

# 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: 04/29/2022	REVIEWER:	TYPE: SWD	APP NO: pJZT2213254940
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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]

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

SWD-2482

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

#### FOR OCD ONLY

- ☐ Notice Complete
- ☐ 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, NMPPM, 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".

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

<sup>10</sup> Surface Location

UL or lot no. L	Section 27	Township 18S	Range 31E	Lot Idn	Feet from the 1980'	North/South line FSL	Feet from the 660'	East/West line FWL	County Eddy
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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<sup>12</sup> Dedicated Acres n/a	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. SWD pending
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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> 				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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.  Signature <span style="float: right;">4/10/2022</span> Date Ben Stone Printed Name ben@sosconsulting.us E-mail Address
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. April 14, 1978 Date of Survey Signature and Seal of Professional Surveyor:
				John West 676 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.



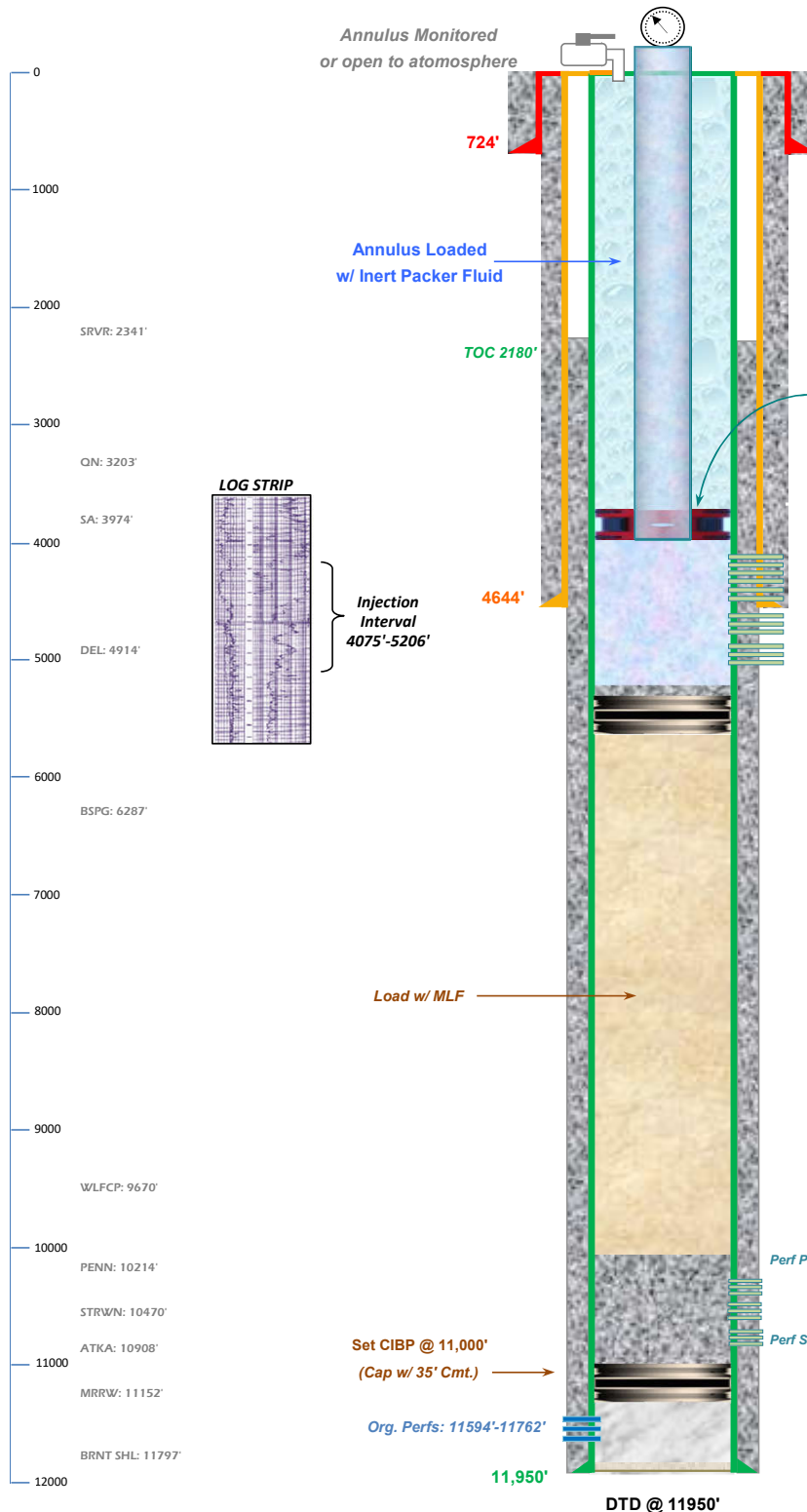
# WELL SCHEMATIC - PROPOSED Greenwood Federal SWD Well No.1

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
<u>Subject Well</u>									
30-015-22601	[119305] RAY WESTALL OPERATING, INC.	GREENWOOD FEDERAL SWD	#001	SWD	Federal	Active	L-27-18S-31E	12220'	
<u>Section 27 Wells</u>									
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		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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. PRINCIPLE FEDERAL 1
2. Name of Operator CHEVRON USA INCORPORATED Contact: NICK GLANN E-Mail: nglann@chevron.com		9. API Well No. 30-015-32616-00-S1
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706	3b. Phone No. (include area code) Ph: 661-599-5062	10. Field and Pool or Exploratory Area SHUGART
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T18S R31E NENW 990FNL 1650FWL		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	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 recomple 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.

2/20-21/19 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' t/ 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' t/ 4441'. Plug #3 75 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 2600' t/ 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' t/ 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' t/ 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

NE

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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 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 \*\* 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.

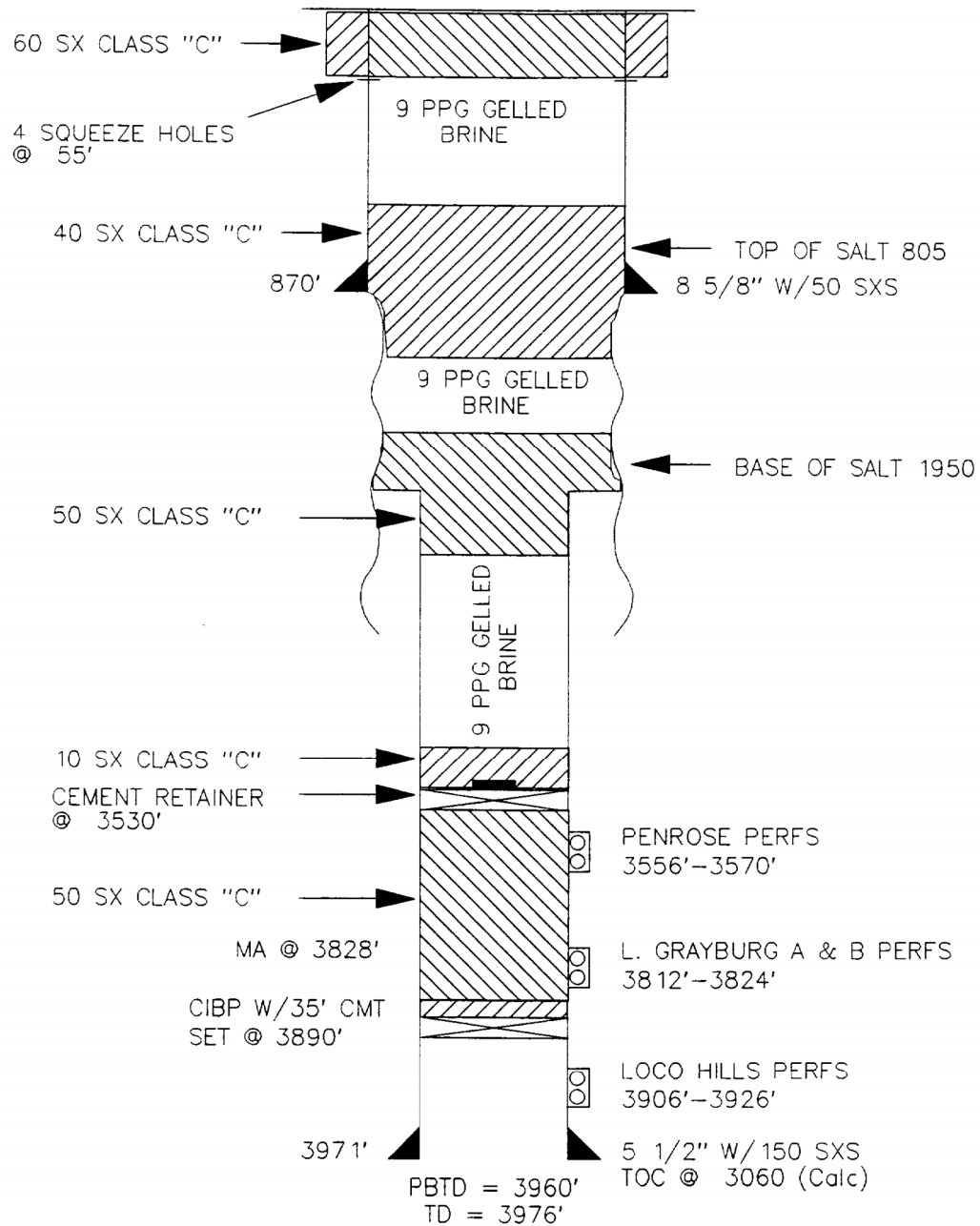
The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed 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

HINKLE F #3  
SHUGART FIELD  
EDDY COUNTY, NEW MEXICO

RSS 12/09/92





# 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'  
Count 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>

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT <b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-5 (APD) for such proposals.		FORM APPROVED OMB NO. 1004-0137 Expires January 31, 2018 5. Lease Serial No. NMLC0293928 6. If Indian, Allottee or Tribe Name
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or C/A Agreement, Name and/or No. 8910029048
2. Name of Operator CHEVRON USA INCORPORATED Contact: HOWE LUCAS E-Mail: howe.lucas@chevron.com		8. Well Name and No. GREENWOOD PREGO 4
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79705		9. API Well No. 30-015-05616-00-S1
3b. Phone No. (include area code) Ph: 832-588-4044		10. Field and Pool or Exploratory Area SHUGART
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T18S R31E N44W 660'FNL 660'FWL		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  <input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<b>RECEIVED</b> <input type="checkbox"/> Acidize <input type="checkbox"/> Alter Casing <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Deepen <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Plug and Abandon <input type="checkbox"/> Plug Back	TYPE OF ACTION <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Reclamation <input type="checkbox"/> Recomplete <input type="checkbox"/> Temporarily Abandon <input type="checkbox"/> Water Shut-Off <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 recomplet horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones 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 342xas Class H cmt from 4992' - 3400' w/ 305sx outside WOC. 4/9/2018 Unable to release pkr. Work stuck pkr w/ WIL. 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 17xas Class C cmt 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 18xas Class C cmt from 1380' - 1100'. Plug #4 - Squeezed 313xas Class C cmt from 1052' - Surface. RD MOL.  The subject well was P&A'd on 4/21/2018		
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 Office for processing by JAMES AMOS on 04/26/2018 (18PP03085E)		
Name (Printed/Typed) HOWE LUCAS Signature (Electronic Submission) Date 04/25/2018		Title ENGINEER
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved By: <b>ACCEPTED</b> 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 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.		JAMES A AMOS Title SUPERVISORY PET Date 04/26/2018 Office Carlsbad
(Instructions on page 2) ** BLM REVISED ** 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



Lease & Well No. Greenwood Federal #2  
 Field Name: Shugart  
 Location: Sec. 17, T18S, R31E

Status: Active  
 County & State: Eddy County, NM  
 API No.: 30-015-90680

#### Well Information

Spud: 9/29/99 Ground Elevation: \_\_\_\_\_ D.F. Elevation: \_\_\_\_\_  
 Completed: 11/23/99 KB Elevation: \_\_\_\_\_ Total Depth: 12,000'

#### Pipe Data

Surface	Hole size	Depth	Size (OD)	Weight	Grade	Ss. Cmt	Comments
	17-1/2"	509'	13-3/8"	48.0#		470 sx	CTS
Intermediate	Hole size	Depth	Size (OD)	Weight	Grade	Ss. Cmt	Comments
	11"	2,809'	8-5/8"	32.0#		655 sx	CTS
Production	Hole size	Depth	Size (OD)	Weight	Grade	Ss. Cmt	Comments
	7 7/8"	12,000'	5-1/2"	17#		150 sx	TOT @ 9640'

#### Downhole Tubular (Top to Bottom)

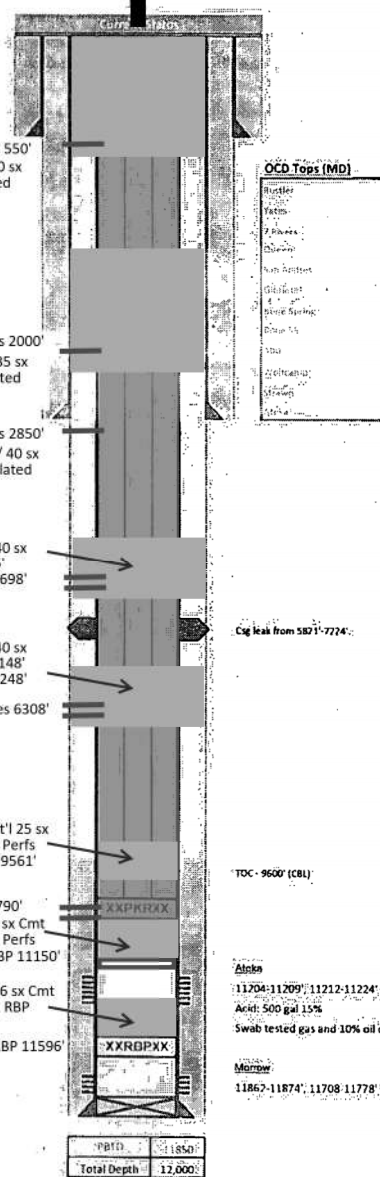
5 1/2" x 7-7/8" tag @ 11700'  
 11" x 2-7/8" tag @ 11700'  
 3 1/2" x 2-7/8" tag @ 11700'  
 2-7/8" x 5-1/2" @ 11016'

#### Well History

8/29/1999 Spud well and drill/complete in the Morrow. TD well @ 12000'  
 7/15/1999 Perf 11862'-74' and 11708'-78'.  
 5/23/2010 RBP set above Morrow after casing leak stopped production in Morrow.  
 Leak identified between 6020'-6051'.  
 Unable to pump into leak. Well TA'd.  
 4/1/2013 Rigged up on well to recomplete to the Aloka formation.  
 Leak identified between 5821'-7224'. Unable to pump into leak.  
 5/13/2013 Perf 11204'-11209' and 11212'-11224' and acid w/ 2500 gal 7.5% HCl.  
 Swab tested well for 1 week and settled at a 10% oil cut and gas production.

#### Procedures

#### P&A Marker Set



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.  
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 NWNW 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 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 shall 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 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 AFMSS 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 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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***



MERIT ENERGY COMPANY

## Job Daily Summary

Support Line: 972-628-1700 #1

Report Date:

Well Name: Greenwood Fed 02

Report #

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

Job Category Plug & Abandon	Primary Job Type Permanently Abandon Well	Job Start Date 8/5/2014	Job End Date	
Daily Operations				
Report Start Date 8/5/2014	Primary Activity minu	AFE Number	Daily Field Est Total (Cost) 5,660.00	Cum Field Est To Date (Cost) 5,660.00
Operations Summary minu pulling spot equipment				
Report Start Date 8/6/2014	Primary Activity pooh	AFE Number	Daily Field Est Total (Cost) 7,575.00	Cum Field Est To Date (Cost) 13,235.00
Operations Summary crew to location unset pkr pooh w/ pipe 180 jts out secure well sion				
Report Start Date 8/7/2014	Primary Activity set cbbp	AFE Number	Daily Field Est Total (Cost) 6,597.00	Cum Field Est To Date (Cost) 19,832.00
Operations Summary 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 set cbbp @ 11150 rd wireline rih with pipe to ( tag up) on cbbp total of pipe in well 240  secure sion				
Report Start Date 8/8/2014	Primary Activity tagged up/ circulate mud	AFE Number	Daily Field Est Total (Cost) 6,905.00	Cum Field Est To Date (Cost) 26,737.00
Operations Summary crew to location rih w/ remainder of pipe tagged up @ (11150) circulate hole 9.5 # mud 268 bls spot 60 sx class h displace 41 bls 9.5 mud cloc 10606 roh w 2 3/8 tbg 42 jts in well secure siowe				
Report Start Date 8/11/2014	Primary Activity perforate	AFE Number	Daily Field Est Total (Cost) 5,850.00	Cum Field Est To Date (Cost) 32,587.00
Operations Summary 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				
Report Start Date 8/12/2014	Primary Activity spot cement	AFE Number	Daily Field Est Total (Cost) 4,165.00	Cum Field Est To Date (Cost) 36,752.00
Operations Summary 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 set to tag toc a.m.				
Report Start Date 8/13/2014	Primary Activity spot cement	AFE Number	Daily Field Est Total (Cost) 5,732.50	Cum Field Est To Date (Cost) 42,484.50
Operations Summary 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				
Report Start Date 8/14/2014	Primary Activity perf cement	AFE Number	Daily Field Est Total (Cost) 7,730.00	Cum Field Est To Date (Cost) 50,214.50
Operations Summary 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 lay dn 14 jts @ 5509 spot 40 soc pooh 17 stds secure well sion				
Report Start Date 8/15/2014	Primary Activity perf squeeze	AFE Number	Daily Field Est Total (Cost) 5,090.00	Cum Field Est To Date (Cost) 55,304.50
Operations Summary 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 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 siowe				
Report Start Date 8/18/2014	Primary Activity perf sqz	AFE Number	Daily Field Est Total (Cost) 5,535.00	Cum Field Est To Date (Cost) 60,839.50
Operations Summary crew to location bleed dn well 0 psi release pkr roh rd 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/ 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				
Report Start Date 8/19/2014	Primary Activity rdmo	AFE Number	Daily Field Est Total (Cost) 5,625.00	Cum Field Est To Date (Cost) 66,464.50
Operations Summary crew to location bleed dn well release pkr pooh rih tag @ 749 pooh rih w/ w/ perf @ 550 roh rd w/ 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				
final report				

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

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

BOS @ 1970'

Dr 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 Sx  
 (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 840'-650'  
 woc + Tag

(Proposed)  
 Perf. & Attempt to Sqz  
 2125-1920 40 Sx plug @ 1995'  
 It unable to Est.  
 Rate TTH 2175'  
 Spot 25 Sx plug  
 2175

Penrose Perfs

3548'-68'  
 3608'-14'  
 3808'-16'

Grayburg Perfs

3898'-22'



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.**

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		5. Lease Serial No. LC02932B
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator Momentum Operating Co., Inc.		7. If Unit of CA/Agreement, Name and/or No.
3a. Address P.O. Box 2439 Albany, Texas	3b. Phone No. (include area code) 325-762-3331	8. Well Name and No. Hinkle F #10
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 330 FNL & 330 FWL S27, T18S, R31E		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 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 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 IN SUBJECT  
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 <i>Ted Tidwell</i>	Date 1-31-2017

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

Approved by <i>James G. Davis</i>	Title <i>SAET</i>	Date <i>2-13-17</i>
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 <i>CFO</i>	

Title 48 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

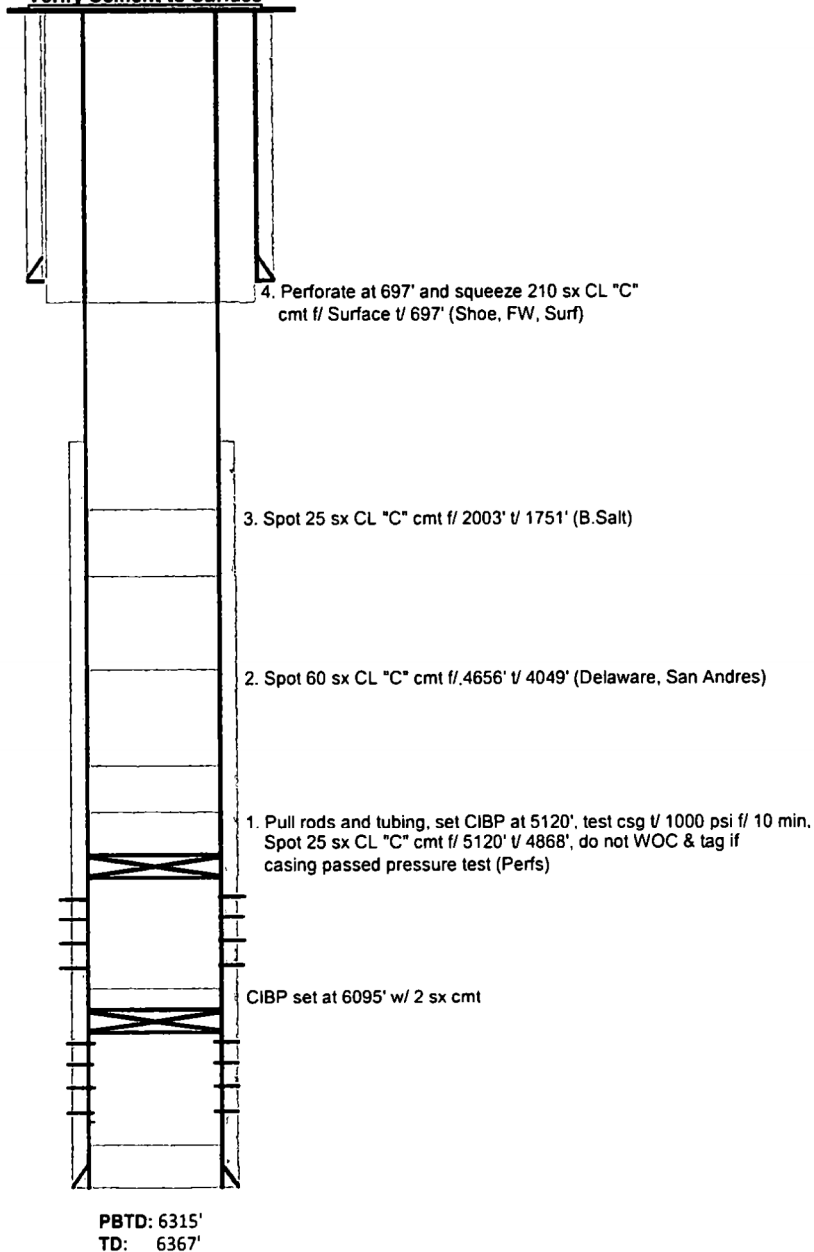
Formation	TD, ft
	Top
Rustler	620
Salado	851
Base of Salt	1,953
Bowers Sand	3,020
San Andres	4,162
Delaware	4,606

Perfs 5173'-5268'

Perfs 6140'-6222'

**Proposed**  
**Wellbore Diagram**

**Verify Cement to Surface**



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

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
PRINCIPLE FEDERAL 4

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: HOWIE LUCAS

E-Mail: howie.lucas@chevron.com

9. API Well No.  
30-015-32894-00-S1

3a. Address

6301 DEAUVILLE BLVD  
MIDLAND, TX 79706

3b. Phone No. (include area code)

Ph: 832-588-4044

10. Field and Pool or Exploratory Area  
SHUGART

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

Sec 27 T18S R31E SWNW 1920FNL 660FWL

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	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&amp;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 - NMOCDRECLAMATION PROCEDURE  
ATTACHEDRECLAMATION  
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

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

MAR 20 2019

Approved By

Title

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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 \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* 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

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

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

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 @ 4777'

**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	Length	Weight	Depth	Weight	Depth
Tubing - Production	502' 00"	4,711.00	4,711.00	4,711.00	4,711.00
Tubing - Anchor	155'	2,348	4,701.55	4,556.30	4,556.30
Tubing	1	4 1/2	4,701.55	2.75	4,558.3
Anchor/Connector	1	2 3/8	4,701.55	128.25	4,586.3
Pump Sealing/Nipple	1	2 3/8		1.10	4,588.4
Pert Sub	1	2 3/8		4.10	4,590.8
Tubing	1	2 3/8	4,701.55	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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**5. Lease Serial No.  
NMLC029392B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
HINKLE FEDERAL 19. API Well No.  
30-015-1011110. Field and Pool, or Exploratory  
SHUGART DELAWARE11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHEVRON USA INC

Contact: CINDY H MURILLO

E-Mail: CHERRERAMURILLO@CHEVRON.COM

3a. Address

15 SMITH RD  
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 575-263-0431  
Fx: 575-391-6679

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

Sec 27 T18S R31E 1650FNL 660FWL

## 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 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 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.

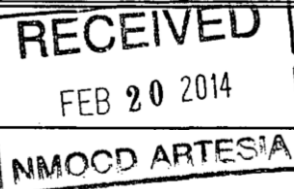
Electronic Submission #234671 verified by the BLM Well Information System  
For CHEVRON USA INC, sent to the Carlsbad

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

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 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 7-5-14Accepted 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 @  
1020' Cemented  
w/ 420 SX Circulated

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

-1964-  
CIBP set @  
3960'

1 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'

Perforase  
Perfs @  
3534' - 66'

Perforase  
Perfs @  
3710' - 32'

Perforase  
Perfs @  
3820' - 10'

Perforase  
Perfs @  
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

## 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.  
LC029392B

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

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

8. Well Name and No.  
Hinkle F #19. API Well No.  
30-015-0561710. 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 &amp; 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

- ☐ Notice of Intent
- ☒ Subsequent Report
- ☐ Final Abandonment Notice

## TYPE OF ACTION

- |   |  |  |   |
|---|--|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen                      | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing        | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <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 determined 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

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

Ted Tidwell

Title Operations

Signature

Date 1-31-2017

## THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

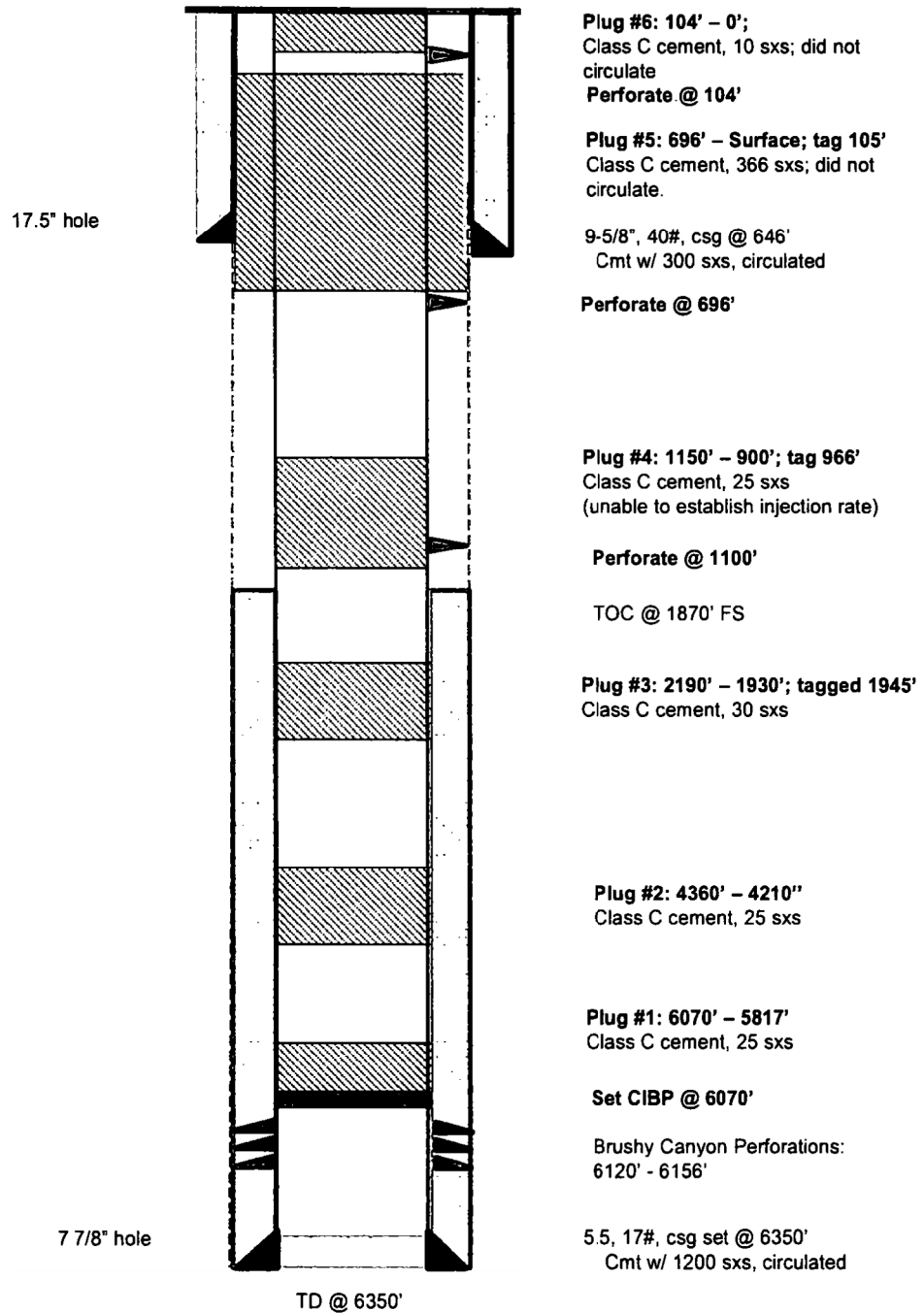
Office

CFO

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**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.

**P&A Plug 6:**  
**Perforate 60'**  
**Circ 15 sks to**  
**surface**

**P&A Plug 5:**  
**Perforate 719'**  
**50 sks 719 – 619**

**P&A Plug 4:**  
**Perforate 2543'**  
**50 sks 2543 – 2423**

**P&A Plug 3:**  
**Perforate 4350'**  
**80 sks 4350 – 4065**

**P&A Plug 2:**  
**25 sks 6166 – 6326**

**P&A Plug 1:**  
**CIBP 8048'**  
**30 sks 8048 -- 7868**

Proposed P&amp;A

PBD @ 9745'

TD @ 9976'

8148' – 8184' 2 spf

9804' – 9816' 1 spf

## WELL DATA SHEET

lease PAN AMERICAN GREENWOOD UNIT No. 9

Well No. 9

location 2310 FSL 660 FW/L

County

State

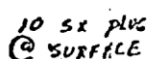
Elevation 3629

## Formation

Date Completed 1-28-64

**Field**

Initial Potential DRY



2 5/8" csc SET.  
@ 629' 350 SY  
CMT.

25 ex plug 679-579

25 3x plug - From  
2000 - 1900'

50 SX PLUG FROM  
4000-3800

25 SX PLUG FROM  
5050-4950

### WELL HISTORY

[illegible]

Src Lease Number

Src Working Interest -

**Src Net Revenue Interest**

## Crude Oil Classification

### Gas Classification

**Gas Price**

T.D. 5120 PBTB

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

SUBMIT IN THE  
(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:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Re-entered & replug

(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 tbgs. to 3410'. Spot 80 sx. plug.

10-26-79 Ran tbgs. Tag plug @ 3250'. Pull tubing to 2444'. Spot 200 sx. plug. Wait 4 hrs. Ran tbgs. & tag plug @ 1435'. Pull tbgs. 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 11/27/79 - Wdr. and to 520

RECEIVED

NOV 1 1979

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED

TITLE

District Engineer

DATE

10-29-79

(This space for Federal or State office use)

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

NOV 1 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>

P&A Marker

G.L. 3623'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Spot 16 sxs  
50'-0'

Spot 33 sx  
750'-650'  
(8.625" Csg shoe)

701'

Spot 30 sx  
1848'-1746'

5.5" Shot & Pulled @ 1830'

Load hole w/  
Plugging Mud

Spot 45 sxs  
4816'-4736'

5197'

TD @ 5200'

### Surface Casing

8.625", 24.0# csg. (11.0" Hole) @ 701'

325 sx ('C') - Calculated to Surface

Not reported

### <P&A SUBSEQUENT SUNDRY>

Form 8-581a  
7-60-1964  
**APPROVED**  
MAR 25 1964  
RONNIE E. SHOOK  
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4  
Form Approved.

Land Office

Lease No. **MM-055776-A**

Unit

### 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 1/4, NW 1/4, Sec 28 18-S 31-E N47W  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Sagart (Field) (County or Subdivisions) New Mexico (State or Territory)

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

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudline; indicate casing points, and all other important proposed 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

GPO 814974

### Production (Int.) Casing

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

TOC Calculated to 1805'

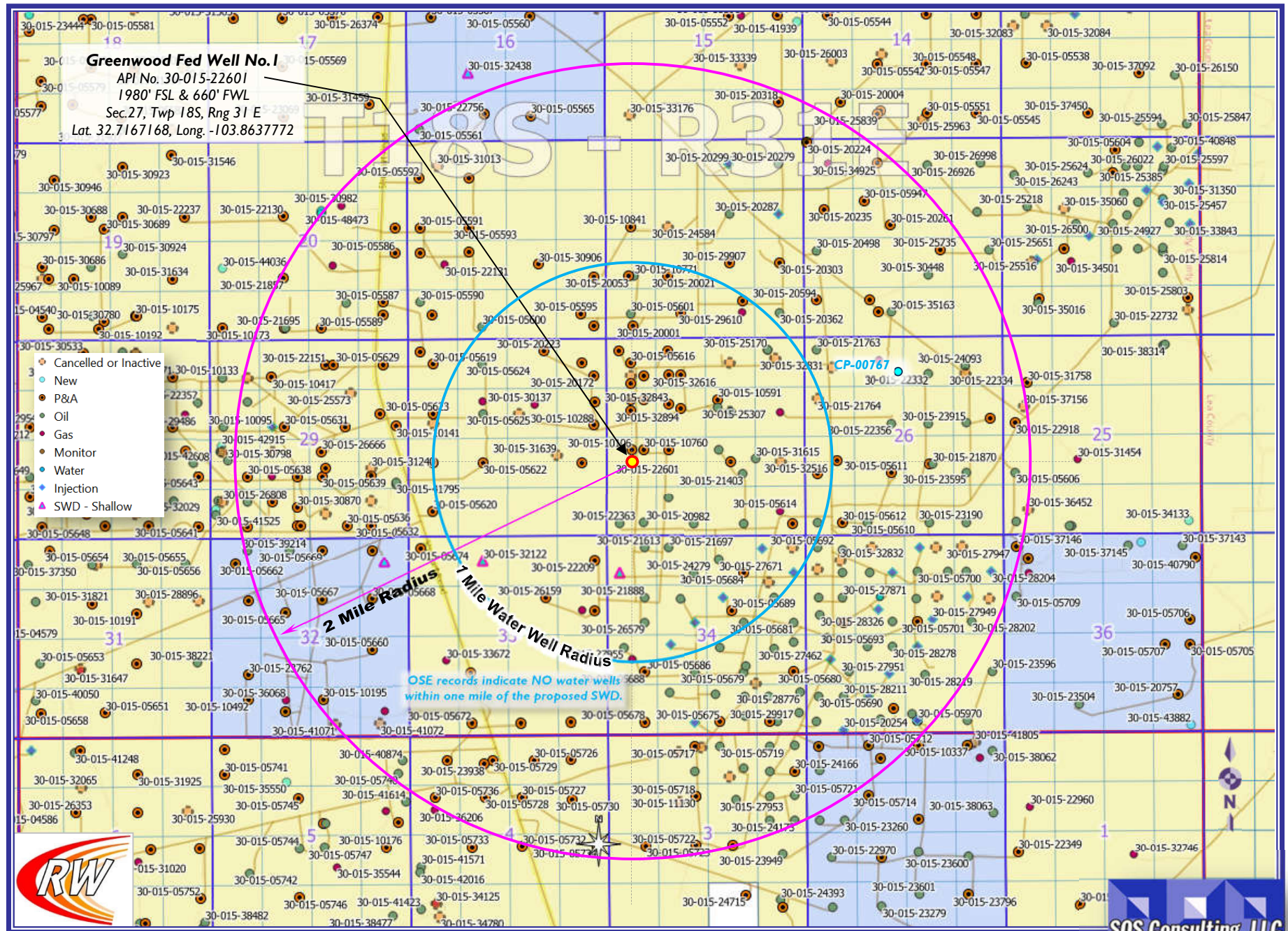
Drawn by: Ben Stone, 4/15/2022

**SOS Consulting, LLC**



# Greenwood Federal Well No.1 SWD - Area of Review - 2 Miles

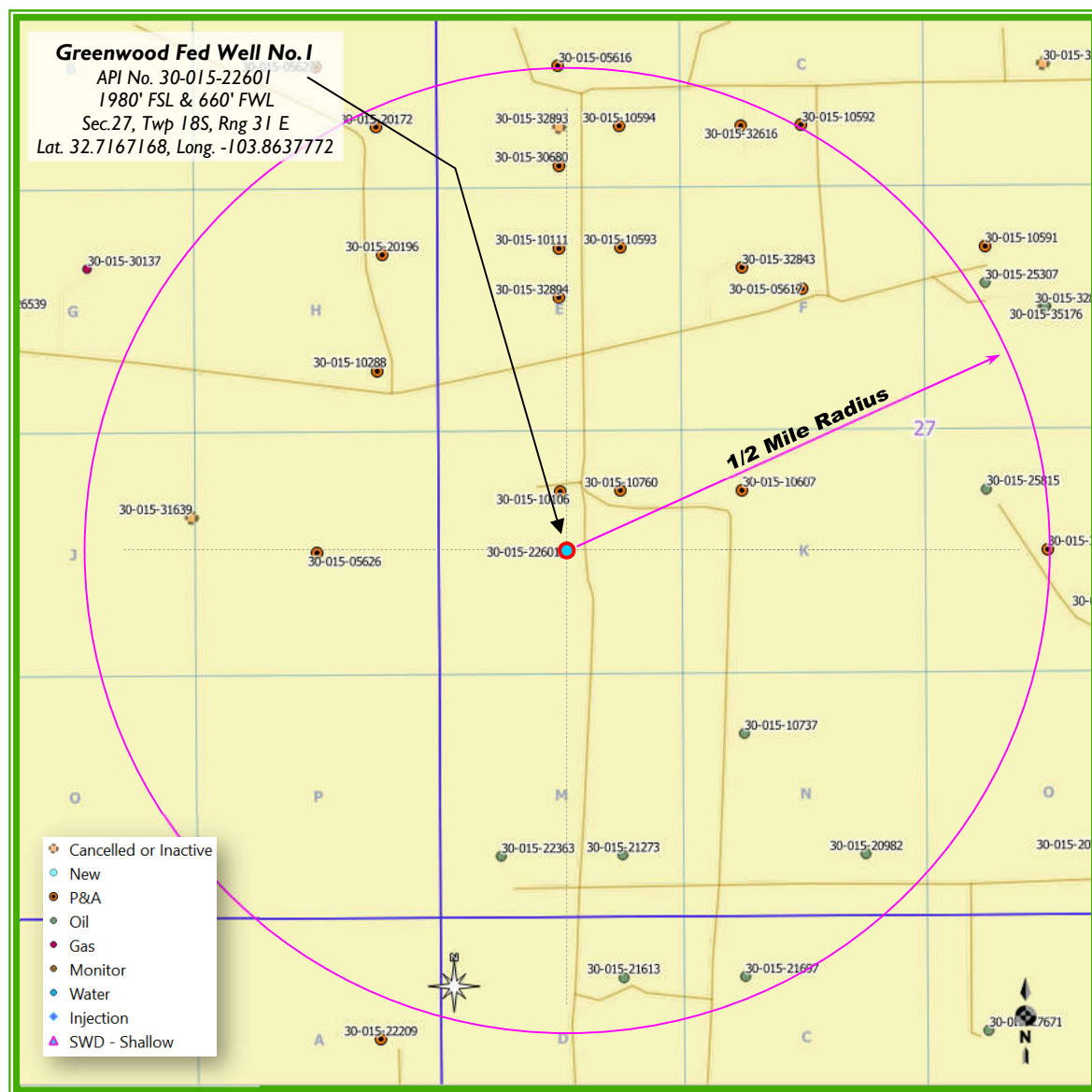
(Attachment to NMOCD Form C-108 - Item V)



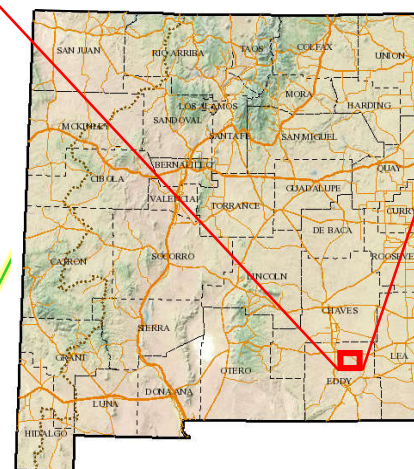
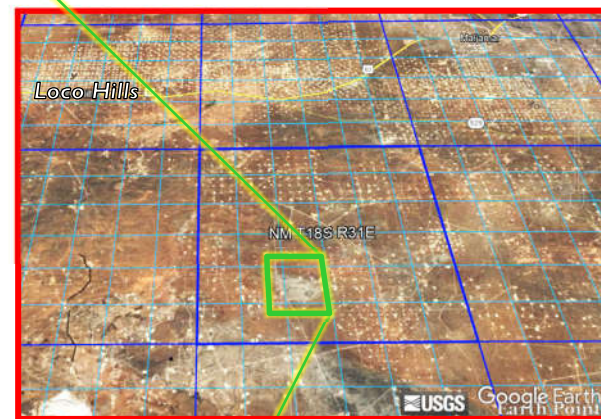


# Greenwood Fed Well No.1 SWD - Area of Review / Overview Map

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



9.1 miles southeast of Loco Hills, NM



Eddy County, New Mexico



RAY WESTALL OPERATING, INC.



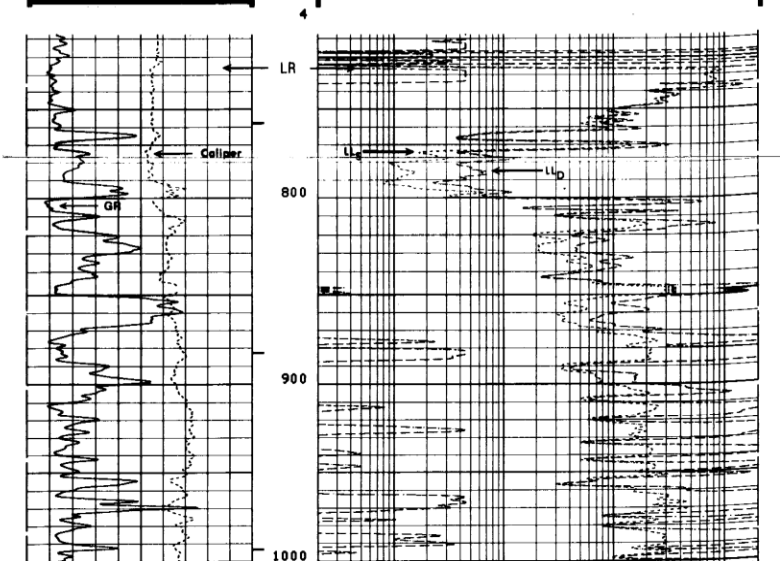
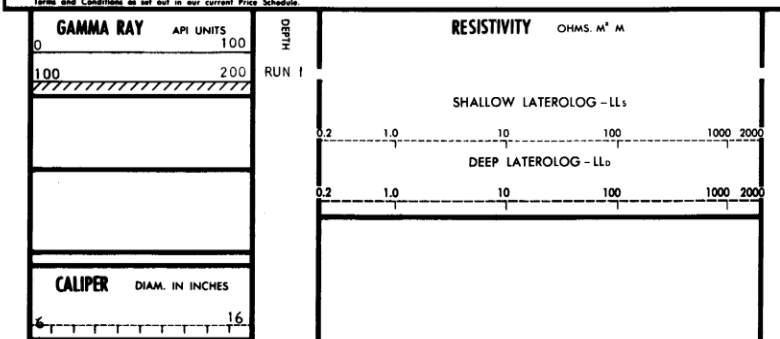
**C-108 ITEM X – LOGS  
and AVAILABLE TEST DATA**

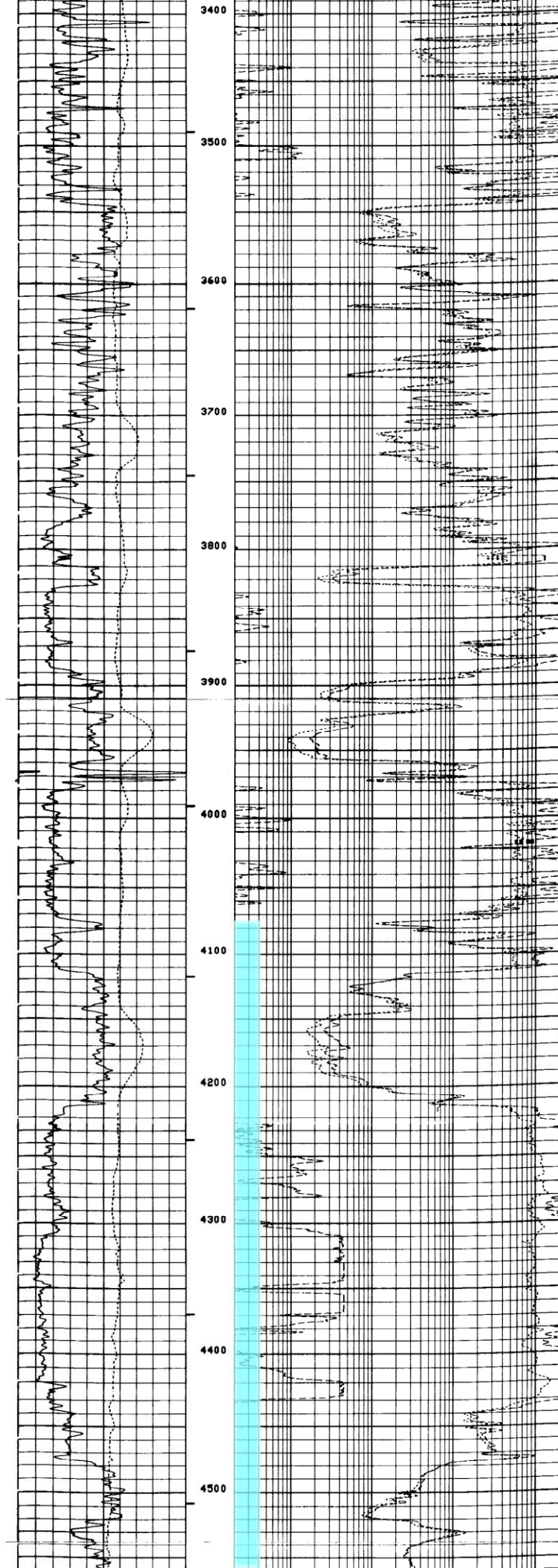
A Log Strip from the Subject Well Covering  
the Zone of Interest with Annotations is Attached.

**LOG STRIP FOLLOWS**

<b>EDDY</b> <b>SHUGART</b>		<b>COMPANY</b> AMOCO PRODUCTION COMPANY <b>WELL</b> GREENWOOD UNIT FED. <b>FIELD</b> SHUGART <b>COUNTY</b> EDDY <b>STATE</b> NEW MEXICO	
<b>LOCATION</b> #10 <b>COMPANY</b> AMOCO PROD. CO.		<b>APL #</b> 30-015-22601 <b>WELL</b> GREENWOOD FEDERAL UNIT #10 <b>FIELD</b> SHUGART <b>COUNTY</b> EDDY <b>STATE</b> NEW MEXICO	
<b>DATE</b> 12-20-78 <b>TIME</b> 2-5-79 <b>DRILLING</b> 15 ft. Above Perm. Basin <b>LOGGING</b> 15 ft. Above Perm. Basin		<b>LOGGING</b> 15 ft. Above Perm. Basin <b>LOGGING</b> 15 ft. Above Perm. Basin	
<b>LOGGING</b> 15 ft. Above Perm. Basin <b>LOGGING</b> 15 ft. Above Perm. Basin		<b>LOGGING</b> 15 ft. Above Perm. Basin <b>LOGGING</b> 15 ft. Above Perm. Basin	

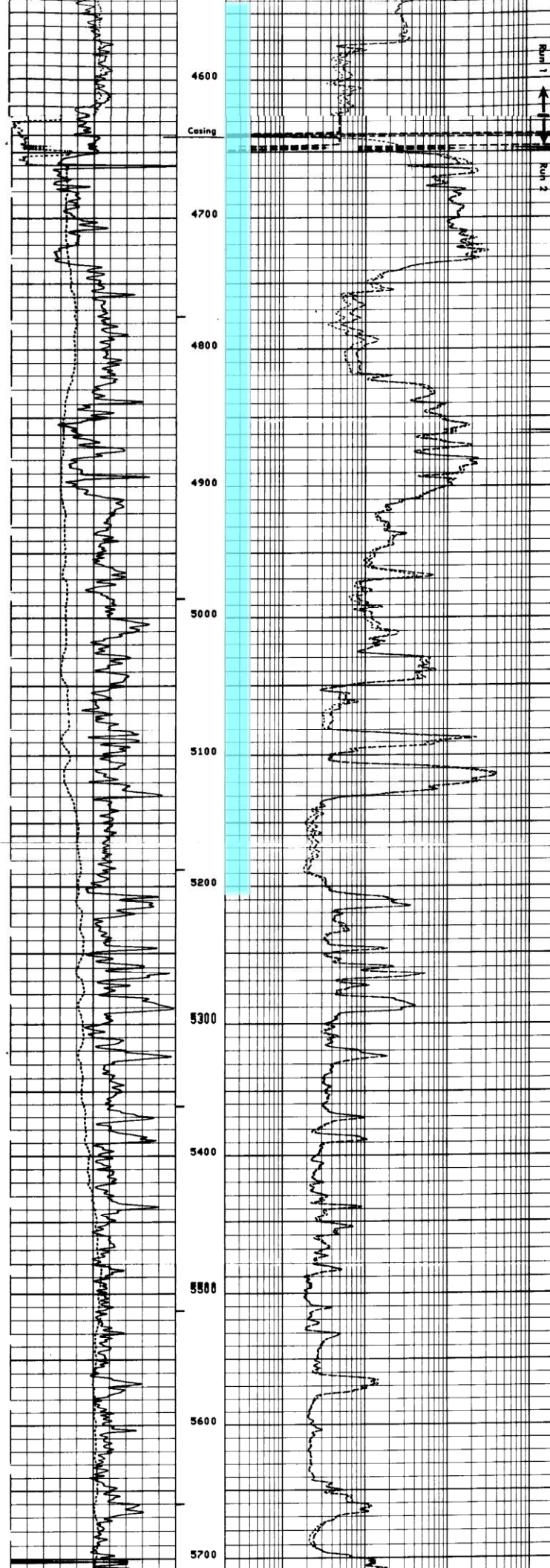
<b>Run No.</b> ONE TWO <b>Service Order No.</b> 59458 <b>Fluid Level</b> FULL <b>Salinity, PPM CL</b> 195000 (60000/MIN. REPORT)		<b>SCALE CHANGES</b> Type Log Depth Scale Up Hole Scale Down Hole	
<b>EQUIPMENT DATA</b> Panel (DLP) 754 805 Panel (SRP) 729 Cartridge (DLC) 940 Cartridge (SRE) 826 118 Sonde (DLS) 987 Sonde (SRS) 944 Lower Electrode (DLE) Memorizer Panel Tape Recorder (TTR) Depth Encoder (DRE) Pressure Wheel (CPW) Centralizers: Enter Spring, Standoffs, In-line, or None		*CENTERLINE OF 2" BRADENHEAD OUTLET **RUN 1 TYPE - CME-2 & CALIPER RUN 2 - REPEAT SECTION TO T.D. MAIN SURVEY DID NOT GO TO BOTTOM AT CUSTOMER'S REQUEST.	
<b>CALIBRATION DATA</b> GR BKG. CPS 25 30 Source CPS 190 210		<b>LOGGING DATA</b> GR Sensitivity 165 165 Scale -100 Div. 100 100 T. C. - sec 40 50	
<b>BOTTOM HOLE TEMPERATURE</b> Time Entering Hole 1130 Time Bottom Reached 1200 Time Last Off Bottom 1230 Time Out of Hole 1500 Distance TD to Therm. 99 Thermometer #1 96 °F Thermometer #2 °F Thermometer #3 °F		<b>RW FROM DRILL STEM TEST</b> DST #1 - Rw @ 100' 0M DST #2 - Rw @ 100' 0M	





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>Sample ID</b>	1985
<b>Well Name</b>	FED UNION	<b>Sample No</b>	
	001		
<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	<b>Unit</b>	O
<b>Sample Date</b>	11/29/1954	<b>Analysis Date</b>	
	<b>Sample Source</b> DST	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
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	
<b>Remarks</b>			

(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>Sample ID</b>	7079
<b>Well Name</b>	GREENWOOD PRE-GRAYBURG 004	<b>Sample No</b>	
<b>Location</b>	ULSTR 27 18 S 31 E 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)

---

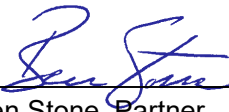
No PODs found.

PLSS Search:

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

## **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

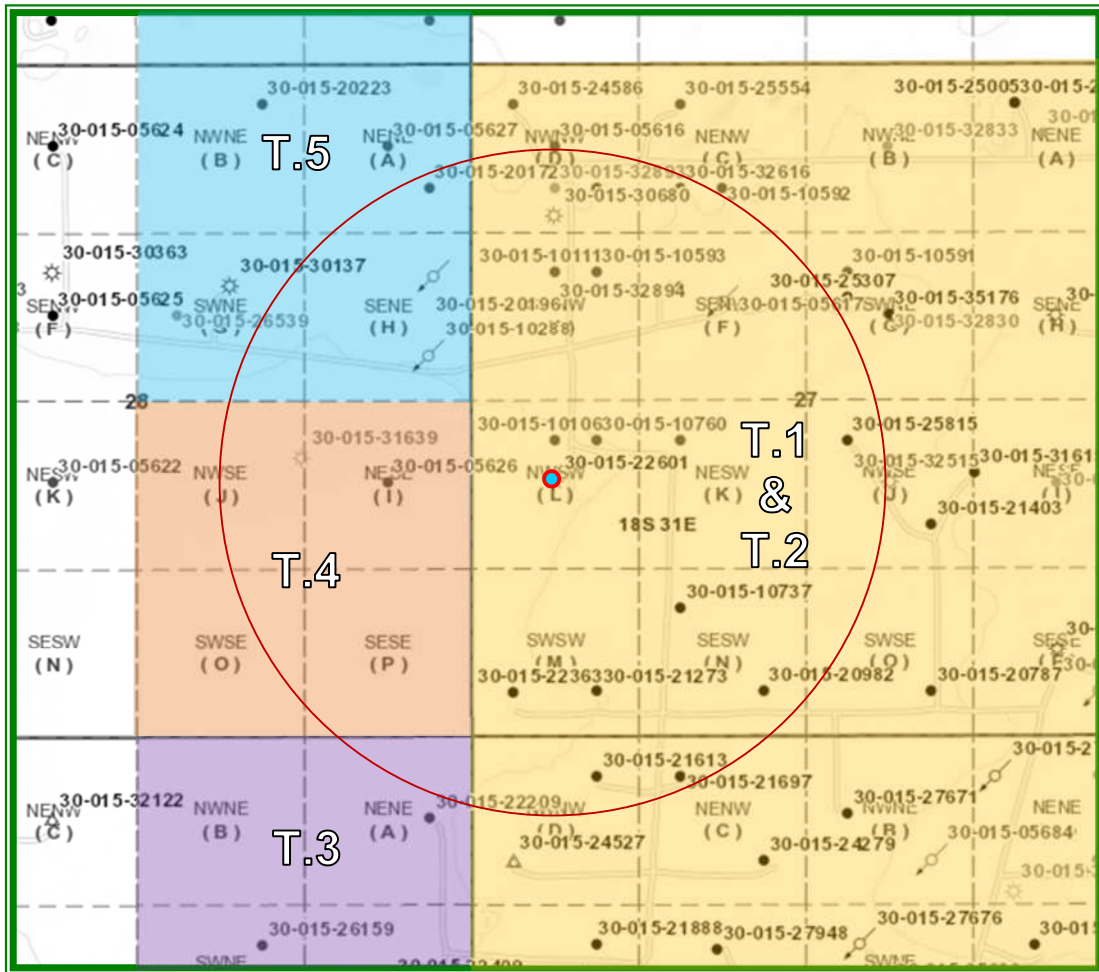
Proof of Certified Mailing

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

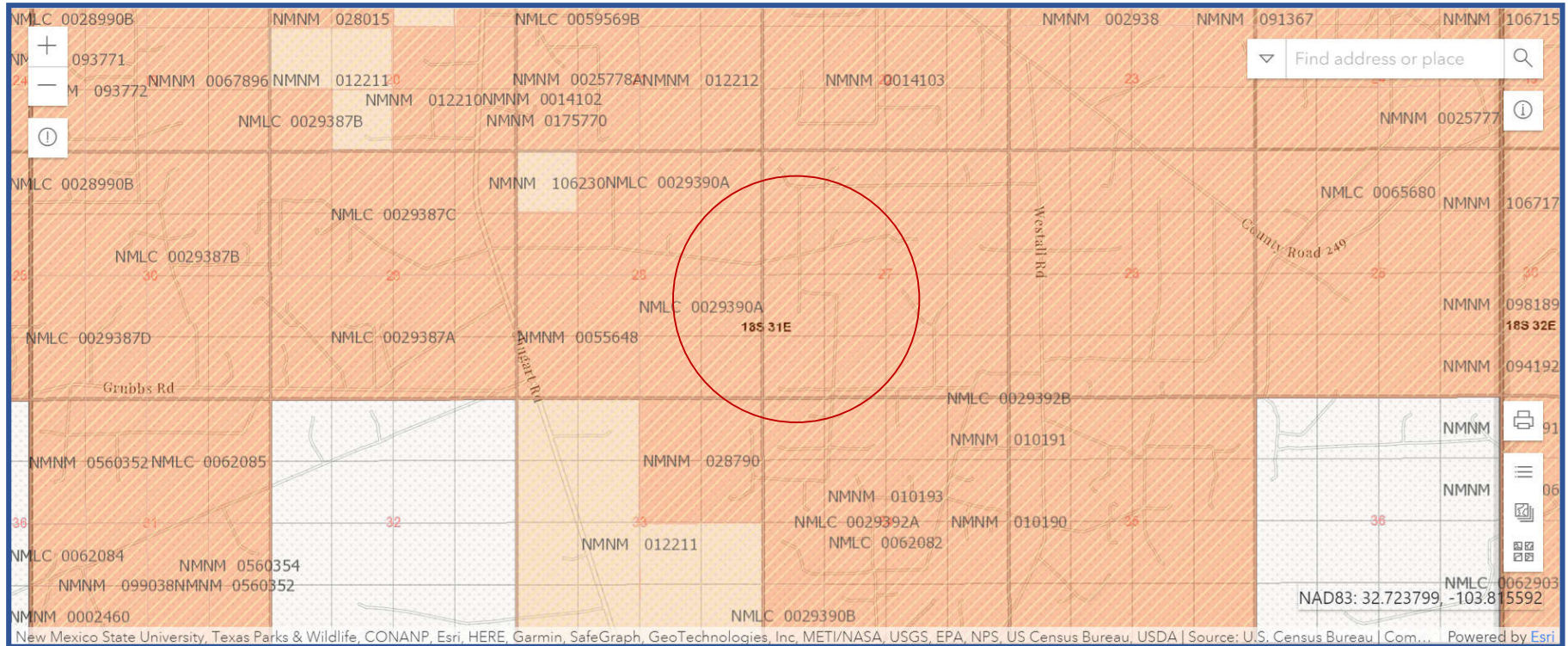
- T.1 – NMLC-0029392B – HBP - Ray Westall Operating, Chevron USA, Inc., George A. Chase, Jr.
- T.2 – NMNM-010191 – HBP – Ray Westall Operating, Judah Oil, KP Kauffman Company, others
- T.3 – NMNM-028790 – HBP – Legacy Reserves Operating, LP
- T.4 – NMLC-0029390A – HBP – Devon Energy Prod. Company LG&S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

## Proof of Notice - Certified Mail Receipts

4272 9E28 0000 0E77 8702

2018 1130 0000 8738 2131

7018 1130 0000 8738 2148

2018 1130 0000 8738 2155



# C-108 – Item XIV

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

7018 1130 0000 8738 2162

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
OFFICIAL USE	
Certified Mail Fee \$	3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$
<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.	KP KAUFFMAN COMPANY, INC.
City, State, ZIP	1675 Broadway, 28th Fl. Denver, CO 80202
PS Form 380	

7018 1130 0000 8738 2333

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
OFFICIAL USE	
Certified Mail Fee \$	3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$
<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.	LEGACY RESERVES OPER CO
City, State, ZIP	15 Smith Rd., Ste.3000 Midland, TX 79705
PS Form 380	

7018 1130 0000 8738 2162

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
OFFICIAL USE	
Certified Mail Fee \$	3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$
<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	

7018 1130 0000 8738 2162

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
OFFICIAL USE	
Certified Mail Fee \$	3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$
<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.	LG&S OIL COMPANY
City, State, ZIP	P.O. Box 1081 Lovington, NM 88260
PS Form 380	

**Track Another Package +**

**BUREAU OF LAND MANAGEMENT**

**Tracking Number:** 70181130000087382124

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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.

**USPS Tracking Plus<sup>®</sup> Available** ✓

✓ **Delivered, Left with Individual**

April 11, 2022 at 4:14 pm  
CARLSBAD, NM 88220

**Get Updates** ✓

**See More** ✓

**GEORGE A. CHASE dba G AND C SERVICE COMPANY**

**Tracking Number:** 70181130000087382148

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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.

**USPS Tracking Plus<sup>®</sup> Available** ✓

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

April 11, 2022 at 12:07 pm  
ARTESIA, NM 88210

**Get Updates** ✓

**See More** ✓

**JUDAH OIL COMPANY**

**Tracking Number:** 70181130000087382155

Remove ✕

Your item was picked up at the post office at 10:17 am on April 12, 2022 in ARTESIA, NM 88210.

**USPS Tracking Plus® Available** ✓

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

April 12, 2022 at 10:17 am  
ARTESIA, NM 88210

**Get Updates** ✓

**See More** ✓

**KP KAUFFMAN COMPANY**

**Tracking Number:** 70181130000087382162

Remove ✕

Your item was delivered to the front desk, reception area, or mail room at 3:53 pm on April 18, 2022 in DENVER, CO 80203.

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

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DENVER, CO 80203

**Get Updates** ✓

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Remove X

Tracking Number: 70181130000087382193

Your item was picked up at the post office at 2:10 pm on April 18, 2022 in LOVINGTON, NM 88260.

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: 70181130000087382339

Remove X

Status

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.

Delivered, Front Desk/Reception/Mail Room

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

USPS Tracking Plus® Available ✓

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

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.

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, info@sosconsulting.us.

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



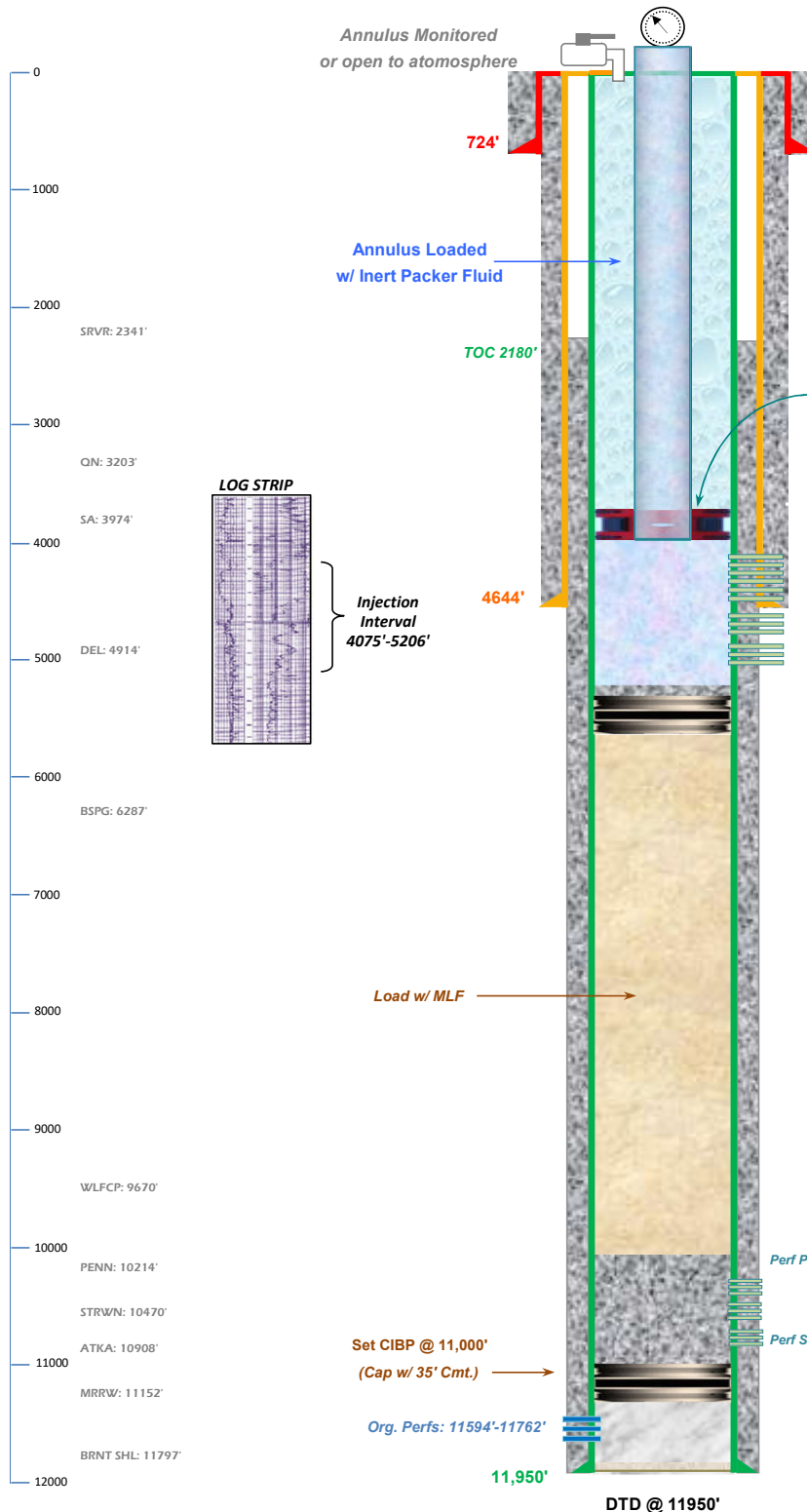
# WELL SCHEMATIC - PROPOSED Greenwood Federal SWD Well No.1

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: 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



## **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 30-015-22601		<sup>2</sup> Pool Code 96125		<sup>3</sup> Pool Name SWD; San Andres-Delaware	
<sup>4</sup> Property Code TBD		<sup>5</sup> Property Name Greenwood Federal			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 119305		<sup>8</sup> Operator Name Ray Westall Operating, Inc.			<sup>9</sup> Elevation 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 n/a	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. 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> 				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> <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>  Signature Date 4/10/2022 Ben Stone Printed Name ben@sosconsulting.us E-mail Address
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <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> April 14, 1978 Date of Survey Signature and Seal of Professional Surveyor:
				John West 676 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
<u>Subject Well</u>									
30-015-22601	[119305] RAY WESTALL OPERATING, INC.	GREENWOOD FEDERAL SWD	#001	SWD	Federal	Active	L-27-18S-31E	12220'	
<u>Section 27 Wells</u>									
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		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  
NCD Artesia  
APR 01 2019

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

DISTRICT II-ARTESIA O.D.D.

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

2/20-21/19 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' t/ 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' t/ 4441'. Plug #3 75 sxs (1.32 yield, 14.8ppg) Class C cmt f/ 2600' t/ 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' t/ 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' t/ 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

Approved By _____	Title _____	Date MAR 8 2019
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 \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* 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.

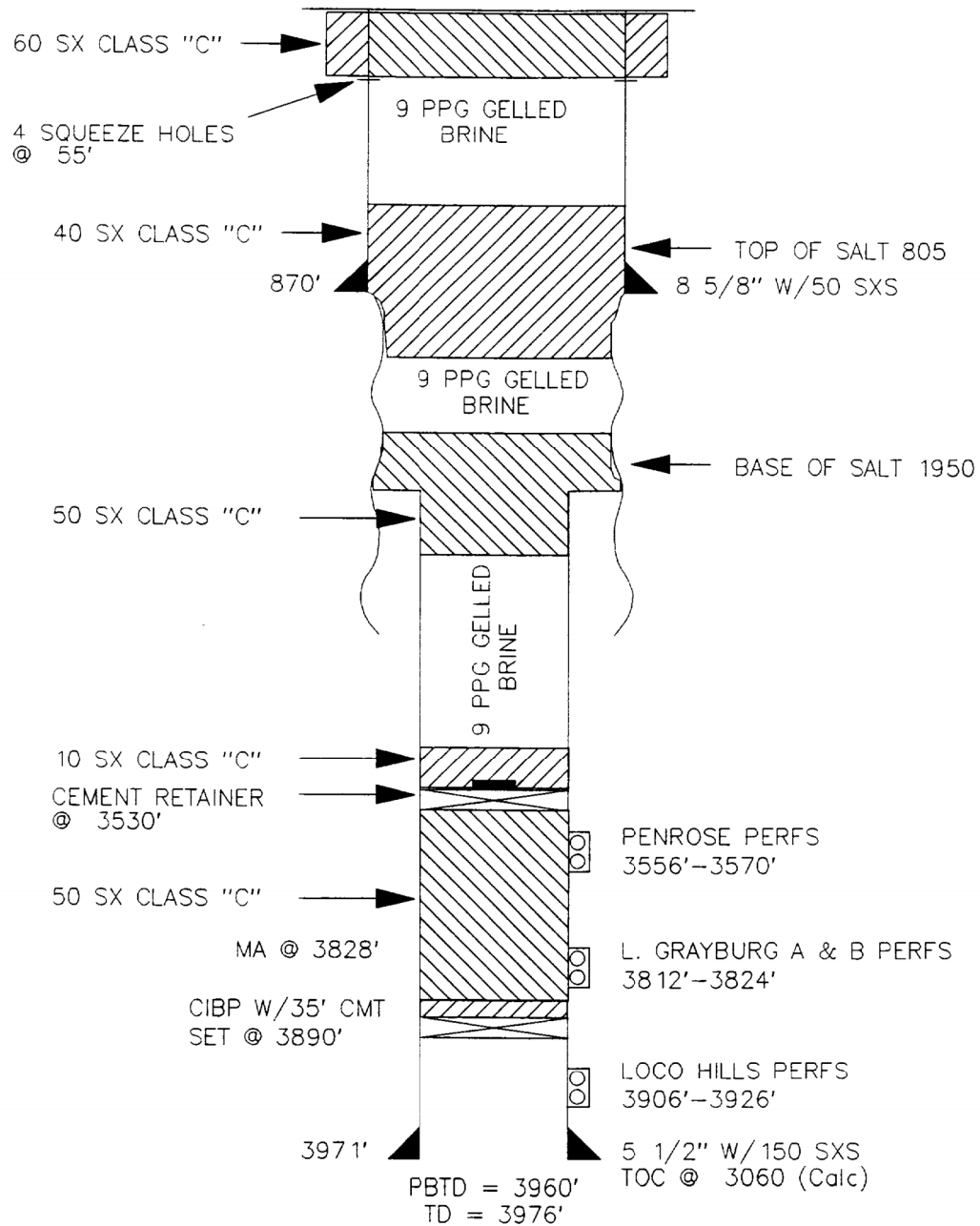
The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed 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

HINKLE F #3  
SHUGART FIELD  
EDDY COUNTY, NEW MEXICO

RSS 12/09/92



# 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>

### PLUGS:

Sqz w/ 313 sx  
1052'- Surface

Shoot Sqz Perfs 1052'  
Establish Rate

Spot 18 sx 1380'-1100'

Shoot Sqz Perfs 1340'  
Count Not Pump In

Spot 72 sx  
2400'-1358'

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

P&A Marker G.L. 3655'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

### Surface Casing

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

<P&A SUBSEQUENT SUNDRY>

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT <b>SUNDRY NOTICES AND REPORTS ON WELLS</b> Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-5 (APD) for such proposals.		FORM APPROVED OMB NO. 1004-0137 Expires January 31, 2018 5. Lease Serial No. NMLC0293928 6. If Indian, Allottee or Tribe Name
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or C/A Agreement, Name and/or No. 8910029048
2. Name of Operator CHEVRON USA INCORPORATED Contact: HOWE LUCAS E-Mail: howe.lucas@chevron.com		8. Well Name and No. GREENWOOD PRIEB 4
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79705		9. API Well No. 30-015-05616-00-S1
3b. Phone No. (include area code) Ph: 832-588-4044		10. Field and Pool or Exploratory Area SHUGART
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T18S R31E NWNW 660FNL 660FWL		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  <input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<b>RECEIVED</b> <input type="checkbox"/> Acidize <input type="checkbox"/> Alter Casing <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Deepen <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Plug and Abandon <input type="checkbox"/> Plug Back	TYPE OF ACTION <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Reclamation <input type="checkbox"/> Recomplete <input type="checkbox"/> Temporarily Abandon <input type="checkbox"/> Water Shut-Off <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 recomplet horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones 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 342xas Class H cmt from 4992' - 3400' w/ 305sxas outside. WOC. 4/9/2018 Unable to release pkr. Work stuck pkr w/ WIL. 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 17xas Class C cmt 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 18xas Class C cmt from 1380' - 1100'. Plug #4 - Squeezed 313xas Class C cmt from 1052' - Surface. RD MOL.  The subject well was P&A'd on 4/21/2018		
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 Office for processing by JAMES AMOS on 04/26/2018 (18PP03085E)		
Name (Printed/Typed) HOWE LUCAS Signature (Electronic Submission) Date 04/25/2018		Title ENGINEER
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved By: <b>ACCEPTED</b> 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 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. (Instructions on page 2)		JAMES A AMOS Title SUPERVISORY PET Date 04/26/2018 Office Carlsbad
** BLM REVISED ** 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)

Sqz Perfs  
4992'-5010'  
w/ 305 sx

DEL perfs 4992'-5010'

PBTD @ 5216'

DTD @ 5250'

Drawn by: Ben Stone, 4/13/2022



Status	Active
County & State	Eddy County, NM
API No.	30-015-30680

Spud: 9/29/99 Ground Elevation: D.F. Elevation:  
Completed: 11/23/99 KB Elevation: Total Depth: 12,000'

Surface	Hole size	Depth	Size (OD)	Weight	Grade	Sa. Cost	Comments
	37-1/2"	509"	13-3/8"	48 lbs		470 sa	CTS
<b>Intermediate</b>							
	Hole size	Depth	Size (OD)	Weight	Grade	Sa. Cost	Comments
	11"	2,809"	8-5/8"	32 lbs		\$15 sa	CTS
<b>Production</b>							
	Hole size	Depth	Size (OD)	Weight	Grade	Sa. Cost	Comments
	2 7/8"	12,000"	5-1/2"	172		\$50 sa	TOP OF PLUG

3 hrs 7-7:45" sig @ 16:10  
sig @ 16:10  
3 hrs 7-7:45" sig @ 16:10  
2-7:00" sig @ 11:06

5/29/1999 Spud well and drill/complete in the Morrow. TD well at 12000'

5/30/1999 Part 13862'-74" and 11709'-76"

6/23/2010 RAP 34 above Morrow after causing leak stopped production in Morrow.  
Leak identified between "60207-6051".  
Unable to pump into leak Wea TA's.

4/13/2013 Rigger up on well to recomplete to the Atoka formation.  
Leak identified between 5827-7224". Unable to pump into leak.

4/13/2013 Per 11204-11209" and 11212-11224" and 34cf w/ 2500 gal 7.5% HCl  
Swab tested well for 1 week and settled at a 10% oil cut and gas production.

Circ w/ 9.5# Mud

Spot Addtl 25 s  
Above Perfs  
Tag @ 9561'

SQZ holes 9790'  
Spot 30 sx Cmt.  
Below Perfs  
CIBB 1115

Spot 36 sx Cmt  
on RBP —  
RBP 11596

RBP 11596

Csg leak from 5821-7774:

•TDC-9600 (CBL)•

Atkins  
11204-11209, 11212-11224  
Acid: 500 gal 15%  
Swab tested gas and 10% oil cu

**Morrow**  
11862-11874; 11708-11778

PBD	11,850
Total Depth	12,000

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.  
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 NWNW 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 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 shall 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 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 AFMSS 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 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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***



MERIT ENERGY COMPANY

## Job Daily Summary

Support Line: 972-628-1700 #1

Report Date:

Well Name: Greenwood Fed 02

Report #

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

Job Category Plug & Abandon	Primary Job Type Permanently Abandon Well	Job Start Date 8/5/2014	Job End Date	
Daily Operations				
Report Start Date 8/5/2014	Primary Activity minu	AFE Number	Daily Field Est Total (Cost) 5,660.00	Cum Field Est To Date (Cost) 5,660.00
Operations Summary minu pulling spot equipment				
Report Start Date 8/6/2014	Primary Activity pooh	AFE Number	Daily Field Est Total (Cost) 7,575.00	Cum Field Est To Date (Cost) 13,235.00
Operations Summary crew to location unset pkr pooh w/ pipe 180 jts out secure well sion				
Report Start Date 8/7/2014	Primary Activity set cbbp	AFE Number	Daily Field Est Total (Cost) 6,597.00	Cum Field Est To Date (Cost) 19,832.00
Operations Summary 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 set cbbp @ 11150 rd wireline rih with pipe to ( tag up) on cbbp total of pipe in well 240  secure sion				
Report Start Date 8/8/2014	Primary Activity tagged up/ circulate mud	AFE Number	Daily Field Est Total (Cost) 6,905.00	Cum Field Est To Date (Cost) 26,737.00
Operations Summary crew to location rih w/ remainder of pipe tagged up @ (11150) circulate hole 9.5 # mud 268 bls spot 60 sx class h displace 41 bls 9.5 mud ctoc 10606 roh w 2 3/8 tbg 42 jts in well secure siowe				
Report Start Date 8/11/2014	Primary Activity perforate	AFE Number	Daily Field Est Total (Cost) 5,850.00	Cum Field Est To Date (Cost) 32,587.00
Operations Summary row tbg ru 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				
Report Start Date 8/12/2014	Primary Activity spot cement	AFE Number	Daily Field Est Total (Cost) 4,165.00	Cum Field Est To Date (Cost) 36,752.00
Operations Summary 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 set to tag toc a.m.				
Report Start Date 8/13/2014	Primary Activity spot cement	AFE Number	Daily Field Est Total (Cost) 5,732.50	Cum Field Est To Date (Cost) 42,484.50
Operations Summary 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				
Report Start Date 8/14/2014	Primary Activity perf cement	AFE Number	Daily Field Est Total (Cost) 7,730.00	Cum Field Est To Date (Cost) 50,214.50
Operations Summary 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 lay dn 14 jts @ 5509 spot 40 soc pooh 17 stds secure well sion				
Report Start Date 8/15/2014	Primary Activity perf squeeze	AFE Number	Daily Field Est Total (Cost) 5,090.00	Cum Field Est To Date (Cost) 55,304.50
Operations Summary 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 No need to sqz cmt @ 2850 first did establish rate @ 2bbis pm well did circulate sqz 40 sx displace 14.5 bbis showing psi 200 secure well siowe				
Report Start Date 8/18/2014	Primary Activity perf sqz	AFE Number	Daily Field Est Total (Cost) 5,535.00	Cum Field Est To Date (Cost) 60,839.50
Operations Summary crew to location bleed dn well 0 psi release pkr roh rd 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/ 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				
Report Start Date 8/19/2014	Primary Activity rdmo	AFE Number	Daily Field Est Total (Cost) 5,625.00	Cum Field Est To Date (Cost) 66,464.50
Operations Summary crew to location bleed dn well release pkr pooh rih tag @ 749 pooh rih w/ w/ perf @ 550 roh rd w/ 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				
final report				

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

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

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 Sx.  
(Circulated)

Base of Salt @  
1945'

(Proposed)  
Perf. & Attempt to  
Sg. @ 450' a  
45 Sx plug. If  
unable to Est.  
Rate Spot 45 Sx  
plug @ 400' to  
Surface 500

\* Add plug

Perf. & Sg. cmt from 840'-650'  
woc + Tag

(Proposed)  
Perf. & Attempt to Sg.  
2125-1920 40 Sx plug @ 1995'.  
It unable to Est.  
Rate TTH 2175' +  
Spot 25 Sx plug  
2175

Penrose Perfs

3548'-68'

3608'-14'

3808'-16'

Grayburg Perfs

3898'-22'



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

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

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

330 FNL &amp; 330 FWL S27, T18S, R31E

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

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ 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 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 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 IN SUBJECT

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

A.T.

Date 1-31-2017

Accepted for record  
MMOCD  
A.L.B.

Accepted for Record

## THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

James G. Davis

Title

SAET

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

CFO

Title 48 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)

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

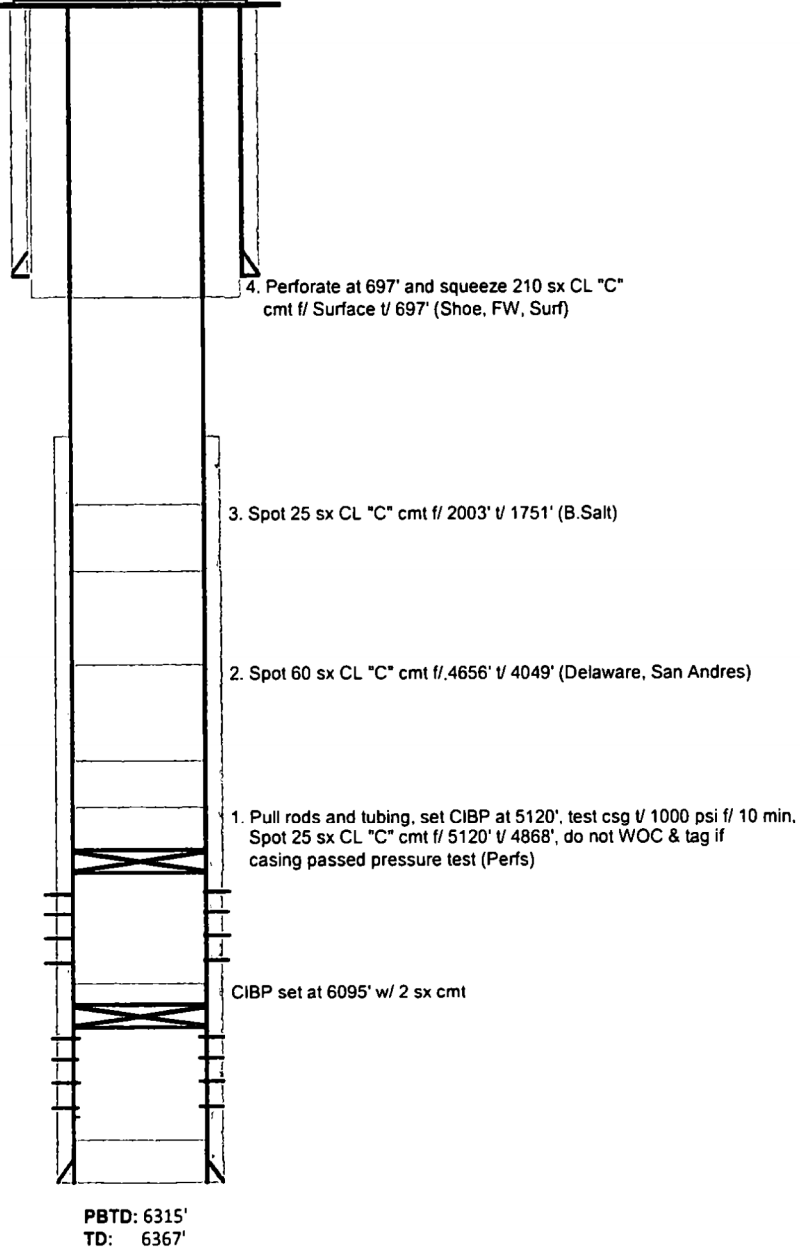
Formation	TD, ft
	Top
Rustler	620
Salado	851
Base of Salt	1,953
Bowers Sand	3,020
San Andres	4,162
Delaware	4,606

Perfs 5173'-5268'

Perfs 6140'-6222'

**Proposed**  
**Wellbore Diagram**

**Verify Cement to Surface**



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

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
PRINCIPLE FEDERAL 4

2. Name of Operator

CHEVRON USA INCORPORATED

Contact: HOWIE LUCAS

E-Mail: howie.lucas@chevron.com

9. API Well No.  
30-015-32894-00-S1

3a. Address

6301 DEAUVILLE BLVD  
MIDLAND, TX 79706

3b. Phone No. (include area code)

Ph: 832-588-4044

10. Field and Pool or Exploratory Area  
SHUGART

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

Sec 27 T18S R31E SWNW 1920FNL 660FWL

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	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&amp;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 - NMOCDRECLAMATION PROCEDURE  
ATTACHEDRECLAMATION  
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		ACCEPTED FOR RECORD MAR 20 2019 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
Signature (Electronic Submission)		Date 03/12/2019			
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 \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* 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

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

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

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 @ 4777'

**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	Length	Weight	Depth	Weight	Depth
Tubing - Production	502' 00"	4,711.00	4,711.00		
Tubing	155'	2,338	4,701.55	4,556.30	4,556.30
Anchor-Chain	1'	4.12		2.75	4,559.05
Tubing	4'	2.38	4,701.55	128.25	4,561.43
Pump Sealing/ nipple	1'	2.38		1.10	4,562.53
Pert Sub	1'	2.38		4.10	4,566.63
Tubing	1'	2.38	4,701.55	29.50	4,711.13

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029392B
2. Name of Operator CHEVRON USA INC		6. If Indian, Allottee or Tribe Name
Contact: CINDY H MURILLO E-Mail: CHERRERAMURILLO@CHEVRON.COM		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 15 SMITH RD MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 575-263-0431 Fx: 575-391-6679	8. Well Name and No. HINKLE FEDERAL 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T18S R31E 1650FNL 660FWL		9. API Well No. 30-015-10111
		10. Field and Pool, or Exploratory SHUGART DELAWARE
		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 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 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.		<b>RECEIVED</b> FEB 20 2014 NMOCD ARTESIA
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 <u>James A. Ames</u>	Title <u>SEPS</u>	Date <u>2-11-14</u>
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 <u>CFO</u>	

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 7-5-14Accepted 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 @  
1020' Cemented  
w/ 420 SX Circulated

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

-1964-  
CIBP set @  
3960'

1 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'

Perforase  
Perfs @  
3534' - 66'

Perforase  
Perfs @  
3710' - 32'

Perforase  
Perfs @  
3820' - 10'

Perforase  
Perfs @  
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

## 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.  
LC029392B

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

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

8. Well Name and No.  
Hinkle F #1

9. API Well No.

30-015-05617

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

1880 FNL &amp; 1980 FWL Sec 27, T18S, R31E

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

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

## TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ 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 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 determined 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 23 2017

RECEIVED

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

Ted Tidwell

Title Operations

Signature

Date 1-31-2017

## THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

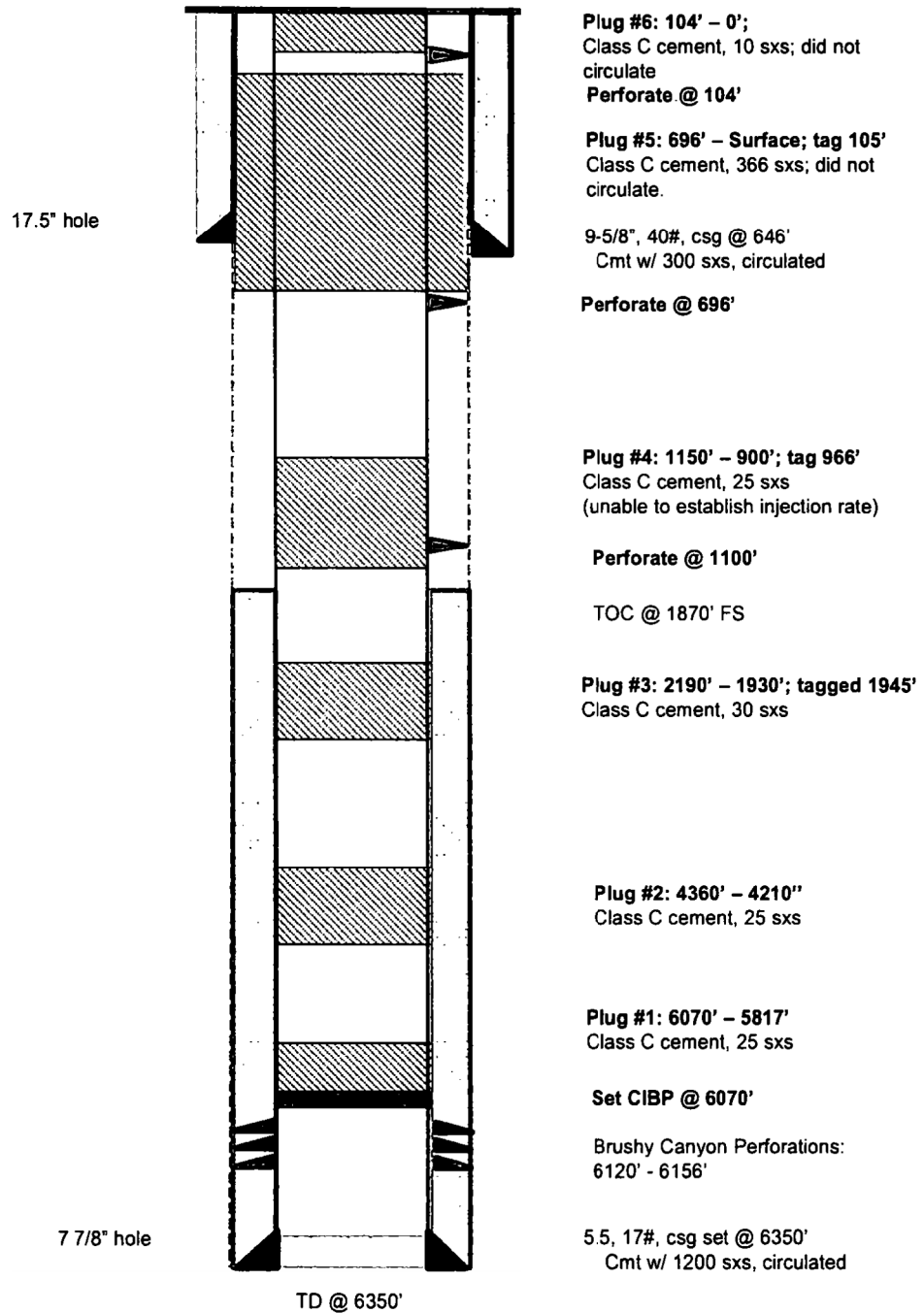
Office

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.

**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



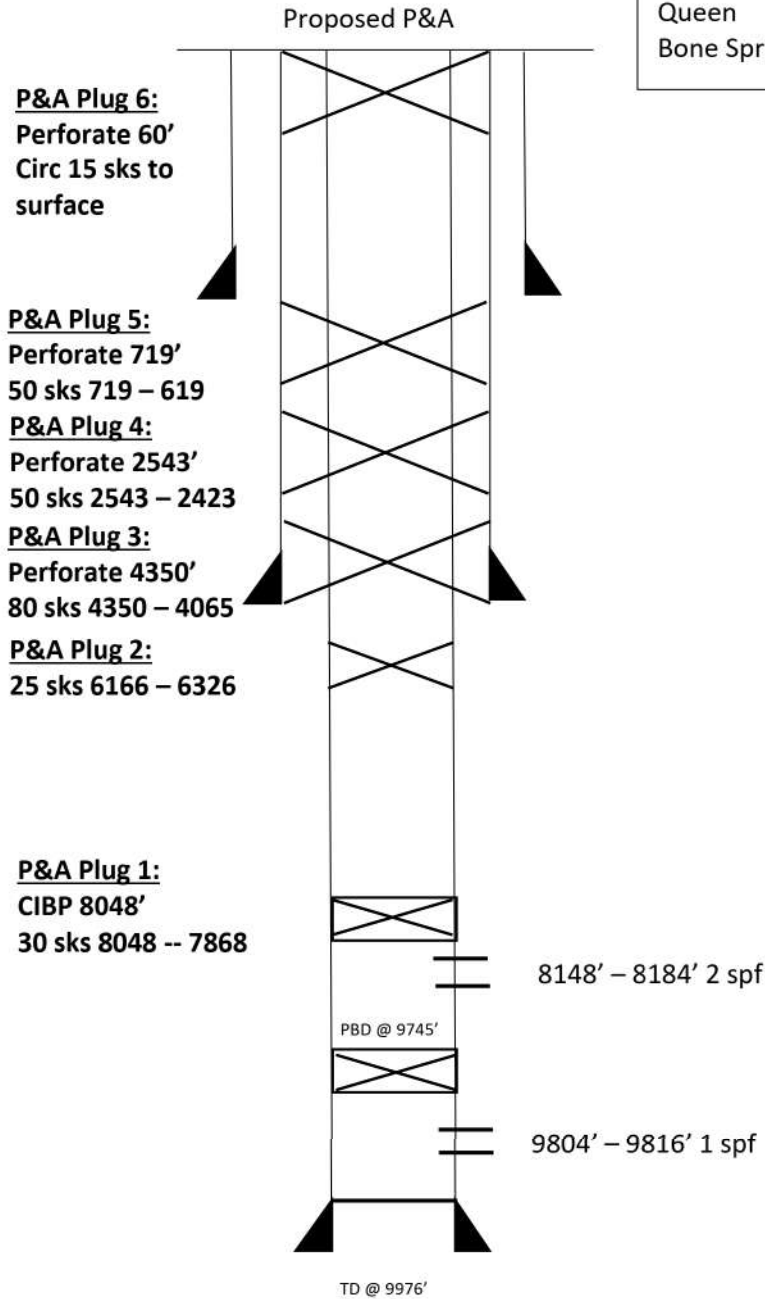
**WELL DATA SHEET****FIELD:** Shugart Bone Spring **WELL NAME:** Greenwood Pre-Grayburg Unit #16 **FORMATION:** Bone Spring**LOCATION:** 1980 FSL & 1980 FWL **SEC:** 27 **TWP:** 18S **RGE:** 31E **COUNTY:** EDDY **STATE:** NM**API NO:** 30-015-32515 **CURRENT STATUS:** Shut-in

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.



## WELL DATA SHEET

lease PAN AMERICAN GREENWOOD UNIT No. 9

Well No. 9

location 2310 FSL 660 FW/L

County

State

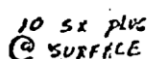
Elevation 3629

## Formation

Date Completed 1-28-64

**Field**

Initial Potential DRY



2 5/8" csc SET.  
@ 629' 350 SY  
CMT.

25 ex plug 679-579

25 3x plug From  
2000 - 1900'

50 SX PLUG FROM  
4000-3800

25 SX PLUG FROM  
5050-4950

### WELL HISTORY

[illegible]

Src Lease Number

Src Working Interest -

**Src Net Revenue Interest**

## Crude Oil Classification

### Gas Classification

**Gas Price**

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

SUBMIT IN THE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

**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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Dry Hole</u></p> <p>2. NAME OF OPERATOR <u>Southland Royalty Company</u></p> <p>3. ADDRESS OF OPERATOR <u>1100 Wall Towers West, Midland, Texas 79701</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <u>Unit Letter L, 2310' FSL, 660' FWL, Sec. 27, T-18-S R-31-E</u></p> <p>14. PERMIT NO. _____</p> <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>3629' GR</u></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <u>LC-029392-B</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____</p> <p>7. UNIT AGREEMENT NAME _____</p> <p>8. FARM OR LEASE NAME <u>Greenwood Unit</u></p> <p>9. WELL NO. <u>9</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Shugart</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 27 T-18-S, R-31-E</u></p> <p>12. COUNTY OR PARISH <u>Eddy</u> 13. STATE <u>N.M.</u></p>
---	---

**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) <u>Re-entered &amp; replug</u>	<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 tbgs. to 3410'. Spot 80 sx. plug.

10-26-79 Ran tbgs. Tag plug @ 3250'. Pull tubing to 2444'. Spot 200 sx. plug. Wait 4 hrs. Ran tbgs. & tag plug @ 1435'. Pull tbgs. 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 11/27/79 - 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 <u>[Signature]</u>	TITLE <u>District Engineer</u>	DATE <u>10-29-79</u>
(This space for Federal or State office use)		
APPROVED BY <u>GEORGE H. STEWART</u>	TITLE <u>ACTING DISTRICT ENGINEER</u>	DATE <u>NOV 1 1979</u>
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>

P&A Marker

G.L. 3623'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

PLUGS:

Spot 16 sxs  
50'-0'

Spot 33 sx  
750'-650'  
(8.625" Csg shoe)

701'

Spot 30 sx  
1848'-1746'

5.5" Shot & Pulled @ 1830'

Load hole w/  
Plugging Mud

Spot 45 sxs  
4816'-4736'

5197'

TD @ 5200'

### Surface Casing

8.625", 24.0# csg. (11.0" Hole) @ 701'

325 sx ('C') - Calculated to Surface

Not reported

### <P&A SUBSEQUENT SUNDRY>

Form 8-581a  
7-60-1964  
**APPROVED**  
MAR 25 1964  
RONNIE E. SHOOK  
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4  
Form Approved.

Land Office

Lease No. **MM-055776-A**

Unit

### 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 1/4, NW 1/4, Sec 28 18-S 31-E N47W  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Sagart (Field) (County or Subdivisions) New Mexico (State or Territory)

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

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudline; indicate casing points, and all other important proposed 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

GPO 814974

### 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

**SOS Consulting, LLC**

# 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
30-015-30680	[4323] CHEVRON U S A INC	GREENWOOD FEDERAL COM	#002	Gas	Federal	P&A-R**	D-27-18S-31E	12000'	*DOES NOT PENETRATE
30-015-24586	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#010	Oil	Federal	P&A-R**	D-27-18S-31E	4240'	8/19/2014
30-015-32894	[4323] CHEVRON U S A INC	PRINCIPLE FEDERAL	#004	Oil	Federal	P&A-R**	E-27-18S-31E	6367'	10/27/2016
30-015-10593	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#004	Oil	Federal	P&A-R	E-27-18S-31E	3966**	2/18/2019
30-015-10111	[4323] CHEVRON U S A INC	HINKLE FEDERAL	#001	Oil	Federal	P&A-R**	E-27-18S-31E	5162'	1/15/2014
30-015-05617	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#001	Injection	Federal	P&A-R**	F-27-18S-31E	5188'	*DOES NOT PENETRATE
30-015-32843	[4323] CHEVRON U S A INC	PRINCIPLE FEDERAL	#002	Oil	Federal	P&A-R**	F-27-18S-31E	6350'	1/26/2017
30-015-32515	[173413] E G L RESOURCES INC	GREENWOOD PRE-GRAYBURG UNIT	#016	Gas	Federal	P&A-R**	J-27-18S-31E	9976'	2/13/2019
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'	7/6/2021
30-015-10607	[196069] MOMENTUM OPERATING CO INC	HINKLE F	#006	Oil	Federal	P&A-R	K-27-18S-31E	3978**	1/26/2017
30-015-10760	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	Federal	P&A-R	L-27-18S-31E	3953**	*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	A-28-18S-31E	3927*	1/28/2010
								*DOES NOT PENETRATE
30-015-20196	[196069] MOMENTUM OPERATING CO INC	GULF	#002	Injection	Federal	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	H-28-18S-31E	5268'	12/7/1963
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	Active	C-34-18S-31E	4493'	
30-015-21613	[265378] GEORGE A CHASE JR DBA G AND C SERVICE	HINKLE B FEDERAL	#005	Oil	Federal	D-34-18S-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