

# Initial Application Part I

Received: 04/29/2022

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*

|                             |           |                  |                               |
|-----------------------------|-----------|------------------|-------------------------------|
| RECEIVED: <u>04/29/2022</u> | REVIEWER: | TYPE: <u>SWD</u> | APP NO: <u>pJZT2213254940</u> |
|-----------------------------|-----------|------------------|-------------------------------|

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Applicant:** Ray Westall Operating, Inc. **OGRID Number:** 119305  
**Well Name:** Greenwood Federal SWD No.1 **API:** 30-015-22601  
**Pool:** SWD; San Andres-Delaware **Pool Code:** 96125

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

1) **TYPE OF APPLICATION:** Check those which apply for [A] SWD-2482  
 A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD

B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling – Storage – Measurement  
 DHC    CTB    PLC    PC    OLS    OLM  
 [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

| <b>FOR OCD ONLY</b>      |                              |
|--------------------------|------------------------------|
| <input type="checkbox"/> | Notice Complete              |
| <input type="checkbox"/> | Application Content Complete |

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Ben Stone  
 Print or Type Name

Signature

4/29/2022  
 Date

903-488-9850  
 Phone Number

ben@sosconsulting.us  
 e-mail Address



April 29, 2022

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attn: Ms. Adrienne Sandoval, Director

*Re: Application of Ray Westall Operating, Inc. to permit for salt water disposal [reconfigure to new zone] its Greenwood Federal Well No.1, API No.30-015-22601 located in Section 27, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.*

Dear Ms. Sandoval,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to recomplete the Greenwood Federal Well No.1 SWD. The well is and has been previously permitted as a SWD in deeper interval, currently in the Penn/ Strawn interval. Injection has not been as hoped and RWO would like to come uphole and complete it into the San Andres and Delaware formations.

Ray Westall Operating seeks to optimize efficiency, both economically and operationally, of its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the April 7, 2022 edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included herein. This application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on federal and minerals and a copy of this application has been submitted to the BLM, Carlsbad Field Office, Oil and Gas Division.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

A handwritten signature in blue ink, appearing to read 'Ben Stone', is written over a white background.

Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Ray Westall Operating, Inc.

Cc: Application attachment and file

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: **Salt Water Disposal** and the application **qualifies** for administrative approval.
- II. OPERATOR: **Ray Westall Operating, Inc. (119305)**  
ADDRESS: **P.O. Box 4, Loco Hills, NM 88255**  
  
CONTACT PARTY: **Donnie Mathews (575) 677-2372**  
**Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850**
- III. WELL DATA: **All well data and applicable wellbore diagrams are ATTACHED hereto.**
- IV. **This is not an expansion of an existing project.**
- V. **A map is ATTACHED** that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \*VI. **A tabulation is ATTACHED** of data on all wells of public record within the area of review which penetrate the proposed injection zone. **(15 AOR wells penetrate the subject interval, 12 P&A.)** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. **The following data is ATTACHED** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. **Appropriate geologic data on the injection zone is ATTACHED** including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. **The well may be acidized to clean perforations and formation wall w/ 15% HCl w/ up to 500 gals/100'.**
- \*X. **There is no applicable test data on the well however, any previous well logs have been filed with the Division and they need not be resubmitted. A log strip of the subject well and interval is ATTACHED.**
- \*XI. **State Engineer's records indicate there are NO water wells within one mile the proposed salt water disposal well.**
- XII. **An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. **"Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 8 offset affected parties (lessees and/or operators) BLM minerals within one-half mile - all have been noticed.**
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: **Ben Stone** TITLE: **SOS Consulting, LLC agent / consultant for Ray Westall Operating, Inc.**  
SIGNATURE:  DATE: ~~4/15/2022~~ 4/29/2022  
E-MAIL ADDRESS: **ben@sosconsulting.us**

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA – *The following information and data is included and ATTACHED:*

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.*

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |  |   |  |  |                                   |
|---|--|---|--|--|-----------------------------------|
| <sup>1</sup> API Number<br>30-015-22601 |  | <sup>2</sup> Pool Code<br>96125                           |  | <sup>3</sup> Pool Name<br>SWD; San Andres-Delaware |                                   |
| <sup>4</sup> Property Code<br>TBD       |  | <sup>5</sup> Property Name<br>Greenwood Federal           |  |  | <sup>6</sup> Well Number<br>1     |
| <sup>7</sup> OGRID No.<br>119305        |  | <sup>8</sup> Operator Name<br>Ray Westall Operating, Inc. |  |  | <sup>9</sup> Elevation<br>3614.3' |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 27      | 18S      | 31E   |         | 1980'         | FSL              | 660'          | FWL            | Eddy   |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| same          |         |          |       |         |               |                  |               |                |        |

|                                      |                               |                                  |  |
|--------------------------------------|-------------------------------|----------------------------------|--|
| <sup>12</sup> Dedicated Acres<br>n/a | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>SWD pending |
|--------------------------------------|-------------------------------|----------------------------------|--|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                               |   |  |  |
|-------------------------------|---|--|--|
| <sup>16</sup><br><br><br><br> | <sup>17</sup> OPERATOR CERTIFICATION<br><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i><br><br>Signature <span style="float: right;">4/10/2022</span><br>Date<br><b>Ben Stone</b><br>Printed Name<br><b>ben@sosconsulting.us</b><br>E-mail Address |  |  |
|                               | <sup>18</sup> SURVEYOR CERTIFICATION<br><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i><br><b>April 14, 1978</b><br>Date of Survey<br>Signature and Seal of Professional Surveyor:<br><br><b>John West</b><br><b>676</b><br>Certificate Number   |  |  |

## **C-108 - Items III, IV, V**

### **Item III - Subject Well Data**

Wellbore Diagram – PROPOSED

### **Item IV – Tabulation of AOR Wells**

6 Wells Penetrate the Proposed Injection Interval, NO P&A'd Penetrate

### **Item V – Area of Review Maps**

1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
2. One-Half Mile AOR Map

All Above Exhibits follow this page.



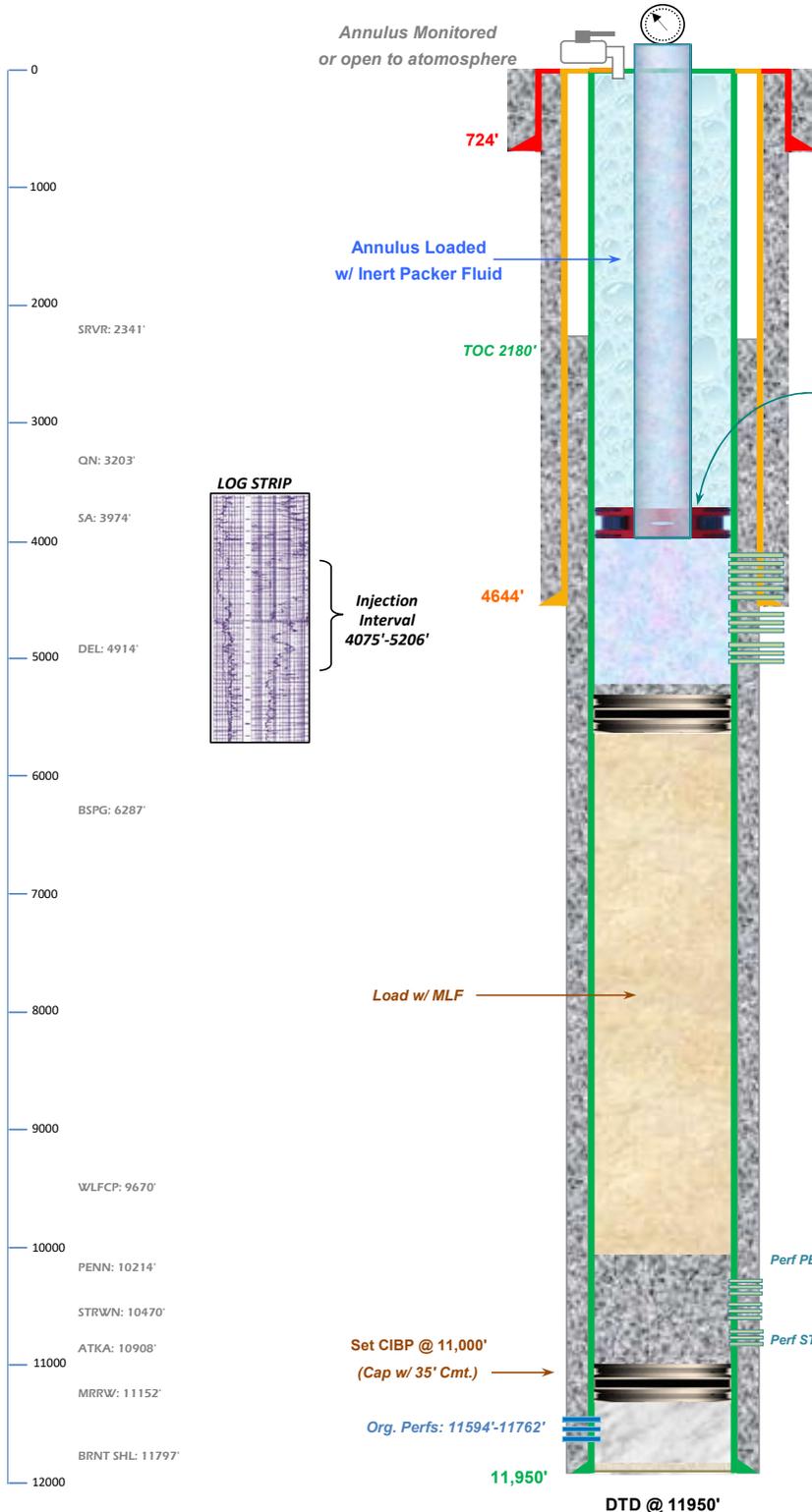
**WELL SCHEMATIC - PROPOSED**  
**Greenwood Federal SWD Well No.1**

**SWD; San Andres-Delaware (PROPOSED)**

**API 30-015-22601**

1980' FSL & 660' FWL, SEC. 27-T18S-R31E  
 EDDY COUNTY, NEW MEXICO

Spud Date: 12/06/1978  
 Config SWD Dt (Est): ~6/15/2



Injection Pressure Regulated  
 and Volumes Reported  
 815 psi Max. Surface (0.2 psi/ft)

**Surface Casing**  
 13.375", 54.5# Csg. (17.5" Hole) @ 724'  
 800 sx - 65 sx Circulated to Surface

**3.5" IC Tubing (or smaller)**  
 PKR ~3975'+ Note: PKR Set 100' Above Final Uppermost Perf Interval.

**Intermediate Casing**  
 9.625", 36.0# K-55 Csg. (12.25" Hole) @ 4644'  
 1800 sx - 75 sx Circulated to Surface

**RAY WESTALL OPERATING, INC.**

**Recomplete SWD: POOH tublars.**  
**SQZ Penn/ Strawn Perfs and Spot 75 sx plug to ~10150' and tag. Load w/ MLF to ~5275'.**  
**Set CIBP @ ~5275 w/ 35' Cmt cap.**  
**Perf Intervals as Determined from Logs Between Max Top 4075' and Max Btm 5206'.**  
**Acidize w/ 15% HCl; Swab Clean.**  
**Run PC Tubing and PKR - Conduct Witnessed MIT.**  
**Commence Disposal Operations.**

Perf PENN (Max Top 10214')  
 Specific Perf Intervals To Be Determined  
 Between Max Top 10214' and Max Bottom 10892'  
 Perf STRWN (Max Btm 10892')

**Production Casing**  
 5.5", 17.0/20.0# N-80 Csg. (7.875" Hole) @ 11,950'  
 2300 sx - TOC @ 2180' by Temp

Drawn by: Ben Stone, Rvs'd 4/15/2022



## Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SA/ DEL Interval 4075'

15 Wells Penetrate Proposed Interval

| API                     | Current Operator                               | Well Name                   | Well No. | Type      | Lease   | Status  | U L S T R    | TV Depth | Plugged On  |
|-------------------------|--|-----------------------------|----------|-----------|---------|---------|--------------|----------|---|
| <b>Subject Well</b>     |  |                             |          |           |         |         |              |          |   |
| 30-015-22601            | [119305] RAY WESTALL OPERATING, INC.           | GREENWOOD FEDERAL SWD       | #001     | SWD       | Federal | Active  | L-27-18S-31E | 12220'   |   |
| <b>Section 27 Wells</b> |  |                             |          |           |         |         |              |          |   |
| 30-015-32616            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #001     | Oil       | Federal | P&A-R** | C-27-18S-31E | 6395'    | 2/26/2019   |
| 30-015-10592            | [26478] SOUTHLAND ROYALTY CO                   | HINKLE F                    | #003     | Oil       | Federal | P&A-R** | C-27-18S-31E | 8950'    | 12/13/1992  |
| 30-015-05616            | [4323] CHEVRON U S A INC                       | GREENWOOD PRE-GRAYBURG UNIT | #004     | Oil       | Federal | P&A-R** | D-27-18S-31E | 5250'    | 4/21/2018   |
| 30-015-10594            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #005     | Oil       | Federal | P&A-R   | D-27-18S-31E | 3948**   | 11/16/2016  |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-30680            | [4323] CHEVRON U S A INC                       | GREENWOOD FEDERAL COM       | #002     | Gas       | Federal | P&A-R** | D-27-18S-31E | 12000'   | 8/19/2014   |
| 30-015-24586            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #010     | Oil       | Federal | P&A-R** | D-27-18S-31E | 4240'    | 10/27/2016  |
| 30-015-32894            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #004     | Oil       | Federal | P&A-R** | E-27-18S-31E | 6367'    | 2/18/2019   |
| 30-015-10593            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #004     | Oil       | Federal | P&A-R   | E-27-18S-31E | 3966**   | 1/15/2014   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-10111            | [4323] CHEVRON U S A INC                       | HINKLE FEDERAL              | #001     | Oil       | Federal | P&A-R** | E-27-18S-31E | 5162'    | 1/5/2014  |
| 30-015-05617            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #001     | Injection | Federal | P&A-R** | F-27-18S-31E | 5188'    | 1/26/2017   |
| 30-015-32843            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #002     | Oil       | Federal | P&A-R** | F-27-18S-31E | 6350'    | 2/13/2019   |
| 30-015-32515            | [173413] E G L RESOURCES INC                   | GREENWOOD PRE-GRAYBURG UNIT | #016     | Gas       | Federal | P&A-R** | J-27-18S-31E | 9976'    | 7/6/2021  |
| 30-015-25815            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #020     | Oil       | Federal | Active  | J-27-18S-31E | 4300'    |   |
|                         |  |                             |          |           |         |         |              |          | <i>Shugart; Yts-7RQ,Q,Grbd; 4.5" csg set 4500' w/ 700 sx - Circulated, Perf 3876'-3980'; 3566'-3748'; 2530'-2702'; acidize &amp; frac; well on pump; ~2 bopd, last prod. Rpt. Dec. 2021</i> |
| 30-015-10607            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #006     | Oil       | Federal | P&A-R   | K-27-18S-31E | 3978**   | 1/26/2017   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-10760            | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #008     | Oil       | Federal | P&A-R   | L-27-18S-31E | 3953**   | 1/1/1900  |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-10106            | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #009     | Oil       | Federal | P&A-R** | L-27-18S-31E | 5120'    | 1/1/1900  |
| 30-015-21273            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #003     | Oil       | Federal | Active  | M-27-18S-31E | 3600**   |   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-22363            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #010     | Oil       | Federal | Active  | M-27-18S-31E | 3650**   |   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-20982            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #002     | Oil       | Federal | Active  | N-27-18S-31E | 3643**   |   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |
| 30-015-10737            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #017     | Oil       | Federal | Active  | N-27-18S-31E | 3984**   |   |
|                         |  |                             |          |           |         |         |              |          | *DOES NOT PENETRATE   |



## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

Section 28 Wells

|              |                                    |                 |      |           |         |         |              |        |                     |
|--------------|------------------------------------|-----------------|------|-----------|---------|---------|--------------|--------|---------------------|
| 30-015-05627 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #001 | Oil       |         | P&A-R   | A-28-18S-31E | 3868** | 1/1/1900            |
|              |                                    |                 |      |           |         |         |              |        | *DOES NOT PENETRATE |
| 30-015-20172 | [196069] MOMENTUM OPERATING CO INC | GULF            | #001 | Oil       | Federal | P&A-R   | A-28-18S-31E | 3927** | 1/28/2010           |
|              |                                    |                 |      |           |         |         |              |        | *DOES NOT PENETRATE |
| 30-015-20196 | [196069] MOMENTUM OPERATING CO INC | GULF            | #002 | Injection | Federal | P&A-R   | H-28-18S-31E | 3935** | 11/30/2016          |
|              |                                    |                 |      |           |         |         |              |        | *DOES NOT PENETRATE |
| 30-015-10288 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #002 | Injection | Federal | P&A-R** | H-28-18S-31E | 5268'  | 12/2/1963           |
| 30-015-05626 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #001 | Oil       |         | P&A-R   | I-28-18S-31E | 3940** | 1/1/1900            |
|              |                                    |                 |      |           |         |         |              |        | *DOES NOT PENETRATE |

Section 34 Wells

|              |  |                  |      |     |         |        |              |        |  |
|--------------|--|------------------|------|-----|---------|--------|--------------|--------|--|
| 30-015-21697 | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL | #006 | Oil | Federal | Active | C-34-18S-31E | 4493'  |  |
|              |  |                  |      |     |         |        |              |        | <i>Shugart; Yts-7RQ,Q,Grbd; 4.5" csg set 4810' w/ 300 sx - Circulated, Perf 3600'-62'; 3782'-3800'; acidize &amp; frac; well on pump; ~1.5 bopd, last prod. Rpt. Dec. 2021</i> |
| 30-015-21613 | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL | #005 | Oil | Federal | Active | D-34-18S-31E | 3642** |  |
|              |  |                  |      |     |         |        |              |        | *DOES NOT PENETRATE  |

**SUMMARY: 15 wells (inc. subject) penetrate proposed disposal interval. 12 P&A'd. \*\*Diagrams included herein.**



## **C-108 ITEM VI**

### AOR Well Information

#### **Plugged Well Schematics**

There are 12 P&A'd Wells Within the AOR Which  
Penetrates the Proposed Injection Zone.

30-015-32616  
30-015-10592  
30-015-05616  
30-015-30680  
30-015-24586  
30-015-32894  
30-015-10111  
30-015-05617  
30-015-32843  
30-015-32515  
30-015-10106  
30-015-10288

*Well Diagrams and Sundries (as applicable) follow this page...*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

RECEIVED  
NMOCD Artesia  
APR 01 2019

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

DISTRICT II-ARTESIA O.D.D.

|  |   |
|--|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | 8. Well Name and No.<br>PRINCIPLE FEDERAL 1       |
| 2. Name of Operator<br>CHEVRON USA INCORPORATED<br>Contact: NICK GLANN<br>E-Mail: nglann@chevron.com                             | 9. API Well No.<br>30-015-32616-00-S1             |
| 3a. Address<br>6301 DEAUVILLE BLVD<br>MIDLAND, TX 79706  | 10. Field and Pool or Exploratory Area<br>SHUGART |
| 3b. Phone No. (include area code)<br>Ph: 661-599-5062  | 11. County or Parish, State<br>EDDY COUNTY, NM    |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 27 T18S R31E NENW 990FNL 1650FWL                   |   |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No, on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

2/20-21/19 MIRU, LD 222 joints 2-7/8" tubing with TAC. Run gauge ring to 6100'.  
2/22/19 Set CIBP @ 6070'. Tag CIBP. Pressure test casing to 1000# - good. Spot 14 bbls salt gel from 5817' to 5250'. Plug #1 25 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 6070' v 5817'.  
2/25/19 Pump 70 bbls 10 PPG BW mixed w/17 SG. Plug #2 80 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 5250' v 4441'. Plug #3 75 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 2600' v 1842'. Perforate @ 1700'. Establish injection rate 1 bpm @ 700#. Pumped 60 bbls 10 PPG BW - no returns. Plug #4 squeeze 25 sxs (1.33 yield, 14.8ppg) Class C cmt with 2% gas block f/ 1700' v 1600'.  
2/26/19 Tag TOC @ 1485'. BLM approved tag. Spot 18 bbls SG from 1485' to 714'. Perforate @ 714'. Establish injection rate 2 bpm at 200# down 5.5" - circulate out annulus. Plug #5 185 sxs (1.33 yield, 14.8ppg) Class C cmt f/ 714' v surface. Good cement returns. RDMO

RECLAMATION PROCEDURE ATTACHED

RECLAMATION DUE 8-26-19

GC 4/5/19  
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #457005 verified by the BLM Well Information System  
For CHEVRON USA INCORPORATED, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/06/2019 (19DLM0177SE)

Name (Printed/Typed) NICK GLANN

Title WELL ABANDONMENT ENGINEER

Signature (Electronic Submission)

Date 03/06/2019

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

ACCEPTED FOR RECORD  
MAR 8 2019  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

Approved By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\*



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

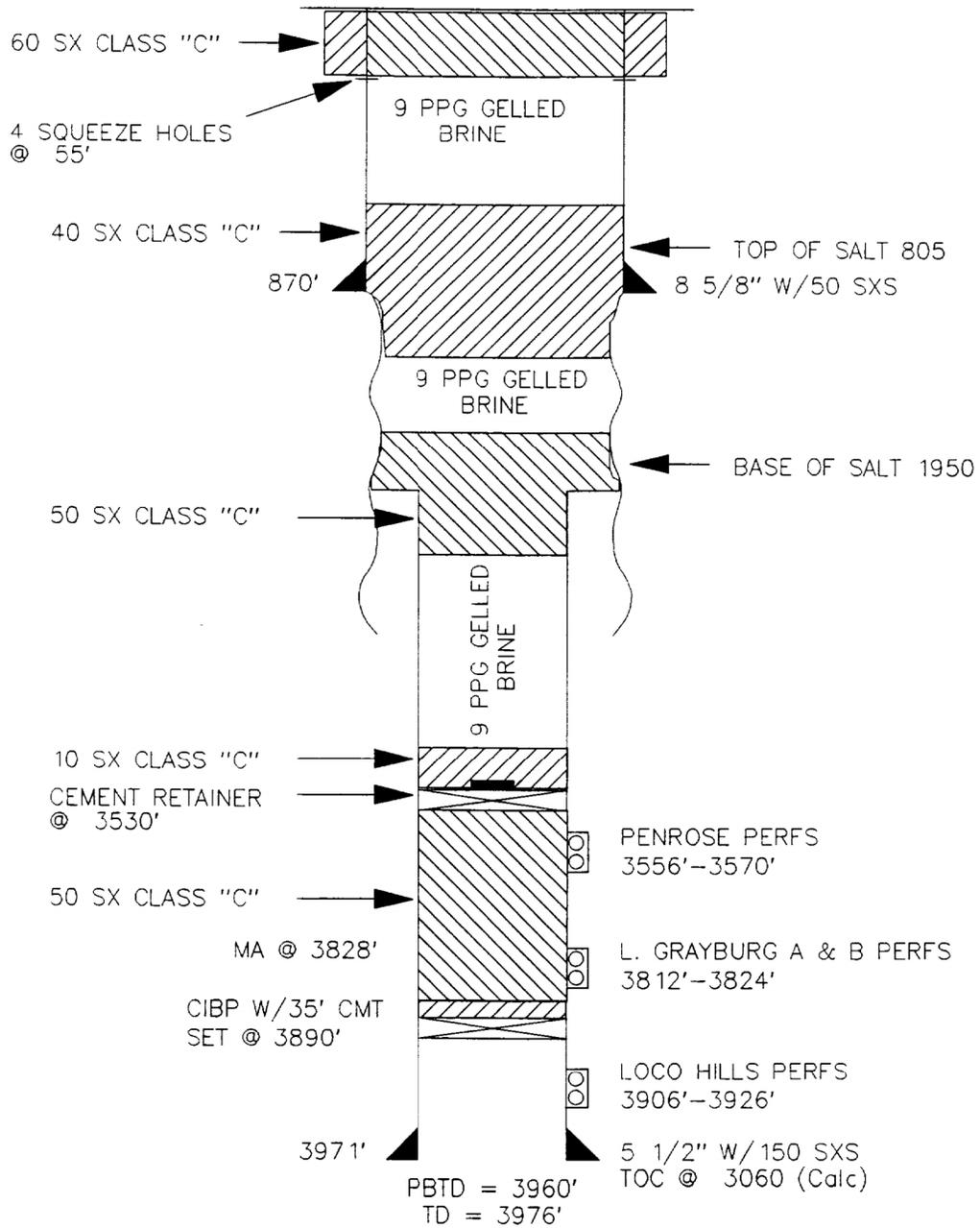
The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure**). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

RSS 12/09/92

# HINKLE F #3 SHUGART FIELD EDDY COUNTY, NEW MEXICO



PLUGGED WELL SCHEMATIC

Greenwood Pre-Grayburg Unit #4

API 30-015-05616

660' FNL & 660' FWL, SEC. 27-T18S-R31E  
EDDY COUNTY, NEW MEXICO

Spud Date: 12/31/1958

P&A Date: 4/21/2018

Well Plugged by:  
Chevron USA, Inc.

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Sqz w/ 313 sx  
1052'- Surface

Shoot Sqz Perfs 1052'  
Establish Rate

Spot 18 sx 1380'-1100'

Shoot Sqz Perfs 1340'  
Could Not Pump In

Spot 72 sx  
2400'-1358'

Stuck Pkr/Tbg 3143'  
Tag Cmt @ 2680'  
Cut @ 2676'

Sqz Perfs  
2260'-70'  
w/ 600 sx

Sqz Perfs  
2850'-60'  
w/ 600 sx

Sqz Perfs  
3350'-60'  
w/ 700 sx

Sqz Perfs  
4000'-10'  
w/ 500 sx

Sqz Perfs  
4992'-5010'  
w/ 305 sx

DEL perfs 4992'-5010'

PBTD @ 5216'

DTD @ 5250'

Surface Casing

8.625", 24.0# J-55 Csg. (11.0" Hole) @ 999'  
700 sx - Circulated to Surface

<P&A SUBSEQUENT SUNDRY>

Form 3160-5 (June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB NO. 1004-0137  
Expires January 31, 2018

5. Lease Serial No. NMLC029392B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and/or No. B91002904B

8. Well Name and No. GREENWOOD PREGB 4

9. API Well No. 30-015-05616-00-S1

10. Field and Pool or Exploratory Area SHUGART

11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                | RECEIVED                                      | TYPE OF ACTION                                     |
|---|---|--|
| <input type="checkbox"/> Notice of Intent         | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                    |
| <input type="checkbox"/> Subsequent Report        | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing      |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction          |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon          |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                 |
|   |   | <input type="checkbox"/> Water Disposal            |
|   |   | <input type="checkbox"/> Production (Start/Resume) |
|   |   | <input type="checkbox"/> Reclamation               |
|   |   | <input type="checkbox"/> Well Integrity            |
|   |   | <input type="checkbox"/> Well Integrity            |
|   |   | <input type="checkbox"/> Other                     |

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletions horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

4/3/2018 MIRU APWS Rig #10, 4/4/2018 - 4/7/2018 Work pump and stuck tbg.  
4/8/2018 RH w/ pkr set @ 3143'. Plug #1 - Squeezed 342xaxs Class H cmt from 4992' - 3400' w/ 305sx outside WOC.  
4/9/2018 Unable to release pkr. Work stuck pkr w/ WLL. Work 1 315' WS down tbg through 4/19/2018.  
Tag Cmt @ 2680'. Cut tbg @ 2676' and left fish in hole.  
4/20/2018 Plug #2 - Spotted 175axs Class C from 2400' - 1358' covering fish. Tagged w/ wireline at 1650'. Perf 4 1/2" csg @ 1340'. Unable to establish rate. Perf @ 1052'. Establish rate.  
4/21/2018 Plug #3 - Spotted 185axs Class C cmt from 1380' - 1100'. Plug #4 - Squeezed 313axs Class C cmt from 1052' - Surface. RD MOL.  
The subject well was P&A'd on 4/21/2018

APR 27 2018  
RECEIVED  
NM OIL CONSERVATION  
ARTESIA DISTRICT

Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #412287 verified by the BLM Well Information System  
For CHEVRON USA INCORPORATED, sent to the Carlsbad  
Committed to APWS for processing by JAMES AMOS on 04/25/2018 (18P03085E)

Name (Printed/Typed) HOWE LUCAS Title ENGINEER

Signature (Electronic Submission) Date 04/25/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED JAMES A AMOS Title SUPERVISORY PET Date 04/26/2018

Office Carlsbad

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to these rights on the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2) \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

Production Casing

4.5", 9.5# J-55Csg. (7.325" Hole) @ 5250'  
194 sx Howco - TOC  
(7.875" Hole Size)

Drawn by: Ben Stone, 4/13/2022



YTS: 2180'

SA: 3940'

DEL: 4155'



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE -Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
SRM1403

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
GREENWOOD FEDERAL COM 2

2. Name of Operator  
CHEVRON USA INCORPORATED Contact: CINDY H MURILLO  
E-Mail: cherreramurillo@chevron.com

9. API Well No.  
30-015-30680-00-S1

3a. Address  
15 SMITH ROAD  
MIDLAND, TX 79705

3b. Phone No. (include area code)  
Ph: 575-263-0431  
Fx: 575-391-6679

10. Field and Pool, or Exploratory  
SHUGART

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 27 T18S R31E MWNW 1202FNL 660FWL

11. County or Parish, and State  
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHEVRON USA INC HAS PLUGGED THE ABOVE WELL  
ATTACHED IS THE PLUGGING PROCEDURE TO PLUG ABOVE WELL

RECLAMATION  
DUE 2-15-15

Accepted for record  
WRD MANDOC 9-26-14

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
SEP 24 2014

Accepted as to plugging of the well bore.  
Liability under bond is retained until  
Surface restoration is completed.

RECEIVED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #258501 verified by the BLM Well Information System  
For CHEVRON USA INCORPORATED, sent to the Carlsbad  
Committed to AFMS for processing by JAMES AMOS on 09/12/2014 (14LD0220SB)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| Name (Printed/Typed) CINDY H MURILLO | Title PERMITTING SPECIALIST |
| Signature (Electronic Submission)    | Date 08/27/2014             |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

|   |                                       |                 |
|---|---------------------------------------|-----------------|
| Approved By <b>ACCEPTED</b>   | JAMES A AMOS<br>Title SUPERVISORY PET | Date 09/23/2014 |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. |                                       | Office Carlsbad |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



MERIT ENERGY COMPANY

Job Daily Summary

Support Line: 972-628-1700 #1

Well Name: Greenwood Fed 02

Report Date: Report #

|                                |                            |                              |                                |                             |                                      |
|--------------------------------|----------------------------|------------------------------|--------------------------------|-----------------------------|--------------------------------------|
| Accounting ID<br>14539-01      | Original Spud Date         | Operator                     | SAP AFE Number<br>300153068000 | Lease<br>Greenwood Federal  | Unit Name<br>GREENWOOD FEDERAL COM 2 |
| Working Interest (%)<br>100.00 | Original KB Elevation (ft) | SAP Latitude                 | SAP Longitude                  | Total Depth                 | KB Adjustment (ft)                   |
| Field Name<br>Shugart          | County<br>EDDY             | State/Province<br>NEW MEXICO | Field Office<br>MIDLAND        | Accounting Group<br>Shugart | Producing Status<br>Producing Gas    |

|                                |  |                            |              |
|--------------------------------|--|----------------------------|--------------|
| Job Category<br>Plug & Abandon | Primary Job Type<br>Permanently Abandon Well | Job Start Date<br>8/5/2014 | Job End Date |
|--------------------------------|--|----------------------------|--------------|

| Daily Operations   |                          |            |                               |                               |  |
|--|--------------------------|------------|-------------------------------|-------------------------------|--|
| Report Start Date  | Primary Activity         | AFE Number | Daily Field Est. Total (Cost) | Cum Field Est. To Date (Cost) |  |
| 8/5/2014   | miru                     |            | 5,660.00                      | 5,660.00                      |  |
| Operations Summary<br>miru pulling spot equipment  |                          |            |                               |                               |  |
| 8/6/2014   | pooh                     |            | 7,575.00                      | 13,235.00                     |  |
| Operations Summary<br>crew to location unset pkr pooh w/ pipe 180 jts out<br>secure well sion  |                          |            |                               |                               |  |
| 8/7/2014   | set cbbp                 |            | 6,597.00                      | 19,832.00                     |  |
| Operations Summary<br>crew to location pooh w/ rest of pipe ru wireline set up to dump soc rih dropped total of 36 soc top of rbp 11596 ru cbbp on wireline rih<br>set cbbp @ 11150<br>rd wireline rih with pipe to ( tag up) on cbbp<br>total of pipe in well 240<br>secure sion  |                          |            |                               |                               |  |
| 8/8/2014   | tagged up/ circulate mud |            | 6,905.00                      | 26,737.00                     |  |
| Operations Summary<br>crew to location rih w/ remainder of pipe tagged up @ (11150) circulate hole 9.5 # mud: 268 bls<br>spot 60 sx class h<br>displace 41 bls 9.5 mud choc: 10606<br>roh w 2 3/8 tbg 42 jts in well secure slowe  |                          |            |                               |                               |  |
| 8/11/2014  | perforate                |            | 5,850.00                      | 32,587.00                     |  |
| Operations Summary<br>row tbg ru w/ w/ rih perf @ 9790 roh w.w. line rih w/ tbg. 287 jts. bottom set @ 9356 load hole set pkr. psi 1000# holding wait on BLM ok ooh w/ pipe set to perf. a.m. @ 9800 secure well sion  |                          |            |                               |                               |  |
| 8/12/2014  | spot cement              |            | 4,165.00                      | 36,752.00                     |  |
| Operations Summary<br>crew to location finnis pooh w/ pipe 30 stds. ( p.u. had equipment problem) lay dn pkr rih open end spot 30 soc below perfs. 9790 pull back up tie back 20 stds.<br>set to tag toc. a.m.   |                          |            |                               |                               |  |
| 8/13/2014  | spot cement              |            | 5,732.50                      | 42,484.50                     |  |
| Operations Summary<br>rih tagged up tagged up 9738 short 168 ft from required 9570 spot additional 25 soc. pooh w/ 20 stds set up to tag a.m. secure well sion   |                          |            |                               |                               |  |
| 8/14/2014  | perf cement              |            | 7,730.00                      | 50,214.50                     |  |
| Operations Summary<br>crew to location rih tagged cement @ 9561 BLM ok pooh rih w/ perf @ 6308 pooh w/w/ rih w/ tbg pkr sqz 40 sxs @ 6308-6148 woc 4 hrs set rih tagged up 6150<br>lay dn 14 jts @ 5509 spot 40 soc pooh 17 stds secure well sion  |                          |            |                               |                               |  |
| 8/15/2014  | perf squeeze             |            | 5,090.00                      | 55,304.50                     |  |
| Operations Summary<br>Rih tag cmt @ 5248 roh tbg rig up w/ rih perf @ 4985 sqz 40 sx WOC shutting psi 600 bleed down roh w tbg and pkr rih tag cmt @ 4678 roh rig up w/ rih perf @ 2850 rih tbg & pkr set @ 2510<br>No need to sqz cmt @ 2850 first did establish rate @ 2bbis pm well did circulate sqz 40 sx displace 14.5 bbls showing psi 200 secure well slowe  |                          |            |                               |                               |  |
| 8/18/2014  | perf sqz                 |            | 5,535.00                      | 60,839.50                     |  |
| Operations Summary<br>crew to location bleed dn well 0 psi release pkr roh nd pkr rih tag cmt @ 2673 roh w/ tbg ru w/ rih perf @ 2000 ft roh rd w/ rih w/ tbg and pkr set @ 1695 load hole establish rate @ 2 bpm sqz 45 soc displace 10 3/4 bls woc bleed dn roh w/ tbg pkr rih w 2 3/8 tbg tag toc @ 1832 pooh w/ tbg ru w/ rih perf @ 875 roh w/ rd rih w/ tbg and pkr set @ 587 load hole set pkr establish rate sqz 35 soc displace 6 3/4 bls si psi 200 # tag am secure sion |                          |            |                               |                               |  |
| 8/19/2014  | rdmo                     |            | 5,625.00                      | 66,464.50                     |  |
| Operations Summary<br>crew to location bleed dn well release pkr pooh rih tag @ 749 pooh rih w/ w/ perf @ 550 roh rd w/ l. rih w/ tbg and pkr set @ 37 ft load hole set pkr set rate and pump 40 bls brine release pkr roh ndbop rih w/ pkr 10 ft set squeeze 150 sxs from perfs. to surface release pkr roh top well rd/ p unit and pump equipment move.<br><br>final report  |                          |            |                               |                               |  |

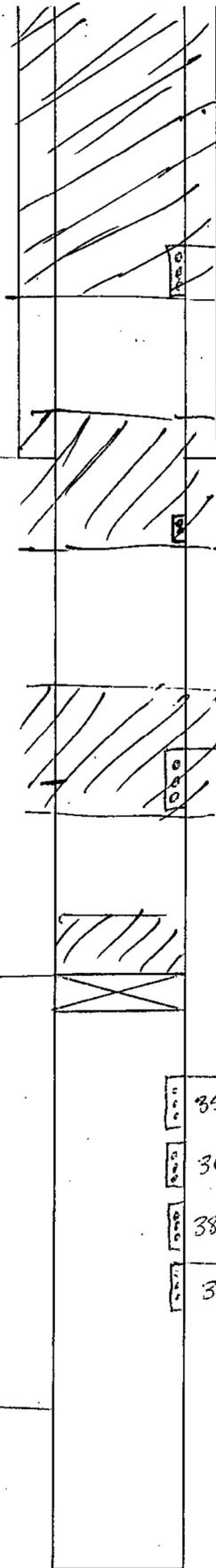
Momentum Operating Co. Inc.  
 #10 "F" #10

12 1/4" Hole  
 8 5/8" 24# Set @ 700'  
 Cemented w/ 400 SxS

BOS @ 1970'  
 Du tool @ 2072'

(Proposed)  
 CIRP @ 3500'  
 w/ 30' Cement on top  
 25 Sx

7 7/8" Hole  
 5 1/2" 14# Set @ 4500'  
 Cemented w/ 2200 SxS  
 (Circulated)



Base of Salt @ 1945'  
 (Proposed)  
 Perf. & Attempt to Sqz. @ 450' a 45 Sx Plug. If unable to Est. Rate Spot 45 Sx Plug @ 400' to Surface 500'

\* Add Plug  
 Perf. & Sqz. cmt from 640'-650'  
 woc + Tag

(Proposed)  
 Perf. & Attempt to Sqz. 40 Sx Plug @ 1995'  
 It unable to Est. Rate TTH #14 Spot 25 Sx Plug 2175'

Penrose Perfs

- 3548'-68'
- 3608'-44'
- 3808'-16'
- 3898'-22'

Grayburg Perfs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
LC02932B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

|  |   |  |
|--|---|--|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 7. If Unit of CA/Agreement, Name and/or No.                      |
| 2. Name of Operator<br>Momentum Operating Co., Inc.  |   | 8. Well Name and No.<br>Hinkle F #10                             |
| 3a. Address<br>P.O. Box 2439 Albany, Texas   | 3b. Phone No. (include area code)<br>325-762-3331 | 9. API Well No.<br>30-015-24586                                  |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>330 FNL & 330 FWL S27, T18S, R31E                      |   | 10. Field and Pool or Exploratory Area<br>Shugart (Q, Y, 7R, GB) |
|  |   | 11. Country or Parish, State<br>Eddy County, New Mexico          |

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

10-25-16 Set CIBP @ 3500' and pump 25 sx class C cement. Loaded hole with mud, Perf @ 2125', couldn't establish rate, RIH hole to 2175', pump a 30 sx plug. WOC 4 hrs, tag @ 1910'.  
10-26-16 Perf @ 840', couldn't establish rate, RIH to 890', pump 30 sx plug, WOC 4 hrs, tag @ 645'. Perf @ 450', couldn't establish rate, RIH to 500', pump 80 sx to surface.  
10-27-16 Cut well head off 3" BGL. Weld steel plate and dry hole marker.

NEW OIL CONSERVATION  
FILE # 8 2017

RECEIVED

*Reclamation Due 4-27-17*

|  |                |                  |
|--|----------------|------------------|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)<br>Ted Tidwell |                | Title Operations |
| Signature <i>TJ</i>  | Date 1-31-2017 |                  |

Accepted for record  
M/MOCD  
*A. G. B.*

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

|   |               |                 |
|---|---------------|-----------------|
| Approved by<br><i>James G. Davis</i>  | Title<br>SAET | Date<br>2-13-17 |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office<br>CFO |                 |

Title 43 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well: **Principle F 4**  
 Field: **Shugart**  
 Reservoir: **Delaware**

**Location:**  
 Section: 27  
 Township: 18  
 Range: 31  
 County: Eddy State: NM

**Well ID Info:**  
 Chevno: HN3642  
 API No: 3001532894  
 Spud Date: 12/2/03  
 Compl. Date: 1/15/04

**Surface Csg:** 9.625" 40#, J55  
**Set:** @ 647'  
**Hole Size:** 12.25"  
**Circ:** Yes **TOC:** Surface  
**TOC By:** Circulated

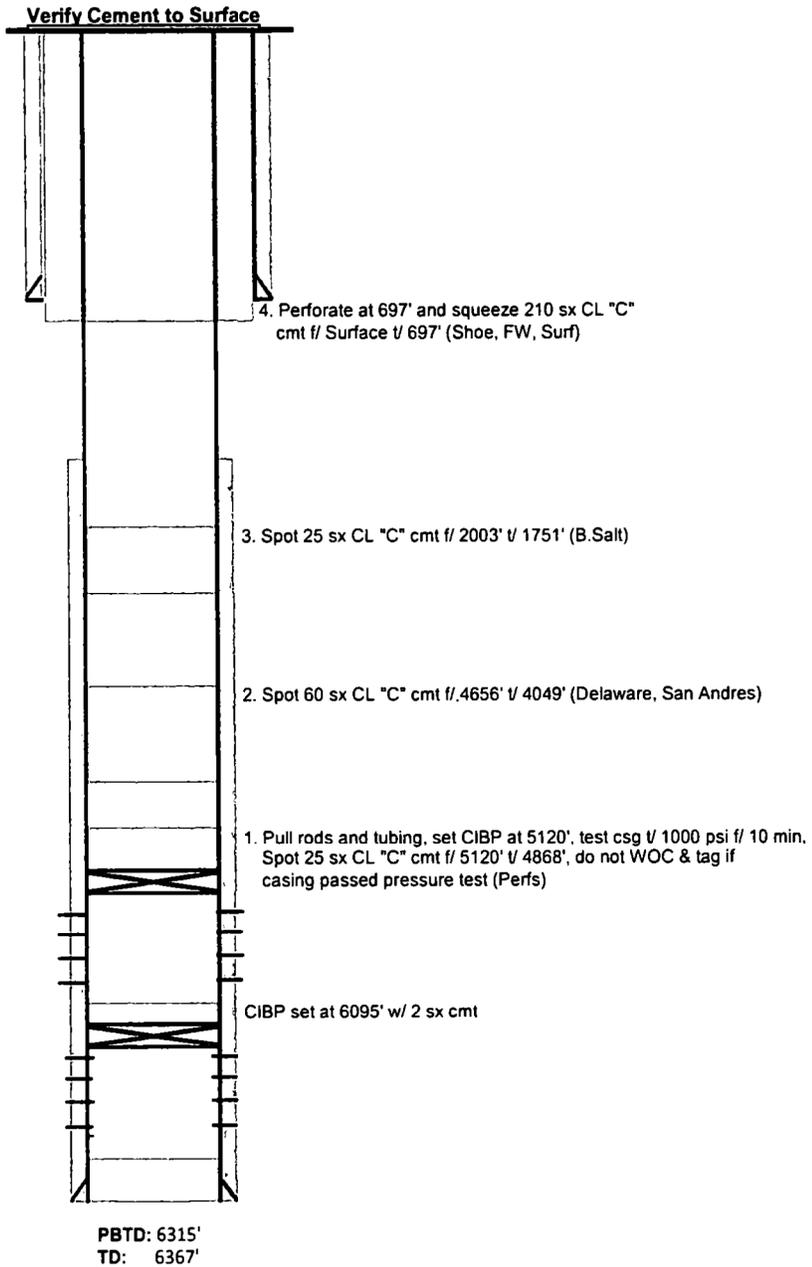
**Prod. Csg:** 5 1/2", 17#, J55  
**Set:** @ 6367'  
**Hole Size:** 8.75"  
**Circ:** No **TOC:** 1480'  
**TOC By:** CBL

| Formation    | TD, ft |
|--------------|--------|
|              | Top    |
| Rustler      | 620    |
| Salado       | 851    |
| Base of Salt | 1,953  |
| Bowers Sand  | 3,020  |
| San Andres   | 4,162  |
| Delaware     | 4,606  |
|              |        |
|              |        |
|              |        |

Perfs 5173'-5268'

Perfs 6140'-6222'

**Proposed Wellbore Diagram**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

|  |   |   |
|--|---|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 8. Well Name and No.<br>PRINCIPLE FEDERAL 4       |
| 2. Name of Operator<br>CHEVRON USA INCORPORATED  |   | 9. API Well No.<br>30-015-32894-00-S1             |
| Contact: HOWIE LUCAS<br>E-Mail: howie.lucas@chevron.com  |   |   |
| 3a. Address<br>6301 DEAUVILLE BLVD<br>MIDLAND, TX 79706  | 3b. Phone No. (include area code)<br>Ph: 832-588-4044 | 10. Field and Pool or Exploratory Area<br>SHUGART |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 27 T18S R31E SWNW 1920FNL 660FWL                   |   | 11. County or Parish, State<br>EDDY COUNTY, NM    |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

2/5/19 to 2/7/19 MIRU C&J Energy Services. LD rods and tubing.  
2/8/19 Set CIBP @ 5170'. Attempt P/T casing; slow leak off.  
2/13/19 MIRU APWS.  
2/14/19 Tag CIBP @ 5110'. Equalize well. SD.  
2/15/19 Plug #1 25 sxs (1.32 yield, 14.8ppg) Class C cmt from 5110'-4857'. Displace w/26 bbls. Pump 32 bbls 10 ppg brine. WOC. Tag @ 4857'. P/T casing to 1000#; good. Spot 62 bbls 10 ppg salt gel from 4857' - 2200'. Plug #2 60 sxs (1.32 yield, 14.8ppg) Class C cmt from 4656' - 4049'. Displace w/23.5 bbls 10 ppg brine. Plug #3 25 sxs (1.32 yield, 14.8ppg) Class C cmt from 2200' - 1950'. Displaced w/11 bbls brine. PUH. Reverse out 15 bbls of 10 ppg brine. WOC.  
2/18/19 Tag cmt @ 2017'. Tag approved BLM. Spotted 21 bbls 10 ppg SG from 2017' to 1100'. Perforate 1-9/16" 2 4 SPF per gun at 1100'. Establish injection ratge down 5.5" casing and out 9-5/8" casing with 41 bbls 10 ppg brine 2 bpm @ 150#. Plug #4 Mix and pump 60 sxs (1.32 yield, 14.8ppg) Class C

GC 4/5/19  
Accepted for record - NMOCD

RECLAMATION PROCEDURE ATTACHED

RECLAMATION DUE 8-20-19'

RECEIVED

APR 01 2019

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #457692 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 03/14/2019 (19DLM0178SE) DISTRICT II-ARTESIA O.C.D.

|                                   |                 |
|-----------------------------------|-----------------|
| Name (Printed/Typed) HOWIE LUCAS  | Title ENGINEER  |
| Signature (Electronic Submission) | Date 03/12/2019 |

ACCEPTED FOR RECORD

MAR 20 2019

McKinney HLC

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By \_\_\_\_\_ Title \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\*

Well: Hinkle Federal #1

**P&A  
Wellbore Diagram**

Reservoir: Delaware

**Location:**  
1650' FNL & 660' FWL  
Section: 27  
Township: 18S  
Range: 31E  
County: Eddy State: NM

**Well ID Info:**  
Chevno: FC6713  
API No. 30-015-10111  
Cost Center: UCRJ10400  
Spud Date: 8/31/1963  
Compl. Date: 1/23/1970

**Elevations:**  
GL: 3631  
KB: 3642  
DF:



Tag Cmt @ 381'; shoot SQZ holes @ 345' & Circulate Cmt to Pit from Surface Pipe

Surf. Csg: 8 5/8"; 24# J-55 ST&C  
Set: @ 628' w/ 350 sx  
Hole Size: 12 1/4"  
Circ: Yes TOC: Surface  
TOC By: Circulation

Shoot SQZ holes @ 795'  
Squeeze w/ 50 sx

Cut TBG @ 1646' (PKR stuck)

Shoot SQZ holes @ 2030' (B/Salt)  
Squeeze w/ 50 sx

Spot 25 sx Cmt w/ across Queen Fmtn  
3972'-3842'

Spot 50 sx Cmt w/ Pkr @ 4730'

Top of fish and sand fill @ 4.777'

**Perfs: Status**  
4926'-4938' Delaware - Open  
4975'-5002' Delaware - Open  
5022'-5030' Delaware - Open  
5042'-5048' Delaware - Open  
5052'-5056' Delaware - Open

Prod. Csg: 4 1/2"; 9.5# J-55 LT&C  
Set: @ 5162' w/ 400 sks  
Hole Size: 7 7/8"  
Circ: No TOC: 2865'  
TOC By: Temperature Survey

| Item                | Depth   | Length | Weight   | Volume | Volume   | Volume  |
|---------------------|---------|--------|----------|--------|----------|---------|
| Tubing - Production | 5020.00 |        | 4.711.00 |        | 4.711.00 |         |
| Tubing              | 155     | 2.38   | 4.70     | 1.55   | 4.656.30 | 4.556.3 |
| Anchor-catchers     | 1       | 4.1/2  |          |        | 2.75     | 4.569   |
| Tubing              | 4       | 2.38   | 4.70     | 1.55   | 128.25   | 4.586.3 |
| Pump Sealing/Nipple | 1       | 2.38   |          |        | 1.10     | 4.586.3 |
| Perf Sub            | 1       | 2.38   |          |        | 4.10     | 4.590.3 |
| Tubing              | 1       | 2.38   | 4.70     | 1.55   | 29.50    | 4.711.0 |

COTD: 4777  
PBTD: 5090'  
TD: 5162'

Updated: 12/19/2013

By: A. Smalls

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
HINKLE FEDERAL 1

2. Name of Operator  
CHEVRON USA INC  
Contact: CINDY H MURILLO  
E-Mail: CHERRERAMURILLO@CHEVRON.COM

9. API Well No.  
30-015-10111

3a. Address  
15 SMITH RD  
MIDLAND, TX 79705  
3b. Phone No. (include area code)  
Ph: 575-263-0431  
Fx: 575-391-6679

10. Field and Pool, or Exploratory  
SHUGART DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 27 T18S R31E 1650FNL 660FWL

11. County or Parish, and State  
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHEVRON USA HAS PLUGGED THE ABOVE WELL AS FOLLOWS:  
12/10/13 RUPU, NDWH, NUBOP, WEATHERFORD DISASSEMBLED PUMPING UNIT, TEST BOP W/ PEAK PKR. SWH, SDFN.  
12/11/13 RU TBG SCANNERS, POOH SCANNING TUBING TEST RAMS ON BOP W/RBP. PU MU FISH BHA. UNLOAD  
2.375' PH-6 WORKSTRING, TALLEY, START RIH, SW, SDFN.  
12/12/13 CONTINUE PICKING UP TBG, TAG FISH @ 4764 (151 JTS 2.375; PH-6 WORKSTRING), ATTEMPT TO  
SCREW INTO FISH (UNSUCCESSFUL), RUPS AND STRIPPER HEAD, PUMP 10 BBLS BRINE AND BROKE CIRCULATION,  
SWH, SDFN.  
12/13/13 CC WELLBORE, WASH DOWN W/PS (4764 TO 4773). SCREW INTO FISH BY HAND, TORQUE UP TO 900  
PSI W/TONGS, SPUN FREE, POOH (NO FISH, MIDDLE THREADS ON PIN WERE PULLED), SWH, SDFN.  
12/14/13 MAKE UP FISH BHA, RIH W 3 7/8' OVERSHOT WITH 3 1/16' GRAPPLE, ATTEMPT TO LATCH ONTO FISH @  
4773, UNABLE TO LATCH ON TO FISH, POOH (NO SCARING INSIDE OVERSHOT). ORDERED MILLS FOR MILLING  
FISH, SWH, SDFN.

Accepted for record  
ADD NMOCD 3/16/14

14. I hereby certify that the foregoing is true and correct.

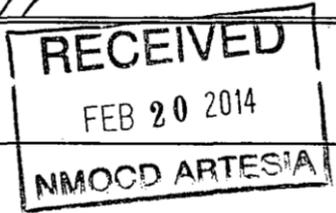
Electronic Submission #234671 verified by the BLM Well Information System  
For CHEVRON USA INC, sent to the Carlsbad

Name (Printed/Typed) CINDY H MURILLO

Title PERMITTING SPECIALIST

Signature (Electronic Submission)

Date 02/06/2014



THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Accepted for Record  
Approved By James A. Ames

Title SEPS

Date 2-11-14

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECLAMATION  
DUE 7-5-14

Accepted as to plugging of the well bore.  
Liability under bond is retained until  
Surface restoration is completed.

**Additional data for EC transaction #234671 that would not fit on the form**

**32. Additional remarks, continued**

12/15/13 WELL SHUT IN, NO OPERATIONS DUE TO WORK OVER CREW ON WEEKEND OFF.  
12/16/13 MAKE UP AND RIH WITH 3.875' MILL & BHA,, 150 JTS TBG, TAG FISH 4776'. RUPS. MILL 1' FROM 4776-4777 (60+/- RPM, 1-2 PTS DOWN) (METAL SHAVINGS IN RETURNS). STOPPED MAKING FOOTAGE, RDPS, POOH (MILL WAS IN GOOD SHAPE), SWH, SDFN.  
12/17/13 RIH WITH SHOE/WASH PIPE (3.875'), TAG FISH AT 4777, CUT AROUND FISH WITH MILL (CUT DOWN 4'), BEAT DOWN TRYING TO GET FISH TO JAM AND ALLOW SHOE TO CUT. CIRCULATE WELLBORE CLEAN WITH BRINE. RIG DOWN POWER SWIVEL, PULL OUT OF THE HOLE STANDING BACK WORKSTRING, (GREEN SHOE). SHUT WELL IN, SDFN.  
12/18/13 MAKE UP 4' BULLDOG BOX TAP TO BHA, TRIP IN HOLE. TAG FISH, ENGAGE FISH SEVERAL TIMES, AND SLIPPING OFF ALL TIMES, POOH, LAID DOWN BOX TAP, MAKE UP AND RIH WITH 3.875' JUNK MILL, TAG FISH, SHUT WELL IN. SDFN.  
12/19/13 POOH (LAID DOWN TUBING AND BHA). PICK UP /RIH WITH PACKER AND PRODUCTION TUBING STRING. SHUT WELL IN/SHUT DOWN FOR THE NIGHT.  
12/20/13 LOAD 2.375' PH-6 WORKSTRING AND DELIVER BACK TO KNIGHT, FINISH RIH WITH 2.375' PRODUCTION TUBING. SET PACKER AT 4730'. SET PACKER ESTABLISH INJECTION, SHUT WELL IN/SHUT DOWN FOR NIGHT.  
12/21 TO 12/25 WELL SHUT IN, NO OPERATIONS, SHUT DOWN FOR HOLIDAY.  
12/26/13 SLIGHT VAC, PUMP LOWER CEMENT PLUG, POOH.  
12/27/13 RIH WITH 2.375' COLLAR & 2.375' PRODUCTION TUBING STRING, TAG CEMENT, PULL UP HOLE, SPOTTED 25 SACKS C NEAT CEMENT OVER TOP OF THE QUEENS FORMATION (3972-3842), POOH, SHUT WELL IN/SHUT DOWN FOR THE NIGHT.  
12/28/13 SPOT IN AND RIG UP APOLLO WIRELINE, PERFORATE SQUEEZE HOLES AT BOTTOM OF THE SALT ZONE 2,030' (WELL KICKED WITH SLIGHT WATER FLOW), KILLED WELL WITH 50 BBL 10 PPG BRINE, RIH PKR, SQUEEZE LOWER SALT ZONE WITH 50 SACKS C NEAT (2% CC), SHUT WELL IN, SHUT DOWN FOR HOLIDAY.  
12/29 - 01/01 WELL SHUT IN NO OPERATIONS DUE TO RIG SHUT DOWN FOR HOLIDAY.  
01/02/14 OPEN WELL. PACKER IS APPARENTLY STUCK DUE TO CEMENT OPS. TIH WITH/ WL AND TAG INSIDE TUBING @ 1684 FT. CUT OFF TUBING @ 1646 FT.  
01/03/14 TOH WITH CUT OFF 2 3/8' TUBING FROM 1646 FT. LAY DOWN TUBING TO 387 FT. TIH AND PERFORATE @ 795 FT. TIH WITH PEAK 32-A TENSION PACKER AND GET INJECTION RATE WITH SURFACE PIPE OPEN. RU BAKER AND PUMP 100 SACKS CLASS C NEAT CEMENT AND DISPLACE TO 578 FT.  
01/04/14 TIH AND TAG CEMENT @ 381 FT. TOH LAYING DOWN TUBING, RU APOLLO AND PERFORATE @ 345 FT. PRESSURE UP AND BREAK CIRCULATION WITH SURFACE PIPE. ND BOP ASSY. NU B-1 ADAPTER FLANGE AND RU BASIC CEMENT AND CIRCULATE CEMENT TO SURFACE.  
01/6/14 RIG DOWN PULLING UNIT.

Momentum Operating Co. Inc.  
Hinkle "F" #1

Base of salt @ 1945'

\* Add Plug:  
Perf + SQZ from 1670 - 775'  
WOC + Tag

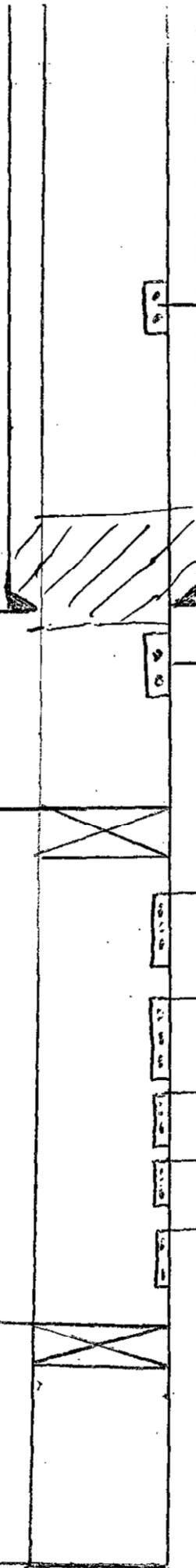
8 5/8" 28# set @  
1070' cemented  
w/ 470 SX Circulated

Proposed CIBP @  
3500' w/ 36' 25 SX  
Cement on top

-1964-  
CIBP set @  
3960'

7 7/8" hole

4 1/2" 9.5# J-55 CSG set @ 5188'



Proposed  
Perf. + Attempt  
to SQZ 50 SX  
Plug @ 450'  
If unable to  
Est. Rate Spct  
30 SX Plug @  
450' + Circ. to  
Surface

Proposed  
Perf. + Attempt  
to SQZ 40 SX  
Plug @ 1995'  
If unable to  
Est. Rate TIF  
@ 2250' and  
Spct 25 SX Plug  
Tag at 1875'

Periscope  
Peris @  
3534 - 66

Periscope  
Peris @  
3710 - 32

Periscope  
Peris @  
3820 - 10

Periscope  
Peris @  
3716 - 86

Periscope  
Peris @  
3916 - 38

TO 6102'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

5. Lease Serial No.  
LC029392B

6. If Indian, Allottee or Tribe Name

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.  
Hinkle F #1

2. Name of Operator

Momentum Operating Co., Inc.

9. API Well No.  
30-015-05617

3a. Address

P.O. Box 2439 Albany, Texas

3b. Phone No. (include area code)

325-762-3331

10. Field and Pool or Exploratory Area  
Shugart (Q, Y, 7R, GB)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1880 FNL & 1980 FWL Sec 27, T18S, R31E

11. Country or Parish, State

Eddy County, New Mexico

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |  |
|---|---|--|--|---|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |  |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |  |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |  |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |  |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |  |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

12-14-16 Set CIBP @ 3500' with 25 sx cement on top. Circulate well with mud.  
 12-15-16 Perf @ 1995', unable to establish rate, RIH to 2250', pump a 25 sx plug. WOC.  
 12-20-16 Tag @ 1814'. Perf @ 1070', unable to establish rate, RIH to 1120', pump a 25 sx plug. WOC.  
 12-21-16 Tag @ 810'. Perf @ 450', circulated 80 sx to surface.  
 1-26-16 Cut well head off 3' BGL, weld steel plate and dry hole marker.

NM OIL CONSERVATION  
ARTESIA DISTRICT  
FEB 28 2017

RECEIVED

*Reclamation 7-26-17*

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Ted Tidwell

Title Operations

Signature *ATD*

Date 1-31-2017

Accepted for record  
NM/OCD  
*R.L.B.*

*Accepted for Record* THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

*James C. [Signature]*

Title

*SPET*

Date

*2-13-17*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

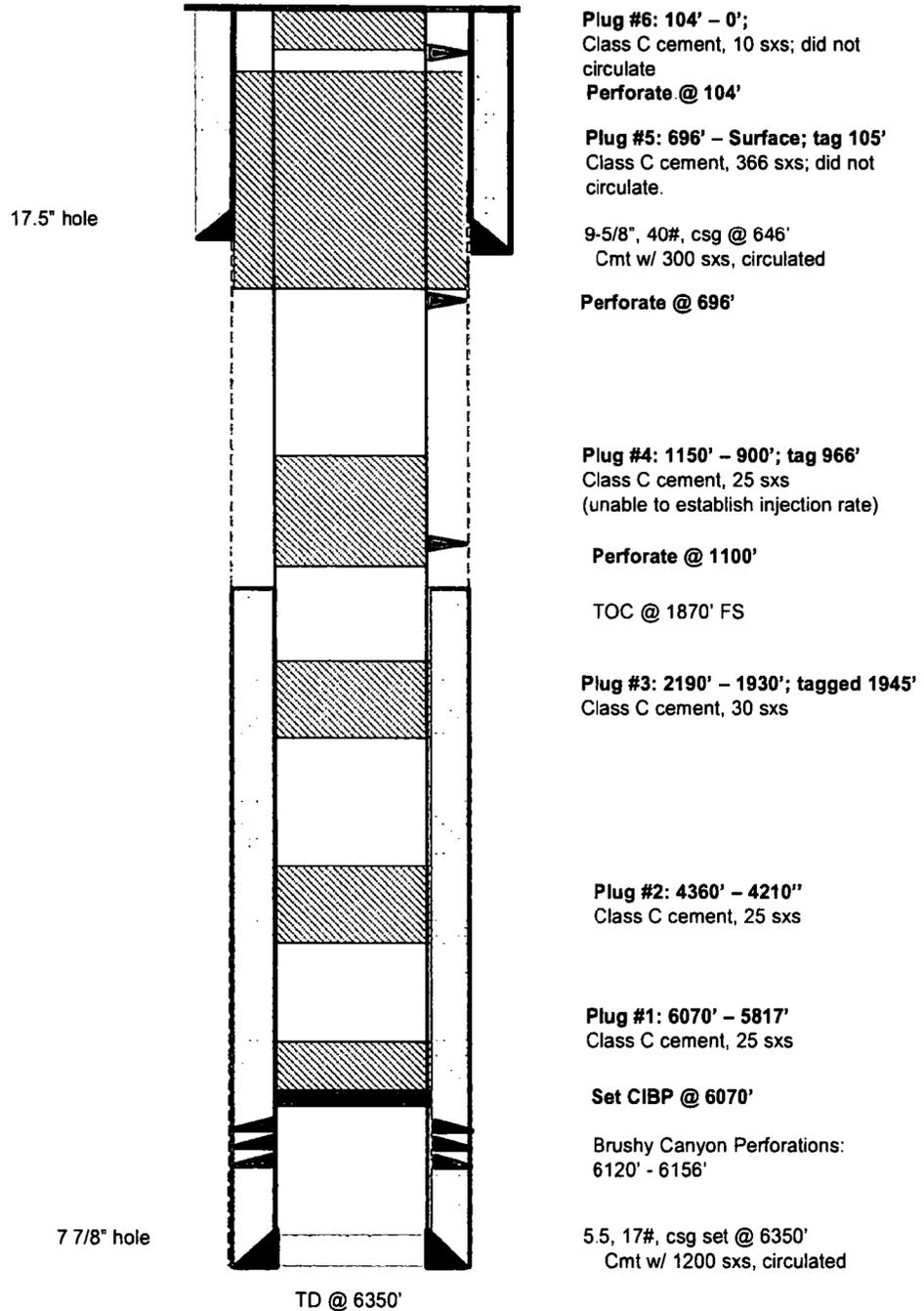
Office

*CFD*

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# Principle Federal #2 As Plugged WBD 2/13/19

Shugart; Delaware  
1760' FNL & 1650' FWL, Section 27, T-18-S, R-31-E  
Eddy County, NM/ API # 30-015-32843



**WELL DATA SHEET**

**FIELD:** Shugart Bone Spring **WELL NAME:** Greenwood Pre-Grayburg Unit #16 **FORMATION:** Bone Spring

**LOCATION:** 1980 FSL & 1980 FWL **SEC:** 27 **TWP:** 18S **RGE:** 31E **COUNTY:** EDDY **STATE:** NM

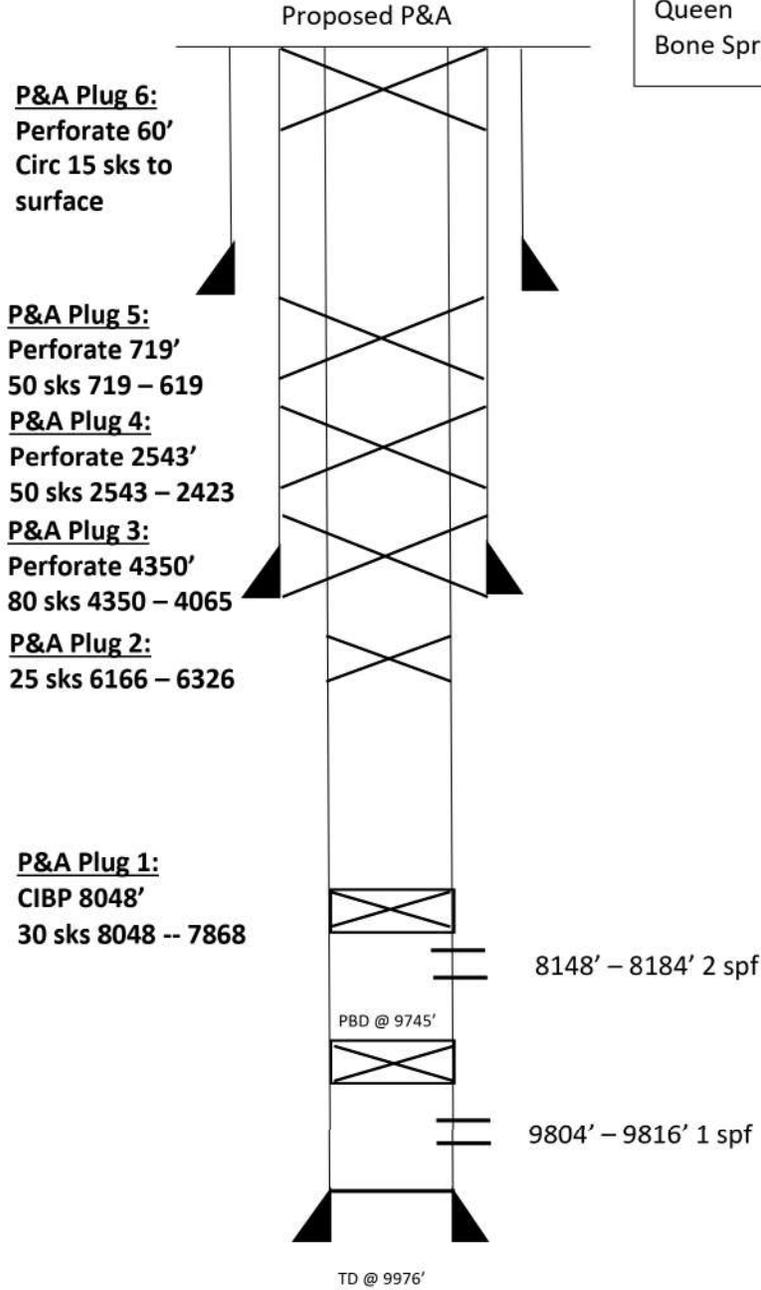
**API NO:** 30-015-32515 **CURRENT STATUS:** Shut-in

| Formation Tops |      |
|----------------|------|
| Salt/Anhy      | 654  |
| Yates          | 2493 |
| Queen          | 3321 |
| Bone Spring    | 6274 |

13 3/8", 48 lb/ft csg  
Set @ 669'  
500 sks cmt circ to  
surface. 17.5" hole.

8 5/8", 32 lb/ft csg  
Set @ 4115'  
1515 sks cmt circ to  
surface. 12.25"  
hole.

5 1/2", 17 lb/ft, N-80 csg  
Set @ 9971'  
1190 sks cmt  
TOC @ 5000' est  
7 7/8" hole.





N.M.O.C.D. COPY  
UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**LC-029392-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Greenwood Unit**

9. WELL NO.  
**9**

10. FIELD AND POOL, OR WILDCAT  
**Shugart**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 27**

**T-18-S, R-31-E**

12. COUNTY OR PARISH 13. STATE  
**Eddy N.M.**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  **Dry Hole**

2. NAME OF OPERATOR  
**Southland Royalty Company**

3. ADDRESS OF OPERATOR  
**1100 Wall Towers West, Midland, Texas 79701**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
**Unit Letter L, 2310' FSL, 660' FWL, Sec. 27, T-18-S R-31-E**

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**3629' GR**

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

| NOTICE OF INTENTION TO:                      |   | SUBSEQUENT REPORT OF:                          |  |
|--|---|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>        | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    | FRACTURE TREATMENT <input type="checkbox"/>    | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/>    |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         | (Other) <b>Re-entered &amp; replug</b>         | <input checked="" type="checkbox"/>      |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- 10-22-79 Rig up. Weld on 8 5/8" csg. & head. Install BOP. Drill out cmt plug @ 600-632. Cleanout to 952'.
- 10-23-79 Drilled out cmt. plug & bridges to 3495'. No water flows.
- 10-24-79 Cleanout to 3900'. Load hole w/mud pump 100 sx plug @ 3867'.
- 10-25-79 GIH & H.T. Bridge @ 2950'. Run bit & cleanout to 3612' tag Plug @ 3617'. Run tbg. to 3410'. Spot 80 sx. plug.
- 10-26-79 Ran tbg. Tag plug @ 3250'. Pull tubing to 2444'. Spot 200 sx. plug. Wait 4 hrs. Ran tbg. & tag plug @ 1435'. Pull tbg. to 651'. Spot 100 sx. plug. Wait 4 hrs. Tag plug @ 396'. POH. Spot surface plug from 67' to surface (20 sx.) Weld plate on 8 5/8" csg. Install dry marker. Clean-up location.  
*OKRW 11/7/79 - Well set to 320*

**RECEIVED**

**NOV 1 1979**

**U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO**

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE District Engineer DATE 10-29-79

(This space for Federal or State office use)  
APPROVED BY [Signature] TITLE ACTING DISTRICT ENGINEER DATE NOV 1 1979

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**PLUGGED WELL SCHEMATIC**

**Federal Keohane et al 'C' Well No.2**

API 30-015-10288

2310' FNL & 330' FWL, SEC. 28-T18S-R31E  
EDDY COUNTY, NEW MEXICO

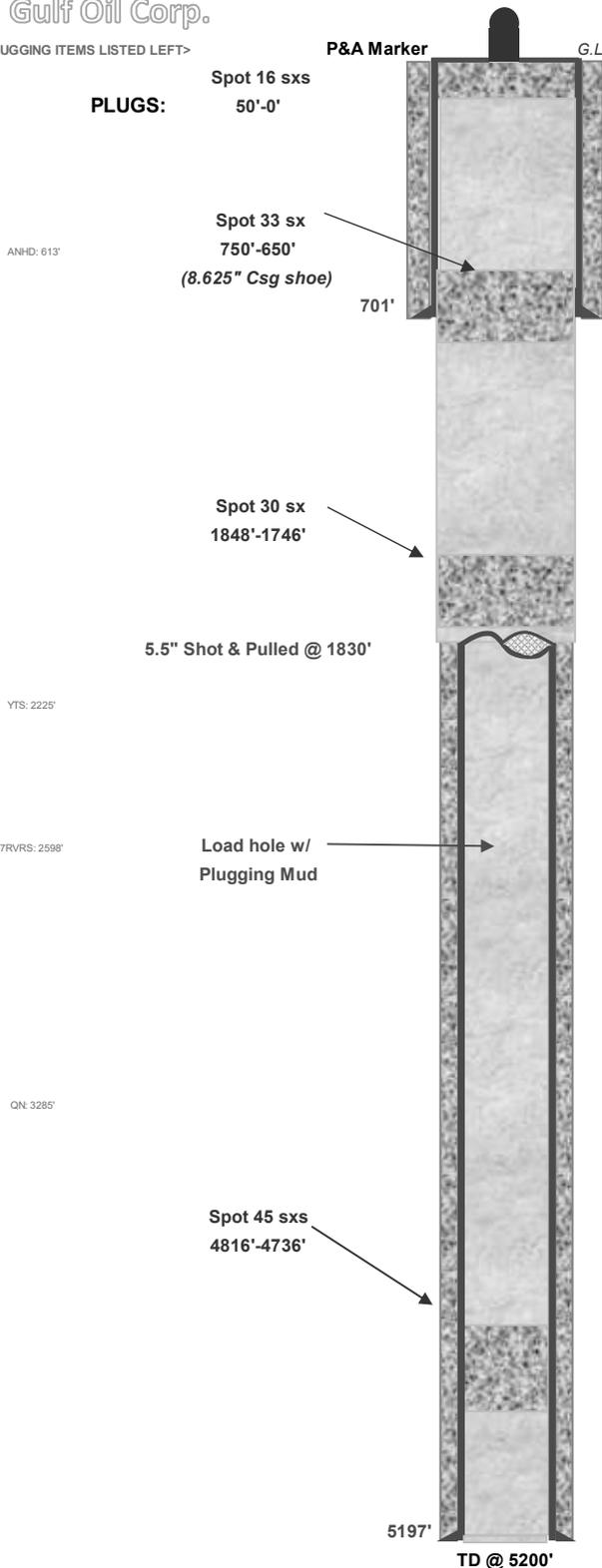
Spud Date: 12/02/1964

P&A Date: 2/27/1964

Well Plugged by:  
**Gulf Oil Corp.**

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>



**Surface Casing**

8.625", 24.0# csg. (11.0" Hole) @ 701'  
325 sx ('C') - Calculated to Surface  
Not reported

<P&A SUBSEQUENT SUNDRY>

Form 8-311a  
Feb. 1964  
**APPROVED**  
MAR 25 1964  
RONNIE E. SHOOK  
ACTING DISTRICT ENGINEER

Budget Bureau No. 42-R358.4  
Form Approved.  
Land Office  
Lesse No. **NM-085776-A**  
Unit

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

|   |   |
|---|---|
| NOTICE OF INTENTION TO DRILL.....                   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     | SUBSEQUENT REPORT OF ALTERING CASING.....       |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | SUBSEQUENT REPORT OF ABANDONMENT.....           |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    | SUPPLEMENTARY WELL HISTORY.....                 |
| NOTICE OF INTENTION TO ABANDON WELL.....            |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Federal Keohane et al 'C' Well No. 2 is located 2310 ft. from [N] line and 330 ft. from [E] line of sec. 28  
SE/4, NW/4, Sec 28 18-S 31-E N47W  
Stager (Field) Bedy (County or Subdivisions) New Mexico

The elevation of the derrick floor above sea level is 3623 ft.

**DETAILS OF WORK**

Displaced fluid in hole with mud. Spotted 18 sack cement plug from 4516' to 4726'. Shot 5-1/2" casing off at 1830' and pulled casing. Spotted 30 sack cement plug from 1848' to 1746'. Spotted 33 sack cement plug from 750' to 650'. Spotted 35 sack cement plug from 50' to surface. Installed dry hole marker. Will advise when location is ready for inspection.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Gulf Oil Corporation**  
Address **Box 670, Hobbs, New Mexico**  
By **Area Production Manager**  
Title

**Production (Int.) Casing**

5.5", 17.0# Csg. (8.75" Hole) @ 5197' w/ 500 sx  
TOC Calculated to 1805'

Drawn by: Ben Stone, 4/15/2022

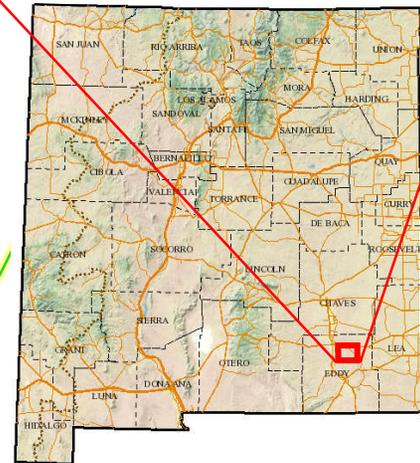
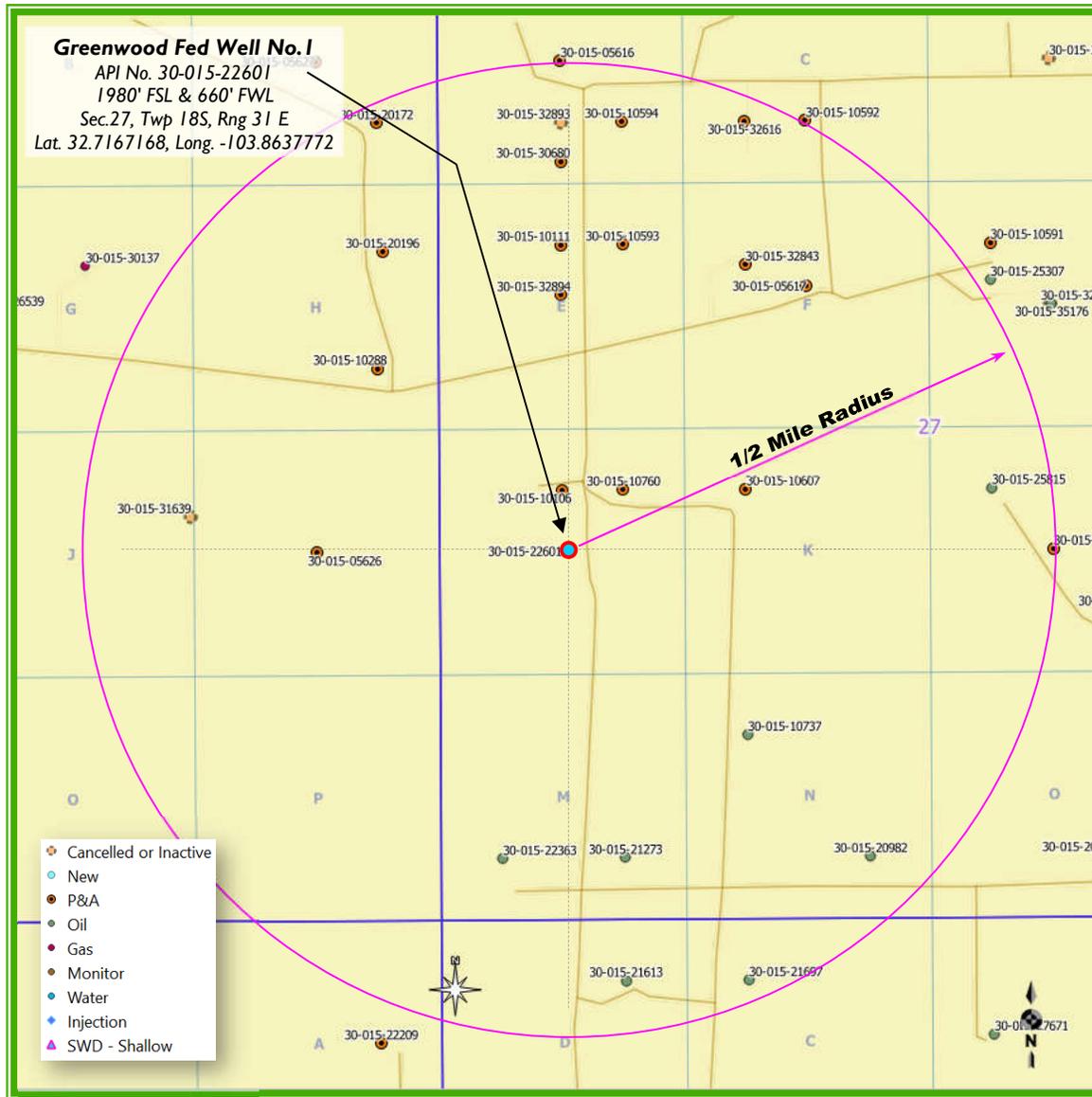




# Greenwood Fed Well No.1 SWD - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)

9.1 miles southeast of Loco Hills, NM



**RAY WESTALL OPERATING, INC.**



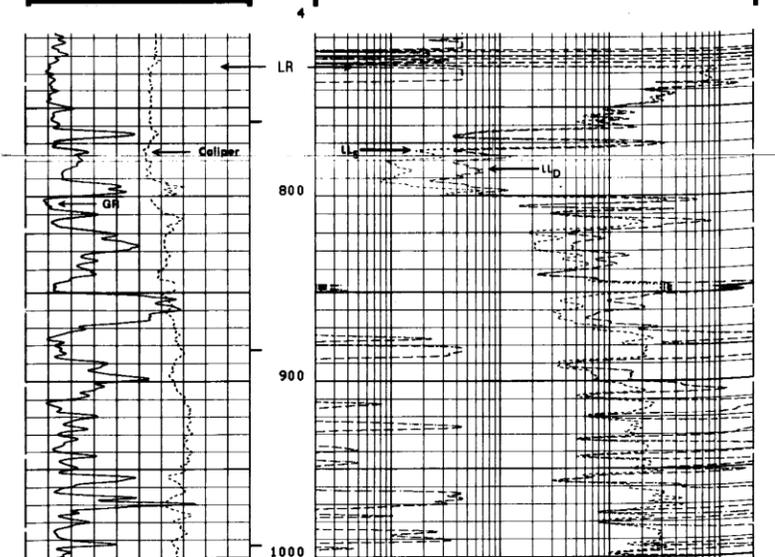
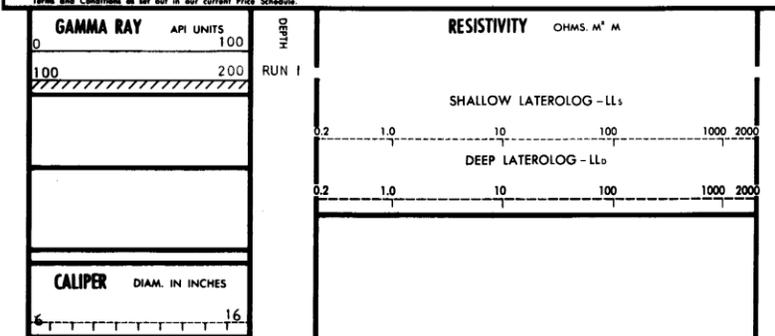
**C-108 ITEM X – LOGS  
and AVAILABLE TEST DATA**

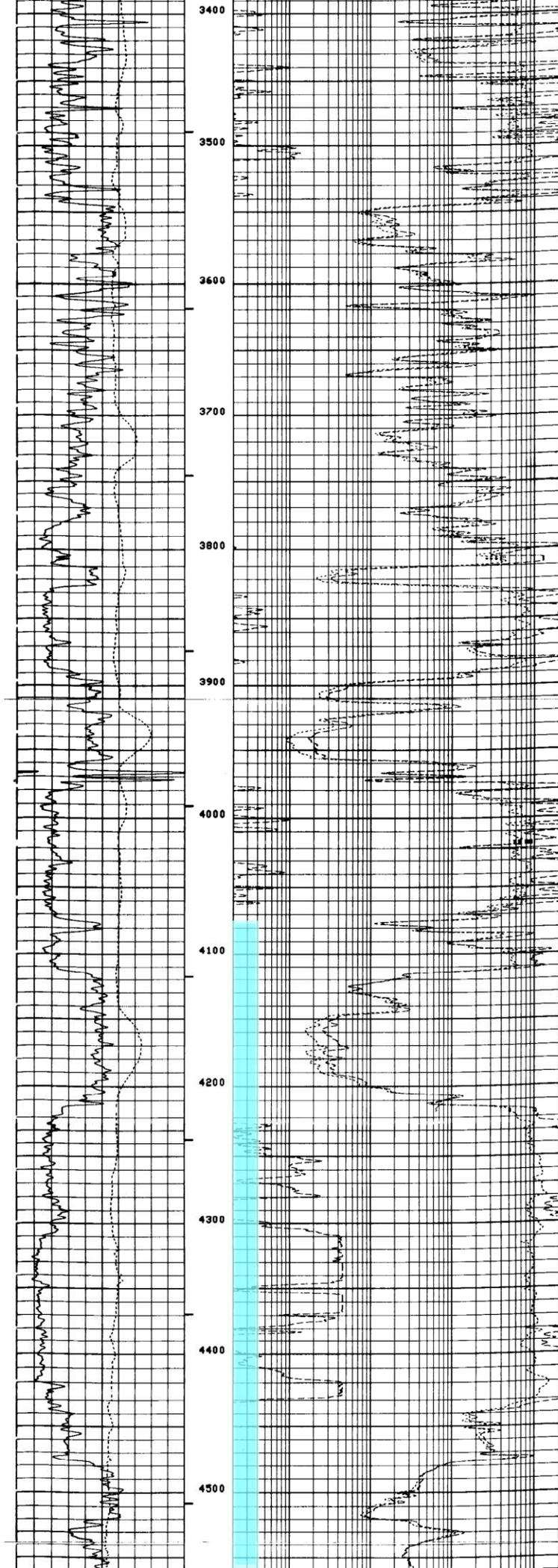
A Log Strip from the Subject Well Covering  
the Zone of Interest with Annotations is Attached.

**LOG STRIP FOLLOWS**

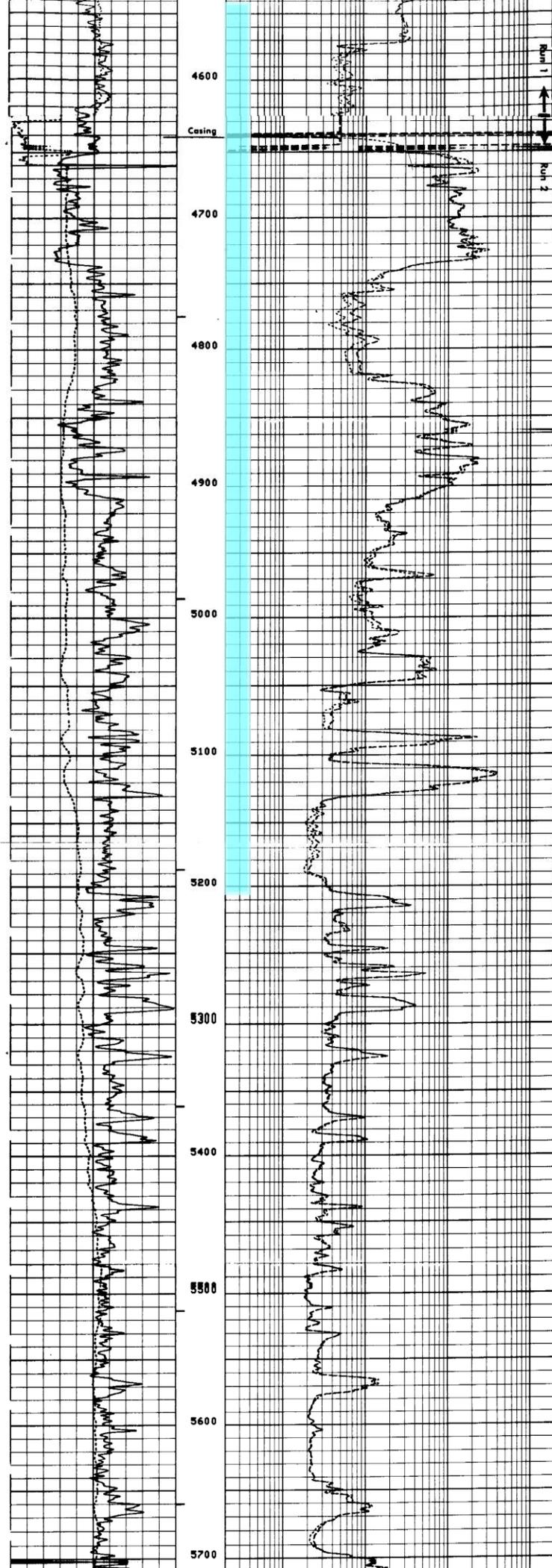
|   |  |  |  |
|---|--|--|--|
| COUNTY: EDDY<br>FIELD: SHUGART<br>LOCATION: GREENWOOD UNIT FED. #10<br>WELL: #10<br>COMPANY: AMOCO PROD. CO.  |  | COMPANY: AMOCO PRODUCTION COMPANY<br>APL #30-015-22601<br>GREENWOOD FEDERAL UNIT #10<br>SHUGART<br>COUNTY: EDDY STATE: NEW MEXICO  |  |
| LOCATION: 660' FWL & 1980' FSL<br>EST. NO. REC: 27<br>TYPE: 18-S<br>DATE: 31-E  |  | Other Services:<br>CNL-FDC<br>BHC<br>CYBERLOOK<br>RDR: 3629<br>DF: 3614  |  |
| Run No. ONE TWO<br>Service Order No. 59458<br>Fluid Level FULL<br>Salinity, PPM CL 195000 (4000(MIN REPORT))  |  | SCALE CHANGES<br>Type Log Depth Scale Up Hole Scale Down Hole  |  |
| EQUIPMENT DATA<br>Panel (DLP) 754 805<br>Panel (SRP) 729<br>Cartridge (DLC) 940<br>Cartridge (SAB) 826 118<br>Sonde (DLS) 987<br>Sonde (SRS) 944<br>Lower Electrode (DLE)<br>Memorizer Panel<br>Tape Recorder (TR)<br>Depth Encoder (DRE)<br>Pressure Wheel (CPW) |  | *CENTERLINE OF 2" BRADENHEAD<br>INLET<br>**RUN 1<br>TYPE - CME-2 & CALIPER<br>RUN 2 - REPEAT SECTION<br>TO T.D.<br>MAIN SURVEY DID NOT<br>GO TO BOTTOM AT<br>CUSTOMER'S REQUEST. |  |
| CALIBRATION DATA<br>GR BKG. CPS 25 30<br>Source CPS 190 210   |  | LOGGING DATA<br>GR Sensitivity 165 165<br>Scale -100 Div. 100 100<br>T. C. - sec<br>Speed FPM 40 50  |  |
| BOTTOM HOLE TEMPERATURE<br>Time Entering Hole 1130<br>Time Bottom Reached 1200<br>Time Last Off Bottom 1230<br>Time Out of Hole 1500<br>Distance TD to Therm. 99<br>Thermometer #1 96 °F<br>Thermometer #2 °F<br>Thermometer #3 °F                                |  | FROM DRILL STEM TEST<br>DST #1 - Rw @ 100 °F<br>DST #2 - Rw @ 100 °F   |  |

All interpretations are opinions based on inference from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.





Top of  
Injection  
Interval  
4075 feet



Bottom of  
Injection  
Interval  
5206 feet

## **C-108 ITEM VII – PROPOSED OPERATION**

The Greenwood Federal No.1 SWD will be operated as a commercial disposal service to area operators to facilitate in disposal of produced water from typical producing formations in the area. Source water will typically be the same as the disposal interval, San Andres and Delaware and samples are included herein.

RWO, Inc. does not believe the proposed SWD will have any adverse impact on its producing operations or the operations of others in the area. There is no San Andres production within one mile. There are 2 other SWDs into the Delaware in the vicinity: the Oxy T-Bone Federal #1 and the Porterhouse State Com #1. The area is well north of the Delaware Mountain Group Risk Assessment area.

The system will be closed utilizing a tank battery facility located on the well site as well as delivery via pipeline.

Injection pressure will be 815 psi with rates limited only by that pressure. A maximum of 5000 bwpd is being requested but average rates are not expected to be greater than approximately 2500 bwpd. In the future, Ray Westall Operating, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request to increase the injection pressure.

Routine maintenance will be ongoing, and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will be available for inspections at any time deemed necessary by OCD.

## **C-108 ITEM VII – PRODUCED WATER ANALYSES**

*Source and Disposal Waters are from the same zone.*

### **Item VII.4 – Water Analysis of Source Zone Water**

San Andres, Delaware

### **Item VII.5 – Water Analysis of Disposal Zone Water**

San Andres, Delaware

**Water Analyses follow this page.**

**C-108 Item VII.5 - Produced Water Data  
Ray Westall Operating, Inc. - Greenwood Fed SWD #1**

**SOURCE & DISPOSAL ZONE**

**SAN ANDRES**

|                                |                    |                         |                     |
|--------------------------------|--------------------|-------------------------|---------------------|
| <b>API No</b>                  | 3001502416         | <b>Lab ID</b>           |                     |
| <b>Well Name</b>               | FED UNION          | <b>Sample ID</b>        | 1985                |
|                                | 001                | <b>Sample No</b>        |                     |
| <b>Location</b>                | ULSTR 22 20 S 28 E | <b>Lat / Long</b>       | 32.55266 -104.16121 |
|                                | 330 S 1650 E       | <b>County</b>           | Eddy                |
| <b>Operator (when sampled)</b> |                    |                         |                     |
|                                | Field              |                         | Unit O              |
| <b>Sample Date</b>             | 11/29/1954         | <b>Analysis Date</b>    |                     |
|                                | Sample Source DST  |                         | Depth (if known)    |
|                                | Water Typ          |                         |                     |
| ph                             | 7.3                | alkalinity_as_caco3_mgL |                     |
| ph_temp_F                      |                    | hardness_as_caco3_mgL   |                     |
| specificgravity                |                    | hardness_mgL            |                     |
| specificgravity_temp_F         |                    | resistivity_ohm_cm      |                     |
| tds_mgL                        | 210774             | resistivity_ohm_cm_temp |                     |
| tds_mgL_180C                   |                    | conductivity            |                     |
| chloride_mgL                   | 123500             | conductivity_temp_F     |                     |
| sodium_mgL                     |                    | carbonate_mgL           |                     |
| calcium_mgL                    |                    | bicarbonate_mgL         | 847                 |
| iron_mgL                       |                    | sulfate_mgL             | 4512                |
| barium_mgL                     |                    | hydroxide_mgL           |                     |
| magnesium_mgL                  |                    | h2s_mgL                 |                     |
| potassium_mgL                  |                    | co2_mgL                 |                     |
| strontium_mgL                  |                    | o2_mgL                  |                     |
| manganese_mgL                  |                    | anionremarks            |                     |

Remarks

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



**C-108 Item VII.5 - Produced Water Data  
Ray Westall Operating, Inc. - Greenwood Fed SWD #1**

**SOURCE & DISPOSAL ZONE**

**DELAWARE**

|                                |                                   |                         |                     |
|--------------------------------|-----------------------------------|-------------------------|---------------------|
| <b>API No</b>                  | 3001505616                        | <b>Lab ID</b>           |                     |
| <b>Well Name</b>               | GREENWOOD PRE-GRAYBURG 004        | <b>Sample ID</b>        | 7079                |
|                                |                                   | <b>Sample No</b>        |                     |
| <b>Location</b>                | ULSTR 27 18 S 31 E<br>660 N 660 W | <b>Lat / Long</b>       | 32.72361 -103.86325 |
|                                |                                   | <b>County</b>           | Eddy                |
| <b>Operator (when sampled)</b> |                                   |                         |                     |
|                                | Field SHUGART                     | <b>Unit</b>             | D                   |
| <b>Sample Date</b>             |                                   | <b>Analysis Date</b>    |                     |
|                                | Sample Source UNKNOWN             | <b>Depth (if known)</b> |                     |
|                                | Water Typ                         |                         |                     |
| ph                             |                                   | alkalinity_as_caco3_mgL |                     |
| ph_temp_F                      |                                   | hardness_as_caco3_mgL   |                     |
| specificgravity                |                                   | hardness_mgL            |                     |
| specificgravity_temp_F         |                                   | resistivity_ohm_cm      |                     |
| tds_mgL                        | 277297                            | resistivity_ohm_cm_temp |                     |
| tds_mgL_180C                   |                                   | conductivity            |                     |
| chloride_mgL                   | 168500                            | conductivity_temp_F     |                     |
| sodium_mgL                     |                                   | carbonate_mgL           |                     |
| calcium_mgL                    |                                   | bicarbonate_mgL         | 159                 |
| iron_mgL                       |                                   | sulfate_mgL             | 339                 |
| barium_mgL                     |                                   | hydroxide_mgL           |                     |
| magnesium_mgL                  |                                   | h2s_mgL                 |                     |
| potassium_mgL                  |                                   | co2_mgL                 |                     |
| strontium_mgL                  |                                   | o2_mgL                  |                     |
| manganese_mgL                  |                                   | anionremarks            |                     |
| <b>Remarks</b>                 |                                   |                         |                     |

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



## C-108 - Item VIII

### Geological Data

The San Andres offers the best choice for a long-life disposal in this well bore. The San Andres formation consists of limestone and arkosic sands, is up to several hundred feet thick and grades upward and away from the reef into crystalline dolomite. The texture of the dolomites becomes finer on the Northwestern shelf as the proportion of chemically precipitated dolomite increases, and anhydrite becomes present the section, first as small blobs, then as beds (*Jones, 1953*).

The Delaware Mountain Group (DMG) of the Delaware Basin of Texas and New Mexico comprises up to 4,500 ft (1,375 m) of Guadalupian-age arkosic to subarkosic sandstone, siltstone, and detrital limestone that was deposited in deep water, mainly during lowstand and early transgressive sea-level stages. Primary depositional processes include density-current flow and suspension settling. Regionally extensive organic-rich siltstones record largely highstand deposition and provided hydrocarbons to sandstone reservoirs. Authigenic illite and chlorite are present, but there is little detrital clay. The DMG is restricted to the slope and basin, was sourced from shelf-sediment source areas through poorly exposed incised valleys, and generally is not depositionally correlative with siliciclastics on the shelf. Interbedded carbonate units thicken shelfward and are typically correlative to "reef"-margin-complex carbonate sources along the shelf margin (*Nance, 2006*).

The sands of the Delaware Mountain Group below the San Andres formation indicate porosity on the density log, but experience has shown that these sands have a low permeability and will not accept a lot of water without increased pressure still, the desired upper interval represents a reasonable chance of additional capacity.

Overall, the requested interval of 4075 feet to 5206 feet good probability of achieving the average desired capacity of 2500 bwpd.

# C-108 ITEM XI – WATER WELLS IN AOR

Office of State Engineer data indicated no water wells within one mile of the proposed SWD.



---

*New Mexico Office of the State Engineer*  
**Active & Inactive Points of Diversion**  
(with Ownership Information)

---

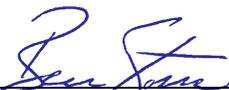
No PODs found.

**PLSS Search:**

**Section(s):** 21, 22, 27, 28, **Township:** 18S **Range:** 31E  
33, 34

## **C-108 ITEM XII – GEOLOGIC AFFIRMATION**

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



---

Ben Stone, Partner  
SOS Consulting, LLC

Project: Ray Westall Operating, Inc.  
Greenwood Federal SWD No.1  
Reviewed 4/13/2022

# **C-108 ITEM XIII – PROOF OF NOTIFICATION**

## IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

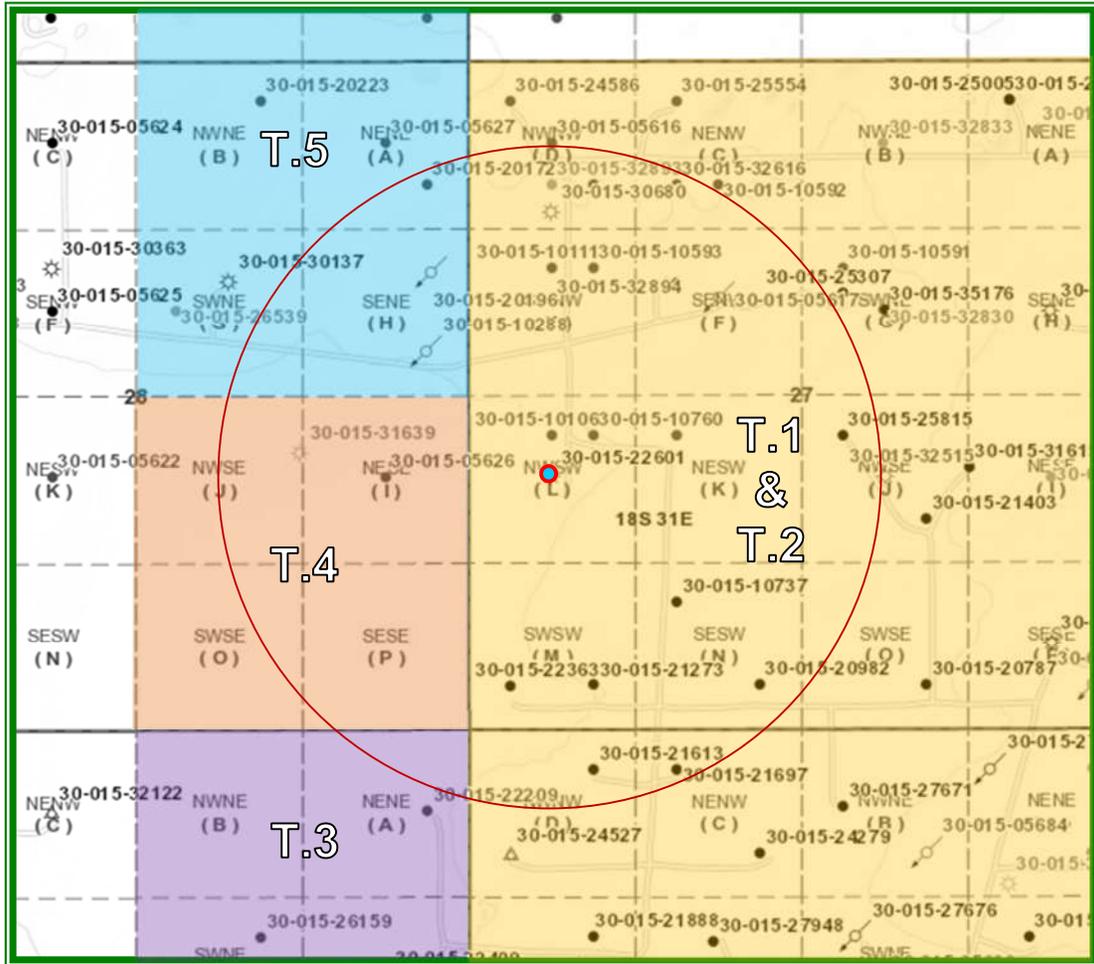
Proof of Certified Mailing

Proof of Return Receipts

Affidavit Published Legal Notice

# Greenwood Fed Well No.1 - Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



**RAY WESTALL OPERATING, INC.**

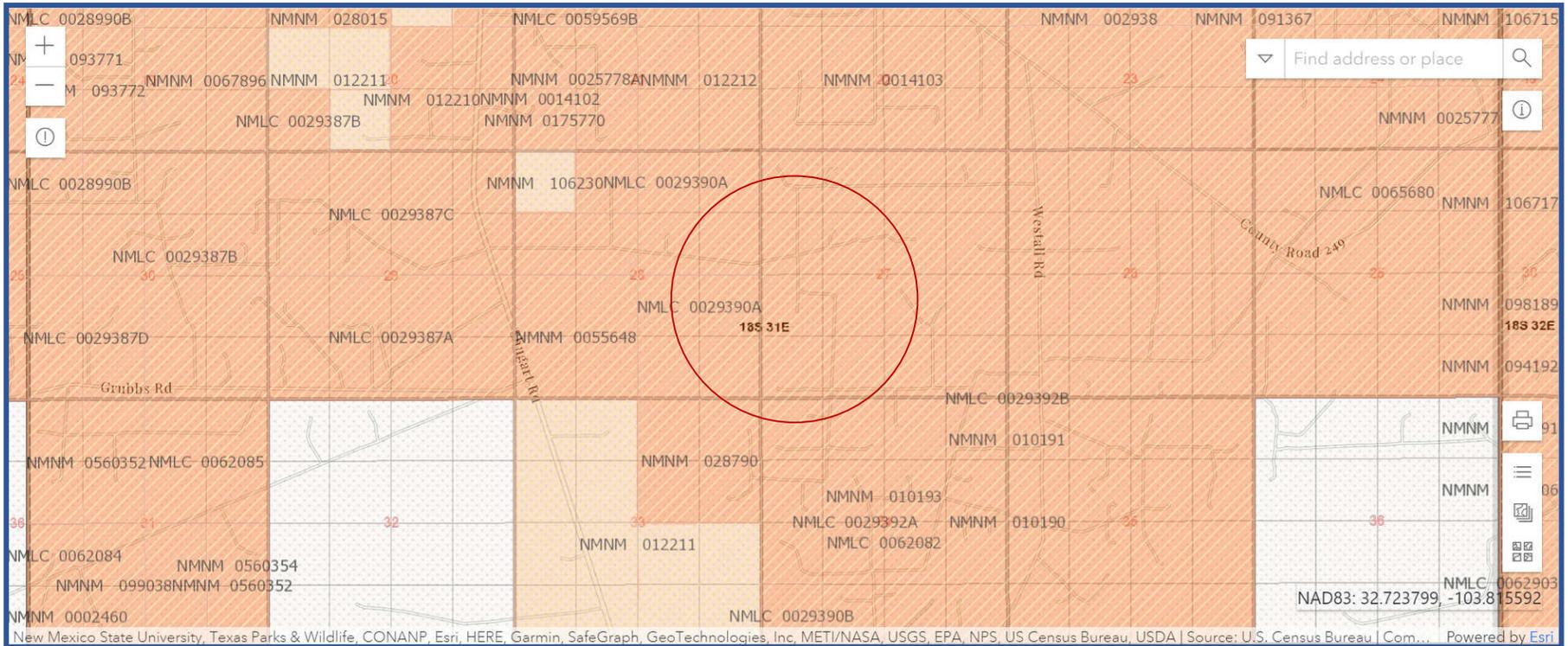
## LEGEND

- T.1 – NMLC-0029392B – HBP - Ray Westall Operating, Chevron USA, Inc., George A. Chase, Jr.
- T.2 – NMNM-010191 – HBP – Ray Westall Operating, Judah Oil, KP Kauffman Company, others
- T.3 – NMNM-028790 – HBP – Legacy Reserves Operating, LP
- T.4 – NMLC-0029390A – HBP – Devon Energy Prod. Company LG&S Oil Company, LLC
- T.5 – NMNM-012212 – HBP – Devon Energy Prod. Company

# Greenwood Fed Well No.1 - BLM MLRS Research Map

(Mineral and Land Records System)

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



All BLM reporting mechanisms show all leases as, "Held by Production". SOS Consulting used all operators of wells within the boundaries of BLM lease lines to determine affected parties whether the active, operated well fell within the one-half mile Area of Review, or not.

# C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

**ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL  
CONTAINING A LINK TO DOWNLOAD A PDF COPY OF THE FULL C-108 APPLICATION.**

"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B.2.

## SURFACE OWNER

- 1 U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220  
Certified: 7018 1130 0000 8738 2124

## OFFSET OPERATORS (All Notified via USPS Certified Mail)

### **Federal Leases NMLC-0029392B; NMNM-010191 (T.1 and T.2 on plat)**

#### ***Operators***

RAY WESTALL OPERATING, INC. (*Applicant*)  
P.O. Box 4  
Loco Hills, NM 88255

- 2 CHEVRON, USA  
6301 Deauville Blvd.  
Midland, TX 79706  
Certified: 7018 1130 0000 8738 2131
- 3 GEORGE A. CHASE, JR dba G AND C SERVICE COMPANY  
P.O. Box 1618  
Artesia, NM 88211  
Certified: 7018 1130 0000 8738 2148
- 4 JUDAH OIL COMPANY  
P.O. Box 568  
Artesia, NM 88211  
Certified: 7018 1130 0000 8738 2155
- 5 KP KAUFFMAN COMPANY, INC.  
1675 Broadway, 28<sup>th</sup> Fl.  
Denver, CO 80202  
Certified: 7018 1130 0000 8738 2162

### **Federal Leases NMNM-028790 (T.3 on plat)**

#### ***Operator***

- 6 LEGACY RESERVES OPERATING COMPANY  
303 W. Wall St., Ste.1800  
Midland, TX 79701  
Certified: 7018 1130 0000 8738 2339

**C-108 ITEM XIII – PROOF OF NOTIFICATION  
AFFECTED PARTIES LIST (CONT.)**

**Federal Lease NMNM-029390A (T.4 on plat)**

***Operators***

7 DEVON ENERGY PRODUCTION COMPANY, LP  
333 W. Sheridan Ave.  
Oklahoma City, OK 73102-5010  
Certified: 7018 1130 0000 8738 2186

8 LG&S OIL COMPANY  
P.O. Box 1081  
Lovington, NM 88260  
Certified: 7018 1130 0000 8738 2193

**Federal Lease NMNM-012212 (T.5 on plat)**

***Operators***

DEVON ENERGY PRODUCTION COMPANY, LP  
333 W. Sheridan Ave.  
Oklahoma City, OK 73102-5010

**OFFSET MINERALS OWNERS (Notified via USPS Certified Mail)**

U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

**REGULATORY**

NEW MEXICO OIL CONSERVATION DIVISION  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION  
811 South First St.  
Artesia, NM 88210

**FILED VIA OCD ONLINE E-PERMITTING**

U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220



April 8, 2022

**NOTIFICATION TO AFFECTED PARTIES**  
**via U.S. Certified Mail**

To Whom It May Concern:

Ray Westall Operating, Inc., Loco Hills, New Mexico, has made application to the New Mexico Oil Conservation Division to reconfigure for salt water disposal the Greenwood Federal SWD Well No.1. The well is currently permitted for SWD in the Wolfcamp formation. RWO seeks to recomple to the San Andres and Delaware formations. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. The published notice states that the interval will be from 4075 feet to 5206 feet in the subject formations.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about April 7, 2022.

**LEGAL NOTICE**

Ray Westall Operating, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its Greenwood Federal SWD Well No.1. The well, API No.30-015-22601 is currently permitted for disposal into the Wolfcamp. This application is to recomple to the San Andres and Delaware formations. The well is located 1980 FSL & 660 FWL in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the San Andres and Delaware formations through perforations between a maximum top of 4075 feet to maximum depth of 5206 feet (specific perforated intervals to be determined based on logs) at a maximum injection pressure of 815 psi and a maximum rate of 5000 bwpd and an average rate of 2500 bwpd.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email [info@sosconsulting.us](mailto:info@sosconsulting.us).

***You have been identified as a party who may be interested as an offset lessee or operator.***

You are entitled to a full copy of the application. You can email SOS Consulting and request a PDF copy or, the same PDF file may be accessed using this link: <https://www.dropbox.com/sh/jt0e55mntlaz9t5/AADMlmdEQ98Ipk04azScdo-7a?dl=0>

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC  
Agent for Ray Westall Operating, Inc.

Cc: Application File

# C-108 – Item XIV

## Proof of Notice - Certified Mail Receipts

7018 1130 0000 8738 2124

| U.S. Postal Service™<br>CERTIFIED MAIL® RECEIPT<br>Domestic Mail Only                            |   |
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| For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®. |   |
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| Certified Mail Fee<br>\$   | 3.75  |
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| <input type="checkbox"/> Return Receipt (hardcopy)   | \$  |
| <input type="checkbox"/> Return Receipt (electronic)   | \$ 3.05   |
| <input type="checkbox"/> Certified Mail Restricted Delivery                                      | \$  |
| <input type="checkbox"/> Adult Signature Required  | \$  |
| <input type="checkbox"/> Adult Signature Restricted Delivery                                     | \$  |
| Postage<br>\$  | .58   |
| Total Postage and Fees<br>\$   | 7.38  |
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| Street and A/C   | Bureau of Land Management                                     |
| City, State, Z   | Oil & Gas Division<br>620 E. Greene St.<br>Carlsbad, NM 88220 |
| PS Form 38   | ctions  |

7018 1130 0000 8738 2124

| U.S. Postal Service™<br>CERTIFIED MAIL® RECEIPT<br>Domestic Mail Only                            |   |
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| <input type="checkbox"/> Return Receipt (electronic)   | \$ 3.05                                   |
| <input type="checkbox"/> Certified Mail Restricted Delivery                                      | \$  |
| <input type="checkbox"/> Adult Signature Required  | \$  |
| <input type="checkbox"/> Adult Signature Restricted Delivery                                     | \$  |
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| Total Postage and Fees<br>\$   | 7.38                                      |
| Sent To  |   |
| Street and A/C   | CHEVRON USA, INC.                         |
| City, State  | 6301 Deauville Blvd.<br>Midland, TX 79706 |
| PS Form  | ctions                                    |

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| <input type="checkbox"/> Certified Mail Restricted Delivery                                      | \$  |
| <input type="checkbox"/> Adult Signature Required  | \$  |
| <input type="checkbox"/> Adult Signature Restricted Delivery                                     | \$  |
| Postage<br>\$  | .58   |
| Total Postage and Fees<br>\$   | 7.38  |
| Sent To  |   |
| Street and A/C   | GEORGE A. CHASE, JR dba G AND C                       |
| City, State  | SERVICE COMPANY<br>P.O. Box 1618<br>Artesia, NM 88211 |
| PS Form  | ctions  |

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| <input type="checkbox"/> Adult Signature Restricted Delivery                                     | \$                                |
| Postage<br>\$  | .58                               |
| Total Postage and Fees<br>\$   | 7.38                              |
| Sent To  |                                   |
| Street and A/C   | JUDAH OIL COMPANY                 |
| City, State  | P.O. Box 568<br>Artesia, NM 88211 |
| PS Form  | ctions                            |

# C-108 - Item XIV

## Proof of Notice - Certified Mail Receipts (cont.)

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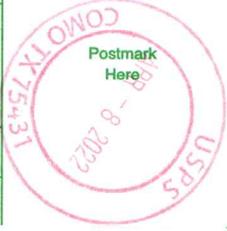
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City, State, ZIP 1675 Broadway, 28th Fl.  
Denver, CO 80202

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City, State, ZIP 15 Smith Rd., Ste.3000  
Midland, TX 79705

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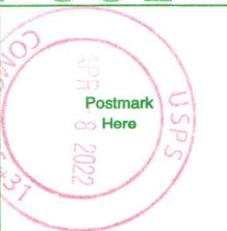
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| <input type="checkbox"/> Certified Mail Restricted Delivery  | \$      |
| <input type="checkbox"/> Adult Signature Required            | \$      |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$      |
| Postage  | .58     |
| Total Postage and Fees                                       | 7.38    |

Sent To  
Street and Apt. DEVON ENERGY PRODUCTION  
Company, LP  
City, State, ZIP 333 W. Sheridan Ave.  
Oklahoma City, OK 73102-5010

PS Form 380



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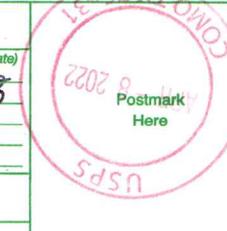
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| <input type="checkbox"/> Adult Signature Required            | \$      |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$      |
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Street and Apt. LG&S OIL COMPANY  
City, State, ZIP P.O. Box 1081  
Lovington, NM 88260

PS Form 380



**Track Another Package +**

**BUREAU OF LAND MANAGEMENT**

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Your item was delivered to an individual at the address at 4:14 pm on April 11, 2022 in CARLSBAD, NM 88220.

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April 11, 2022 at 4:14 pm  
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**GEORGE A. CHASE dba G AND C SERVICE COMPANY**

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Your item was picked up at the post office at 12:07 pm on April 11, 2022 in ARTESIA, NM 88210.

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ARTESIA, NM 88210

**Get Updates** ✓

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**KP KAUFFMAN COMPANY**

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Remove ✕

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April 18, 2022 at 3:53 pm  
DENVER, CO 80203

**Get Updates** ✓

**See More** ✓

Tracking Number: 7018113000087382193

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USPS Tracking Plus® Available ✓

**Delivered, Individual Picked Up at Post Office**

April 18, 2022 at 2:10 pm  
LOVINGTON, NM 88260

**LEGACY RESERVES OPERATING COMPANY**

Tracking Number: 7018113000087382339

Status

**Delivered, Front Desk/Reception/Mail Room**

Your item was delivered to the front desk, reception area, or mail room at 9:40 am on April 29, 2022 in MIDLAND, TX 79705.

April 29, 2022 at 9:40 am  
MIDLAND, TX 79705

USPS Tracking Plus® Available ✓

|   |  |  |  |
|---|--|--|--|
| <p><b>SENDER: COMPLETE THIS SECTION</b></p> <p>1. Article Addressed to:</p> <p><b>CHEVRON USA, INC.</b><br/>6301 Deauville Blvd.<br/>Midland, TX 79706<br/>Greenwood</p>                              |  | <p><b>COMPLETE THIS SECTION ON DELIVERY</b></p> <p>A. Signature<br/><i>XC Melina</i></p> <p>B. Received by (Printed Name)<br/><i>Christa Meekins</i></p> <p>C. Date of Delivery<br/><i>4/11/22</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>If YES, enter delivery address below:</p>  |  |
| <p><b>SENDER: COMPLETE THIS SECTION</b></p> <p>2. Article Number<br/>(Transfer from: PS Form 3811, February 2004)</p> <p><b>7018 1130 0000 8738 2131</b></p> <p>Domestic Return Receipt</p>           |  | <p><b>COMPLETE THIS SECTION ON DELIVERY</b></p> <p>3. Service Type<br/><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail<br/><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise<br/><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>       |  |
| <p><b>SENDER: COMPLETE THIS SECTION</b></p> <p>1. Article Addressed to:</p> <p><b>DEVON ENERGY PRODUCTION COMPANY, LP</b><br/>333 W. Sheridan Ave.<br/>Oklahoma City, OK 73102-5010<br/>Greenwood</p> |  | <p><b>COMPLETE THIS SECTION ON DELIVERY</b></p> <p>A. Signature<br/><i>A. S. [Signature]</i></p> <p>B. Received by (Printed Name) <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>If YES, enter delivery address below:</p> |  |
| <p>2. Article Number<br/>(Transfer from: PS Form 3811, February 2004)</p> <p><b>7018 1130 0000 8738 2186</b></p> <p>Domestic Return Receipt</p>   |  | <p><b>COMPLETE THIS SECTION ON DELIVERY</b></p> <p>3. Service Type<br/><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail<br/><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise<br/><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>       |  |

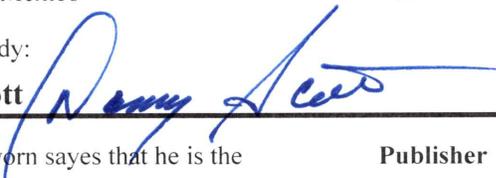
# Affidavit of Publication

No. 26097

State of New Mexico Publisher

County of Eddy:

**Danny Scott**



being duly sworn says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

## Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication April 7, 2022

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

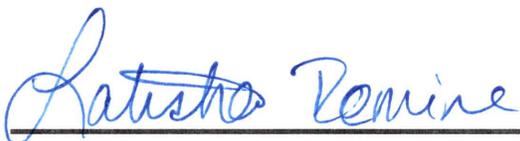
Sixth Publication \_\_\_\_\_

Seventh Publication \_\_\_\_\_

Subscribed and sworn before me this

7th day of March 2022

STATE OF NEW MEXICO  
NOTARY PUBLIC  
Latisha Romine  
Commission Number 1076338  
My Commission Expires May 12, 2023



Latisha Romine

Notary Public, Eddy County, New Mexico

# Copy of Publication:

## Legal Notice

Ray Westall Operating, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its Greenwood Federal SWD Well No.1. The well, API No.30-015-22601 is currently permitted for disposal into the Wolfcamp. This application is to recomplete to the San Andres and Delaware formations. The well is located 1980 FSL & 660 FWL in Section 27, Township 18 South, Range 31 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the San Andres and Delaware formations through perforations between a maximum top of 4075 feet to maximum depth of 5206 feet (specific perforated intervals to be determined based on logs) at a maximum injection pressure of 815 psi and a maximum rate of 5000 bwpd and an average rate of 2500 bwpd.

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Published in the Artesia Daily Press, Artesia, N.M., April 7, 2022 Legal No. 26097.



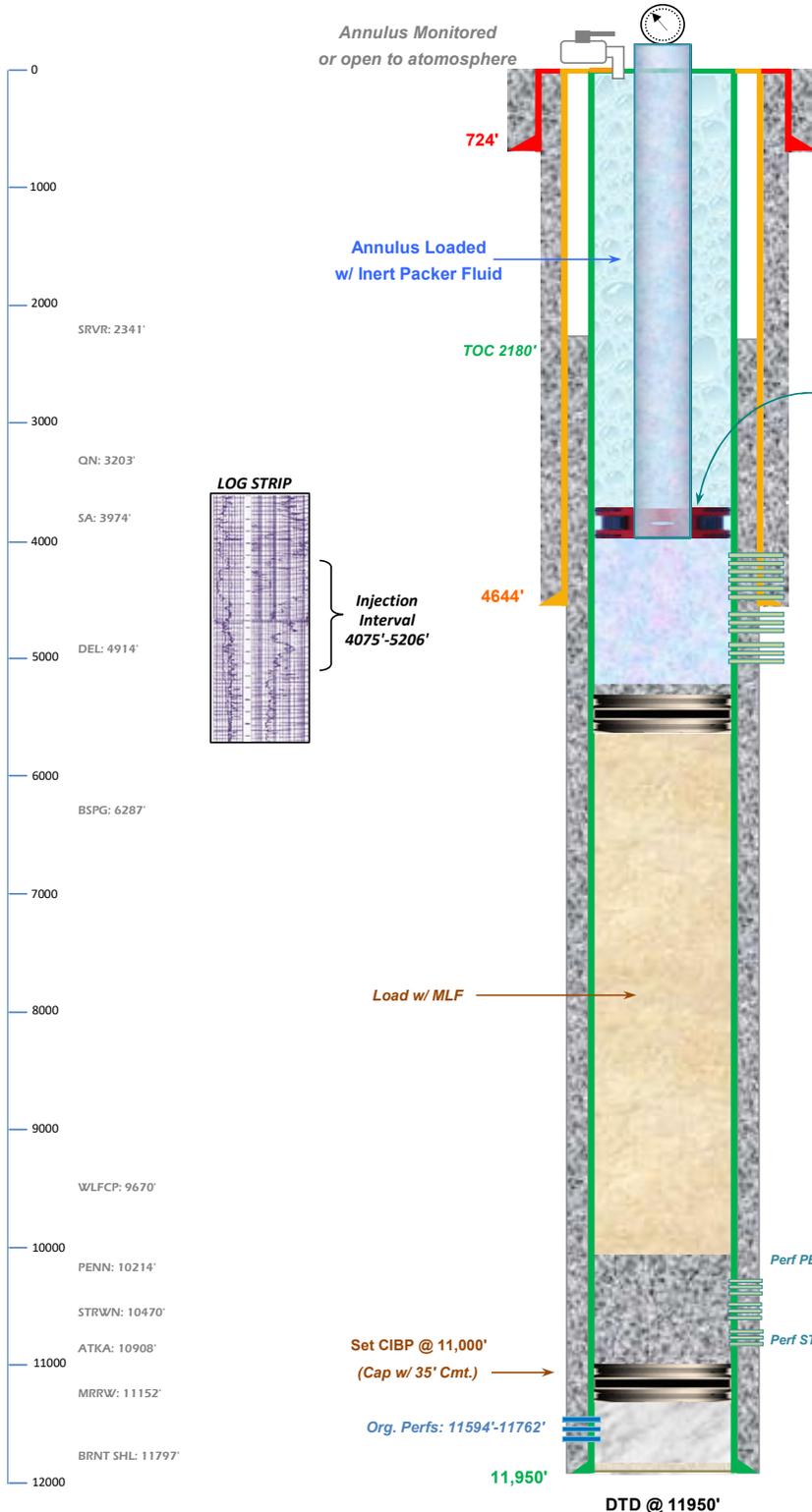
**WELL SCHEMATIC - PROPOSED**  
**Greenwood Federal SWD Well No.1**

**SWD; San Andres-Delaware (PROPOSED)**

**API 30-015-22601**

1980' FSL & 660' FWL, SEC. 27-T18S-R31E  
 EDDY COUNTY, NEW MEXICO

Spud Date: 12/06/1978  
 Config SWD Dt (Est): ~6/15/2



Injection Pressure Regulated  
 and Volumes Reported  
 815 psi Max. Surface (0.2 psi/ft)

**Surface Casing**  
 13.375", 54.5# Csg. (17.5" Hole) @ 724'  
 800 sx - 65 sx Circulated to Surface

**3.5" IC Tubing (or smaller)**  
 PKR ~3975'+ Note: PRK Set 100' Above Final Uppermost Perf Interval.

**Intermediate Casing**  
 9.625", 36.0# K-55 Csg. (12.25" Hole) @ 4644'  
 1800 sx - 75 sx Circulated to Surface

**RAY WESTALL OPERATING, INC.**

Recomplete SWD: POOH tublars.  
 SQZ Penn/ Strawn Perfs and Spot 75 sx plug to  
 ~10150' and tag. Load w/ MLF to ~5275'.  
 Set CIBP @ ~5275 w/ 35' Cmt cap.  
 Perf Intervals as Determined from Logs Between  
 Max Top 4075' and Max Btm 5206'.  
 Acidize w/ 15% HCl; Swab Clean.  
 Run PC Tubing and PKR - Conduct Witnessed MIT.  
 Commence Disposal Operations.

Load w/ MLF

Set CIBP @ 11,000'  
 (Cap w/ 35' Cmt.)

Org. Perfs: 11594'-11762'

Perf PENN (Max Top 10214')

Specific Perf Intervals To Be Determined  
 Between Max Top 10214' and Max Bottom 10892'

Perf STRWN (Max Btm 10892')

**Production Casing**

5.5", 17.0/20.0# N-80 Csg. (7.875" Hole) @ 11,950'  
 2300 sx - TOC @ 2180' by Temp

Drawn by: Ben Stone, Rvs'd 4/15/2022



## **C-108 ITEM VII – PRODUCED WATER ANALYSES**

*Source and Disposal Waters are from the same zone.*

### **Item VII.4 – Water Analysis of Source Zone Water**

San Andres, Delaware

### **Item VII.5 – Water Analysis of Disposal Zone Water**

San Andres, Delaware

**Water Analyses follow this page.**

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |  |   |  |  |                                   |
|---|--|---|--|--|-----------------------------------|
| <sup>1</sup> API Number<br>30-015-22601 |  | <sup>2</sup> Pool Code<br>96125                           |  | <sup>3</sup> Pool Name<br>SWD; San Andres-Delaware |                                   |
| <sup>4</sup> Property Code<br>TBD       |  | <sup>5</sup> Property Name<br>Greenwood Federal           |  |  | <sup>6</sup> Well Number<br>1     |
| <sup>7</sup> OGRID No.<br>119305        |  | <sup>8</sup> Operator Name<br>Ray Westall Operating, Inc. |  |  | <sup>9</sup> Elevation<br>3614.3' |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 27      | 18S      | 31E   |         | 1980'         | FSL              | 660'          | FWL            | Eddy   |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| same          |         |          |       |         |               |                  |               |                |        |

|                                      |                               |                                  |  |
|--------------------------------------|-------------------------------|----------------------------------|--|
| <sup>12</sup> Dedicated Acres<br>n/a | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>SWD pending |
|--------------------------------------|-------------------------------|----------------------------------|--|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                               |   |  |  |
|-------------------------------|---|--|--|
| <sup>16</sup><br><br><br><br> | <sup>17</sup> OPERATOR CERTIFICATION<br><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i><br><br>Signature <span style="float: right;">4/10/2022</span><br>Date<br><b>Ben Stone</b><br>Printed Name<br><b>ben@sosconsulting.us</b><br>E-mail Address |  |  |
|                               | <sup>18</sup> SURVEYOR CERTIFICATION<br><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i><br><b>April 14, 1978</b><br>Date of Survey<br>Signature and Seal of Professional Surveyor:<br><br><b>John West</b><br><b>676</b><br>Certificate Number   |  |  |

## Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SA/ DEL Interval 4075'

15 Wells Penetrate Proposed Interval

| API   | Current Operator                               | Well Name                   | Well No. | Type      | Lease   | Status  | U L S T R    | TV Depth | Plugged On |
|---|--|-----------------------------|----------|-----------|---------|---------|--------------|----------|------------|
| <b><u>Subject Well</u></b>  |  |                             |          |           |         |         |              |          |            |
| 30-015-22601  | [119305] RAY WESTALL OPERATING, INC.           | GREENWOOD FEDERAL SWD       | #001     | SWD       | Federal | Active  | L-27-18S-31E | 12220'   |            |
| <b><u>Section 27 Wells</u></b>  |  |                             |          |           |         |         |              |          |            |
| 30-015-32616  | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #001     | Oil       | Federal | P&A-R** | C-27-18S-31E | 6395'    | 2/26/2019  |
| 30-015-10592  | [26478] SOUTHLAND ROYALTY CO                   | HINKLE F                    | #003     | Oil       | Federal | P&A-R** | C-27-18S-31E | 8950'    | 12/13/1992 |
| 30-015-05616  | [4323] CHEVRON U S A INC                       | GREENWOOD PRE-GRAYBURG UNIT | #004     | Oil       | Federal | P&A-R** | D-27-18S-31E | 5250'    | 4/21/2018  |
| 30-015-10594  | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #005     | Oil       | Federal | P&A-R   | D-27-18S-31E | 3948**   | 11/16/2016 |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-30680  | [4323] CHEVRON U S A INC                       | GREENWOOD FEDERAL COM       | #002     | Gas       | Federal | P&A-R** | D-27-18S-31E | 12000'   | 8/19/2014  |
| 30-015-24586  | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #010     | Oil       | Federal | P&A-R** | D-27-18S-31E | 4240'    | 10/27/2016 |
| 30-015-32894  | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #004     | Oil       | Federal | P&A-R** | E-27-18S-31E | 6367'    | 2/18/2019  |
| 30-015-10593  | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #004     | Oil       | Federal | P&A-R   | E-27-18S-31E | 3966**   | 1/15/2014  |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-10111  | [4323] CHEVRON U S A INC                       | HINKLE FEDERAL              | #001     | Oil       | Federal | P&A-R** | E-27-18S-31E | 5162'    | 1/5/2014   |
| 30-015-05617  | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #001     | Injection | Federal | P&A-R** | F-27-18S-31E | 5188'    | 1/26/2017  |
| 30-015-32843  | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #002     | Oil       | Federal | P&A-R** | F-27-18S-31E | 6350'    | 2/13/2019  |
| 30-015-32515  | [173413] E G L RESOURCES INC                   | GREENWOOD PRE-GRAYBURG UNIT | #016     | Gas       | Federal | P&A-R** | J-27-18S-31E | 9976'    | 7/6/2021   |
| 30-015-25815  | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #020     | Oil       | Federal | Active  | J-27-18S-31E | 4300'    |            |
| <i>Shugart; Yts-7RQ,Q,Grbd; 4.5" csg set 4500' w/ 700 sx - Circulated, Perf 3876'-3980'; 3566'-3748'; 2530'-2702'; acidize &amp; frac; well on pump; ~2 bopd, last prod. Rpt. Dec. 2021</i> |  |                             |          |           |         |         |              |          |            |
| 30-015-10607  | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #006     | Oil       | Federal | P&A-R   | K-27-18S-31E | 3978**   | 1/26/2017  |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-10760  | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #008     | Oil       | Federal | P&A-R   | L-27-18S-31E | 3953**   | 1/1/1900   |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-10106  | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #009     | Oil       | Federal | P&A-R** | L-27-18S-31E | 5120'    | 1/1/1900   |
| 30-015-21273  | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #003     | Oil       | Federal | Active  | M-27-18S-31E | 3600**   |            |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-22363  | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #010     | Oil       | Federal | Active  | M-27-18S-31E | 3650**   |            |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-20982  | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #002     | Oil       | Federal | Active  | N-27-18S-31E | 3643**   |            |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |
| 30-015-10737  | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #017     | Oil       | Federal | Active  | N-27-18S-31E | 3984**   |            |
| *DOES NOT PENETRATE   |  |                             |          |           |         |         |              |          |            |



## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

Section 28 Wells

|              |                                    |                 |      |           |         |         |              |       |                            |
|--------------|------------------------------------|-----------------|------|-----------|---------|---------|--------------|-------|----------------------------|
| 30-015-05627 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #001 | Oil       |         | P&A-R   | A-28-18S-31E | 3868' | 1/1/1900                   |
|              |                                    |                 |      |           |         |         |              |       | <i>*DOES NOT PENETRATE</i> |
| 30-015-20172 | [196069] MOMENTUM OPERATING CO INC | GULF            | #001 | Oil       | Federal | P&A-R   | A-28-18S-31E | 3927' | 1/28/2010                  |
|              |                                    |                 |      |           |         |         |              |       | <i>*DOES NOT PENETRATE</i> |
| 30-015-20196 | [196069] MOMENTUM OPERATING CO INC | GULF            | #002 | Injection | Federal | P&A-R   | H-28-18S-31E | 3935' | 11/30/2016                 |
|              |                                    |                 |      |           |         |         |              |       | <i>*DOES NOT PENETRATE</i> |
| 30-015-10288 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #002 | Injection | Federal | P&A-R** | H-28-18S-31E | 5268' | 12/2/1963                  |
| 30-015-05626 | [214263] PRE-ONGARD WELL OPERATOR  | PRE-ONGARD WELL | #001 | Oil       |         | P&A-R   | I-28-18S-31E | 3940' | 1/1/1900                   |
|              |                                    |                 |      |           |         |         |              |       | <i>*DOES NOT PENETRATE</i> |

Section 34 Wells

|              |  |                  |      |     |         |        |              |       |  |
|--------------|--|------------------|------|-----|---------|--------|--------------|-------|--|
| 30-015-21697 | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL | #006 | Oil | Federal | Active | C-34-18S-31E | 4493' |  |
|              |  |                  |      |     |         |        |              |       | <i>Shugart; Yts-7RQ,Q,Grbd; 4.5" csg set 4810' w/ 300 sx - Circulated, Perf 3600'-62'; 3782'-3800'; acidize &amp; frac; well on pump; ~1.5 bopd, last prod. Rpt. Dec. 2021</i> |
| 30-015-21613 | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL | #005 | Oil | Federal | Active | D-34-18S-31E | 3642' |  |
|              |  |                  |      |     |         |        |              |       | <i>*DOES NOT PENETRATE</i>   |

**SUMMARY: 15 wells (inc. subject) penetrate proposed disposal interval. 12 P&A'd. \*\*Diagrams included herein.**



## **C-108 ITEM VI**

### AOR Well Information

#### **Plugged Well Schematics**

There are 12 P&A'd Wells Within the AOR Which  
Penetrates the Proposed Injection Zone.

30-015-32616  
30-015-10592  
30-015-05616  
30-015-30680  
30-015-24586  
30-015-32894  
30-015-10111  
30-015-05617  
30-015-32843  
30-015-32515  
30-015-10106  
30-015-10288

*Well Diagrams and Sundries (as applicable) follow this page...*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

RECEIVED  
NMOCD Artesia  
APR 01 2019

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

DISTRICT II-ARTESIA O.D.D.

|  |   |
|--|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | 8. Well Name and No.<br>PRINCIPLE FEDERAL 1       |
| 2. Name of Operator<br>CHEVRON USA INCORPORATED<br>Contact: NICK GLANN<br>E-Mail: nglann@chevron.com                             | 9. API Well No.<br>30-015-32616-00-S1             |
| 3a. Address<br>6301 DEAUVILLE BLVD<br>MIDLAND, TX 79706  | 10. Field and Pool or Exploratory Area<br>SHUGART |
| 3b. Phone No. (include area code)<br>Ph: 661-599-5062  | 11. County or Parish, State<br>EDDY COUNTY, NM    |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 27 T18S R31E NENW 990FNL 1650FWL                   |   |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                       |
|---|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize                     |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Deepen                      |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Hydraulic Fracturing        |
|   | <input type="checkbox"/> Production (Start/Resume)   |
|   | <input type="checkbox"/> Reclamation                 |
|   | <input type="checkbox"/> Water Shut-Off              |
|   | <input type="checkbox"/> Well Integrity              |
|   | <input type="checkbox"/> Other                       |
|   | <input checked="" type="checkbox"/> Plug and Abandon |
|   | <input type="checkbox"/> Temporarily Abandon         |
|   | <input type="checkbox"/> Water Disposal              |
|   | <input type="checkbox"/> Plug Back                   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No, on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

2/20-21/19 MIRU, LD 222 joints 2-7/8" tubing with TAC. Run gauge ring to 6100'.  
2/22/19 Set CIBP @ 6070'. Tag CIBP. Pressure test casing to 1000# - good. Spot 14 bbls salt gel from 5817' to 5250'. Plug #1 25 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 6070' v 5817'.  
2/25/19 Pump 70 bbls 10 PPG BW mixed w/17 SG. Plug #2 80 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 5250' v 4441'. Plug #3 75 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 2600' v 1842'. Perforate @ 1700'. Establish injection rate 1 bpm @ 700#. Pumped 60 bbls 10 PPG BW - no returns. Plug #4 squeeze 25 sxs (1.33 yield, 14.8ppg) Class C cmt with 2% gas block f/ 1700' v 1600'.  
2/26/19 Tag TOC @ 1485'. BLM approved tag. Spot 18 bbls SG from 1485' to 714'. Perforate @ 714'. Establish injection rate 2 bpm at 200# down 5.5" - circulate out annulus. Plug #5 185 sxs (1.33 yield, 14.8ppg) Class C cmt f/ 714' v surface. Good cement returns. RDMO

RECLAMATION PROCEDURE ATTACHED

RECLAMATION DUE 8-26-19

GC 4/5/19  
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #457005 verified by the BLM Well Information System  
For CHEVRON USA INCORPORATED, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 03/06/2019 (19DLM0177SE)

Name (Printed/Typed) NICK GLANN

Title WELL ABANDONMENT ENGINEER

Signature (Electronic Submission)

Date 03/06/2019

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

ACCEPTED FOR RECORD  
MAR 8 2019  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

Approved By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\*



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

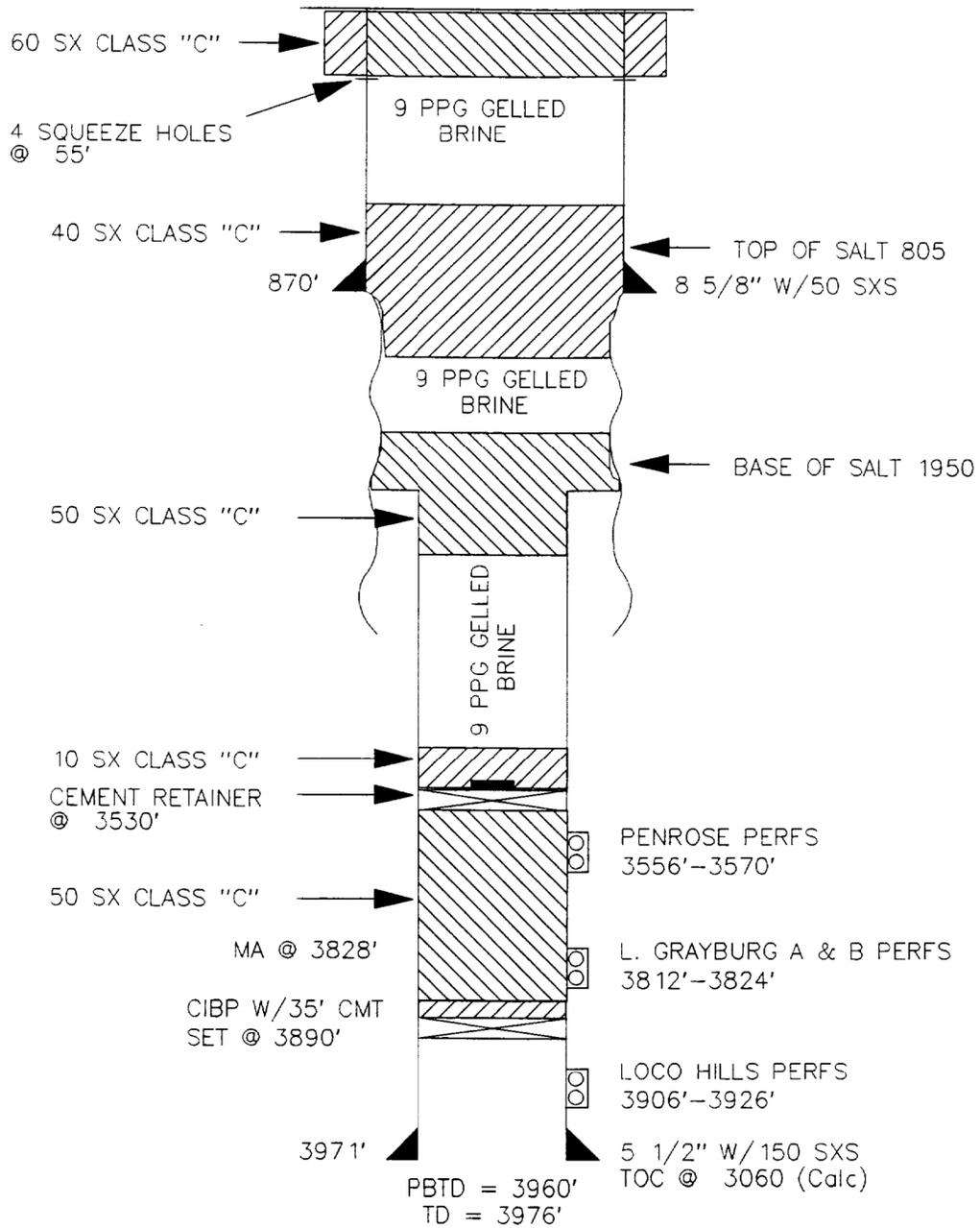
The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure**). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

RSS 12/09/92

# HINKLE F #3 SHUGART FIELD EDDY COUNTY, NEW MEXICO







UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE -Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
SRM1403

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
GREENWOOD FEDERAL COM 2

2. Name of Operator  
CHEVRON USA INCORPORATED Contact: CINDY H MURILLO  
E-Mail: cherreramurillo@chevron.com

9. API Well No.  
30-015-30680-00-S1

3a. Address  
15 SMITH ROAD  
MIDLAND, TX 79705

3b. Phone No. (include area code)  
Ph: 575-263-0431  
Fx: 575-391-6679

10. Field and Pool, or Exploratory  
SHUGART

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 27 T18S R31E MWNW 1202FNL 660FWL

11. County or Parish, and State  
EDDY COUNTY, NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHEVRON USA INC HAS PLUGGED THE ABOVE WELL  
ATTACHED IS THE PLUGGING PROCEDURE TO PLUG ABOVE WELL

**RECLAMATION**  
**DUE 2-15-15**

Accepted for record  
WRD MANDCD 9-26-14

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
SEP 24 2014

Accepted as to plugging of the well bore.  
Liability under bond is retained until  
Surface restoration is completed.

**RECEIVED**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #258501 verified by the BLM Well Information System  
For CHEVRON USA INCORPORATED, sent to the Carlsbad  
Committed to AFMS for processing by JAMES AMOS on 09/12/2014 (14LD0220SB)**

|                                      |                             |
|--------------------------------------|-----------------------------|
| Name (Printed/Typed) CINDY H MURILLO | Title PERMITTING SPECIALIST |
| Signature (Electronic Submission)    | Date 08/27/2014             |

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By **ACCEPTED** JAMES A AMOS  
Title SUPERVISORY PET Date 09/23/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



MERIT ENERGY COMPANY

### Job Daily Summary

Support Line: 972-628-1700 #1

Well Name: Greenwood Fed 02

Report Date:  
Report #

|                                |                            |                              |                                |                             |                                      |
|--------------------------------|----------------------------|------------------------------|--------------------------------|-----------------------------|--------------------------------------|
| Accounting ID<br>14539-01      | Original Spud Date         | Operator                     | SAP AFE Number<br>300153068000 | Lease<br>Greenwood Federal  | Unit Name<br>GREENWOOD FEDERAL COM 2 |
| Working Interest (%)<br>100.00 | Original KB Elevation (ft) | SAP Latitude                 | SAP Longitude                  | Total Depth                 | KB Adjustment (ft)                   |
| Field Name<br>Shugart          | County<br>EDDY             | State/Province<br>NEW MEXICO | Field Office<br>MIDLAND        | Accounting Group<br>Shugart | Producing Status<br>Producing Gas    |

|  |  |                            |  |
|--|--|----------------------------|--|
| Job Category<br>Plug & Abandon   | Primary Job Type<br>Permanently Abandon Well | Job Start Date<br>8/5/2014 | Job End Date                               |
| <b>Daily Operations</b>  |  |                            |  |
| Report Start Date<br>8/5/2014  | Primary Activity<br>miru                     | AFE Number                 | Daily Field Est. Total (Cost)<br>5,660.00  |
| Operations Summary<br>miru pulling spot equipment  |  |                            | Cum Field Est. To Date (Cost)<br>5,660.00  |
| Report Start Date<br>8/6/2014  | Primary Activity<br>pooh                     | AFE Number                 | Daily Field Est. Total (Cost)<br>7,575.00  |
| Operations Summary<br>crew to location unset pkr pooh w/ pipe 180 jts out<br>secure well sion  |  |                            | Cum Field Est. To Date (Cost)<br>13,235.00 |
| Report Start Date<br>8/7/2014  | Primary Activity<br>set cbbp                 | AFE Number                 | Daily Field Est. Total (Cost)<br>6,597.00  |
| Operations Summary<br>crew to location pooh w/ rest of pipe ru wireline set up to dump soc rih dropped total of 36 soc top of rbp 11596 ru cbbp on wireline rih<br>set cbbp @ 11150<br>rd wireline rih with pipe to ( tag up) on cbbp<br>total of pipe in well 240<br>secure sion  |  |                            | Cum Field Est. To Date (Cost)<br>19,832.00 |
| Report Start Date<br>8/8/2014  | Primary Activity<br>tagged up/ circulate mud | AFE Number                 | Daily Field Est. Total (Cost)<br>6,905.00  |
| Operations Summary<br>crew to location rih w/ remainder of pipe tagged up @ (11150) circulate hole 9.5 # mud: 268 bls<br>spot 60 sx class h<br>displace 41 bls 9.5 mud choc: 10606<br>roh w 2 3/8 tbg 42 jts in well secure slowe  |  |                            | Cum Field Est. To Date (Cost)<br>26,737.00 |
| Report Start Date<br>8/11/2014   | Primary Activity<br>perforate                | AFE Number                 | Daily Field Est. Total (Cost)<br>5,850.00  |
| Operations Summary<br>row tbg ru w/ w/ rih perf @ 9790 roh w.w. line rih w/ tbg 287 jts bottom set @ 9356 load hole set pkr psi 1000# holding wait on BLM ok ooh w/ pipe set to perf a.m. @ 9800 secure well sion  |  |                            | Cum Field Est. To Date (Cost)<br>32,587.00 |
| Report Start Date<br>8/12/2014   | Primary Activity<br>spot cement              | AFE Number                 | Daily Field Est. Total (Cost)<br>4,165.00  |
| Operations Summary<br>crew to location finnis pooh w/ pipe 30 stds. ( p.u. had equipment problem) lay dn pkr rih open end spot 30 soc below perfs 9790 pull back up tie back 20 stds<br>set to tag toc a.m.  |  |                            | Cum Field Est. To Date (Cost)<br>36,752.00 |
| Report Start Date<br>8/13/2014   | Primary Activity<br>spot cement              | AFE Number                 | Daily Field Est. Total (Cost)<br>5,732.50  |
| Operations Summary<br>rih tagged up tagged up 9738 short 168 ft from required 9570 spot additional 25 soc pooh w/ 20 stds set up to tag a.m. secure well sion  |  |                            | Cum Field Est. To Date (Cost)<br>42,484.50 |
| Report Start Date<br>8/14/2014   | Primary Activity<br>perf cement              | AFE Number                 | Daily Field Est. Total (Cost)<br>7,730.00  |
| Operations Summary<br>crew to location rih tagged cement @ 9561 BLM ok pooh rih w/ perf @ 6308 pooh w/w/ rih w/ tbg pkr sqz 40 sxs @ 6308-6148 woc 4 hrs set rih tagged up 6150<br>lay dn 14 jts @ 5509 spot 40 soc pooh 17 stds secure well sion  |  |                            | Cum Field Est. To Date (Cost)<br>50,214.50 |
| Report Start Date<br>8/15/2014   | Primary Activity<br>perf squeeze             | AFE Number                 | Daily Field Est. Total (Cost)<br>5,090.00  |
| Operations Summary<br>Rih tag cmt @ 5248 roh tbg rig up w/ rih perf @ 4985 sqz 40 sx WOC shutting psi 600 bleed down roh w tbg and pkr rih tag cmt @ 4678 roh rig up w/ rih perf @ 2850 rih tbg & pkr set @ 2510<br>No need to sqz cmt @ 2850 first did establish rate @ 2bbis pm well did circulate sqz 40 sx displace 14.5 bbls showing psi 200 secure well slowe  |  |                            | Cum Field Est. To Date (Cost)<br>55,304.50 |
| Report Start Date<br>8/18/2014   | Primary Activity<br>perf sqz                 | AFE Number                 | Daily Field Est. Total (Cost)<br>5,535.00  |
| Operations Summary<br>crew to location bleed dn well 0 psi release pkr roh nd pkr rih tag cmt @ 2673 roh w/ tbg ru w/ rih perf @ 2000 ft roh rd w/ rih w/ tbg and pkr set @ 1695 load hole establish rate @ 2 bpm sqz 45 soc displace 10 3/4 bls woc bleed dn roh w/ tbg pkr rih w 2 3/8 tbg tag toc @ 1832 pooh w/ tbg ru w/ rih perf @ 875 roh w/ rd rih w/ tbg and pkr set @ 587 load hole set pkr establish rate sqz 35 soc displace 6 3/4 bls si psi 200 # tag am secure sion |  |                            | Cum Field Est. To Date (Cost)<br>60,839.50 |
| Report Start Date<br>8/19/2014   | Primary Activity<br>rdmo                     | AFE Number                 | Daily Field Est. Total (Cost)<br>5,625.00  |
| Operations Summary<br>crew to location bleed dn well release pkr pooh rih tag @ 749 pooh rih w/ w/ perf @ 550 roh rd w/ l. rih w/ tbg and pkr set @ 37 ft load hole set pkr set rate and pump 40 bls brine release pkr roh ndbop rih w/ pkr 10 ft set squeeze 150 sxs from perfs to surface release pkr roh top well rd/ p unit and pump equipment move  |  |                            | Cum Field Est. To Date (Cost)<br>66,464.50 |
| final report   |  |                            |  |

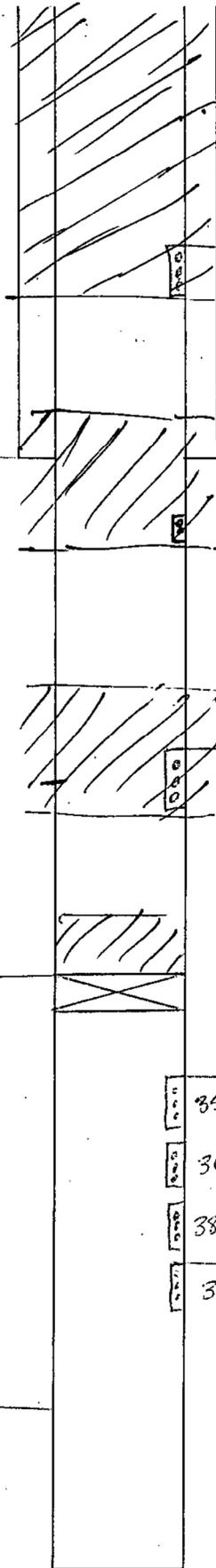
Momentum Operating Co. Inc.  
 #10 "F" #10

12 1/4" Hole  
 8 5/8" 24# Set @ 700'  
 Cemented w/ 400 SxS

BOS @ 1970'  
 Du tool @ 2072'

(Proposed)  
 CIBP @ 3500'  
 w/ 30' Cement on top  
 25 Sx

7 7/8" Hole  
 5 1/2" 14# Set @ 4500'  
 Cemented w/ 2200 SxS  
 (circulated)



Base of Salt @ 1945'  
 (Proposed)  
 Perf. & Attempt to Sqz. @ 450' a 45 Sx Plug. If unable to Est. Rate Spot 45 Sx Plug @ 400' to Surface 500'

\* Add Plug  
 Perf. & Sqz cmt from 640'-650' woc + Tag

(Proposed)  
 Perf. & Attempt to Sqz 40 Sx Plug @ 1995'. It unable to Est. Rate TTH #14 Spot 25 Sx Plug 2175'

Penrose Perfs

- 3548'-68'
- 3608'-44'
- 3808'-16'
- 3898'-22'

Grayburg Perfs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
LC02932B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
Momentum Operating Co., Inc.

3a. Address  
P.O. Box 2439 Albany, Texas

3b. Phone No. (include area code)  
325-762-3331

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
330 FNL & 330 FWL S27, T18S, R31E

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
Hinkle F #10

9. API Well No.  
30-015-24586

10. Field and Pool or Exploratory Area  
Shugart (Q, Y, 7R, GB)

11. Country or Parish, State  
Eddy County, New Mexico

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

10-25-16 Set CIBP @ 3500' and pump 25 sx class C cement. Loaded hole with mud, Perf @ 2125', couldn't establish rate, RIH hole to 2175', pump a 30 sx plug. WOC 4 hrs, tag @ 1910'.

10-26-16 Perf @ 840', couldn't establish rate, RIH to 890', pump 30 sx plug, WOC 4 hrs, tag @ 645'. Perf @ 450', couldn't establish rate, RIH to 500', pump 80 sx to surface.

10-27-16 Cut well head off 3" BGL. Weld steel plate and dry hole marker.

NEW OIL CONSERVATION  
FILE # 2017  
FILE # 8 2017

RECEIVED

*Reclamation Due 4-27-17*

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Ted Tidwell

Title Operations

Signature *TJ*

Date 1-31-2017

Accepted for record  
M/MOCD  
*A. G. B.*

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *James G. Davis*

Title SAET

Office CFO

Date 2-13-17

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well: **Principle F 4**  
 Field: **Shugart**  
 Reservoir: **Delaware**

**Location:**  
 Section: 27  
 Township: 18  
 Range: 31  
 County: Eddy State: NM

**Well ID Info:**  
 Chevno: HN3642  
 API No: 3001532894  
 Spud Date: 12/2/03  
 Compl. Date: 1/15/04

**Surface Csg:** 9.625" 40#, J55  
**Set:** @ 647'  
**Hole Size:** 12.25"  
**Circ:** Yes **TOC:** Surface  
**TOC By:** Circulated

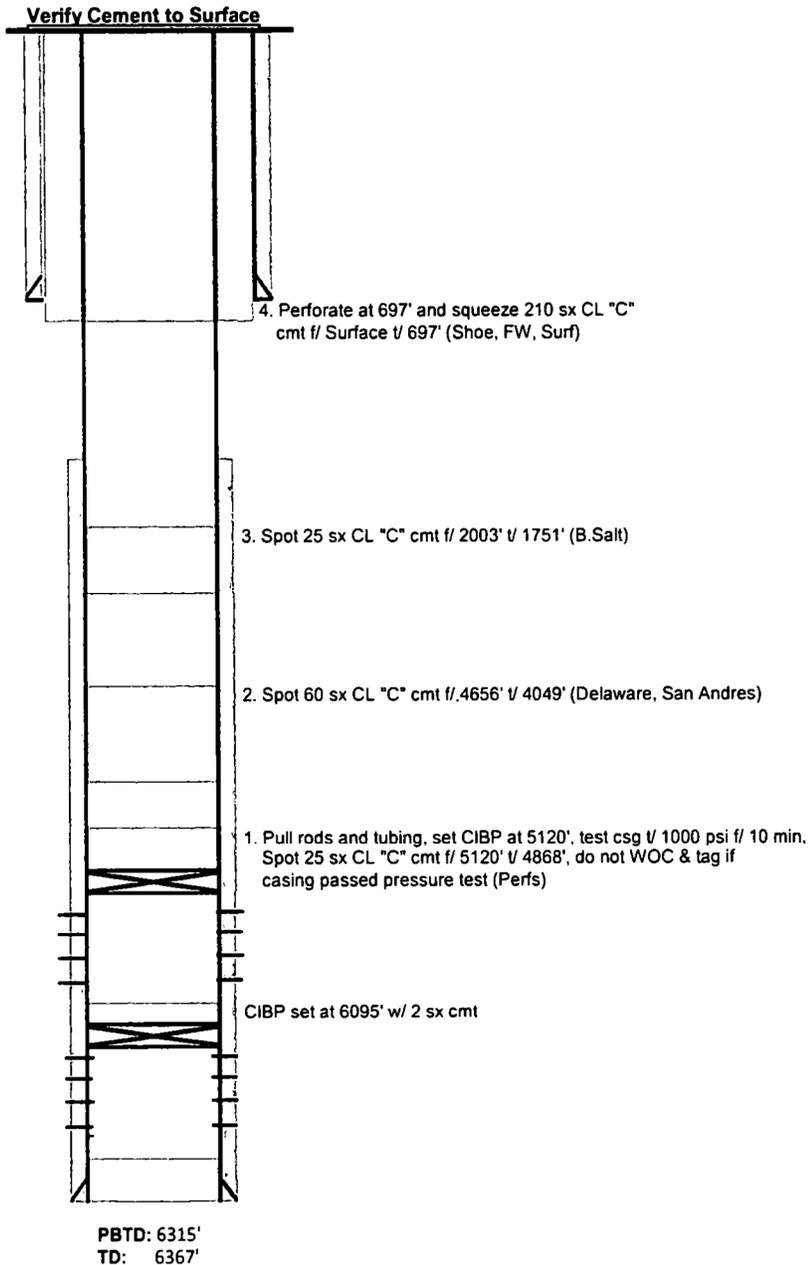
**Prod. Csg:** 5 1/2", 17#, J55  
**Set:** @ 6367'  
**Hole Size:** 8.75"  
**Circ:** No **TOC:** 1480'  
**TOC By:** CBL

| Formation    | TD, ft |
|--------------|--------|
|              | Top    |
| Rustler      | 620    |
| Salado       | 851    |
| Base of Salt | 1,953  |
| Bowers Sand  | 3,020  |
| San Andres   | 4,162  |
| Delaware     | 4,606  |
|              |        |
|              |        |
|              |        |

Perfs 5173'-5268'

Perfs 6140'-6222'

**Proposed Wellbore Diagram**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

|  |  |   |
|--|--|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |  | 8. Well Name and No.<br>PRINCIPLE FEDERAL 4       |
| 2. Name of Operator<br>CHEVRON USA INCORPORATED  |  | 9. API Well No.<br>30-015-32894-00-S1             |
| 3a. Address<br>6301 DEAUVILLE BLVD<br>MIDLAND, TX 79706  |  | 10. Field and Pool or Exploratory Area<br>SHUGART |
| 3b. Phone No. (include area code)<br>Ph: 832-588-4044  |  | 11. County or Parish, State<br>EDDY COUNTY, NM    |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 27 T18S R31E SWNW 1920FNL 660FWL                   |  |   |

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

2/5/19 to 2/7/19 MIRU C&J Energy Services. LD rods and tubing.  
2/8/19 Set CIBP @ 5170'. Attempt P/T casing; slow leak off.  
2/13/19 MIRU APWS.  
2/14/19 Tag CIBP @ 5110'. Equalize well. SD.  
2/15/19 Plug #1 25 sxs (1.32 yield, 14.8ppg) Class C cmt from 5110'-4857'. Displace w/26 bbls. Pump 32 bbls 10 ppg brine. WOC. Tag @ 4857'. P/T casing to 1000#; good. Spot 62 bbls 10 ppg salt gel from 4857' - 2200'. Plug #2 60 sxs (1.32 yield, 14.8ppg) Class C cmt from 4656' - 4049'. Displace w/23.5 bbls 10 ppg brine. Plug #3 25 sxs (1.32 yield, 14.8ppg) Class C cmt from 2200' - 1950'. Displaced w/11 bbls brine. PUH. Reverse out 15 bbls of 10 ppg brine. WOC.  
2/18/19 Tag cmt @ 2017'. Tag approved BLM. Spotted 21 bbls 10 ppg SG from 2017' to 1100'. Perforate 1-9/16" 2 4 SPF per gun at 1100'. Establish injection ratge down 5.5" casing and out 9-5/8" casing with 41 bbls 10 ppg brine 2 bpm @ 150#. Plug #4 Mix and pump 60 sxs (1.32 yield, 14.8ppg) Class C

GC 4/5/19  
Accepted for record - NMOCD

RECLAMATION PROCEDURE  
ATTACHED

RECLAMATION  
DUE 8-20-19'

RECEIVED

APR 01 2019

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #457692 verified by the BLM Well Information System For CHEVRON USA INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 03/14/2019 (19DLM0178SE) DISTRICT II-ARTESIA O.C.D.

|                                   |                 |
|-----------------------------------|-----------------|
| Name (Printed/Typed) HOWIE LUCAS  | Title ENGINEER  |
| Signature (Electronic Submission) | Date 03/12/2019 |

ACCEPTED FOR RECORD

MAR 20 2019

McKinney HLC

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By \_\_\_\_\_ Title \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\*

Well: Hinkle Federal #1

**P&A  
Wellbore Diagram**

Reservoir: Delaware

**Location:**  
1650' FNL & 660' FWL  
Section: 27  
Township: 18S  
Range: 31E  
County: Eddy State: NM

**Well ID Info:**  
Chevno: FC6713  
API No. 30-015-10111  
Cost Center: UCRJ10400  
Spud Date: 8/31/1963  
Compl. Date: 1/23/1970

**Elevations:**  
GL: 3631  
KB: 3642  
DF:



Tag Cmt @ 381'; shoot SQZ holes @ 345' & Circulate Cmt to Pit from Surface Pipe

Surf. Csg: 8 5/8"; 24# J-55 ST&C  
Set: @ 628' w/ 350 sx  
Hole Size: 12 1/4"  
Circ: Yes TOC: Surface  
TOC By: Circulation

Shoot SQZ holes @ 795'  
Squeeze w/ 50 sx

Cut TBG @ 1646' (PKR stuck)

Shoot SQZ holes @ 2030' (B/Salt)  
Squeeze w/ 50 sx

Spot 25 sx Cmt w/ across Queen Fmtn  
3972'-3842'

Spot 50 sx Cmt w/ Pkr @ 4730'

Top of fish and sand fill @ 4.777'

| Perfs:      | Status          |
|-------------|-----------------|
| 4926'-4938' | Delaware - Open |
| 4975'-5002' | Delaware - Open |
| 5022'-5030' | Delaware - Open |
| 5042'-5048' | Delaware - Open |
| 5052'-5056' | Delaware - Open |

Prod. Csg: 4 1/2"; 9.5# J-55 LT&C  
Set: @ 5162' w/ 400 sks  
Hole Size: 7 7/8"  
Circ: No TOC: 2865'  
TOC By: Temperature Survey

| Item                | Depth   | Length | Weight   | Volume | Volume   | Volume  |
|---------------------|---------|--------|----------|--------|----------|---------|
| Tubing - Production | 5022.00 |        | 4.711.00 |        | 4.711.00 |         |
| Tubing              | 155     | 2.38   | 4.70     | 1.55   | 4.656.30 | 4.556.3 |
| Anchor-catchers     | 1       | 4.1/2  |          |        | 2.75     | 4.569   |
| Tubing              | 4       | 2.38   | 4.70     | 1.55   | 128.25   | 4.586.3 |
| Pump Sealing/Nipple | 1       | 2.38   |          |        | 1.10     | 4.586.3 |
| Perf Sub            | 1       | 2.38   |          |        | 4.10     | 4.590.3 |
| Tubing              | 1       | 2.38   | 4.70     | 1.55   | 29.50    | 4.711.3 |

COTD: 4777  
PBTD: 5090'  
TD: 5162'

Updated: 12/19/2013

By: A. Smalls

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
HINKLE FEDERAL 1

2. Name of Operator  
CHEVRON USA INC  
Contact: CINDY H MURILLO  
E-Mail: CHERRERAMURILLO@CHEVRON.COM

9. API Well No.  
30-015-10111

3a. Address  
15 SMITH RD  
MIDLAND, TX 79705  
3b. Phone No. (include area code)  
Ph: 575-263-0431  
Fx: 575-391-6679

10. Field and Pool, or Exploratory  
SHUGART DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 27 T18S R31E 1650FNL 660FWL

11. County or Parish, and State  
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |
|---|---|--|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat              | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHEVRON USA HAS PLUGGED THE ABOVE WELL AS FOLLOWS:  
12/10/13 RUPU, NDWH, NUBOP, WEATHERFORD DISASSEMBLED PUMPING UNIT, TEST BOP W/ PEAK PKR. SWH, SDFN.  
12/11/13 RU TBG SCANNERS, POOH SCANNING TUBING TEST RAMS ON BOP W/RBP. PU MU FISH BHA. UNLOAD  
2.375' PH-6 WORKSTRING, TALLEY, START RIH, SW, SDFN.  
12/12/13 CONTINUE PICKING UP TBG, TAG FISH @ 4764 (151 JTS 2.375; PH-6 WORKSTRING), ATTEMPT TO  
SCREW INTO FISH (UNSUCCESSFUL), RUPS AND STRIPPER HEAD, PUMP 10 BBLS BRINE AND BROKE CIRCULATION,  
SWH, SDFN.  
12/13/13 CC WELLBORE, WASH DOWN W/PS (4764 TO 4773). SCREW INTO FISH BY HAND, TORQUE UP TO 900  
PSI W/TONGS, SPUN FREE, POOH (NO FISH, MIDDLE THREADS ON PIN WERE PULLED), SWH, SDFN.  
12/14/13 MAKE UP FISH BHA, RIH W 3 7/8' OVERSHOT WITH 3 1/16' GRAPPLE, ATTEMPT TO LATCH ONTO FISH @  
4773, UNABLE TO LATCH ON TO FISH, POOH (NO SCARING INSIDE OVERSHOT). ORDERED MILLS FOR MILLING  
FISH, SWH, SDFN.

14. I hereby certify that the foregoing is true and correct.

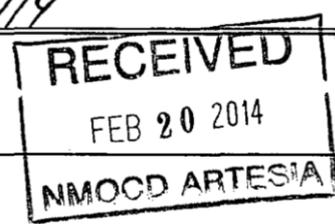
Electronic Submission #234671 verified by the BLM Well Information System  
For CHEVRON USA INC, sent to the Carlsbad

Name (Printed/Typed) CINDY H MURILLO

Title PERMITTING SPECIALIST

Signature (Electronic Submission)

Date 02/06/2014



THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By: James A. Ames Title: SEPS Date: 2-11-14  
Office: CFD

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECLAMATION  
DUE 7-5-14

Accepted as to plugging of the well bore.  
Liability under bond is retained until  
Surface restoration is completed.

**Additional data for EC transaction #234671 that would not fit on the form**

**32. Additional remarks, continued**

12/15/13 WELL SHUT IN, NO OPERATIONS DUE TO WORK OVER CREW ON WEEKEND OFF.  
12/16/13 MAKE UP AND RIH WITH 3.875' MILL & BHA,, 150 JTS TBG, TAG FISH 4776'. RUPS. MILL 1' FROM 4776-4777 (60+/- RPM, 1-2 PTS DOWN) (METAL SHAVINGS IN RETURNS). STOPPED MAKING FOOTAGE, RDPS, POOH (MILL WAS IN GOOD SHAPE), SWH, SDFN.  
12/17/13 RIH WITH SHOE/WASH PIPE (3.875'), TAG FISH AT 4777, CUT AROUND FISH WITH MILL (CUT DOWN 4'), BEAT DOWN TRYING TO GET FISH TO JAM AND ALLOW SHOE TO CUT. CIRCULATE WELLBORE CLEAN WITH BRINE. RIG DOWN POWER SWIVEL, PULL OUT OF THE HOLE STANDING BACK WORKSTRING, (GREEN SHOE). SHUT WELL IN, SDFN.  
12/18/13 MAKE UP 4' BULLDOG BOX TAP TO BHA, TRIP IN HOLE. TAG FISH, ENGAGE FISH SEVERAL TIMES, AND SLIPPING OFF ALL TIMES, POOH, LAID DOWN BOX TAP, MAKE UP AND RIH WITH 3.875' JUNK MILL, TAG FISH, SHUT WELL IN. SDFN.  
12/19/13 POOH (LAID DOWN TUBING AND BHA). PICK UP /RIH WITH PACKER AND PRODUCTION TUBING STRING. SHUT WELL IN/SHUT DOWN FOR THE NIGHT.  
12/20/13 LOAD 2.375' PH-6 WORKSTRING AND DELIVER BACK TO KNIGHT, FINISH RIH WITH 2.375' PRODUCTION TUBING. SET PACKER AT 4730'. SET PACKER ESTABLISH INJECTION, SHUT WELL IN/SHUT DOWN FOR NIGHT.  
12/21 TO 12/25 WELL SHUT IN, NO OPERATIONS, SHUT DOWN FOR HOLIDAY.  
12/26/13 SLIGHT VAC, PUMP LOWER CEMENT PLUG, POOH.  
12/27/13 RIH WITH 2.375' COLLAR & 2.375' PRODUCTION TUBING STRING, TAG CEMENT, PULL UP HOLE, SPOTTED 25 SACKS C NEAT CEMENT OVER TOP OF THE QUEENS FORMATION (3972-3842), POOH, SHUT WELL IN/SHUT DOWN FOR THE NIGHT.  
12/28/13 SPOT IN AND RIG UP APOLLO WIRELINE, PERFORATE SQUEEZE HOLES AT BOTTOM OF THE SALT ZONE 2,030' (WELL KICKED WITH SLIGHT WATER FLOW), KILLED WELL WITH 50 BBL 10 PPG BRINE, RIH PKR, SQUEEZE LOWER SALT ZONE WITH 50 SACKS C NEAT (2% CC), SHUT WELL IN, SHUT DOWN FOR HOLIDAY.  
12/29 - 01/01 WELL SHUT IN NO OPERATIONS DUE TO RIG SHUT DOWN FOR HOLIDAY.  
01/02/14 OPEN WELL. PACKER IS APPARENTLY STUCK DUE TO CEMENT OPS. TIH WITH/ WL AND TAG INSIDE TUBING @ 1684 FT. CUT OFF TUBING @ 1646 FT.  
01/03/14 TOH WITH CUT OFF 2 3/8' TUBING FROM 1646 FT. LAY DOWN TUBING TO 387 FT. TIH AND PERFORATE @ 795 FT. TIH WITH PEAK 32-A TENSION PACKER AND GET INJECTION RATE WITH SURFACE PIPE OPEN. RU BAKER AND PUMP 100 SACKS CLASS C NEAT CEMENT AND DISPLACE TO 578 FT.  
01/04/14 TIH AND TAG CEMENT @ 381 FT. TOH LAYING DOWN TUBING, RU APOLLO AND PERFORATE @ 345 FT. PRESSURE UP AND BREAK CIRCULATION WITH SURFACE PIPE. ND BOP ASSY. NU B-1 ADAPTER FLANGE AND RU BASIC CEMENT AND CIRCULATE CEMENT TO SURFACE.  
01/6/14 RIG DOWN PULLING UNIT.

Momentum Operating Co. Inc.  
Hinkle "F" #1

Base of salt @ 1945'

\* Add Plug:  
Perf + SQZ from 1670 - 775'  
WOC + Tag

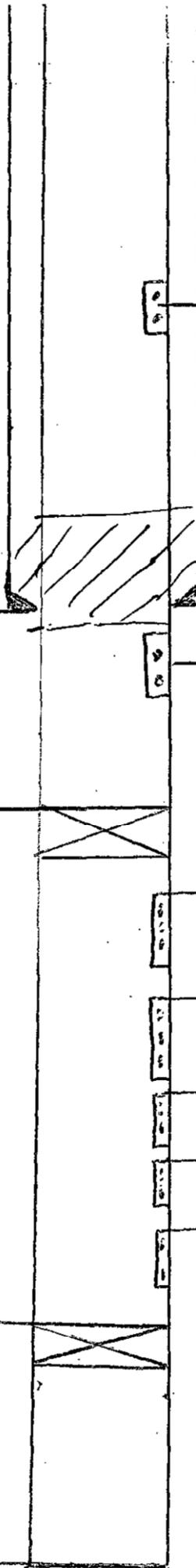
8 5/8" 28# set @  
1070' cemented  
w/ 470 SX Circulated

Proposed CIBP @  
3500' w/ 36' 25 SX  
Cement on top

-1964-  
CIBP set @  
3960'

7 7/8" hole

4 1/2" 9.5# J-55 CSG set @ 5188'



Proposed  
Perf. + Attempt  
to SQZ 50 SX  
Plug @ 450'.  
If unable to  
Est. Rate Spct  
30 SX Plug @  
450' + Circ. to  
Surface.

Proposed  
Perf. + Attempt  
to SQZ 40 SX  
Plug @ 1945'.  
If unable to  
Est. Rate TIF  
@ 2250' and  
Spct 25 SX Plug  
Tag at 1875'

Perf SQZ  
Perf @  
3534' - 66'

Perf SQZ  
Perf @  
3710' - 32'

Perf SQZ  
Perf @  
3820' - 10'

Perf SQZ  
Perf @  
3916' - 86'

3916' - 28'

TD 6102'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

5. Lease Serial No.  
LC029392B

6. If Indian, Allottee or Tribe Name

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.  
Hinkle F #1

2. Name of Operator

Momentum Operating Co., Inc.

9. API Well No.  
30-015-05617

3a. Address

P.O. Box 2439 Albany, Texas

3b. Phone No. (include area code)

325-762-3331

10. Field and Pool or Exploratory Area  
Shugart (Q, Y, 7R, GB)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1880 FNL & 1980 FWL Sec 27, T18S, R31E

11. Country or Parish, State

Eddy County, New Mexico

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |  |  |   |  |
|---|---|--|--|---|--|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |  |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |  |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction            | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |  |
|   | <input type="checkbox"/> Change Plans         | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |   |  |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back                   | <input type="checkbox"/> Water Disposal            |   |  |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

12-14-16 Set CIBP @ 3500' with 25 sx cement on top. Circulate well with mud.  
 12-15-16 Perf @ 1995', unable to establish rate, RIH to 2250', pump a 25 sx plug. WOC.  
 12-20-16 Tag @ 1814'. Perf @ 1070', unable to establish rate, RIH to 1120', pump a 25 sx plug. WOC.  
 12-21-16 Tag @ 810'. Perf @ 450', circulated 80 sx to surface.  
 1-26-16 Cut well head off 3' BGL, weld steel plate and dry hole marker.

NM OIL CONSERVATION  
ARTESIA DISTRICT  
FEB 28 2017

RECEIVED

*Reclamation 7-26-17*

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Ted Tidwell

Title Operations

Signature *AD*

Date 1-31-2017

Accepted for record  
NM/OCD  
*R.L.B.*

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*James C. [Signature]*

Title

*SPET*

Date

*2-13-17*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

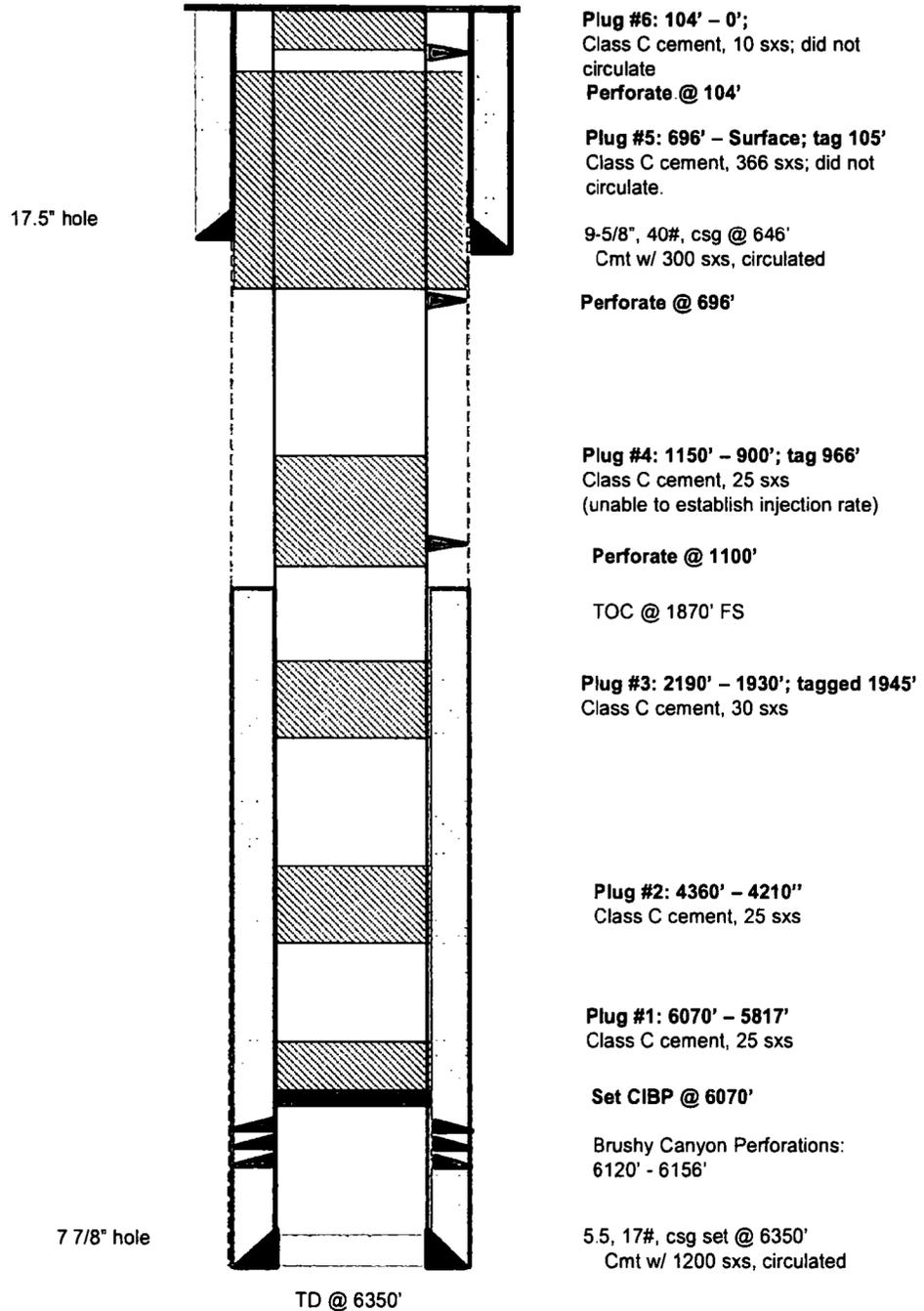
Office

*CFD*

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# Principle Federal #2 As Plugged WBD 2/13/19

Shugart; Delaware  
1760' FNL & 1650' FWL, Section 27, T-18-S, R-31-E  
Eddy County, NM/ API # 30-015-32843



**WELL DATA SHEET**

**FIELD:** Shugart Bone Spring **WELL NAME:** Greenwood Pre-Grayburg Unit #16 **FORMATION:** Bone Spring

**LOCATION:** 1980 FSL & 1980 FWL **SEC:** 27 **TWP:** 18S **RGE:** 31E **COUNTY:** EDDY **STATE:** NM

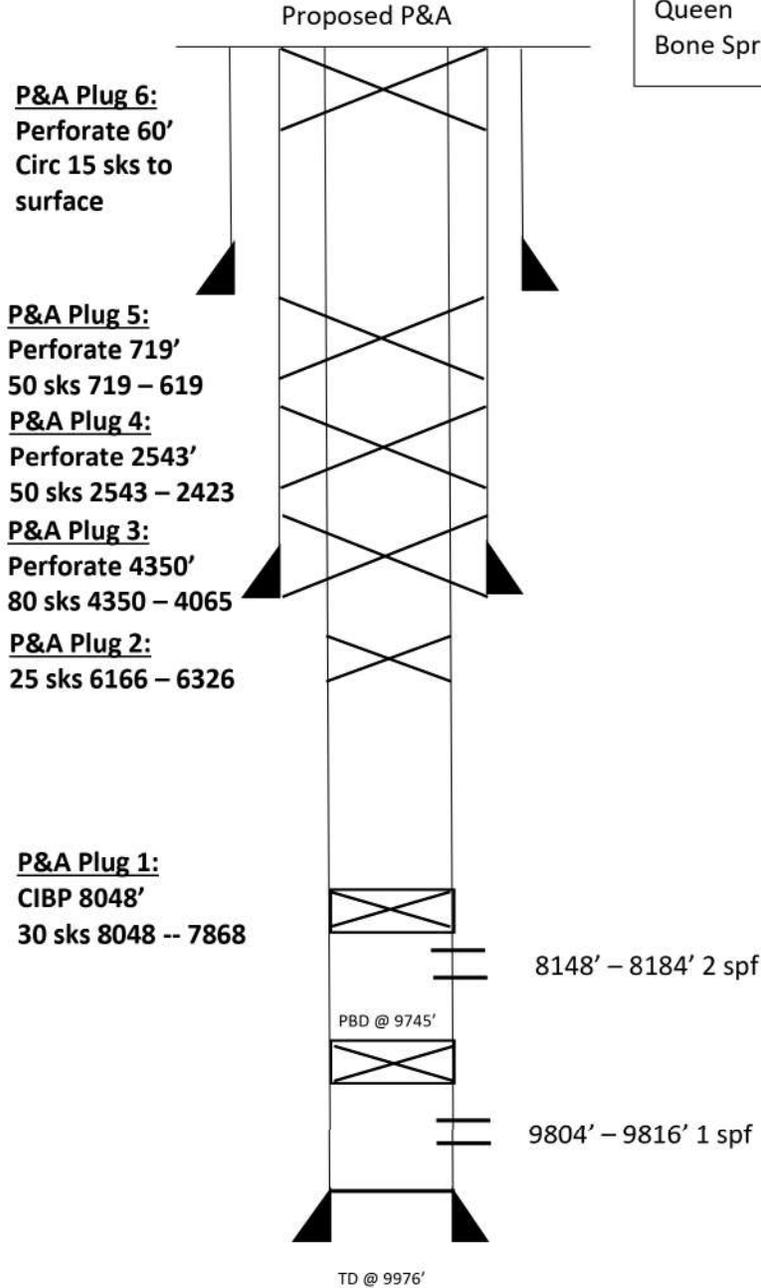
**API NO:** 30-015-32515 **CURRENT STATUS:** Shut-in

| Formation Tops |      |
|----------------|------|
| Salt/Anhy      | 654  |
| Yates          | 2493 |
| Queen          | 3321 |
| Bone Spring    | 6274 |

13 3/8", 48 lb/ft csg  
Set @ 669'  
500 sks cmt circ to  
surface. 17.5" hole.

8 5/8", 32 lb/ft csg  
Set @ 4115'  
1515 sks cmt circ to  
surface. 12.25"  
hole.

5 1/2", 17 lb/ft, N-80 csg  
Set @ 9971'  
1190 sks cmt  
TOC @ 5000' est  
7 7/8" hole.





N.M.O.C.D. COPY  
UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER (Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**LC-029392-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Greenwood Unit**

9. WELL NO.  
**9**

10. FIELD AND POOL, OR WILDCAT  
**Shugart**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 27**

**T-18-S, R-31-E**

12. COUNTY OR PARISH 13. STATE  
**Eddy N.M.**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  **Dry Hole**

2. NAME OF OPERATOR  
**Southland Royalty Company**

3. ADDRESS OF OPERATOR  
**1100 Wall Towers West, Midland, Texas 79701**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

**Unit Letter L, 2310' FSL, 660' FWL, Sec. 27, T-18-S R-31-E**

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**3629' GR**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO:                      |   | SUBSEQUENT REPORT OF:                          |  |
|--|---|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/>        | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    | FRACTURE TREATMENT <input type="checkbox"/>    | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/>    |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         | (Other) <b>Re-entered &amp; replug</b>         | <input checked="" type="checkbox"/>      |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- 10-22-79 Rig up. Weld on 8 5/8" csg. & head. Install BOP. Drill out cmt plug @ 600-632. Cleanout to 952'.
- 10-23-79 Drilled out cmt. plug & bridges to 3495'. No water flows.
- 10-24-79 Cleanout to 3900'. Load hole w/mud pump 100 sx plug @ 3867'.
- 10-25-79 GIH & H.T. Bridge @ 2950'. Run bit & cleanout to 3612' tag Plug @ 3617'. Run tbg. to 3410'. Spot 80 sx. plug.
- 10-26-79 Ran tbg. Tag plug @ 3250'. Pull tubing to 2444'. Spot 200 sx. plug. Wait 4 hrs. Ran tbg. & tag plug @ 1435'. Pull tbg. to 651'. Spot 100 sx. plug. Wait 4 hrs. Tag plug @ 396'. POH. Spot surface plug from 67' to surface (20 sx.) Weld plate on 8 5/8" csg. Install dry marker. Clean-up location.  
*OKRW 11/7/79 - Well set to 320'*

**RECEIVED**

**NOV 1 1979**

**U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO**

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE District Engineer DATE 10-29-79

(This space for Federal or State office use)

APPROVED BY GEORGE H. STEWART TITLE ACTING DISTRICT ENGINEER DATE NOV 9 1979

CONDITIONS OF APPROVAL, IF ANY:

**PLUGGED WELL SCHEMATIC**

**Federal Keohane et al 'C' Well No.2**

API 30-015-10288

2310' FNL & 330' FWL, SEC. 28-T18S-R31E  
EDDY COUNTY, NEW MEXICO

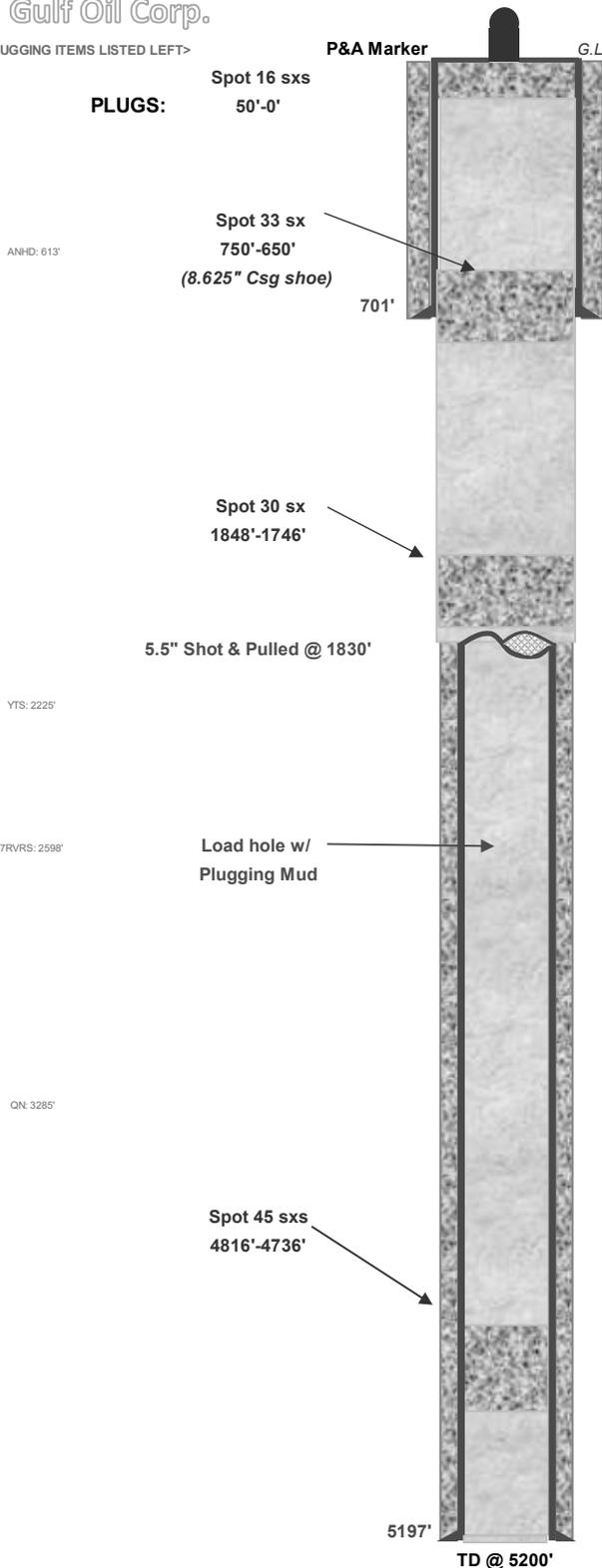
Spud Date: 12/02/1964

P&A Date: 2/27/1964

Well Plugged by:  
**Gulf Oil Corp.**

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>



**Surface Casing**  
8.625", 24.0# csg. (11.0" Hole) @ 701'  
325 sx ('C') - Calculated to Surface  
Not reported

<P&A SUBSEQUENT SUNDRY>

Form 8-311a  
Feb. 1964  
**APPROVED**  
MAR 25 1964  
RONNIE E. SHOOK  
ACTING DISTRICT ENGINEER

Budget Bureau No. 42-R358.4  
Form Approved.  
Land Office  
Lesse No. **MM-085776-A**  
Unit

(SUBMIT IN TRIPPLICATE)  
**UNITED STATES**  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

|   |   |
|---|---|
| NOTICE OF INTENTION TO DRILL.....                   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     | SUBSEQUENT REPORT OF ALTERING CASING.....       |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | SUBSEQUENT REPORT OF ABANDONMENT.....           |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    | SUPPLEMENTARY WELL HISTORY.....                 |
| NOTICE OF INTENTION TO ABANDON WELL.....            |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 27, 1964  
Federal Keohane et al 'C' Well No. 2 is located 2310 ft. from [N] line and 330 ft. from [E] line of sec. 28  
SE/4, NW/4, Sec 28 18-S 31-E N47W  
Stager (Field) Bedy (County or Subdivisions) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3623 ft.

**DETAILS OF WORK**

Displaced fluid in hole with mud. Spotted 18 sack cement plug from 4516' to 4726'. Shot 5-1/2" casing off at 1830' and pulled casing. Spotted 30 sack cement plug from 1848' to 1746'. Spotted 33 sack cement plug from 750' to 650'. Spotted 35 sack cement plug from 50' to surface. Installed dry hole marker. Will advise when location is ready for inspection.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Gulf Oil Corporation**  
Address **Box 670, Hobbs, New Mexico**  
By **Area Production Manager**  
Title

**Production (Int.) Casing**  
5.5", 17.0# Csg. (8.75" Hole) @ 5197' w/ 500 sx  
TOC Calculated to 1805'

Drawn by: Ben Stone, 4/15/2022



# Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SA/ DEL Interval 4075'

15 Wells Penetrate Proposed Interval

| API                     | Current Operator                               | Well Name                   | Well No. | Type      | Lease   | Status  | U L S T R    | TV Depth | Plugged On          |
|-------------------------|--|-----------------------------|----------|-----------|---------|---------|--------------|----------|---------------------|
| 30-015-22601            | [119305] RAY WESTALL OPERATING, INC.           | GREENWOOD FEDERAL SWD       | #001     | SWD       | Federal | Active  | L-27-185-31E | 12220'   |                     |
| <b>Section 27 Wells</b> |  |                             |          |           |         |         |              |          |                     |
| 30-015-32616            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #001     | Oil       | Federal | P&A-R** | C-27-185-31E | 6395'    | 2/26/2019           |
| 30-015-10592            | [26478] SOUTHLAND ROYALTY CO                   | HINKLE F                    | #003     | Oil       | Federal | P&A-R** | C-27-185-31E | 8950'    | 12/13/1992          |
| 30-015-05616            | [4323] CHEVRON U S A INC                       | GREENWOOD PRE-GRAYBURG UNIT | #004     | Oil       | Federal | P&A-R** | D-27-185-31E | 5250'    | 4/21/2018           |
| 30-015-10594            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #005     | Oil       | Federal | P&A-R   | D-27-185-31E | 3948**   | 11/16/2016          |
| 30-015-30680            | [4323] CHEVRON U S A INC                       | GREENWOOD FEDERAL COM       | #002     | Gas       | Federal | P&A-R** | D-27-185-31E | 12000'   | 8/19/2014           |
| 30-015-24586            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #010     | Oil       | Federal | P&A-R** | D-27-185-31E | 4240'    | 10/27/2016          |
| 30-015-32894            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #004     | Oil       | Federal | P&A-R** | E-27-185-31E | 6367'    | 2/18/2019           |
| 30-015-10593            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #004     | Oil       | Federal | P&A-R   | E-27-185-31E | 3966**   | 1/15/2014           |
| 30-015-10111            | [4323] CHEVRON U S A INC                       | HINKLE FEDERAL              | #001     | Oil       | Federal | P&A-R** | E-27-185-31E | 5162'    | 1/5/2014            |
| 30-015-05617            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #001     | Injection | Federal | P&A-R** | F-27-185-31E | 5188'    | 1/26/2017           |
| 30-015-32843            | [4323] CHEVRON U S A INC                       | PRINCIPLE FEDERAL           | #002     | Oil       | Federal | P&A-R** | F-27-185-31E | 6350'    | 2/13/2019           |
| 30-015-32515            | [173413] E G L RESOURCES INC                   | GREENWOOD PRE-GRAYBURG UNIT | #016     | Gas       | Federal | P&A-R** | J-27-185-31E | 9976'    | 7/6/2021            |
| 30-015-25815            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #020     | Oil       | Federal | Active  | J-27-185-31E | 4300'    |                     |
| 30-015-10607            | [196069] MOMENTUM OPERATING CO INC             | HINKLE F                    | #006     | Oil       | Federal | P&A-R   | K-27-185-31E | 3978**   | 1/26/2017           |
| 30-015-10760            | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #008     | Oil       | Federal | P&A-R   | L-27-185-31E | 3953**   | *DOES NOT PENETRATE |
| 30-015-10106            | [214263] PRE-ONGARD WELL OPERATOR              | PRE-ONGARD WELL             | #009     | Oil       | Federal | P&A-R** | L-27-185-31E | 5120'    | 1/1/1900            |
| 30-015-21273            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #003     | Oil       | Federal | Active  | M-27-185-31E | 3600**   | *DOES NOT PENETRATE |
| 30-015-22363            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #010     | Oil       | Federal | Active  | M-27-185-31E | 3650**   | *DOES NOT PENETRATE |
| 30-015-20982            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #002     | Oil       | Federal | Active  | N-27-185-31E | 3643**   | *DOES NOT PENETRATE |
| 30-015-10737            | [265378] GEORGE A CHASE JR DBA G AND C SERVICE | HINKLE B FEDERAL            | #017     | Oil       | Federal | Active  | N-27-185-31E | 3984**   | *DOES NOT PENETRATE |



## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

|                         |                 |  |                         |             |                  |                |                    |                     |              |                     |
|-------------------------|-----------------|--|-------------------------|-------------|------------------|----------------|--------------------|---------------------|--------------|---------------------|
| <i>Section 28 Wells</i> |                 |  |                         |             |                  |                |                    |                     |              |                     |
| 30-015-05627            | [214263]        | PRE-ONGARD WELL OPERATOR                     | PRE-ONGARD WELL         | #001        | Oil              |                | P&A-R              | A-28-185-31E        | 3868*        | 1/1/1900            |
|                         |                 |  |                         |             |                  |                |                    |                     |              | *DOES NOT PENETRATE |
| 30-015-20172            | [196069]        | MOMENTUM OPERATING CO INC                    | GULF                    | #001        | Oil              | Federal        | P&A-R              | A-28-185-31E        | 3927*        | 1/28/2010           |
|                         |                 |  |                         |             |                  |                |                    |                     |              | *DOES NOT PENETRATE |
| 30-015-20196            | [196069]        | MOMENTUM OPERATING CO INC                    | GULF                    | #002        | Injection        | Federal        | P&A-R              | H-28-185-31E        | 3935*        | 11/30/2016          |
|                         |                 |  |                         |             |                  |                |                    |                     |              | *DOES NOT PENETRATE |
| <b>30-015-10288</b>     | <b>[214263]</b> | <b>PRE-ONGARD WELL OPERATOR</b>              | <b>PRE-ONGARD WELL</b>  | <b>#002</b> | <b>Injection</b> | <b>Federal</b> | <b>P&amp;A-R**</b> | <b>H-28-185-31E</b> | <b>5268'</b> | <b>12/7/1963</b>    |
| 30-015-05626            | [214263]        | PRE-ONGARD WELL OPERATOR                     | PRE-ONGARD WELL         | #001        | Oil              |                | P&A-R              | I-28-185-31E        | 3940*        | 1/1/1900            |
|                         |                 |  |                         |             |                  |                |                    |                     |              | *DOES NOT PENETRATE |
| <i>Section 34 Wells</i> |                 |  |                         |             |                  |                |                    |                     |              |                     |
| <b>30-015-21697</b>     | <b>[265378]</b> | <b>GEORGE A CHASE JR DBA G AND C SERVICE</b> | <b>HINKLE B FEDERAL</b> | <b>#006</b> | <b>Oil</b>       | <b>Federal</b> | <b>Active</b>      | <b>C-34-185-31E</b> | <b>4493'</b> |                     |
|                         |                 |  |                         |             |                  |                |                    |                     |              |                     |
|                         |                 |  |                         |             |                  |                |                    |                     |              |                     |
| 30-015-21613            | [265378]        | GEORGE A CHASE JR DBA G AND C SERVICE        | HINKLE B FEDERAL        | #005        | Oil              | Federal        | Active             | D-34-185-31E        | 3642*        |                     |
|                         |                 |  |                         |             |                  |                |                    |                     |              | *DOES NOT PENETRATE |

**SUMMARY: 15 wells (inc. subject) penetrate proposed disposal interval. 12 P&A'd. \*\*Diagrams included herein.**



e-Permitting  
C-108 Submittal

Attachment Category

Seismicity Analysis

For High Volume Devonian Wells

**(NOT APPLICABLE TO THIS APPLICATION)**

## **C-108 ITEM VII – PROPOSED OPERATION**

The Greenwood Federal No.1 SWD will be operated as a commercial disposal service to area operators to facilitate in disposal of produced water from typical producing formations in the area. Source water will typically be the same as the disposal interval, San Andres and Delaware and samples are included herein.

RWO, Inc. does not believe the proposed SWD will have any adverse impact on its producing operations or the operations of others in the area. There is no San Andres production within one mile. There are 2 other SWDs into the Delaware in the vicinity: the Oxy T-Bone Federal #1 and the Porterhouse State Com #1. The area is well north of the Delaware Mountain Group Risk Assessment area.

The system will be closed utilizing a tank battery facility located on the well site as well as delivery via pipeline.

Injection pressure will be 815 psi with rates limited only by that pressure. A maximum of 5000 bwpd is being requested but average rates are not expected to be greater than approximately 2500 bwpd. In the future, Ray Westall Operating, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request to increase the injection pressure.

Routine maintenance will be ongoing, and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will be available for inspections at any time deemed necessary by OCD.

# **C-108 ITEM XIII – PROOF OF NOTIFICATION**

## IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

Proof of Certified Mailing

Proof of Return Receipts

Affidavit Published Legal Notice