima                        | 1.946                        | 1.00                             | 1.350                     | 1.400              | 308                          | 1.111                           | 8.9                         | 8.9                             | O/C/W                       |
| Bell                        | 2.006                        | 1.410                            | 1.400                     | 1.400              | 731                          | 1.111                           | 8.9                         | 8.9                             | O/C/W                       |
| Cherty                      | 2.861                        | 1.208                            | 1.400                     | 1.400              | 1.338                        | 1.489                           | 8.9                         | 8.9                             | O/C/W                       |
| Gravelly                    | 3.829                        | 4.450                            | 1.560                     | 1.600              | 1.822                        | 2.065                           | 8.9                         | 8.9                             | O/C/W                       |
| Bone Spring/Anson           | 5.512                        | 6.295                            | 7.60                      | 670                | 2.248                        | 1.832                           | 8.9                         | 8.9                             | O/C/W                       |
| First Bone Spring Sand      | 6.518                        | 5.808                            | 1.10                      | 1.90               | 3.022                        | 1.196                           | 8.9                         | 8.9                             | O/C/W                       |
| First Bone Spring Shale     | 6.669                        | 6.934                            | 1.70                      | 1.75               | 3.094                        | 1.208                           | 8.9                         | 8.9                             | O/C/W                       |
| Second Bone Spring Sand     | 7.492                        | 2.621                            | 1.080                     | 1.250              | 3.476                        | 1.536                           | 8.9                         | 8.9                             | O/C/W                       |
| Hitay Sand                  | 7.771                        | 8.123                            | 55                        | 115                | 3.606                        | 1.379                           | 8.9                         | 8.9                             | O/C/W                       |
| Third Bone Spring Sand      | 8.275                        | 8.657                            | 610                       | 850                | 3.840                        | 1.396                           | 8.9                         | 8.9                             | O/C/W                       |
| Wetmore A                   | 8.588                        | 9.014                            | 1.10                      | 1.90               | 4.282                        | 1.678                           | 10.2                        | 10.2                            | O/C/W                       |
| Wetmore B                   | 9.468                        | 9.870                            | 1.30                      | 1.65               | 4.432                        | 1.760                           | 13.1                        | 14.7                            | O/C/W                       |
| Wetmore D                   | 9.510                        | 9.992                            | 770                       | 300                | 6.586                        | 2.654                           | 13.2                        | 14.7                            | O/C/W                       |
| Penn / Coker / Coker        | 10.640                       | 11.340                           | -                         | -                  | 7.466                        | 9.128                           | 13.5                        | 15.5                            | O/C/W                       |
| Strawn                      | 10.641                       | 11.615                           | -                         | -                  | 7.473                        | 9.347                           | 13.5                        | 15.5                            | O/C/W                       |
| Marlow                      | 10.900                       | 11.860                           | -                         | -                  | 7.641                        | 9.958                           | 13.5                        | 15.5                            | O/C/W                       |
| Barnett                     | 11.490                       | 12.370                           | -                         | -                  | 8.531                        | 10.088                          | 13.5                        | 15.2                            | O/C/W                       |
| Millipede                   | 12.810                       | 14.710                           | -                         | -                  | 5.982                        | 6.416                           | 9.0                         | 9.0                             | O/C/W                       |
| Woodford                    | 13.000                       | 14.100                           | -                         | -                  | 6.071                        | 6.552                           | 8.9                         | 8.9                             | O/C/W                       |
| Devonian / Silurian         | 13.100                       | 14.100                           | -                         | -                  | 6.310                        | 6.621                           | 8.9                         | 8.9                             | O/C/W                       |
| 4.444444                    | 13.800                       | 15.300                           | -                         | -                  | 6.542                        | 7.079                           | 8.9                         | 8.9                             | O/C/W                       |

Potential / Target Formations  
Potential / Target Water Disposal Formations