

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

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

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

|   |  |   |
|---|--|---|
| <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.) |  | WELL API NO.<br>30-015-45033  |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTION/SWD   |  | 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 2. Name of Operator<br>3BEAR FIELD SERVICES, LLC  |  | 6. State Oil & Gas Lease No.  |
| 3. Address of Operator<br>1512 LARIMER ST., SUITE 540, DENVER, CO 80202   |  | 7. Lease Name or Unit Agreement Name<br>DARK CANYON SWD (322422)                                    |
| 4. Well Location<br>Unit Letter P : 1005 feet from the SOUTH line and 958 feet from the EAST line<br>Section 23 Township 23S Range 26E NMPM EDDY County   |  | 8. Well Number<br>1   |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3252' GL  |  | 9. OGRID Number<br>372603   |
|   |  | 10. Pool name or Wildcat<br>SWD; DEVONIAN-SILURIAN  |

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

| NOTICE OF INTENTION TO:                        |  | SUBSEQUENT REPORT OF:                            |  |
|--|--|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/>        | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input checked="" type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>          | CASING/CEMENT JOB <input type="checkbox"/>       |  |
| DOWNHOLE COMMINGLE <input type="checkbox"/>    |  |  |  |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>    |  |  |  |
| OTHER: <input type="checkbox"/>                |  | OTHER: <input type="checkbox"/>                  |  |

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

CASING DESIGN CHANGE:

-Changed from a 4 string design to a 3 string design with 6 1/8" open hole completion remaining the same.

-13 3/8", 48#, J55 STC csg will now be set at 450' as requested in injection permit approval.

-IPC tubing will also changed from 4.5", 12.75#, P-110 w/Teflon ring to 5.5", 17#, HCL-80 LTC R3 ERW IPC 1850.

-Please see attached WBD for additional casing design changes.

COA. per Santa Fe: 3Bear Field Service will run a CBL on 9 5/8" casing and provide results to District Office in Artesia prior to commencing injection. pwr.

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 Jennifer Elrod TITLE SR. REGULATORY TECH DATE 12/12/2018

Type or print name JENNIFER ELROD E-mail address: jelrod@chisholmenergy.com PHONE: 817-953-3728

For State Use Only

APPROVED BY: Raymond W. Rodary TITLE Geologist DATE 12-13-18  
Conditions of Approval (if any):



**Dark Canyon SWD 1**  
API # 30-015-45033

| TVD<br>ft-RKB | Geological<br>Tops | Wellbore Sketch | Hole Size | Casing                                | Drilling Fluids   | Cement  | Potential Mineral Bearing<br>Formations |
|---------------|--------------------|-----------------|-----------|---------------------------------------|---|---|---|
| 2,000'        | 1,920 Delaware     |                 | 17-1/2"   | Surface:<br>13-3/8" 48# J55 STC       | FW Spud Mud<br>8.5 - 9.2 ppg<br>38 - 40 Vls<br>8 - 10 PV<br>8 - 10 YP                       | Top of Cement: Surface<br>14.8 ppg<br>1.34 cuft/sk<br>470 sks (100% XS)   |   |
| 4,000'        | 5,260 Bone Spring  |                 | 12-1/4"   | Intermediate:<br>9-5/8" 40# L80HC BTC | Diesel/Brine Emulsion<br>8.7 - 8.9 ppg<br>28 - 32 Vls<br>1 - 3 PV<br>1 - 3 YP               | Stage 1<br>Top of Lead: 1900'<br>11.5 ppg 3.65 cuft/sk<br>980 sks (100% XS)<br>Top of Tail: 7,600'<br>14.8 ppg 1.33 cuft/sk<br>475 sks (100% XS)<br>Stage 2<br>Top of Lead: Surface<br>11.5 ppg 3.66 cuft/sk<br>360 sks (200% XS)<br>Top of Tail: 1400'<br>14.8 ppg 1.35 cuft/sk<br>350 sks (200% XS) |   |
| 6,000'        |                    |                 | 8-3/4"    | Liner:<br>5/8" 39# P110 UFI           | 7- Saturated Brine<br>10.0 - 12.0 ppg<br>- 38 Viscosity<br>18 PV<br>12 YP<br>8 API Filtrate | Lead - Class H<br>12.7 ppg<br>10 - 8,400'<br>(10%XS)<br>Tail - Class H<br>14.5 ppg<br>1.23 cuft/sk<br>TOC - 10,000'<br>230 Sks (10% XS)   | 1.98<br>TOC -<br>85 Sks                 |
| 8,000'        | 8,660 Wolfcamp     |                 | 6-1/8"    | Open Hole Completion                  | Cut Brine<br>8.9 - 9.2 ppg<br>29 - 30 Viscosity<br>1 - 3 PV<br>1 - 3 YP<br>NC API Filtrate  |   |   |
| 9,000'        | 10,360 Strawn      |                 |           |                                       |   |   |   |
| 10,000'       | 10,660 Atoka       |                 |           |                                       |   |   |   |
| 11,000'       | 11,010 Morrow      |                 |           |                                       |   |   |   |
| 12,000'       |                    |                 |           |                                       |   |   |   |
| 13,000'       |                    |                 |           |                                       |   |   |   |
| 14,000'       |                    |                 |           |                                       |   |   |   |