# Additional Information

Mack Energy McDonald SWD -2531
1-23-2024

**From:** Deana Weaver
**To:** Harris, Anthony, EMNRD; Jerry Sherrell
**Cc:** Goetze, Phillip, EMNRD; Gebremichael, Million, EMNRD
**Subject:** [EXTERNAL] RE: Mack Energy - McDonald SWD-2531 Additional Information required
**Date:** Tuesday, January 23, 2024 8:08:14 AM
**Attachments:** Additional Information Required.pdf
C-108.pdf

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CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Tony

The information you requested is attached.

Thank you

Deana Weaver
Regulatory Technician II
Mack Energy Corporation
575-748-1288

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**From:** Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
**Sent:** Monday, January 22, 2024 2:59 PM
**To:** Deana Weaver <dweaver@mec.com>; Jerry Sherrell <jerrys@mec.com>
**Cc:** Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
**Subject:** Mack Energy - McDonald SWD-2531 Additional Information required
**Importance:** High

EXTERNAL EMAIL - Verify the sender and use caution before opening attachments or clicking links

Good Afternoon

Below are a list of items that need to be included in the subject well (API# 30-025-33678) SWD application.

1. Section VIII – A list of Aquifers must be included for all USDW overlying / underlying the proposed injection interval.
    a. Please provide the “Geologic name” and “Depth to bottom” of all USDW overlying and underlying the proposed injection interval as applicable
2. A Cement Bond Log (CBL) will be required across the 5.5” production casing prior to perforating the San Andres injection interval.
    a. CBL logging interval should be from ~ 6700 ft (ie. Top of plug at 6701 ft) to the 8-5/8” shoe at 4050 ft.

   b. Please include a Statement, with reference to Section X (Logs and Test Data), to include a CBL across the 5.5" production casing from approx. 6700 ft – 4050 ft.
3. To satisfy the SWD Best Practices with respect to rathole requirements, please note the following.
   a. A Cast Iron bridge plug must be run and capped with cement such that a 200 foot rathole exists below the proposed San Andres bottom perforation (ie. Top of Cement at 5840 feet)
   b. Please update the wellbore diagram to reflect the plugging and rathole requirements.
   c. Please update the procedure and/or include a statement to reflect the plug and cement details to provide a 200 ft rathole below the lowermost San Andres perforation.
   d. Cement cap above the plug should be a minimum of 35 feet in length.

Please include the above items in a document entitled " McDonald SWD-2531 Additional Information" and send it via e-mail at your earliest convenience.

Regards
Tony Harris
Petroleum Specialist
Anthony.harris@emnrd.nm.gov
505 549 8131.

Revised March 23, 2017

| RECEIVED: | REVIEWER: | TYPE: | APP NO: |
|---|---|---|---|

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:** _____ **OGRID Number:** _____
**Well Name:** _____ **API:** _____
**Pool:** _____ **Pool Code:** _____

**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

**FOR OCD ONLY**
☐ Notice Complete
☐ Application Content Complete

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

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.**

_____ Date

_____ Print or Type Name

_____ Phone Number

Deana Weaver
_____ Signature

_____ e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

## APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: Mack Energy Corporation

ADDRESS: P.O. Box 960 Artesia, NM 88210

CONTACT PARTY: Deana Weaver PHONE: 575-748-1288

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes __X__No
If yes, give the Division order number authorizing the project: _____

V. Attach a map 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. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data 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. Attach appropriate geologic data on the injection zone 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. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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: Deana Weaver TITLE: Regulatory Technician II

SIGNATURE: Deana Weaver DATE: 4/24/2023

E-MAIL ADDRESS: dweaver@mec.com

* 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: _____

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

Side 2

III. WELL DATA

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

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.

Side 1

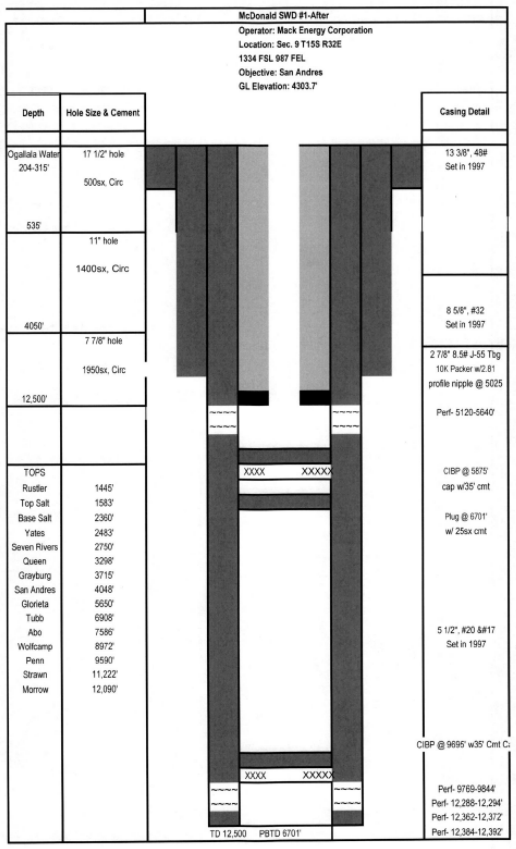
# INJECTION WELL DATA SHEET

OPERATOR: Mack Energy Corporation

WELL NAME & NUMBER: McDonald SWD #1

| WELL LOCATION: | 1334 FSL 987 FEL | I | 9 | 15S | 32E |
|---|---|---|---|---|---|
| | FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE |

## *WELLBORE SCHEMATIC*




## *WELL CONSTRUCTION DATA*

Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"

Cemented with: 500sx sx. ***or*** _____ $ft^3$

Top of Cement: 0 Method Determined: Circ
In place 1997

Intermediate Casing

Hole Size: 11' Casing Size: 8 5/8"

Cemented with: 1400 sx. ***or*** _____ $ft^3$

Top of Cement: 0 Method Determined: Circ
In place 1997

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"

Cemented with: 1950 sx. ***or*** _____ $ft^3$

Top of Cement: 0 Method Determined: Circ
In place 1997

Total Depth: 5650'

Injection Interval

5120' feet to 5640' perforated

(Perforated or Open Hole; indicate which)

Side 2

## INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: IPC

Type of Packer: Arrow Set 10K packer w/ 2.81 profile nipple

Packer Setting Depth: 5,025'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes ___X___No

   If no, for what purpose was the well originally drilled? Gas Well

2. Name of the Injection Formation: San Andres

3. Name of Field or Pool (if applicable): SWD; San Andres 96121

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Perfs 9769-9844', 12,288-12,294'

   12,362-12,372', 12,384-12,392'; CIBP @ 9695', 25sx Cmt Plug @

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying- Grayburg @ 3715' Underlying - Glorieta @ 5650'

   Tops- Yates @ 2483', Seven Rivers @ 2750', Queen @ 3298', Grayburg @ 3715',

   San Andres @ 4048', Glorieta @ 5650'

## VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
**Respectively, 15,000 BWPD and 20,000 BWPD**
2. The system is closed or open;
**Closed**
3. Proposed average and maximum injection pressure;
**0-2,449#**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
**We will be re-injecting produced water**

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;
**See Attached**
6. List of Aquifers- **Ogallala 204-315'**
7. Well Procedure- **See Attached**

## VIII. GEOLOGICAL DATA

1. Lithologic Detail; Dolomite
2. Geological Name; **San Andres**
3. Thickness; 1602'
4. Depth; **4048'-5650' Disposal Interval= 5120-5640'**

## IX. PROPOSED STIMULATION PROGRAM

5. To be treated with 10000 gallons 15% acid

## X. LOGS AND TEST DATA

1. Well data will be filed with the OCD.
2. Cement Bond Log will be run from 6,701-4,050'- See Attached

## XI. ANALYSIS OF FRESHWATER WELLS

See attached
Additional Information
**Waters Injected:**
**San Andres**

## XII. AFFIRMATIVE STATEMENT

RE: McDonald SWD #1

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 01/23/2024

Charles Sadler, Geologist

**McDonald SWD #1-Before**

**Operator: Mack Energy Corporation**
**Location: Sec. 9 T15S R32E**
**1334 FSL 987 FEL**
**Objective: San Andres**
**GL Elevation: 4303.7'**

| Depth | Hole Size & Cement | Casing Detail |
|---|---|---|
| | 17 1/2" hole<br>500sx, Circ | 13 3/8", 48#<br>Set in 1997 |
| 535' | | Plug @ 585' -Surface<br>w/ 30sx cmt |
| | 11" hole<br>1400sx, Circ | Plug @ 1564'<br>w/ 25sx cmt |
| 4050' | | 8 5/8", #32<br>Set in 1997 |
| | 7 7/8" hole<br>1950sx, Circ | Plug @ 4109'<br>w/ 25sx cmt |
| 12,500' | | |
| | | Plug @ 6701'<br>w/ 25sx cmt |
| TOPS | | |
| Rustler | 1445' | |
| Top Salt | 1583' | |
| Base Salt | 2360' | |
| Yates | 2483' | |
| Seven Rivers | 2750' | |
| Queen | 3298' | |
| Grayburg | 3715' | |
| San Andres | 4048' | |
| Glorieta | 5650' | |
| Tubb | 6908' | |
| Abo | 7586' | |
| Wolfcamp | 8972' | |
| Penn | 9590' | |
| Strawn | 11,222' | |
| Morrow | 12,090' | |
| | | 5 1/2", #20 &#17<br>Set in 1997 |
| | | CIBP @ 9695' w35' Cmt Ca |
| | | Perf- 9769-9844'<br>Perf- 12,288-12,294'<br>Perf- 12,362-12,372'<br>Perf- 12,384-12,392' |

XXXX XXXX XXXXX

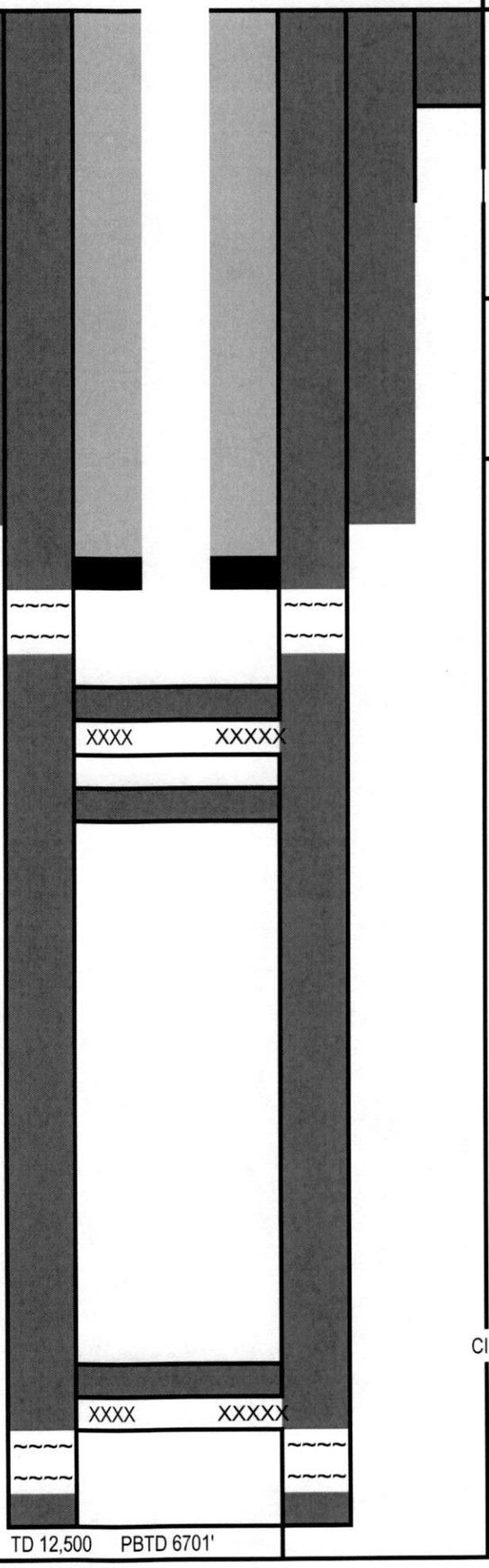
TD- 12,500'

**McDonald SWD #1-After**

**Operator: Mack Energy Corporation**
**Location: Sec. 9 T15S R32E**
**1334 FSL 987 FEL**
**Objective: San Andres**
**GL Elevation: 4303.7'**

| Depth | Hole Size & Cement | Casing Detail |
|---|---|---|
| Ogallala Water 204-315' | 17 1/2" hole<br>500sx, Circ | 13 3/8", 48#<br>Set in 1997 |
| 535' | | |
| | 11" hole<br>1400sx, Circ | 8 5/8", #32<br>Set in 1997 |
| 4050' | | |
| | 7 7/8" hole<br>1950sx, Circ | 2 7/8" 8.5# J-55 Tbg<br>10K Packer w/2.81<br>profile nipple @ 5025 |
| 12,500' | | Perf- 5120-5640' |
| | | CIBP @ 5875'<br>cap w/35' cmt |
| | | Plug @ 6701'<br>w/ 25sx cmt |
| | | 5 1/2", #20 &#17<br>Set in 1997 |
| | | CIBP @ 9695' w35' Cmt Ca |
| | | Perf- 9769-9844'<br>Perf- 12,288-12,294'<br>Perf- 12,362-12,372'<br>Perf- 12,384-12,392' |

| TOPS | |
|---|---|
| Rustler | 1445' |
| Top Salt | 1583' |
| Base Salt | 2360' |
| Yates | 2483' |
| Seven Rivers | 2750' |
| Queen | 3298' |
| Grayburg | 3715' |
| San Andres | 4048' |
| Glorieta | 5650' |
| Tubb | 6908' |
| Abo | 7586' |
| Wolfcamp | 8972' |
| Penn | 9590' |
| Strawn | 11,222' |
| Morrow | 12,090' |



# MACK ENERGY CORPORATION
McDonald SWD #1 (Re-Entry)
Sec 9-T15s-R32e
API #30-025-33678

## Well Information

Original Well Information.

Operator: H.L. Brown Operating LLC
Well Name: North Feather State Unit #2
TD: 12,500'
P&A: 05/20/2009

**Existing Casing:**

| Hole | MD (ft) | Casing | Weight | Grade | Coupling | Comments |
|---|---|---|---|---|---|---|
| 17 ½" | 0'- 535' | 13 3/8" | 48# | | | 500 sacks. Circ.to surface. |
| 11" | 0'- 4,050' | 8 5/8" | 32# | | | Pumped 1400 sacks. Circulated 50 sacks. |
| 7 7/8" | 12,500' | 5 ½" | 17-20# | N-80 | LT&C | Pumped 1,150 sacks+800 sacks. Circ. 20 sacks |

**New Production Casing**

| Hole | MD (ft) | Casing | Weight | Grade | Coupling | Comments |
|---|---|---|---|---|---|---|
| | | | | | | |

Production Casing: OD - 5 ½" 20#- N-80 ID: 4.778" Drift: 4.653 Burst: 9,190 psi
Production Casing: OD - 5 ½" 17#- N-80 ID: 4.892" Drift: 4.767 Burst: 7,740 psi

### Procedure

**Objective:** Drill out cement plugs and clean out casing to 6,701'. Test casing. Turn over to Completions.

1. Remove Dry Hole Marker. Dig out old Cellar. Find 8 5/8" casing stub. Inspect casing for pits and holes. Install 8 5/8"x11"x 5K Wellhead and test.
2. MIRU PU.
3. Nipple up BOPE and test.
4. PU 4 1/2" bit, 3 1/2" (10) DC's w/2 3/8" L-80 work string.
5. Drill out cement plugs. Plug #1 surface plug #1 (30 sacks) from 0' to 585'? Test casing to 500 psi. Plug #2 (25 sacks) at 1,464' to 1,564' Test casing to 500 psi. Plug #3 (25 sacks) at 3,675' to 4,109'. Test casing to 500 psi. Clean out to 6,701'. Test casing to 1,000 psi for 30 minutes.
6. Circulate casing clean with Fresh Water.
7. TOH 2 3/8" tubing and lay down drill collars.
8. Rig up Wireline and run a Cement Bond Log from 6,701' to 4,050' (8 5/8" casing shoe).
9. Set a CIBP at 5,875' and cap with 35' of cement.
10. Turn well over to completions.

MACK ENERGY CORPORATION
McDonald SWD #1 (Re-Entry)
Sec 9-T15s-R32e
API #30-025-33678

JK 6/13/2023
Revised JK 1/22/2024

# New Mexico Office of the State Engineer
# Transaction Summary

**72121 All Applications Under Statute 72-12-1**

**Transaction Number:** 510586 **Transaction Desc:** L 10303 (T) EXPIRED **File Date:** 01/22/1993

**Primary Status:** PMT Permit
**Secondary Status:** LOG Well Log Received
**Person Assigned:** *******
**Applicant:** H L BROWN JR
**Contact:** CORKY GLENN

**Events**

| | Date | Type | Description | Comment | Processed By |
|---|---|---|---|---|---|
| get images | 01/22/1993 | APP | Application Received | * | ******* |
| | 01/25/1993 | FIN | Final Action on application | | ******* |
| | 01/25/1993 | WAP | General Approval Letter | | ******* |
| | 01/25/1993 | CN5 | Meter Installation Request | | ******* |
| get images | 02/01/1993 | LOG | Well Log Received | * | ******* |
| | 08/29/2012 | QAT | Quality Assurance Completed | DATA/IMAGES | ******* |
| | 06/18/2013 | ARW | WRAB Main File Rm Arch Sect | L 10303 Archived | ******* |

**Change To:**

| WR File Nbr | Acres | Diversion | Consumptive | Purpose of Use |
|---|---|---|---|---|
| L 10303 | | 3 | | |

****Point of Diversion**

| | | | |
|---|---|---|---|
| L 10303 | | 619797 | 3654188* |

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

**Remarks**

H L BROWN JR WILL USE THE WATER WELL IN THE DRILLING OF STATE 16 #1, 1650' FNL, 990' FEL, IN SEC 16, T15S, R32E, LEA COUNTY NM.

PLUGGING REPORT FILED: CAPPED PER METER REPORT 04-7-93.

**Conditions**

1B Depth of the well shall not exceed the thickness of the Ogallala formation.

3 Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.

5A A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor for each calendar month on or before the 10th day of the following month.

C Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.

6 The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.

**Action of the State Engineer**

** PLEASE SEE IMAGES FOR DISCLAIMER **

**** See Image For Any Additional Conditions of Approval ****

**Approval Code:** A - Approved

**Action Date:** 01/25/1993

**Log Due Date:** 01/31/1994

**State Engineer:** Scott A. Verhines, P.

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/22/24 3:53 PM TRANSACTION SUMMARY

# New Mexico Office of the State Engineer
# Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Twn | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | L 10303 | 1 | 4 | 2 | 16 | 15S | 32E | 619797 | 3654188* |

**Driller License:** 421 **Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY" (LD)

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 01/26/1993 | **Drill Finish Date:** | 01/26/1993 | **Plug Date:** | |
| **Log File Date:** | 02/01/1993 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | 100 GPM |
| **Casing Size:** | 6.63 | **Depth Well:** | 320 feet | **Depth Water:** | 200 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 204 | 315 | Other/Unknown |

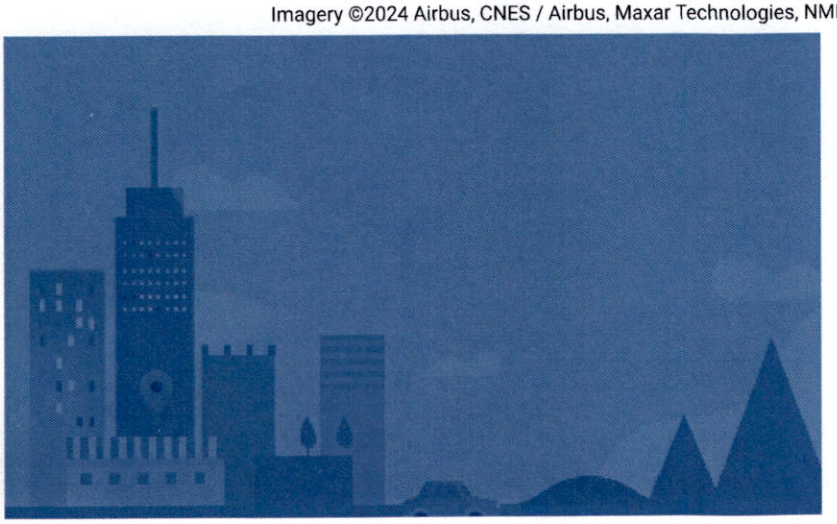
| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 250 | 320 |

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Google Maps 33°01'10.5"N 103°43'02.5"W


Imagery ©2024 Airbus, CNES / Airbus, Maxar Technologies, NMRGIS, USDA/FPAC/GEO, Map data ©2024 500 ft



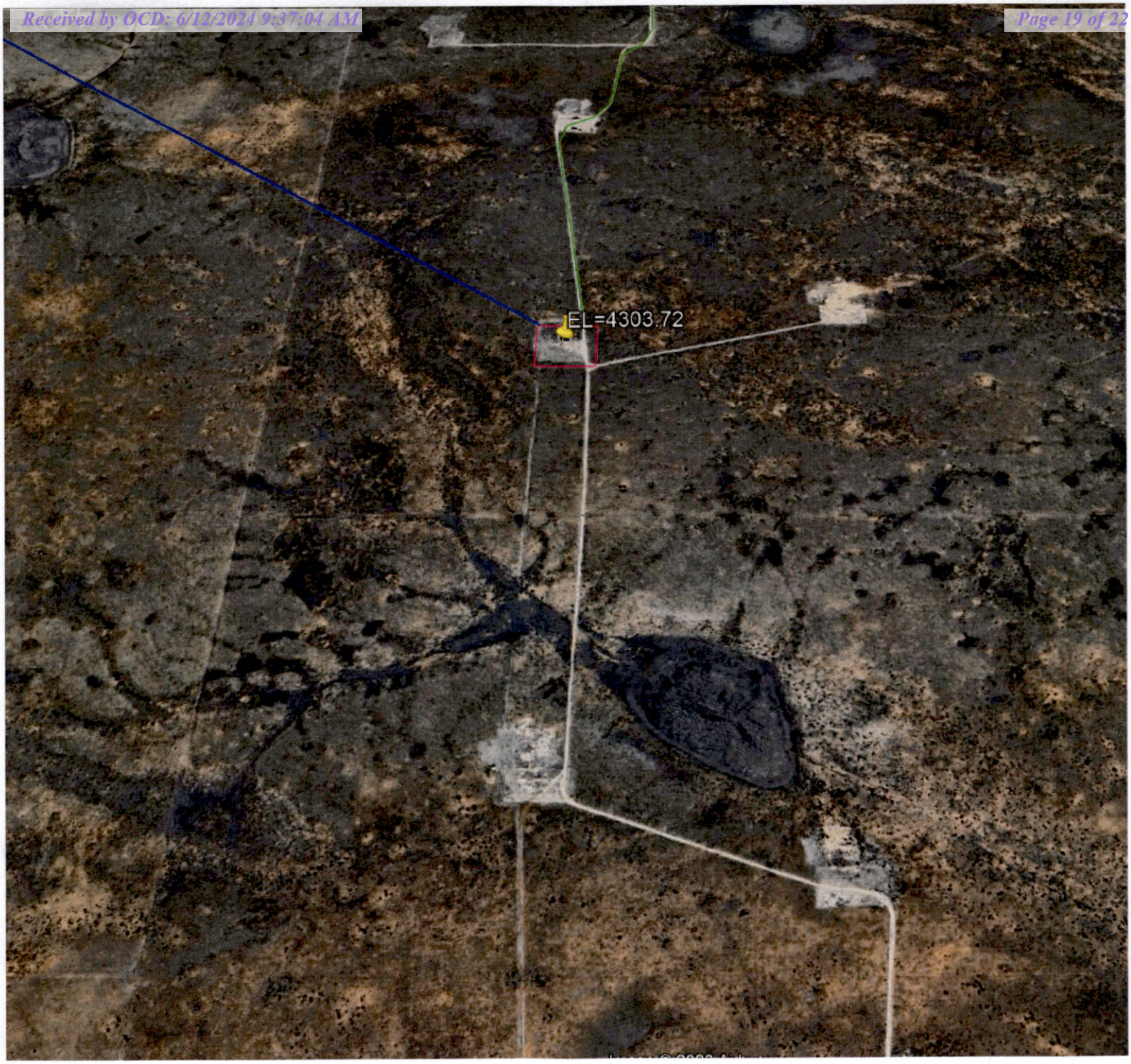
33°01'10.5"N 103°43'02.5"W

33.019577, -103.717355

Directions Save Nearby Send to phone Share

Lovington Public Schools, NM

855R279M+R3


EL=4303.72

Received by OCD: 6/12/2024 9:37:04 AM


Revised June 1972

STATE ENGINEER OFFICE

# WELL RECORD

## Section 1. GENERAL INFORMATION

(A) Owner of well H L Brown Owner's Well No. _____
Street or Post Office Address c/o Glenn's Water Well Service
City and State P.O. Box 692 Tatum, N.M. 88267

Well was drilled under Permit No. L-10,303 and is located in the:

a. _____ ¼ NW ¼ SE ¼ NE ¼ of Section 16 Township 15-S. Range 32-E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Glenn's Water Well Service, License No. WD 421

Address P.O. Box 692 Tatum, N.M. 88267

Drilling Began 1/26/93 Completed 1/26/93 Type tools rotary Size of hole 9 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 320 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 200 ft.

## Section 2. PRINCIPAL WATER-BEARING STRATA

| Depth in Feet From | Depth in Feet To | Thickness in Feet | Description of Water-Bearing Formation | Estimated Yield (gallons per minute) |
|---|---|---|---|---|
| 204 | 315 | 11 | sand | 100 |
| | | | | |
| | | | | |
| | | | | |

## Section 3. RECORD OF CASING

| Diameter (inches) | Pounds per foot | Threads per in. | Depth in Feet Top | Depth in Feet Bottom | Length (feet) | Type of Shoe | Perforations From | Perforations To |
|---|---|---|---|---|---|---|---|---|
| 6 5/8 | .188 | | 1 | 320 | 320 | | 250 | 320 |
| | | | | | | | | |
| | | | | | | | | |

## Section 4. RECORD OF MUDDING AND CEMENTING

| Depth in Feet From | Depth in Feet To | Hole Diameter | Sacks of Mud | Cubic Feet of Cement | Method of Placement |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

## Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by:
_____
State Engineer Representative

| No. | Depth in Feet Top | Depth in Feet Bottom | Cubic Feet of Cement |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

FOR USE OF STATE ENGINEER ONLY

Date Received February 1, 1993

510586

Quad _____ FWL _____ FSL _____

File No. L-10,303 Use OWD Location No. 15.32.16.24131

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| From | To | Thickness in Feet | Color and Type of Material Encountered |
|---|---|---|---|
| 0 | 1 | 1 | soil |
| 1 | 28 | 27 | caleche |
| 28 | 180 | 152 | sand |
| 180 | 204 | 24 | sandy clay |
| 204 | 315 | 111 | sand |
| 315 | 320 | 5 | red clay |

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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All s[illegible], except Section 5, shall be answered as completely and accurately [illegible]ssible when any well is drilled, repaired or deepened. [illegible] th[illegible]rm is used as a plugging record, only Section [illegible] and Section [illegible] be completed.

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**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 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 353316

## CONDITIONS

| | |
|---|---|
| Operator:<br>MACK ENERGY CORP<br>P.O. Box 960<br>Artesia, NM 882110960 | OGRID:<br>13837 |
| | Action Number:<br>353316 |
| | Action Type:<br>[IM-SD] Admin Order Support Doc (ENG) (IM-AAO) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| anthony.harris | None | 6/12/2024 |