

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-005-60031
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No. K-2803 (1967, 1989 PAPERWORK)
7. Lease Name or Unit Agreement Name TWIN LAKES SAN ANDRES
8. Well Number: 26
9. OGRID Number 371666 (Petrolia on record)
10. Pool name or Wildcat [61570] Twin Lake; San Andres (assoc)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3957 GR

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" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [X] Gas Well [ ] Other [ ]
2. Name of Operator Last produced by Petrolia Energy Corporation. Chevron U.S.A. Inc. restoring for NMOCD.
3. Address of Operator 6301 DEAUVILLE BLVD., MIDLAND, TX 79706
4. Well Location Unit Letter F : 1980 feet from the North line and 1980 feet from the WEST line
Section 36 Township 8S Range 28E NMPM County Chaves
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3957 GR

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [ ] CHANGE PLANS [ ]
PULL OR ALTER CASING [ ] MULTIPLE COMPL [ ]
DOWNHOLE COMMINGLE [ ]
OTHER: [ ]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPNS. [ ] P AND A [ ]
CASING/CEMENT JOB [ ]
OTHER: [ ]
Notify OCD 24 hrs. prior to any work done

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

Please see attached abandonment procedure

Well was most recently transferred to Petrolia Energy Corporation (ogrid# 371666) in 2017, but Chevron U.S.A. Inc. was approached by NMOCD regarding plugging liability (attached plan of action highlights additional background). Form C-103 [filed previously 8/3/2021- Sundry ID 39525] for Well API No. 30-005-60031 incorrectly referenced Chevron U.S.A. Inc. as "Name of Operator" in Item 2; this Form C-103 states the correct reference in Item 2.

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

9/24/2021

X Hayes Thibodeaux

SIGNATURE Signed by: Hayes Thibodeaux TITLE Well Abandonment Engineer DATE 9/24/2021

Type or print name Hayes Thibodeaux PHONE: 281-726-9683

For State Use Only

APPROVED BY: [Signature] TITLE Staff Manager DATE 11/29/2021

Conditions of Approval (if any):

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

Must be plugged by 11/29/2022

**Critical Well Notes**

- Limited well files found on NMOCD database.
- Well type: OIL (ACTIVE)
- Latest records indicate that rods & pump in wellbore; no details available on size and depths

**Procedure - Rig Only**

- 1 Contact NMOCD at least 24 hrs prior to performing any work
- 2 MIRU pulling service rig
- 3 Check pressure on all casing strings. Verify no pressure and observe well for 15 minutes to verify no flow. Kill well with brine or mud as necessary.
  - 1 Bubble test all annuli for 30 minutes each and capture results in WellView under daily pressures tab.
- 4 N/U rod BOP's and begin L/D rod string & pump.
  - 1 Unknown size of rods. Plan to have equipment for various OD's.
- 5 N/U stump-tested BOPE.
  - 1 5k 7-1/16" Class II BOP and pressure test 250 psi low and 1000 psi, MASP, or max anticipated pressure (whichever is larger) high for 5 min each.
- 6 TOH with tubing string and L/D same.
  - 1 Unkown if packer or TAC is currently installed in wellbore
  - 2 If unable to pull tubing free, plan to MIRU wireline to run gauge ring, CCL to confirm depth of TAC or packer
  - 3 Request variance from NMOCD to cut tubing above TAC/packer depth and L/D same
- 7 MIRU wireline and lubricator. Run gauge ring to planned set depth for CIBP per proposed schematic
- 8 POOH with gauge ring run. RIH with CIBP and set at proposed set depth. POOH with W/L.
- 9 TIH with pressure tested workstring and tag mechanical barrier
- 10 Pressure test CIBP, casing to 500 psi for 15 minutes
- 11 Proceed to pump cement per the cementing table below. Additional notes/considerations:
  - 1 If bubble test on prod csg annulus fails, discuss option to pump contingency cement prior to final plug to ensure leak is isolated. Discuss depths and volumes with engineer.
  - 2 For any perf/squeeze: if able to establish circulation to surface, establish a 500' cement barrier in annulus and inside of casing.
- 11 Discuss with engineer any changes to proposed plan forward during execution

Summary Table	Plug		Volume	Perf & Squeeze	Notes
	Base	Top			
Formation 1	2500	2300	25	<del>1</del> NO	WOC & Tag
Formation 2	1525	1375	36	YES	WOC & Tag
Formation 3	870	470	96	YES	WOC & Tag
Formation 4	370	0	89	YES	
Total Sacks	235				
Total Perf & Squeeze			3		
Total Spot			1		

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) Potash---(In the R-111-P Area (Page 3 & 4), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name
  2. Lease and Well Number
  3. API Number
  4. Unit Letter
  5. Quarter Section (feet from the North, South, East or West)
  6. Section, Township and Range
  7. Plugging Date
  8. County
- (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

## R-111-P Area

### T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

### T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23. Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

### T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec 10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec 24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32 Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

### T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

### T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec 23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit A-H. Sec 36 Unit B-G.

### T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P. Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

### T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P. Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

### T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec 23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

### T 21S – R 30E

Sec 1 – Sec 36

### T 21S – R 31E

Sec 1 – Sec 36

### T 22S – R 28E

Sec 36 Unit A,H,I,P.

**T 22S – R 29E**

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

**T 22S – R 30E**

Sec 1 – Sec 36

**T 22S – R 31E**

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25 Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

**T 23S – R 28E**

Sec 1 Unit A

**T 23S – R 29E**

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33 Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

**T 23S – R 30E**

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec 33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

**T 23S – R 31E**

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec 34. Sec 35 Unit C,D,E.

**T 24S – R 29E**

Sec 2 Unit A, B, C, D. Sec 3 Unit A

**T 24S – R 30E**

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11. Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

**T 24S – R 31E**

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec 35 Unit E – P. Sec 36 Unit E,K,L,M,N.

**T 25S – R 31E**

Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

Well Name **TLSAU 26** County **Chaves**  
 API **30-005-60031** District **Artesia (NMOCD)**

Lat **33.58**  
 Long **-104.04**  
 Well Type **Oil (active)**

TLSAU = Twin Lake San Andres Unit

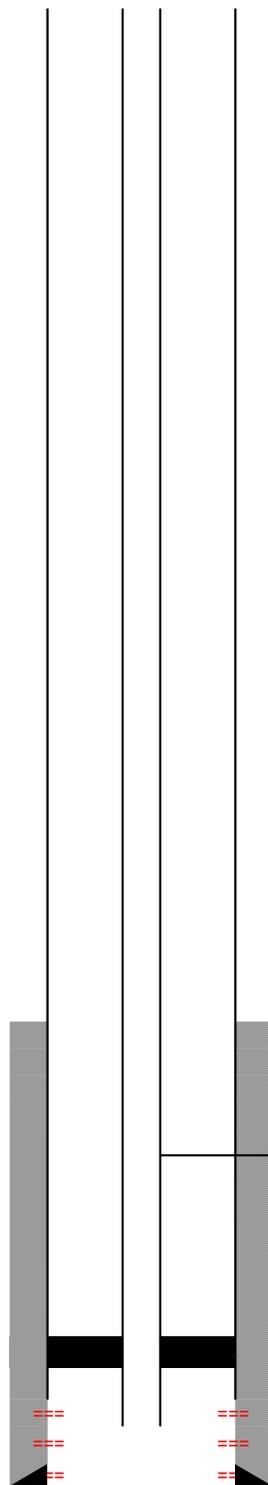
**SURFACE CASING**

Size: **8.625**  
 Wt.: **20**  
 Set @: **320**  
 Sxs cmt: **125**  
 Circ: **YES**  
 TOC: **0**  
 Hole Size: **11**

Formation Record		Descriptions
0	262	Red Beds
262	640	Anhydrite and Shale
640	780	Anhydrite
780	870	Sand and shale
870	1525	Anhydrite, salt & gypsum
1525	1937	Anhydrite, shale and sand
1937	2614	Dolomite

**PRODUCTION CASING**

Size: **4.5**  
 Wt.: **9.5**  
 Set @: **2614**  
 Sxs Cmt: **100**  
 TOC: **1846** Calculated  
 Hole Size: **6 3/4**  
 PBTD **2614**  
 TD **2614**



Original tubing size: 2-3/8"  
 Expect rods & tubing (oil well)  
 Set depth at 2590' (original set depth)  
 Unknown packer or TAC

Unknown production equipment in wellbore per available files on NMOCD website. Will require wireline CCL log to gauge depth of packer.  
 Rods & pump run in 1981  
 Original Perforated Interval  
 2598' - 2608', 2564'-2584', 2586'-2592'

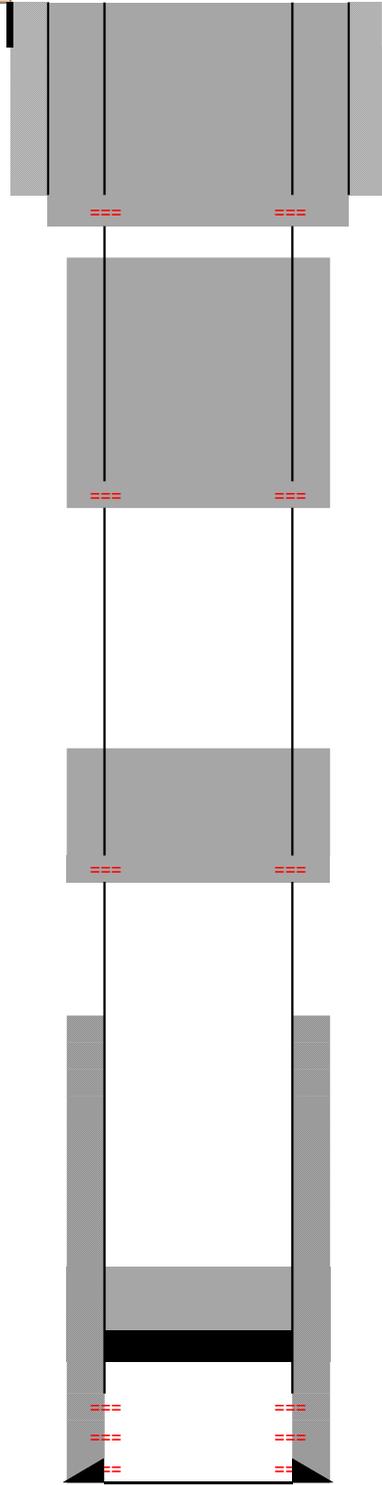
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Size: **8.625**  
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 Set @: **320**  
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 Hole Size: **11**



**Plug #4: Isolate 8-5/8" shoe, FW**  
 Perforate at 370'  
 Cmt from 370' to surface  
 89 sacks Class C cement

**Plug #3: Isolate top of salt**  
 Perforate at 870'  
 Cmt from 870' to 470' (400')  
 WOC, tag, pressure test  
 96 sacks Class C cement

**Plug #2: Isolate base of salt**  
 Perforate at 1525'  
 Cmt from 1525' to 1375'  
 36 sacks Class C cement

**Barrier #1: Isolate perforations**  
 Set CIBP at 2500' (100' above top perf)  
 Cmt from 2500' to 2300'  
 15 sacks Class C cement

Original tubing size: 2-3/8"  
 Expect rods & tubing (oil well)  
 Set depth at 2590' (original set depth)  
 No packer run during original completion

Unknown production equipment in wellbore per available files on NMOCD website. Will require wireline CCL log to gauge depth of packer.  
 Rods & pump run in 1981  
 Original Perforated Interval  
 2598' - 2608', 2564'-2584', 2586'-2592'

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0	262	Red Beds
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**District I**  
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**District II**  
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 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 51957

**CONDITIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 51957
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
gcordero	None	11/29/2021