

Additional Information

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

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.

 Print or Type Name

 Signature

 Date

 Phone Number

 e-mail Address

Deana Weaver

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 XXX Disposal _____ Storage
Application qualifies for administrative approval? xxx 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 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 Tech II
SIGNATURE: Deana Weaver DATE: 6/14/2023
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.

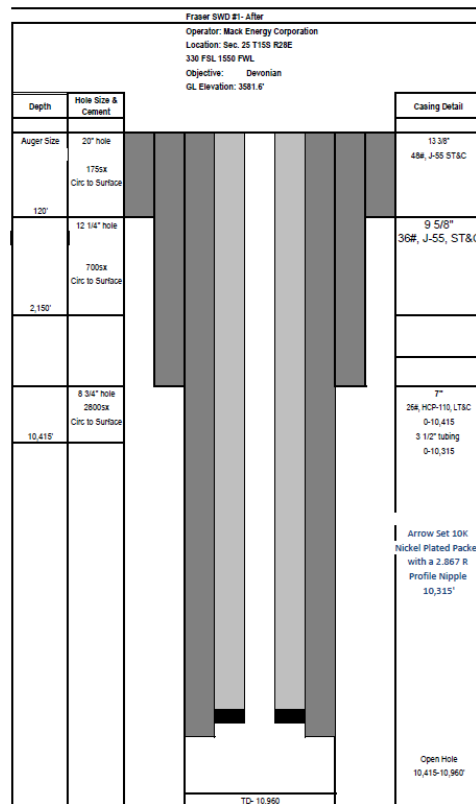
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy CorporationWELL NAME & NUMBER: Fraser SWD #1

WELL LOCATION: 330 FSL 1550 FWL N 25 15S 28E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 20" Casing Size: 13 3/8"Cemented with: 100 sx. **or** ft³Top of Cement: 0 Method Determined: CircIntermediate CasingHole Size: 12 1/4" Casing Size: 9 5/8"Cemented with: 700 sx. **or** ft³Top of Cement: 0 Method Determined: CircProduction CasingHole Size: 8 3/4" Casing Size: 7"Cemented with: 2800 sx. **or** ft³Top of Cement: 0 Method Determined: CircTotal Depth: 10,415'Injection Interval10,415' feet to 10,960' Open Hole

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEETTubing Size: 3 1/2" Lining Material: IPCType of Packer: Nickel Plated Packer 2.867 Profile NipplePacker Setting Depth: 10,315'

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

Additional Data

1. Is this a new well drilled for injection? X Yes No

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

N/A

2. Name of the Injection Formation: Devonian

3. Name of Field or Pool (if applicable): _____

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. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Atoka- Oil/Gas 9,220', Miss- Oil/Gas 9,585', Woodford- Oil/Gas 10,360'

Montoya- 10,960'

Fraser SWD #1 (Devonian Openhole)**VII. DATA SHEET: PROPOSED OPERATIONS**

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Respectively, 10,000 BWPD and 15,000 BWPD
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
1,000psi average-2,083psi maximum
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;
N/A

VIII. GEOLOGICAL DATA

1. Lithologic Detail; **Dolomite**
2. Geological Name; **SWD; Devonian**
3. Thickness; **545'- Openhole Completion (10,415'-10,960')**
4. Depth; **TD 10,960'**

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.

XI. ANALYSIS OF FRESHWATER WELLS

Additional Information

Waters Injected:

San Andres


XII. AFFIRMATIVE STATEMENT

RE: Fraser 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: 5/23/23


Charles Sadler, Geologist

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

| | | |
|---------------------------------|---|---|
| ¹ API Number | ² Pool Code 96101 | ³ Pool Name SWD; Devonian |
| ⁴ Property Code | ⁵ Property Name FRASER SWD | ⁶ Well Number 1 |
| ⁷ OGRID No. 13837 | ⁸ Operator Name MACK ENERGY CORPORATION | ⁹ Elevation 3581.6 |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N | 25 | 15 S | 28 E | | 330 | SOUTH | 1550 | WEST | CHAVES |

¹¹ 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 |
|-------------------------------------|-------------------------------|----------------------------------|-------------------------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| ¹² Dedicated Acres 40 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | | | | | | |

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.

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| <p>S89°33'59"E 2637.60 FT</p> <p>NW CORNER SEC. 25 LAT. = 32.9942570°N LONG. = 104.0938829°W</p> <p>NMSP EAST (FT) N = 725530.56 E = 614752.22</p> <p>E059880005</p> | | | | <p>S89°33'59"E 2637.60 FT</p> <p>N/4 CORNER SEC. 25 SCALED</p> <p>NE CORNER SEC. 25 LAT. = 32.9941131°N LONG. = 104.0766827°W</p> <p>NMSP EAST (FT) N = 725490.64 E = 620025.90</p> | | | |
| <p>N00°14'12"W 2645.52 FT</p> <p>W/4 CORNER SEC. 25 LAT. = 32.9869876°N LONG. = 104.0938869°W</p> <p>NMSP EAST (FT) N = 722885.75 E = 614763.15</p> <p>V097640000</p> | | | | <p>NMNM 132673</p> <p>E/4 CORNER SEC. 25 LAT. = 32.9869717°N LONG. = 104.0765798°W</p> <p>NMSP EAST (FT) N = 722892.47 E = 620063.79</p> | | | |
| <p>N00°19'12"W 2646.01 FT</p> <p>SW CORNER SEC. 25 LAT. = 32.9797168°N LONG. = 104.0938384°W</p> <p>NMSP EAST (FT) N = 720240.47 E = 614777.92</p> | | | | <p>NMNM 0560397</p> <p>S/4 CORNER SEC. 25 LAT. = 32.9797325°N LONG. = 104.0852699°W</p> <p>NMSP EAST (FT) N = 720252.26 E = 617405.42</p> | | | |
| <p>S89°44'34"W 2648.21 FT</p> <p>1550'</p> <p>330'</p> <p>SURFACE LOCATION</p> | | | | <p>S00°38'15"W 2635.78 FT</p> <p>SE CORNER SEC. 25 LAT. = 32.9797296°N LONG. = 104.0766964°W</p> <p>NMSP EAST (FT) N = 720257.54 E = 620034.47</p> | | | |
| <p>S89°53'06"W 2629.74 FT</p> | | | | <p>S00°50'07"E 2599.11 FT</p> | | | |

¹⁷ OPERATOR CERTIFICATION

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.

Deana Weaver 6/22/2023
Signature Date

Deana Weaver
Printed Name

dweaver@mec.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

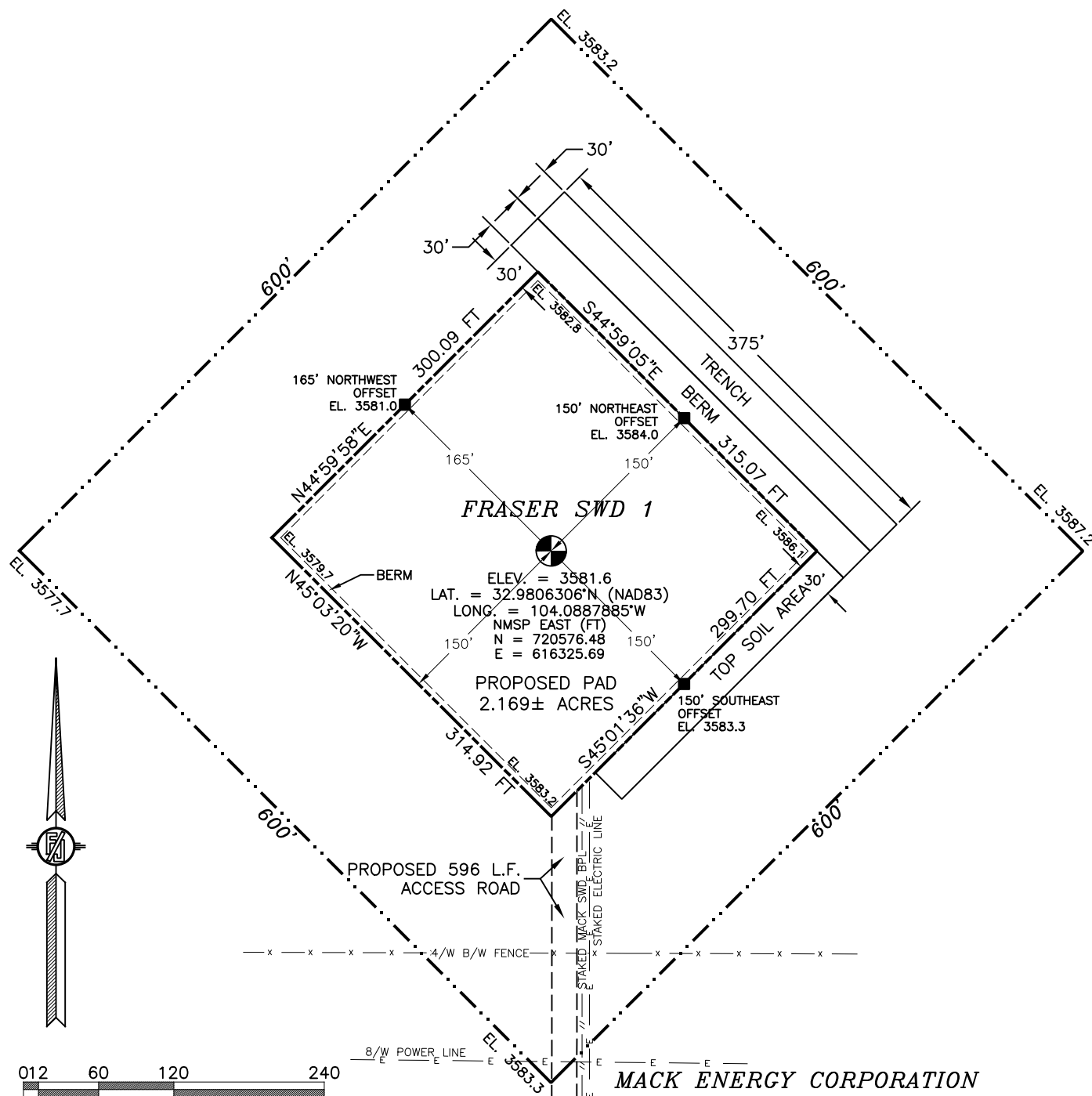
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 13, 2023
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number: 12797
Surveyor No. 9748A

SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
SITE MAP



012 60 120 240
SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM INTERSECTION OF STATE HIGHWAY 82 AND CR 209 (TURKEY TRACT) GO NORTH ON CR 209 APPROX. 3.0 MILES TO END OF CR MAINTENANCE, CONTINUE NORTH ON TURKEY TRACT ROAD APPROX. 6.5 MILES, CONTINUE NORTHEAST ON 20' CALICHE LEASE ROAD APPROX. 0.6 OF A MILE, TURN EAST ON 20' CALICHE LEASE ROAD AND GO APPROX. 0.6 OF A MILE TO A ROAD SURVEY ON LEFT (NORTH) FOLLOW ROAD SURVEY NORTH APPROX. 596' TO THE SOUTH PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT I HAVE DIRECTED AND SUPERVISED THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF IT COMES WITHIN THE MINIMUM STANDARDS FOR SURVEYING PRACTICE.

FILMON F. JARAMILLO, REGISTERED PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3327

**MACK ENERGY CORPORATION
FRASER SWD 1**

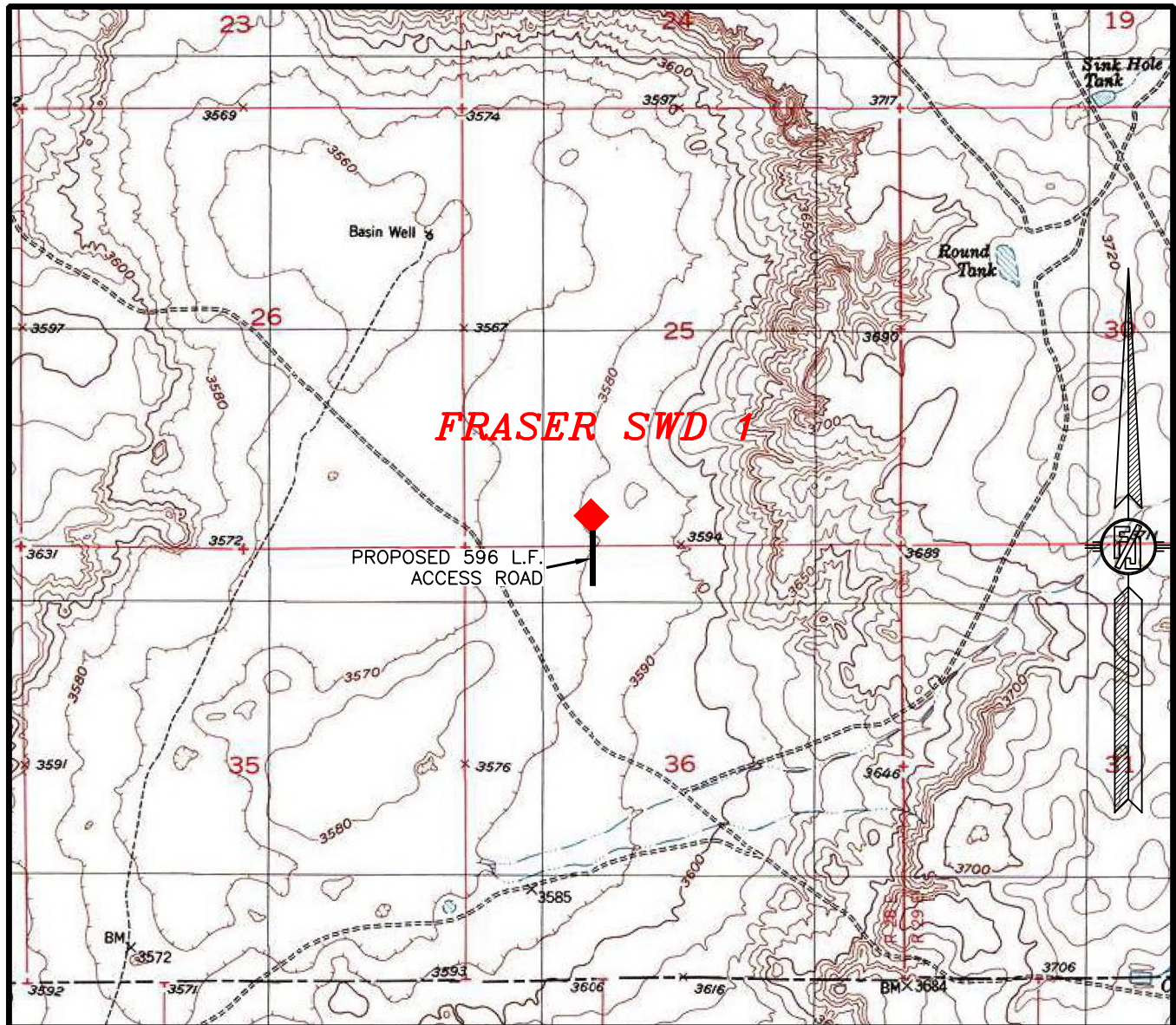
LOCATED 330 FT. FROM THE SOUTH LINE
AND 1550 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

JUNE 13, 2023

SURVEY NO. 9748A

CARLSBAD, NEW MEXICO

SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BASIN WELL

NOT TO SCALE

MACK ENERGY CORPORATION
FRASER SWD 1
LOCATED 330 FT. FROM THE SOUTH LINE
AND 1550 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

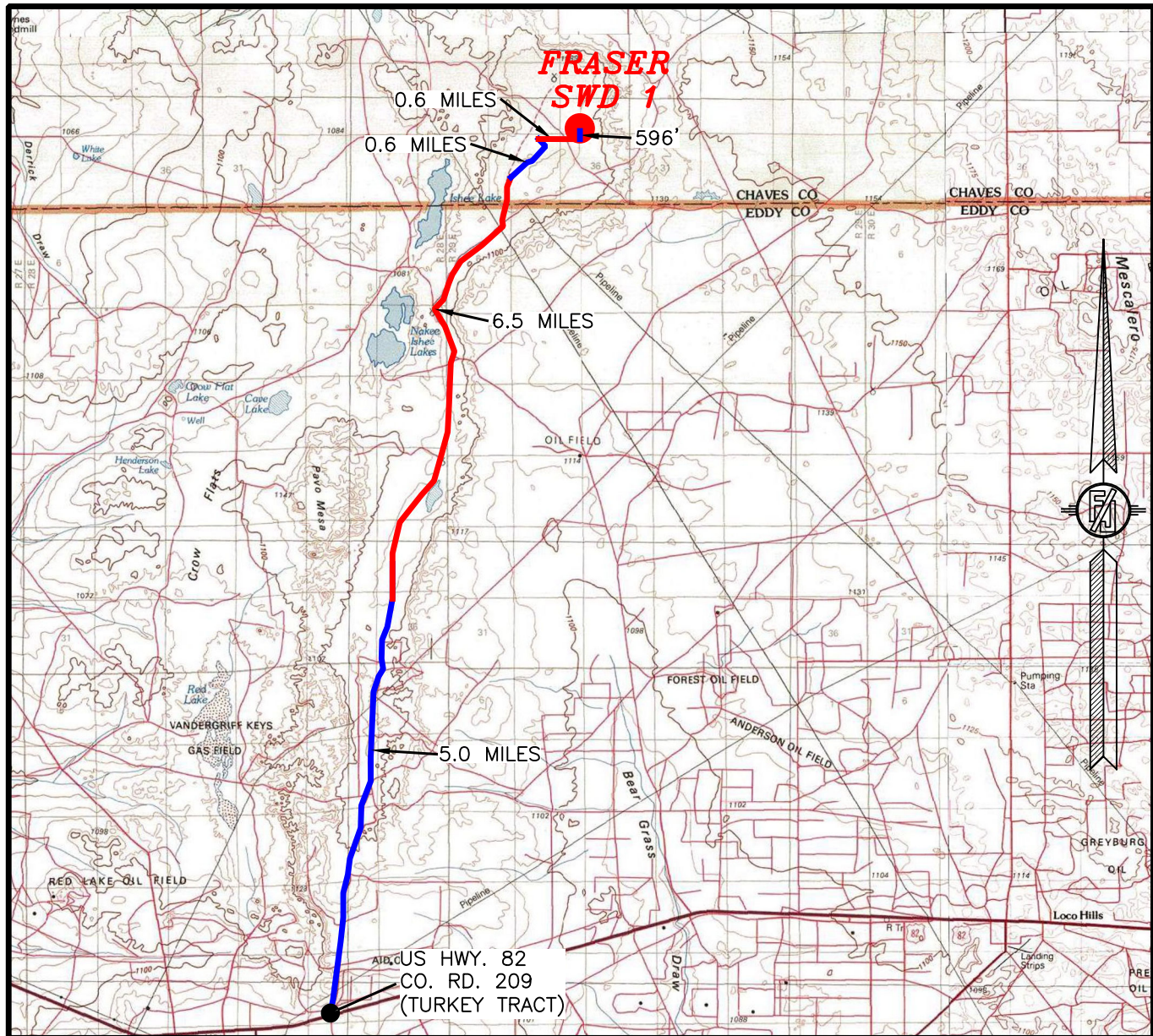
JUNE 13, 2023

SURVEY NO. 9748A

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3327

CARLSBAD, NEW MEXICO

SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM INTERSECTION OF STATE HIGHWAY 82 AND CR 209 (TURKEY TRACT) GO NORTH ON CR 209 APPROX. 5.0 MILES TO END OF CR MAINTENANCE, CONTINUE NORTH ON TURKEY TRACT ROAD APPROX. 6.5 MILES, CONTINUE NORTHEAST ON 20' CALICHE LEASE ROAD APPROX. 0.6 OF A MILE, TURN EAST ON 20' CALICHE LEASE ROAD AND GO APPROX. 0.6 OF A MILE TO A ROAD SURVEY ON LEFT (NORTH), FOLLOW ROAD SURVEY NORTH APPROX. 596' TO THE SOUTH PAD CORNER FOR THIS LOCATION.

MACK ENERGY CORPORATION**FRASER SWD 1**

LOCATED 330 FT. FROM THE SOUTH LINE
AND 1550 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

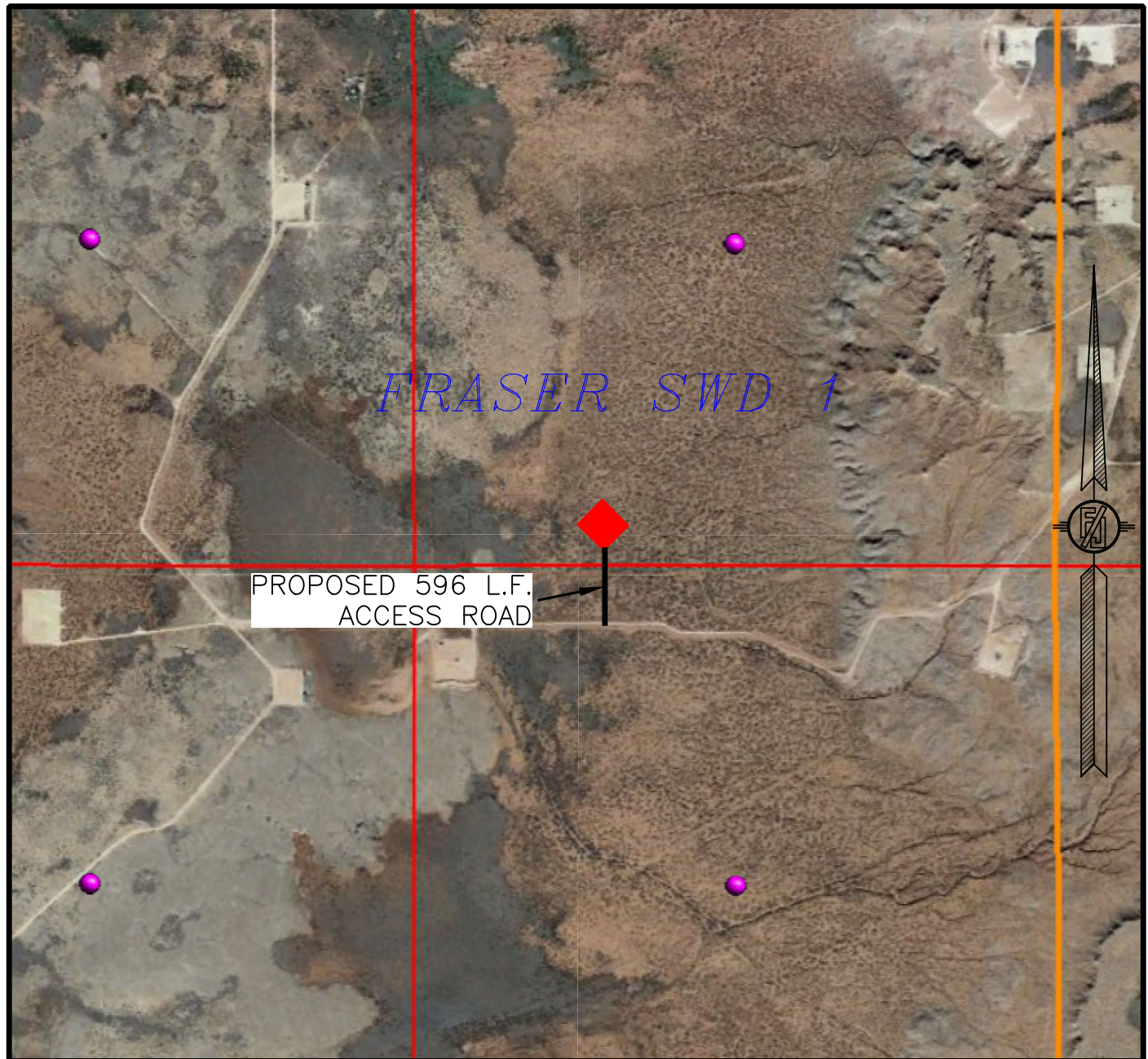
JUNE 13, 2023

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3327

SURVEY NO. 9748A
CARLSBAD, NEW MEXICO

SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

MACK ENERGY CORPORATION
FRASER SWD 1
LOCATED 330 FT. FROM THE SOUTH LINE
AND 1550 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

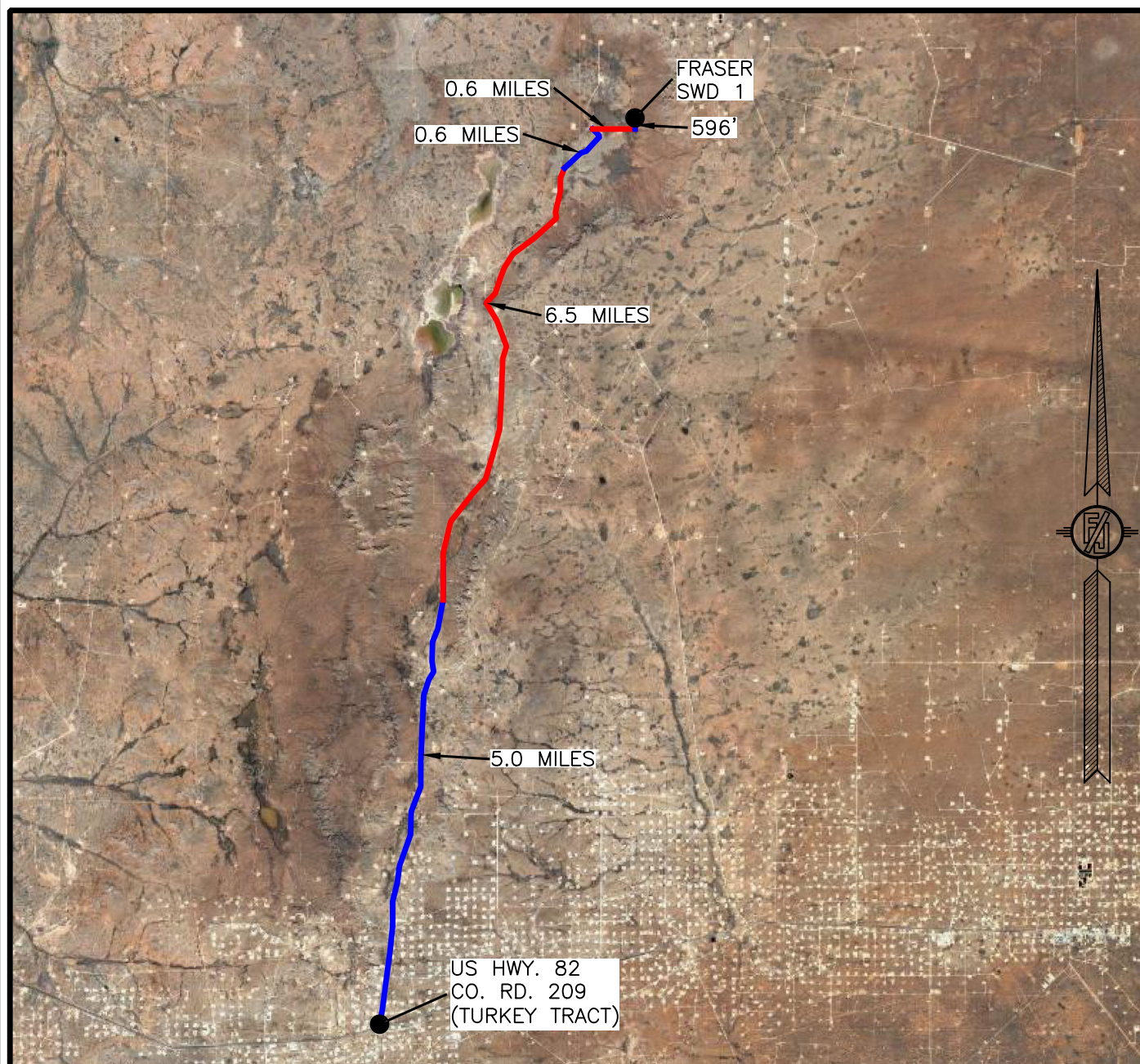
JUNE 13, 2023

SURVEY NO. 9748A

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3327

CARLSBAD, NEW MEXICO

SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
DEC. 2019

MACK ENERGY CORPORATION
FRASER SWD 1
LOCATED 330 FT. FROM THE SOUTH LINE
AND 1550 FT. FROM THE WEST LINE OF
SECTION 25, TOWNSHIP 15 SOUTH,
RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

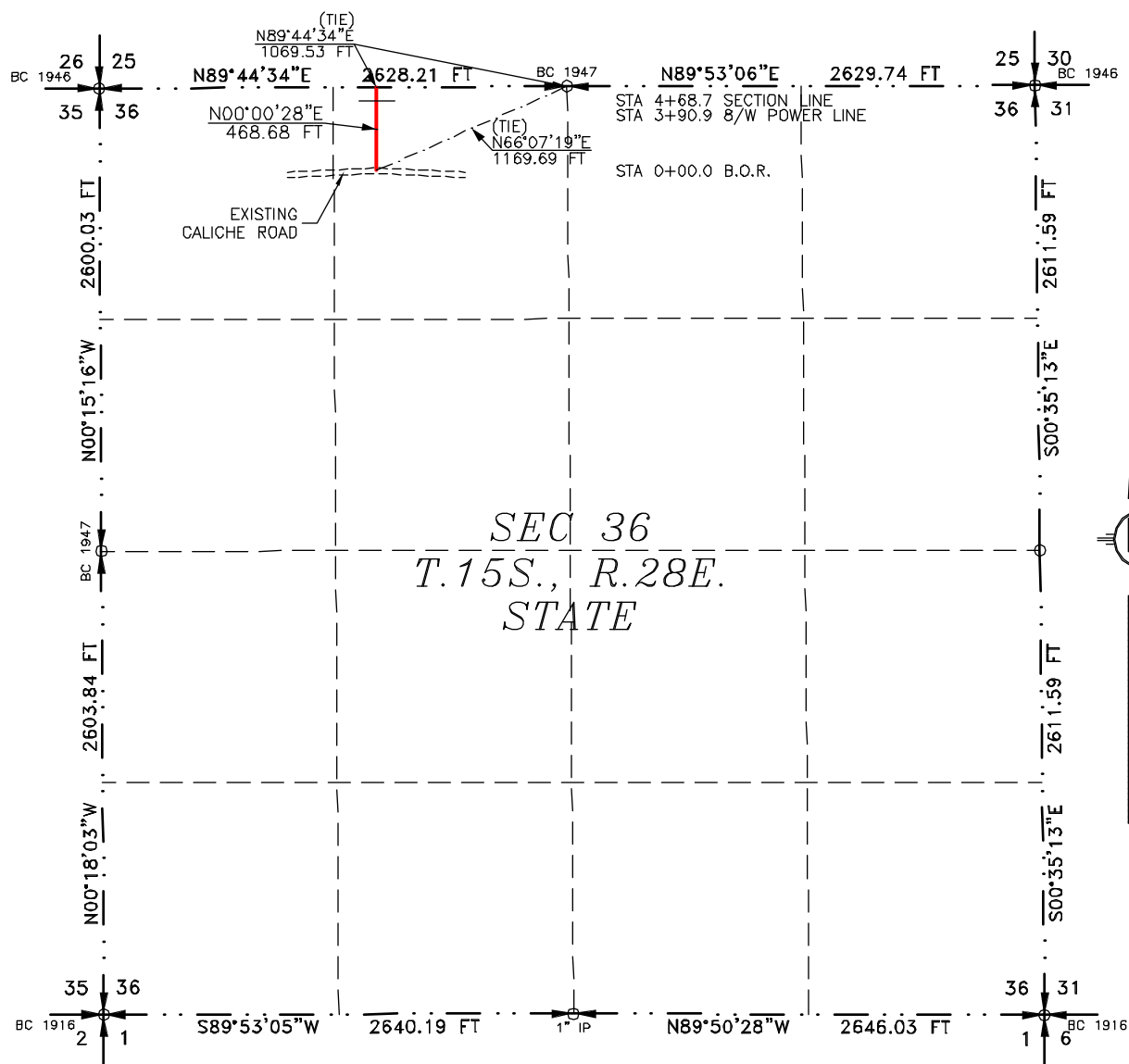
JUNE 13, 2023

SURVEY NO. 9748A

MADRON SURVEYING, INC. 301 SOUTH CANAL
(575) 234-3327

CARLSBAD, NEW MEXICO

*MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
JUNE 13, 2023*



1000 0 1000

Scale: 1" = 1000'

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH GUNN, SUITE 100, ALBUQUERQUE, NEW MEXICO 87102
(505) 231-1527

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 22ND DAY OF JUNE 2023.

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SURVEY NO. 9748A

ACCESS ROAD PLAT
ACCESS ROAD FOR FRASER SWD 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
JUNE 13, 2023

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N66°07'19"E, A DISTANCE OF 1169.69 FEET;

THENCE N00°00'28"E A DISTANCE OF 468.68 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N89°44'34"E, A DISTANCE OF 1069.53 FEET;

SAID STRIP OF LAND BEING 468.68 FEET OR 28.40 RODS IN LENGTH, CONTAINING 0.323 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 468.68 L.F. 28.40 RODS 0.323 ACRES

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

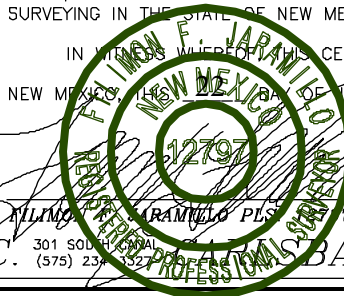
SHEET: 2-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220
(575) 234-3327

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF JUNE 2023

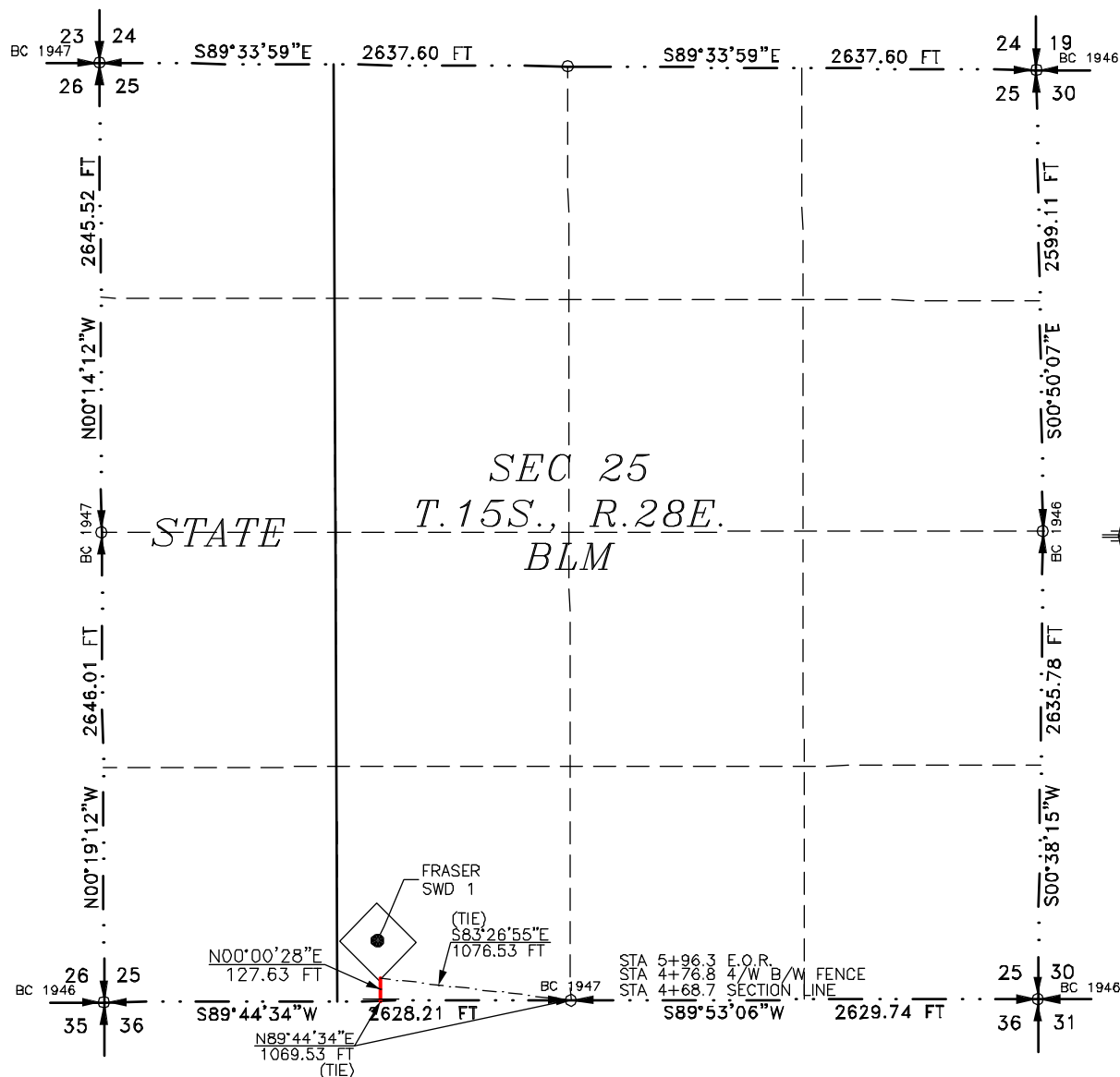


MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

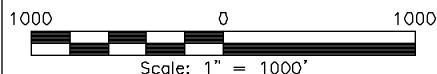
SURVEY NO. 9748A

ACCESS ROAD PLAT
ACCESS ROAD FOR FRASER SWD 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
JUNE 13, 2023



SEE NEXT SHEET (4-4) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-4

MADRON SURVEYING, INC.

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF JUNE 2023

FILMON F. JARAMILLO
NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SURVEY NO. 9748A

ACCESS ROAD PLAT
ACCESS ROAD FOR FRASER SWD 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
JUNE 13, 2023

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SW/4 OF SAID SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N89°44'34"E, A DISTANCE OF 1069.53 FEET;
THENCE N00°00'28"E A DISTANCE OF 127.63 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 25, TOWNSHIP 15 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S83°26'55"E, A DISTANCE OF 1076.53 FEET;

SAID STRIP OF LAND BEING 127.63 FEET OR 7.73 RODS IN LENGTH, CONTAINING 0.088 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4 127.63 L.F. 7.73 RODS 0.088 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14th DAY OF JUNE 2023

FILIMON F. JARAMILLO
12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3327

SURVEY NO. 9748A

Fraser SWD #1
Unit N Sec. 25 T15S R28E
330 FSL 1550 FWL, Chaves County
Formation Tops

| | |
|------------|---------|
| Yates | 575' |
| 7 Rivers | 810' |
| Queen | 1300' |
| Grayburg | 1715' |
| San Andres | 2045' |
| Glorieta | 3545' |
| Tubb | 4835' |
| Abo | 5530' |
| Wolfcamp | 6880' |
| Cisco | 7750' |
| Atoka | 9220' |
| Miss | 9585' |
| Woodford | 10,360' |
| Devonian | 10,415' |
| Montoya | 10,960' |

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 283390

CONDITIONS

| | |
|--|--|
| Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960 | OGRID: 13837 |
| | Action Number: 283390 |
| | Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO) |

CONDITIONS

| | | |
|----------------|-----------|----------------|
| Created By | Condition | Condition Date |
| anthony.harris | None | 11/7/2023 |