

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: _____ 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

 Date

 Phone Number

 Signature

 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 _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: Redwood Operating LLC
ADDRESS: P.O. Box 1370 Artesia, NM 88211-1370
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 _____ ☒ 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: 12/15/2022
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: Redwood Operating LLC

WELL NAME & NUMBER: Angel Ranch SWD #2

WELL LOCATION: 588 FNL & 2157 FEL FOOTAGE LOCATION B UNIT LETTER 11 SECTION T19S TOWNSHIP R27E RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

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

Cemented with: 550 sx. or ft³

Top of Cement: 0 Method Determined: Circ

1st & 2nd Intermediate Casing

Hole Size: 12 1/4" Casing Size: 1st- 9 5/8" 2nd- 7"

Cemented with: 1st- 925 2nd-975 sx. or ft³

Top of Cement: 0 Method Determined: Circ

Production Casing

Hole Size: 8 3/4" Casing Size: 4 1/2" Production Liner

Cemented with: 100 sx. or ft³

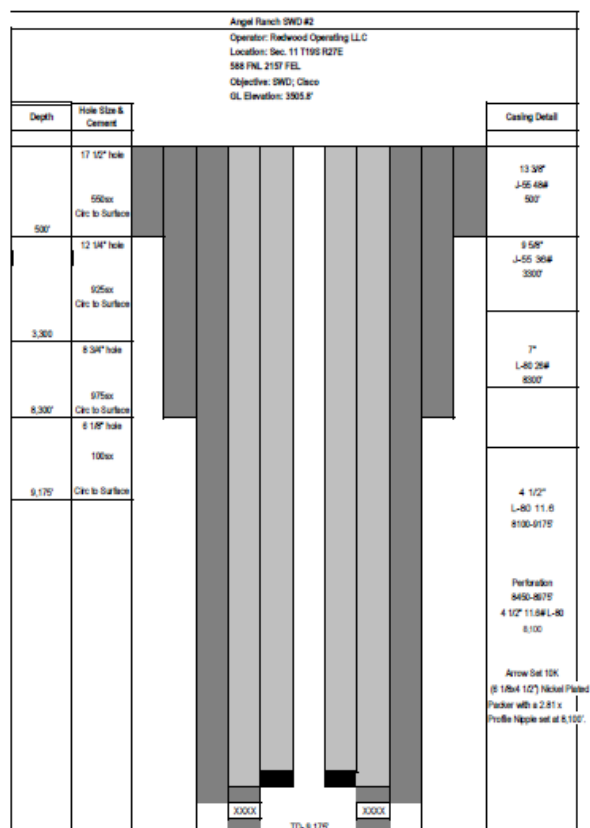
Top of Cement: 0 Method Determined: Circ

Total Depth: 9175'

Injection Interval

8450' feet to 8975' Perforated

(Perforated or Open Hole; indicate which)



Side 2

INJECTION WELL DATA SHEETTubing Size: 4 1/2" Lining Material: IPCType of Packer: Arrow Set 10K (6 1/8" x 4 1/2") Nickel Plated Packer w/ a 2.81 Profile NipplePacker Setting Depth: 8,100'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?

2. Name of the Injection Formation: Cisco

3. Name of Field or Pool (if applicable): SWD; Cisco

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: Bone Springs- 3,225', Wolfcamp- 7,977', Cisco- 8,396', Strawn- 9,013'

Angel Ranch SWD #2

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;
0-4042#
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; Cisco**
3. Thickness; **525'**
4. Depth; **8,450-8,975' TD- 9,175'**

IX. PROPOSED STIMULATION PROGRAM

1. 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

See attached

Additional Information

Waters Injected:

San Andres

Glorieta

Yeso


XII. AFFIRMATIVE STATEMENT

RE: Angel Ranch SWD #2

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.

Redwood Operating LLC

Date: 12/13/22



Charles Sadler, Geologist

Angel Ranch SWD #2
588 FNL 2157 FEL
Sec. 11 T19S R27E
Formation Tops

Quaternary	Surface
Yates	395'
Seven Rivers	750'
Queen	1370'
Grayburg	1720'
San Andres	2105'
Bone Springs	3225'
Wolfcamp	7977'
Cisco	8396'
Strawn	9013'

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 96099	³ Pool Name SWD; Cisco
⁴ Property Code	⁵ Property Name ANGEL RANCH SWD	⁶ Well Number 2
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC	⁹ Elevation 3505.8

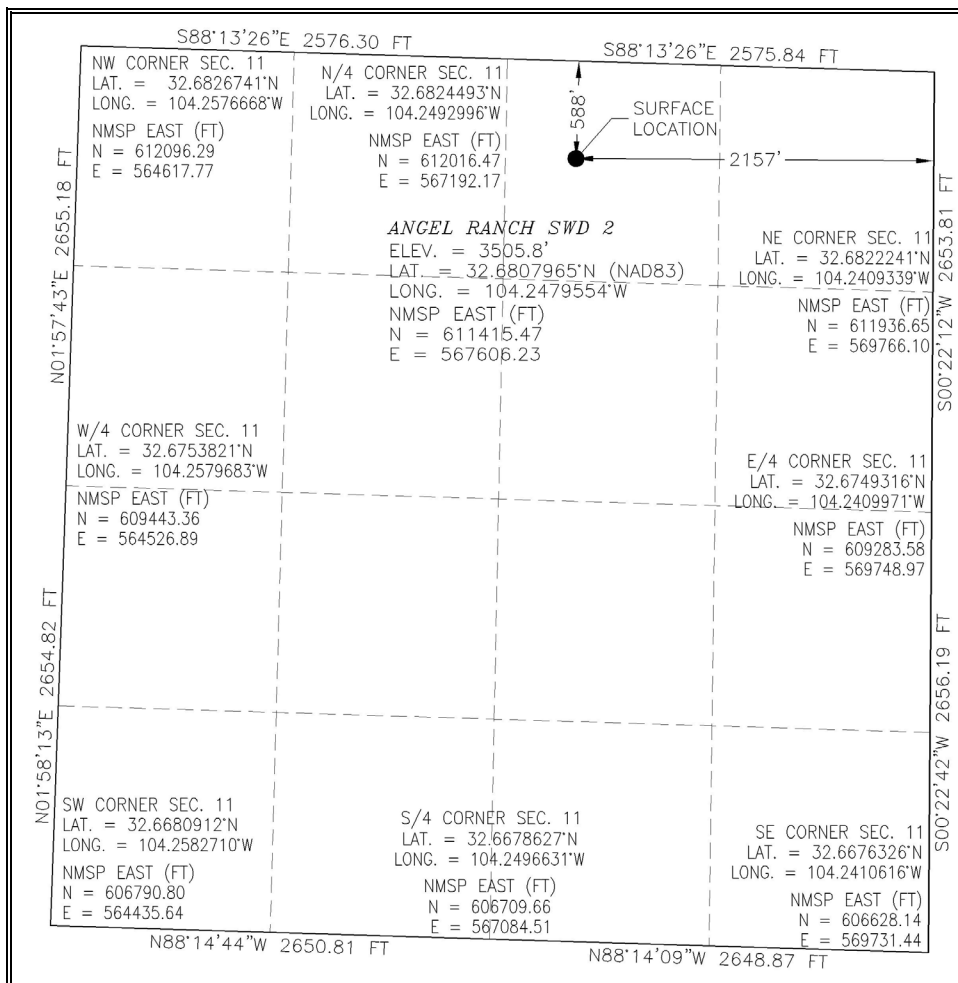
¹⁰ Surface Location

UL or lot no. B	Section 11	Township 19 S	Range 27 E	Lot Idn	Feet from the 588	North/South line NORTH	Feet from the 2157	East/West line EAST	County EDDY
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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.



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 12/13/2022

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.

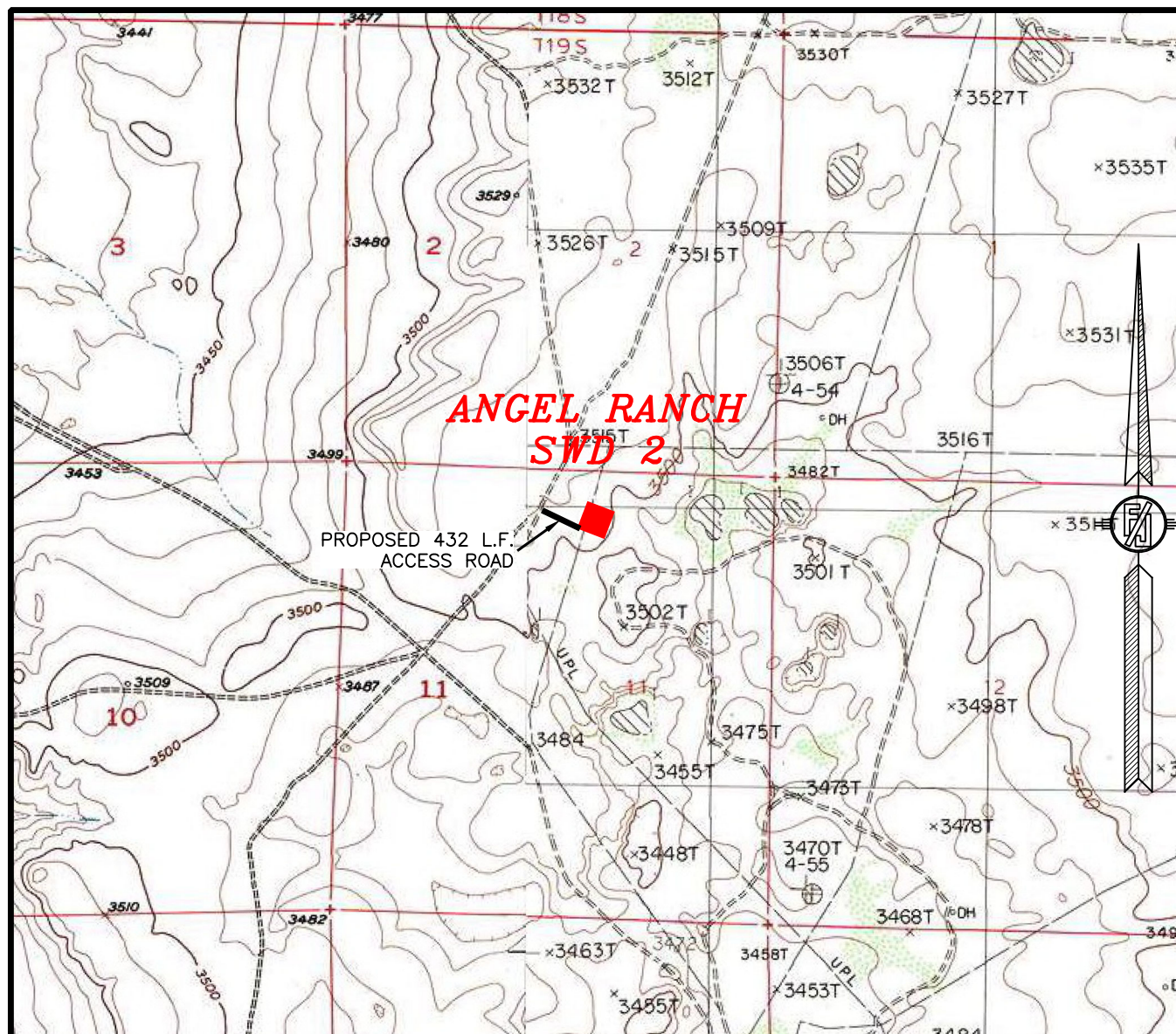
DECEMBER 1, 2022

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: 12797
SURVEY NO. 9580

SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 ILLINOIS CAMP

NOT TO SCALE

REDWOOD OPERATING, LLC
ANGEL RANCH SWD 2
 LOCATED 588 FT. FROM THE NORTH LINE
 AND 2157 FT. FROM THE EAST LINE OF
 SECTION 11, TOWNSHIP 19 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

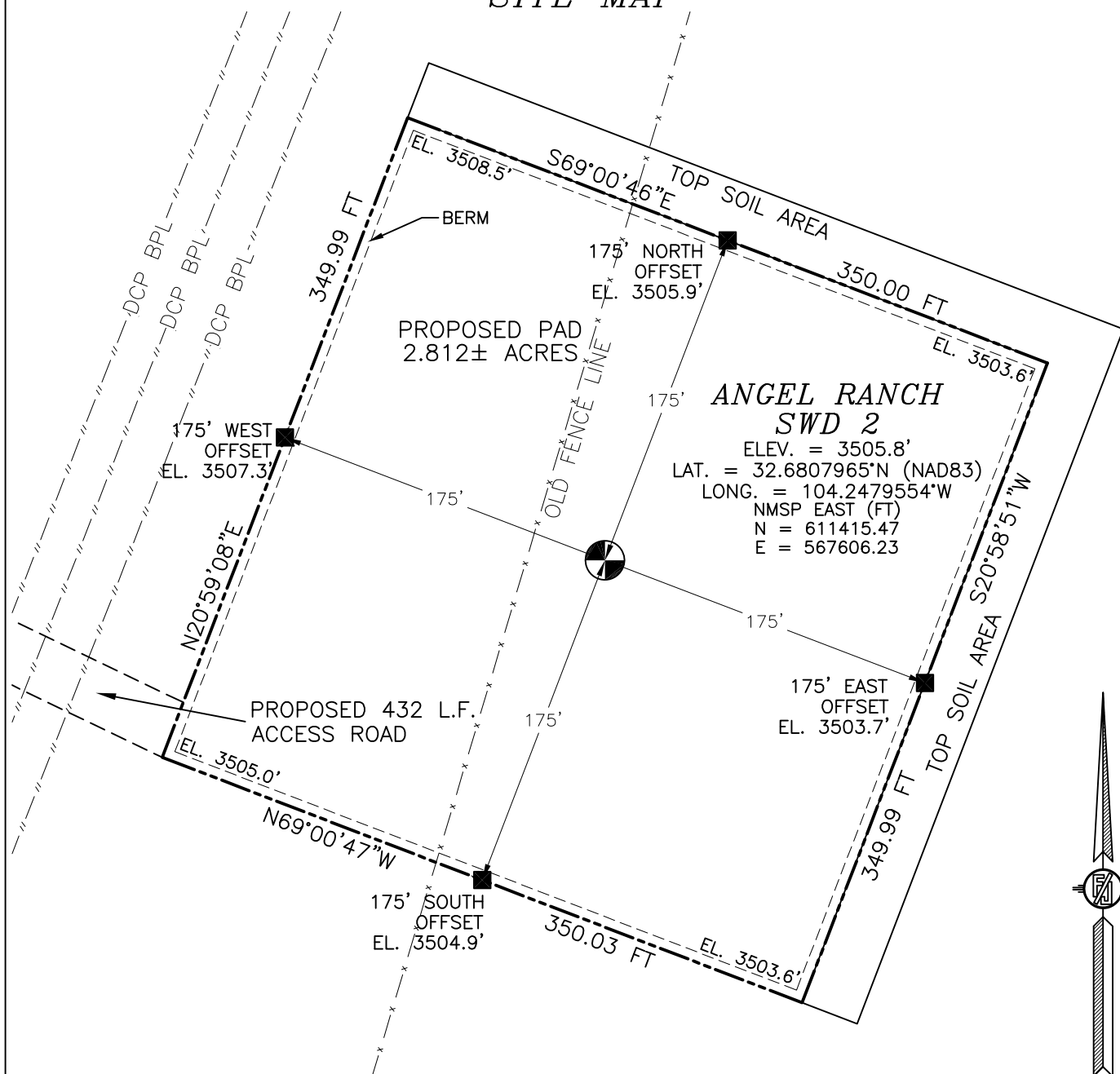
DECEMBER 1, 2022

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3327

SURVEY NO. 9580
 CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



0 8 40 80 160

SCALE 1" = 80'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF C.R. 206 (ILLINOIS CAMP) & C.R. 236 (NETHERLIN), GO WEST ON C.R. 236 APPROX. 1.3 MILES, JUST PAST CATTLE GUARD, TURN RIGHT ON CALICHE ROAD AND GO NORTH APPROX. 0.9 MILES, TAKE RIGHT FORK AND CONTINUE APPROX. 0.6 MILES TO A ROAD SURVEY ON RIGHT (EAST) FOLLOW ROAD SURVEY EAST APPROX. 432' TO THE SOUTHWEST CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SURVEYING IN THE STATE OF NEW MEXICO.

FILIMON F. JARAMILLO, PLS. 22798

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3327

REDWOOD OPERATING, LLC
ANGEL RANCH SWD 2

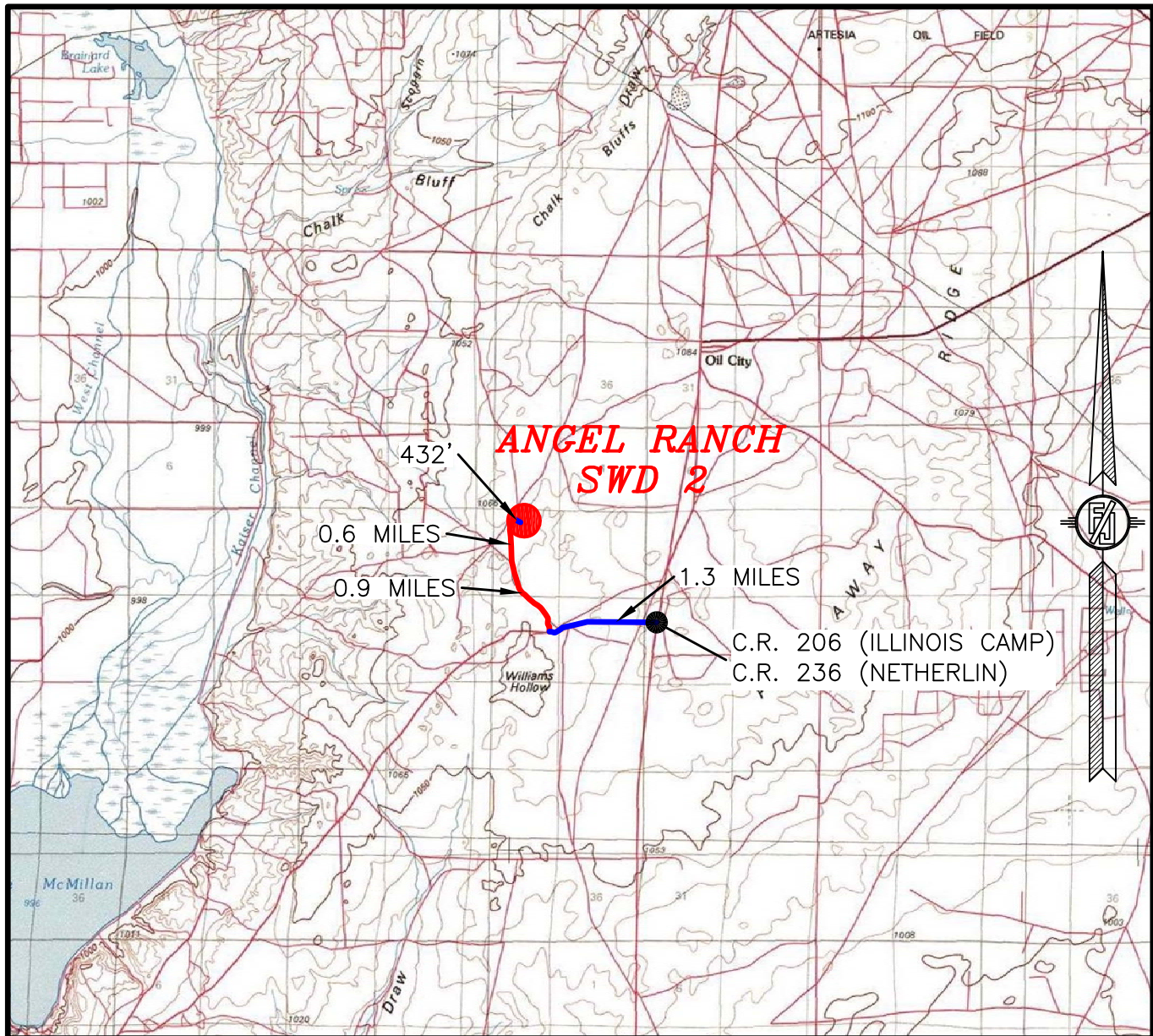
LOCATED 588 FT. FROM THE NORTH LINE
AND 2157 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 19 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 1, 2022

SURVEY NO. 9580

CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF C.R. 206 (ILLINOIS CAMP) & C.R. 236 (NETHERLIN), GO WEST ON C.R. 236 APPROX. 1.3 MILES, JUST PAST CATTLE GUARD, TURN RIGHT ON CALICHE ROAD AND GO NORTH APPROX. 0.9 MILES, TAKE RIGHT FORK AND CONTINUE APPROX. 0.6 MILES TO A ROAD SURVEY ON RIGHT (EAST). FOLLOW ROAD SURVEY EAST APPROX. 432' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

REDWOOD OPERATING, LLC
ANGEL RANCH SWD 2
 LOCATED 588 FT. FROM THE NORTH LINE
 AND 2157 FT. FROM THE EAST LINE OF
 SECTION 11, TOWNSHIP 19 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 1, 2022

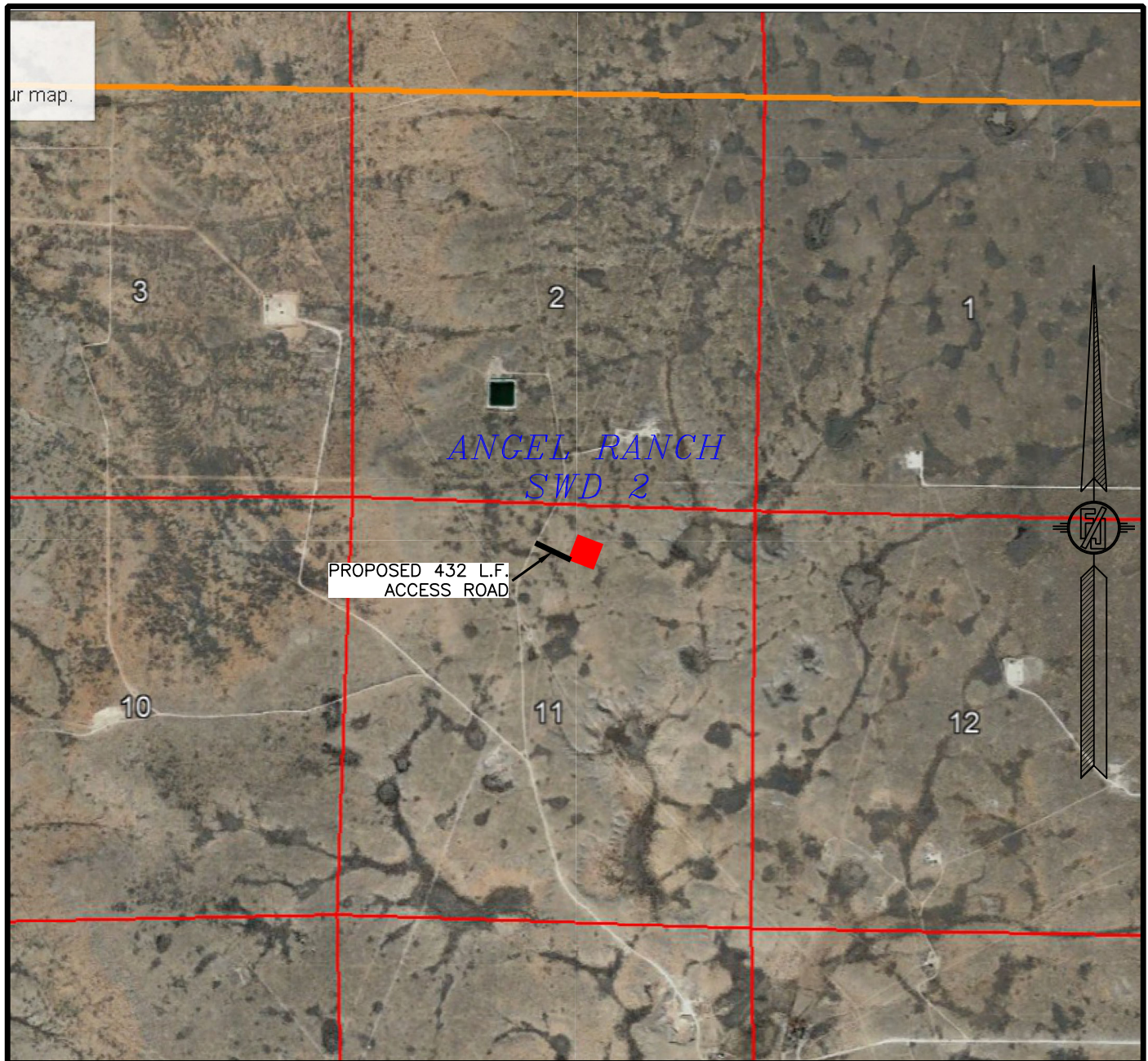
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3327

CARLSBAD, NEW MEXICO

SURVEY NO. 9580

SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

REDWOOD OPERATING, LLC
ANGEL RANCH SWD 2
 LOCATED 588 FT. FROM THE NORTH LINE
 AND 2157 FT. FROM THE EAST LINE OF
 SECTION 11, TOWNSHIP 19 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

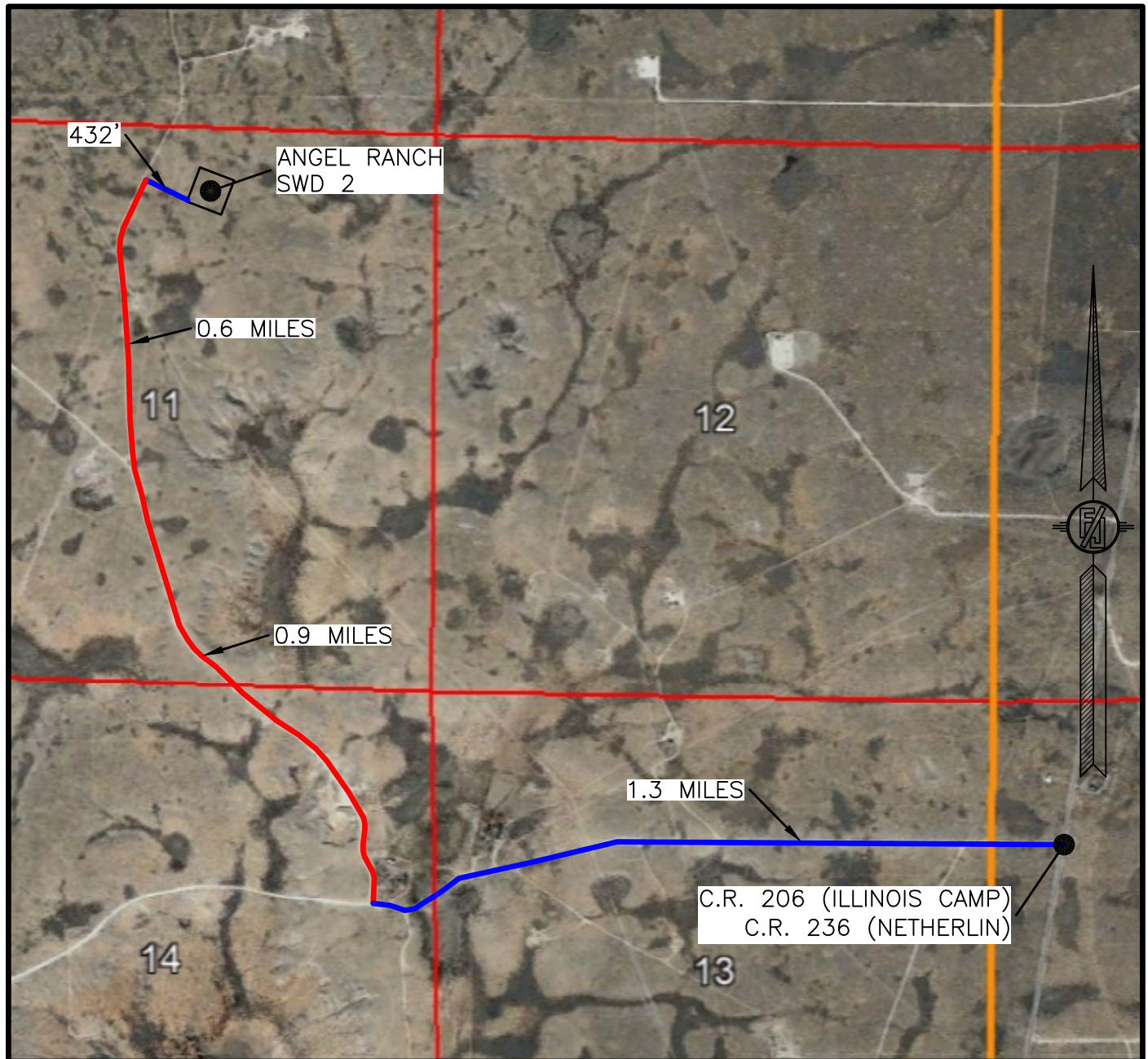
DECEMBER 1, 2022

SURVEY NO. 9580

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

CARLSBAD, NEW MEXICO

SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

REDWOOD OPERATING, LLC
ANGEL RANCH SWD 2
 LOCATED 588 FT. FROM THE NORTH LINE
 AND 2157 FT. FROM THE EAST LINE OF
 SECTION 11, TOWNSHIP 19 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 1, 2022

SURVEY NO. 9580

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

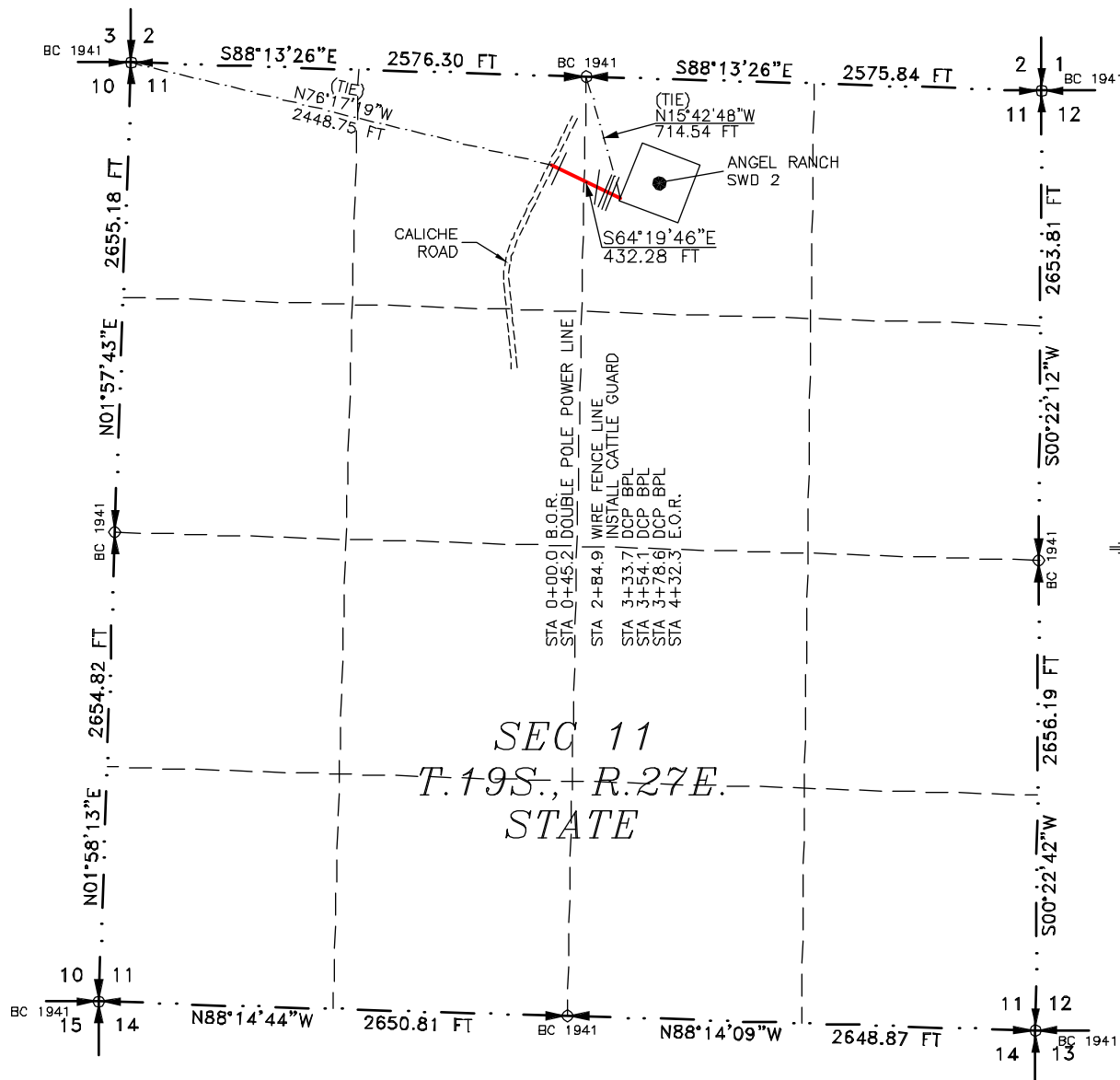
CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

PROPOSED ACCESS ROAD FOR ANGEL RANCH SWD 2

REDWOOD OPERATING, LLC

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022



SEE NEXT SHEET (2-2) FOR DESCRIPTION

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 5TH DAY OF DECEMBER 2022

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

SURVEY NO. 9580

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

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: 1-2

ACCESS ROAD PLAT

PROPOSED ACCESS ROAD FOR ANGEL RANCH SWD 2

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY 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 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N76°17'19"W, A DISTANCE OF 2448.75 FEET;
THENCE S64°19'46"E A DISTANCE OF 432.28 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N15°42'48"W, A DISTANCE OF 714.54 FEET;

SAID STRIP OF LAND BEING 432.28 FEET OR 26.20 RODS IN LENGTH, CONTAINING 0.298 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4	204.31 L.F.	12.38 RODS	0.141 ACRES
NW/4 NE/4	227.97 L.F.	13.82 RODS	0.157 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 1ST DAY OF DECEMBER 2022

FILIMON F. JARAMILLO, PLS. 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: 2-2

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

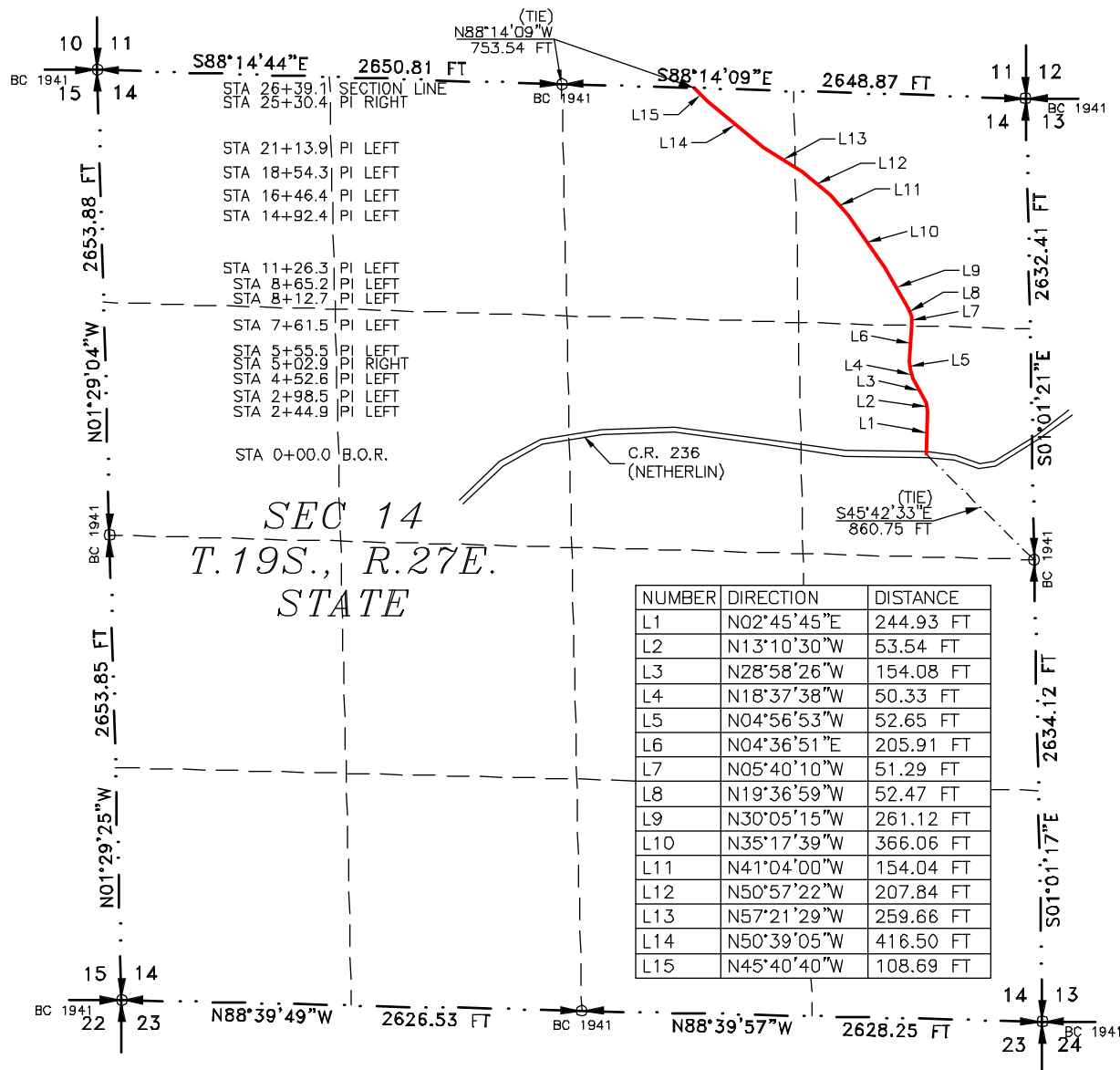
SURVEY NO. 9580

ACCESS ROAD PLAT

EXISTING ROAD FOR ACCESS TO ANGEL RANCH SWD 2

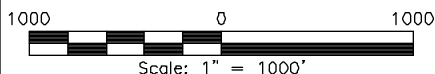
REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022**



**SEC 14
T.19S., R.27E.
STATE**

SEE NEXT SHEET (2-4) 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: 1-4

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

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 5TH DAY OF DECEMBER 2022

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

SURVEY NO. 9580

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

ACCESS ROAD PLAT

EXISTING ROAD FOR ACCESS TO ANGEL RANCH SWD 2

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY 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 NE/4 OF SAID SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S45°42'33"E, A DISTANCE OF 860.75 FEET;
THENCE N02°45'45"E A DISTANCE OF 244.93 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N13°10'30"W A DISTANCE OF 53.54 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N28°58'26"W A DISTANCE OF 154.08 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N18°37'38"W A DISTANCE OF 50.33 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N04°56'53"W A DISTANCE OF 52.65 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N04°36'51"E A DISTANCE OF 205.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N05°40'10"W A DISTANCE OF 51.29 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N19°36'59"W A DISTANCE OF 52.47 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N30°05'15"W A DISTANCE OF 261.12 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N35°17'39"W A DISTANCE OF 366.06 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N41°04'00"W A DISTANCE OF 154.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N50°57'22"W A DISTANCE OF 207.84 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N57°21'29"W A DISTANCE OF 259.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N50°39'05"W A DISTANCE OF 416.50 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N45°40'40"W A DISTANCE OF 108.69 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N88°14'09"W, A DISTANCE OF 753.54 FEET;

SAID STRIP OF LAND BEING 2639.12 FEET OR 159.95 RODS IN LENGTH, CONTAINING 1.818 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NE/4	758.75 L.F.	45.98 RODS	0.523 ACRES
NE/4 NE/4	1142.12 L.F.	69.22 RODS	0.787 ACRES
NW/4 NE/4	738.25 L.F.	44.74 RODS	0.508 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 1ST DAY OF DECEMBER 2022

FILIMON F. JARAMILLO, PLS
301 SOUTH CANAL
(575) 234-3327
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 9580

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

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.

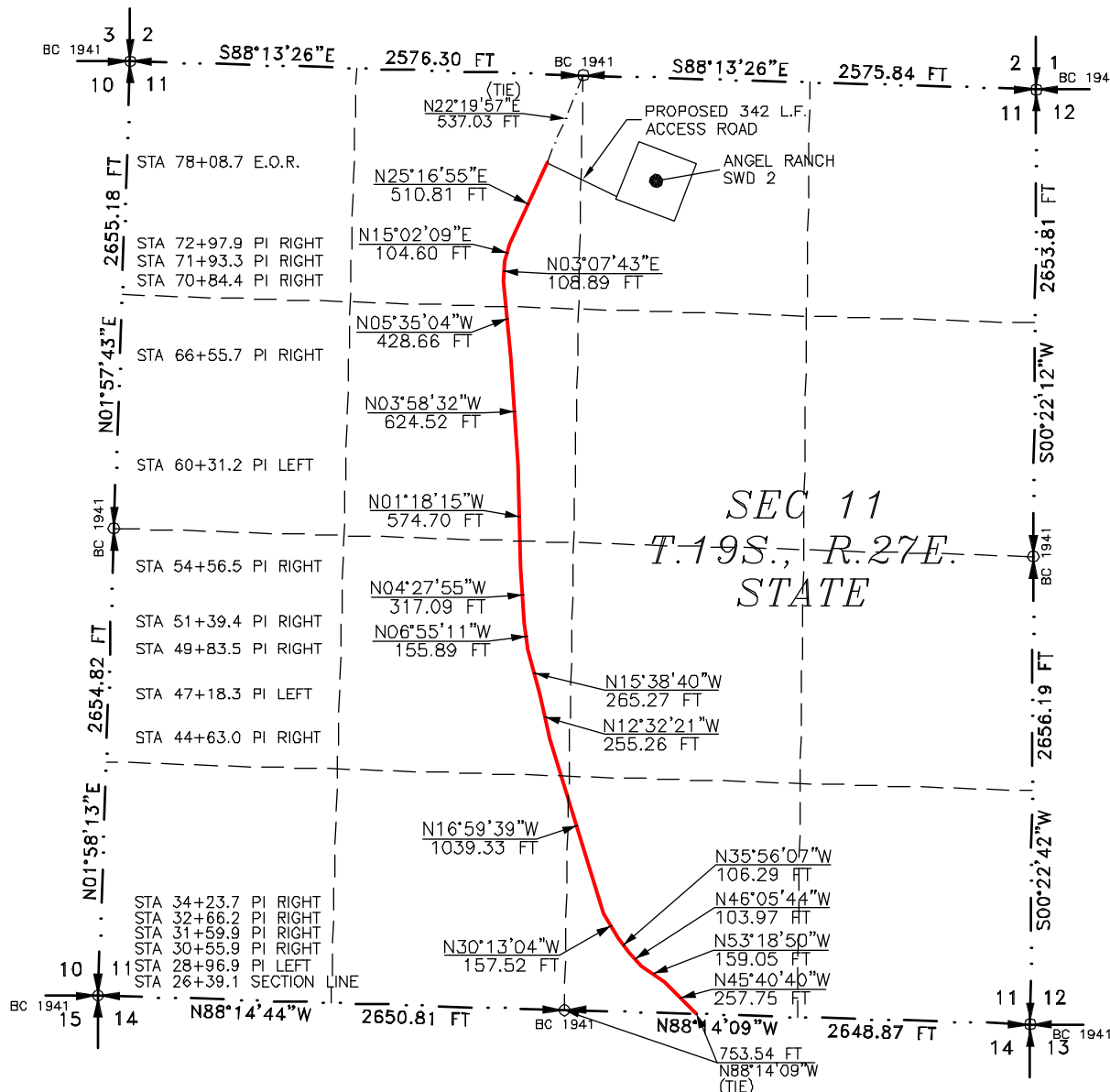
SHEET: 2-4

ACCESS ROAD PLAT

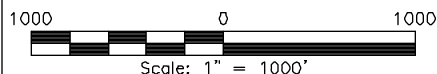
EXISTING ROAD FOR ACCESS TO ANGEL RANCH SWD 2

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022**



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 1ST DAY OF DECEMBER 2022

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

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

SURVEY NO. 9580

ACCESS ROAD PLAT

EXISTING ROAD FOR ACCESS TO ANGEL RANCH SWD 2

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
DECEMBER 1, 2022**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N88°14'09"W, A DISTANCE OF 753.54 FEET;

THENCE N45°40'40"W A DISTANCE OF 257.75 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N53°18'50"W A DISTANCE OF 159.05 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N46°05'44"W A DISTANCE OF 103.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N35°56'07"W A DISTANCE OF 106.29 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N30°13'04"W A DISTANCE OF 157.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N16°59'39"W A DISTANCE OF 1039.33 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N12°32'21"W A DISTANCE OF 255.26 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N15°38'40"W A DISTANCE OF 265.27 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N06°55'11"W A DISTANCE OF 155.89 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N04°27'55"W A DISTANCE OF 317.09 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N01°18'15"W A DISTANCE OF 574.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N03°58'32"W A DISTANCE OF 624.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N05°35'04"W A DISTANCE OF 428.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N03°07'43"E A DISTANCE OF 108.89 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N15°02'09"E A DISTANCE OF 104.60 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N25°16'55"E A DISTANCE OF 510.81 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 11, TOWNSHIP 19 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N22°19'57"E, A DISTANCE OF 537.03 FEET;

SAID STRIP OF LAND BEING 5169.58 FEET OR 313.31 RODS IN LENGTH, CONTAINING 3.560 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4	1469.88 L.F.	89.08 RODS	1.012 ACRES
SE/4 SW/4	132.63 L.F.	8.04 RODS	0.091 ACRES
NE/4 SW/4	1363.19 L.F.	82.62 RODS	0.939 ACRES
SE/4 NW/4	1333.17 L.F.	80.80 RODS	0.918 ACRES
NE/4 NW/4	870.71 L.F.	52.77 RODS	0.600 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 1ST DAY OF DECEMBER 2022

FILIMON F. JARAMILLO, PLS
301 SOUTH CANAL, CARLSBAD, NEW MEXICO 88220
(575) 234-3327

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

SURVEY NO. 9580

MADRON SURVEYING, INC.

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

Released to Imaging: 5/10/2023 2:54:33PM

Affidavit of Publication

No. 26398

State of New Mexico
County of Eddy:
I, **Randy Scott**

do hereby 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
state, and that the hereto attached

Legal Ad

is published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
to publish at 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	December 22, 2022
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this
22nd day of December 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

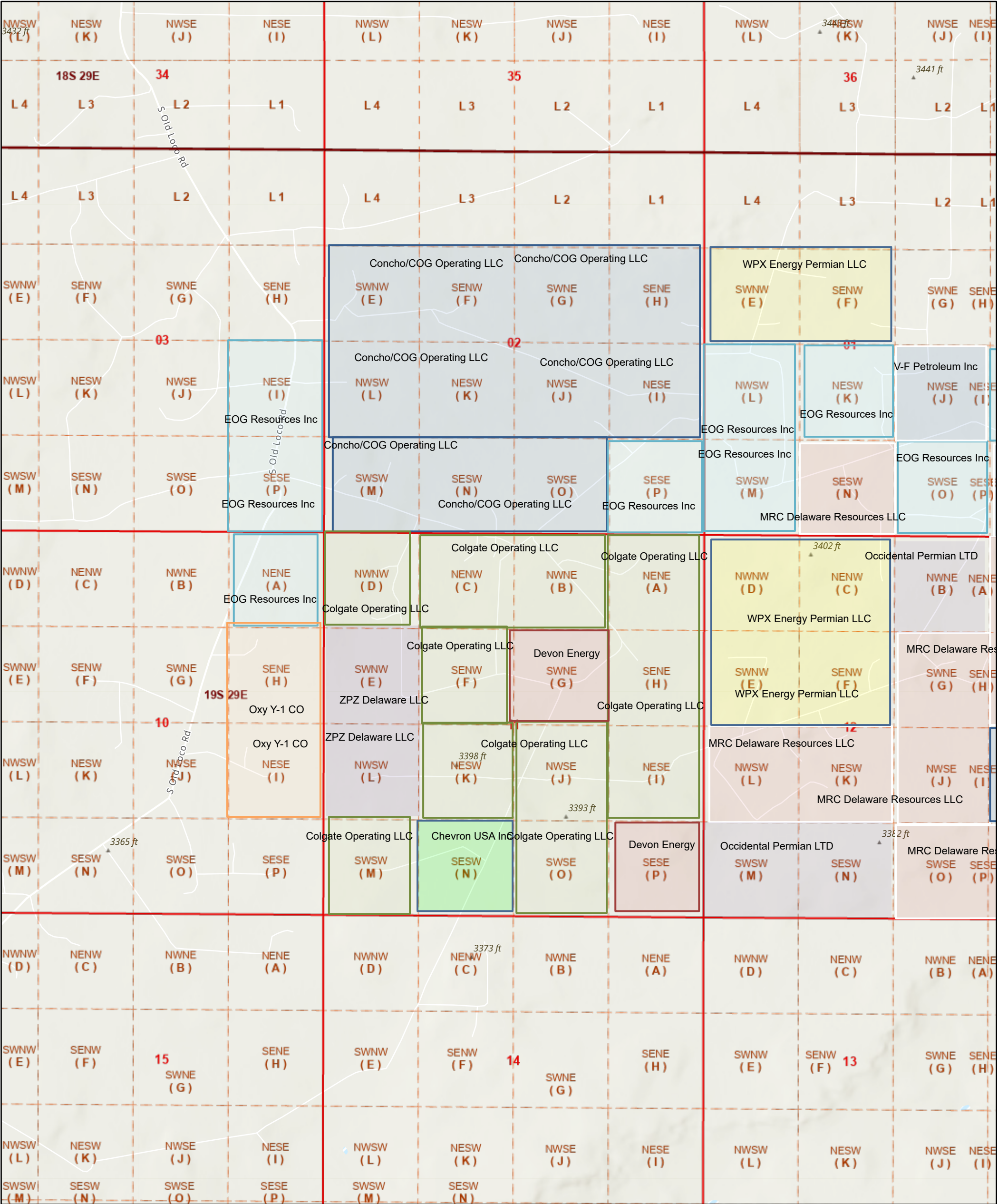
Redwood Operating LLC, Post Office Box 1370, Artesia, NM 88211-1370, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Angel Ranch SWD #2 588 FNL 2157 FEL of Section 11, T19S, R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Cisco at a disposal depth of 8,450-8,975'. Water will be injected at a maximum surface pressure of 4,042# and a maximum injection rate of 15,000-20,000 BWPD. Any interest party with questions or comments may contact Deana Weaver at Redwood Operating LLC, Post Office Box 1370, Artesia, NM 88211-1370 or call 575-748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of publication of this notice.

Published in the Artesia Daily Press, Artesia, N.M.,
Dec. 22, 2022 Legal No. 26398.

Received by OCD: 5/10/2023 2:13:08 PM

Name	Address	City	State	Zip	Certified Mail Id
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501	7021 1970 0000 5914 6109
Bureau Of Land Management	620 E. Greene St	Carlsbad	NM	88220-6292	7015 3430 0000 2217 2272
Concho Oil & Gas LLC	One Concho Center	Midland	TX	79701	7015 3430 0000 2217 2289
COG Operating LLC	600 W. Illinois Ave	Midland	TX	79701	7015 3430 0000 2217 2296
EOG Resources Inc	1111 Bagby St Lbby 2	Houston	TX	77002-2589	7015 3430 0000 2217 3583
OXY Y-1 CO	5 Greenway Plz Ste 110	Houston	TX	77046-0521	7015 3430 0000 2209 5922
Colgate Operating LLC	300 N. Marienfeld St Suite 1000	Midland	TX	79701	7015 3430 0000 2217 2258
ZPZ Delaware LLC Attn: Peggy Clark	2000 Post Oak Blvd Suite 100	Houston	TX	77056	7015 3430 0000 2217 2265
Chevron USA INC	6301 Deauville Blvd	Midland	TX	79706	7015 0640 0006 7024 4745
Devon Energy Production Company LP	333 W. Sheridan Ave	Oklahoma City	OK	73102	7015 3430 0000 2217 2456
Occidental Permian LTD	P.O. Box 4294	Houston	TX	77210-4294	7015 3430 0000 2217 2463
MRC Delaware Resources, LLC	108 South Fourth St	Artesia	NM	88210	7015 3430 0000 2217 2470
WPX Energy Permian LLC	333 W. Sheridan Ave	Oklahoma City	OK	73102	7015 3430 0000 2217 2487
V-F Petroleum Inc	P.O. Box 1889	Midland	TX	79702	7015 3430 0000 2217 2494

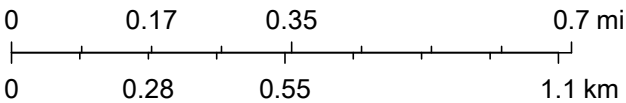
OCD Well Locations



11/9/2022, 10:58:50 AM

- Areas
- Override 18
 - Override 12
 - Override 14
 - Override 15
 - Override 16
 - Override 17
 - Override 19
 - Override 20
 - Override 21
 - Override 22
 - Override 23
 - Override 24
 - Override 25
 - Override 26
 - PLSS Second Division
 - PLSS First Division
 - PLSS Townships

1:18,056



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7021 1970 0000 5914 6109
Return Receipt Requested

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.746.1288
F: 575.746.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2272

Return Receipt Requested

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220-6292

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2289
Return Receipt Requested

Concho Oil & Gas LLC
One Concho Center
Midland, TX 79701

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 558 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.746.1288
F: 575.746.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2296

Return Receipt Requested

COG Operating LLC
600 W. Illinois Ave.
Midland, TX 79701

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.746.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 3583

Return Receipt Requested

EOG Resources Inc.
1111 Bagby St Lbby 2
Houston, TX 77002-2589

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.746.1288
F: 575.746.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2209 5922

Return Receipt Requested

OXY Y-1 Co
5 Greenway Plz Ste 110
Houston, TX 77046-0521

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2258

Return Receipt Requested

Colgate Operating LLC
300 N Marienfeld St Suite 1000
Midland, TX 79701

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2265

Return Receipt Requested

ZPZ Delaware LLC
Attn: Peggy Clark
2000 Post Oak Blvd Suite 100
Houston, TX 77056

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.746.9538
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 0640 0006 7024 4745

Return Receipt Requested

Chevron USA Inc
6301 Deauville Blvd
Midland, TX 79706

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9533
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2456
Return Receipt Requested

Devon Energy Production Company LP
333 W. Sheridan Ave
Oklahoma City, OK 73102

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.746.1288
F: 575.746.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2463

Return Receipt Requested

Occidental Permian LTD
P.O Box 4294
Houston, TX 77210-4294


To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2470

Return Receipt Requested

MRC Delaware Resources, LLC
108 South Fourth St
Artesia, NM 88210

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2487

Return Receipt Requested

WPX Energy Permian LLC
333 W. Sheridan Ave
Oklahoma City, OK 73102

To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

The letter will serve as a notice that Redwood Operating LLC has requested administrative approval from the NMOCD to drill this well as a water disposal. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
F: 575.748.9539
INFO@REDWOODOPERATING.COM

**REDWOOD
OPERATING LLC**
PO BOX 1370 ARTESIA NM 88211-1370

December 14, 2022

Via Certified Mail 7015 3430 0000 2217 2494

Return Receipt Requested

V-F Petroleum Inc
P.O Box 1889
Midland, TX 79702

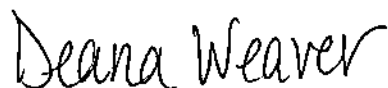
To all Interest Owners:

Enclosed for your review is a copy of Redwood Operating LLC's application for a Cisco SWD well. Produced water will be injected at a proposed depth of 8,450-8,975'. The Angel Ranch SWD #2 located 588 FNL & 2157 FEL, Sec. 11 T19S R27E, Eddy County.

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Sincerely,

Redwood Operating LLC



Deana Weaver
Regulatory Technician II

DW/

Attachments

O: 575.748.1288
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INFO@REDWOODOPERATING.COM

Angel Ranch SWD #2
C-108
Well Tabulation Penetrating Injection Zone in Review Area
Redwood Operating LLC
Proposed Disposal Well

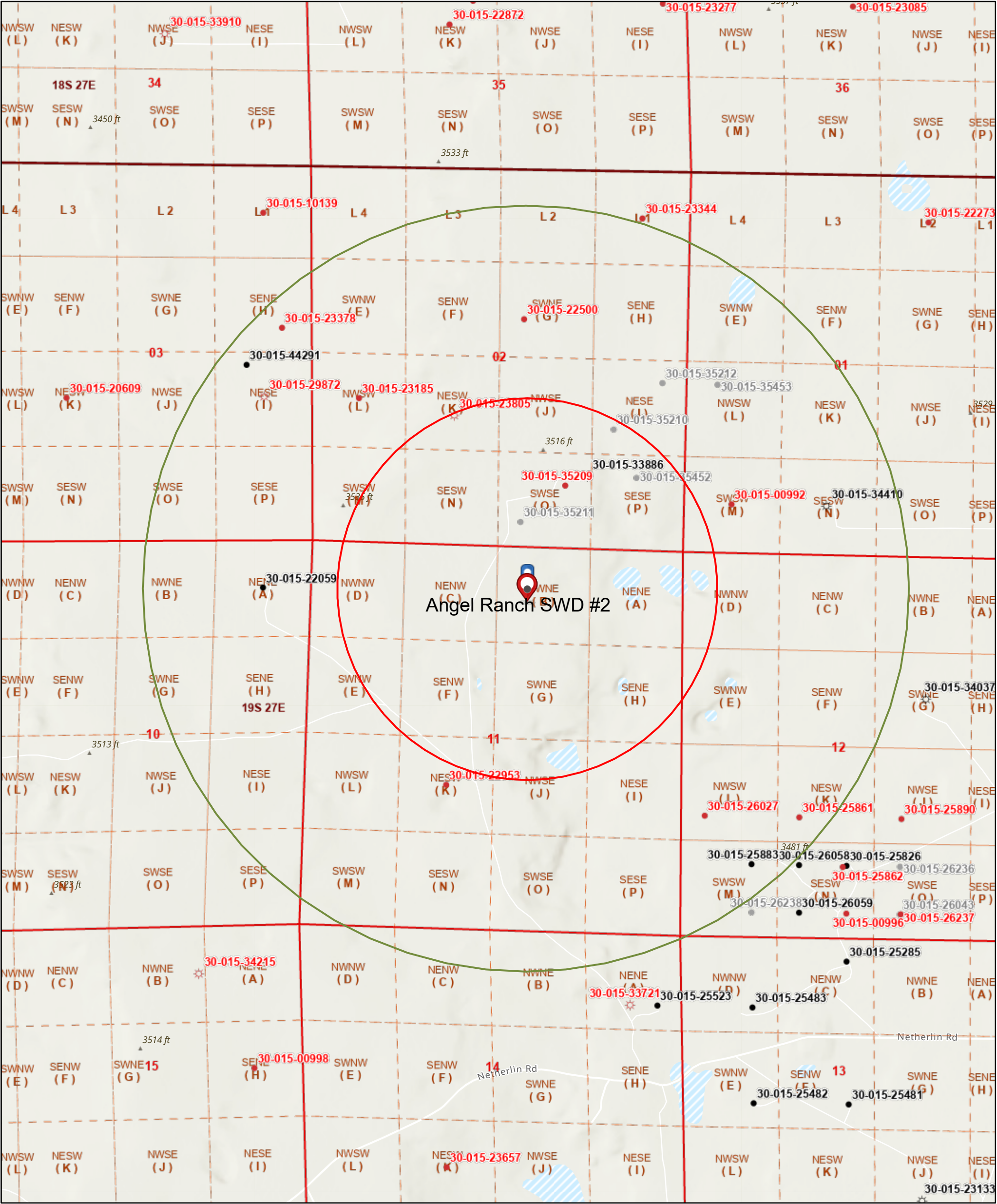
Operator	Well Name	API #	County	Footage	Sec	TWN	RNG	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Hole Size	Casing Prog	Cement
Redwood Operating LLC	Angel Ranch SWD #2		Eddy	588 FNL & 2157 FEL	11	19S	27E	SWD	New Drill			9175'		SWD; Cisco	8450-8975'	17 1/2"	13 3/8" 48# J-55	550sx Circ
																12 1/4"	9 5/8" 36# J-55	925sx, Circ
																8 3/4"	8 3/4", 26# L-80	975sx, Circ
																6 1/8"	6 1/8", 11.60# L-80	100sx, Circ
Southland Royalty Co	Williams State Com #1	30-015-23805	Eddy	1780 FSL 1980 FWL	2	19S	27E	Gas	P&A	10/3/1981	12/10/1981	10,565'	10,136'	Angel Ranch; Atoka Morrow	7600-7624', 8320-8356', 9920-10,097', 10,190-10197'	15 1/2"	11 3/4" 42# H-40 @ 252'	400sx, circ
																11"	8 5/8", 24# K-55 @2003'	600sx, circ
																7 7/8"	4 1/2", 11.6# N-80 @10565'	1100sx, TOC @ 7330'
Apache Corporation	Eagle Claw State Com #1	30-015-33886	Eddy	990 FSL 1350 FEL	2	19S	27E	Gas	Producing	3/8/2005	5/2/2005	10,700'	10,350'	Angel Ranch; Morrow	10,253-10,546'	17 1/2"	13 3/8", 54.5# J-55 @ 313'	375sx, circ
																12 1/4"	9 5/8", 36# J-55 @ 1975'	550sx, circ
																8 3/4"	5 1/2", 17# P-110 @ 10,700'	1910sx, TOC @ 1750'
EOG Y Resources Inc	Amoco State HE #1	30-015-22953	Eddy	1980 FSL 1980 FWL	11	19S	27E	Gas	P&A	7/19/1979	6/29/1980	10,570'	10,527'	Artesia; Queen Grayburg-San Andres	1652-1879', 6246-6266, 9958-10,280'	17 1/2"	13 3/8", 48# @514'	1160sx Circ
																12 1/4"	9 5/8", 36# @3300'	2380sx, circ
																8 3/4"	7", 23# @8848'	2200sx, circ
																6 1/8"	4 1/2", Liner @ 8627-10570'	310sx

[illegible]

[illegible]

Amoco State HE #1										API# 30-015-22953									
Operator: EOG Y Resources Inv																			
Location: Sec.11 T19S R27E																			
1980 FSL 1980' FWL																			
Objective: Artesia; Queen Grayburg- San Andres																			
GL Elevation: 3481.2'																			
Depth		Hole Size & Cement																Casing Detail	
514'		17 1/2" hole 1160sx, circ																13 3/8" 48# 514'	
3300'		12 1/4" 2380sx, circ		XXXXX														9 5/8" 36# 3300'	
8848'		8 3/4" 2200sx, circ		XXXX														7" 23# 8848'	
10570'		6 1/8" 310sx																4 1/2" Liner 8627-10570'	
				XXXX														25sx cmt plug 150' to Surface 25sx Cmt plug 414-554' 40sx Cmt Plug 1552-1702'	
																		CIBP @ 3050' 10' Cmt Cap CIBP @ 7934" 50' Class H Cmt CIBP @ 8300' 50' Class H Cmt CIBP @ 10,310' Perfs 1652-1879 2988-2999 6246-6266 9958-10280'	
				XXXX															
				TD- 10,570'															

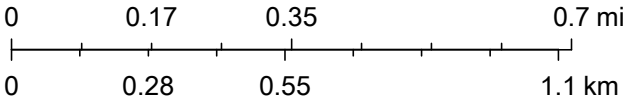
OCD Well Locations



12/8/2022, 9:07:50 AM

- Override 1
- Oil, Active
- Oil, Cancelled
- Oil, Plugged
- Gas, Active
- Gas, Plugged
- PLSS Second Division
- PLSS First Division
- PLSS Townships

1:18,056



Esri, NASA, NGA, USGS, FEMA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP,



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	Redwood Operating LLC	Sample #:	225586
Area:	Permian Basin	Analysis ID #:	175700
Lease:	Angel Ranch		
Location:	1		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	12/14/2022	Anions			Cations		
Analysis Date:	12/19/2022	Chloride:		1840.7	Sodium:		528.4
Analyst:	Catalyst	Bicarbonate:		268.4	Magnesium:		345.3
TDS (mg/l or g/m3):	4934.1	Carbonate:			Calcium:		635.0
Density (g/cm3):	1.005	Sulfate:		1300.0	Potassium:		4.4
		Borate*:		2.0	Strontium:		9.9
		Phosphate*			Barium:		0.0
Hydrogen Sulfide:		*Calculated based on measured elemental boron and phosphorus.			Iron:		0.0
Carbon Dioxide:					Manganese:		0.002
Comments:					Conductivity (micro-mhos/cm):		6931
CP00502					Resistivity (ohm meter):		1.4428
		pH at time of sampling:		7.65			
		pH at time of analysis:					
		pH used in Calculation:		7.65			
		Temperature @ lab conditions (F):		75			

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.94	22.32	-0.24	0.00	-0.31	0.00	-0.35	0.00	0.00	0.00	
100	1.02	26.16	-0.25	0.00	-0.25	0.00	-0.34	0.00	0.00	0.00	
120	1.12	30.34	-0.24	0.00	-0.17	0.00	-0.32	0.00	0.00	0.00	
140	1.22	35.23	-0.23	0.00	-0.06	0.00	-0.29	0.00	0.00	0.00	
160	1.33	39.76	-0.21	0.00	0.07	64.18	-0.25	0.00	0.00	0.00	
180	1.45	44.64	-0.18	0.00	0.21	180.67	-0.20	0.00	0.00	0.00	
200	1.57	49.18	-0.14	0.00	0.36	280.77	-0.15	0.00	0.00	0.00	
220	1.70	53.36	-0.11	0.00	0.53	363.78	-0.10	0.00	0.00	0.00	



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	Redwood Operating LLC	Sample #:	225587
Area:	Permian Basin	Analysis ID #:	175701
Lease:	Angel Ranch		
Location:	SWD 1 2		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	12/14/2022	Anions			Cations		
Analysis Date:	12/19/2022	Chloride:		684.4	Sodium:		98.4
Analyst:	Catalyst	Bicarbonate:		85.4	Magnesium:		115.4
TDS (mg/l or g/m3):	2694.8	Carbonate:			Calcium:		593.2
Density (g/cm3):	1.004	Sulfate:		1100.0	Potassium:		4.8
		Borate*:		5.3	Strontium:		7.9
		Phosphate*			Barium:		0.0
Hydrogen Sulfide:		*Calculated based on measured elemental boron and phosphorus.			Iron:		0.0
Carbon Dioxide:					Manganese:		0.002
Comments:					Conductivity (micro-mhos/cm):		3869
RA08929					Resistivity (ohm meter):		2.5846
		pH at time of sampling:		8.01			
		pH at time of analysis:					
		pH used in Calculation:		8.01			
		Temperature @ lab conditions (F):		75			










Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.85	4.89	-0.20	0.00	-0.27	0.00	-0.40	0.00	0.00	0.00	
100	0.90	5.94	-0.21	0.00	-0.21	0.00	-0.39	0.00	0.00	0.00	
120	0.96	6.99	-0.20	0.00	-0.12	0.00	-0.36	0.00	0.00	0.00	
140	1.04	8.39	-0.18	0.00	-0.01	0.00	-0.33	0.00	0.00	0.00	
160	1.12	9.79	-0.15	0.00	0.12	104.52	-0.29	0.00	0.00	0.00	
180	1.21	11.54	-0.12	0.00	0.26	206.94	-0.25	0.00	0.00	0.00	
200	1.31	12.93	-0.08	0.00	0.42	291.89	-0.20	0.00	0.00	0.00	
220	1.41	14.68	-0.04	0.00	0.59	359.70	-0.14	0.00	0.00	0.00	



New Mexico Office of the State Engineer

Currently Active Points of Diversion

(with Ownership Information)

(acre ft per annum)										(quarters are 1=NW 2=NE 3=SW 4=SE)									
										(quarters are smallest to largest)						(NAD83 UTM in meters)			
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Grant	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y		
RA 02385	RA	DOM	0	JEFF C. FLOYD	ED	RA 02385				1	3	27	19S	27E		568171	3610454* 		
RA 05367	RA	SAN	0	YATES DRILLING COMPANY	ED	RA 05367				4	1	28	19S	27E		566971	3610857* 		
RA 05475	RA	STK	3	RAYMOND NETHERLIN	ED	RA 05475			Shallow	3	1	16	19S	27E		566555	3614078* 		
RA 06123	RA	PRO	0	PHILLIPS PETROLEUM COMPANY	CH	RA 06123				4	2	4	15	19S	27E	569486	3613610* 		
RA 06705	RA	PRO	0	GULF OIL CORP.	ED	RA 06705			Shallow	4	2	4	30	19S	27E	564608	3610358* 		
RA 07559	RA	PRO	0	HARVARD PETROLEUM CORPORATION	ED	RA 07559				4	4	4	14	19S	27E	571101	3613197* 		
RA 07672	RA	PRO	0	YATES PETROLEUM	ED	RA 07672			Shallow	1	1	3	08	19S	27E	564836	3615376* 		
RA 08645	RA	PRO	3	STEVEN V. MCCUTCHEON	ED	RA 08645			Shallow	3	3	3	34	19S	27E	567919	3608365* 		
RA 08929	RA	DOM	3	BILL NETHERLIN	ED	RA 08929			Shallow	3	3	1	13	19S	27E	571282	3613992* 		

Record Count: 9

PLSS Search:

Township: 19S **Range:** 27E

Sorted by: File Number

*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.

11/9/22 8:49 AM

Page 1 of 1

CURRENTLY ACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 02385 Subbasin: RA Cross Reference: -
 Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
 Primary Status: EXP EXPIRED
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: JEFF C. FLOYD

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
200207	72121	1948-03-11	EXP	EXP	RA 02385	T		3	

Current Points of Diversion

POD Number	Well Tag	Source	Q		X		Y		Other Location Desc
			64Q16Q4Sec	Tws Rng	568171	3610454*			
RA 02385			1	3 27 19S 27E	568171	3610454*			

An () after northing value indicates 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.

11/9/22 9:07 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 05367 Subbasin: RA Cross Reference: -
Primary Purpose: SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE
Primary Status: PMT PERMIT
Total Acres: Subfile: - Header: -
Total Diversion: 0 Cause/Case: -
Owner: YATES DRILLING COMPANY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
254337	72121	1967-06-14	PMT	APR	RA 05367	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
RA 05367			4	1	28	19S 27E	566971	3610857*	

An () after northing value indicates 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.

11/9/22 9:08 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer Water Right Summary

WR File Number: RA 05475 Subbasin: RA Cross Reference: -
 Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 3 Cause/Case: -
 Owner: RAYMOND NETHERLIN

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
252789	72121	1969-01-14	PMT	LOG	RA 05475	T		3	

Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc	
			64Q16Q4Sec	Tws	Rng	X	Y			
RA 05475		Shallow	3	1	16	19S	27E	566555	3614078*	

An () after northing value indicates 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.

11/9/22 9:09 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 06123 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
243744	72121	1977-02-24	PMT	LOG	RA 06123	T		3	

Current Points of Diversion

POD Number	Well Tag	Source	Q		X		Y		Other Location Desc
			64Q16Q4Sec	Tws Rng	569486	3613610*			
RA 06123			4	2 4 15 19S 27E					

An () after northing value indicates 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.

11/9/22 9:09 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 06705 Subbasin: RA Cross Reference: -
 Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
 Primary Status: PMT PERMIT
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: GULF OIL CORP.

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
111874	72121	1980-08-04	PMT	APR	CONVERSION RA 06705	T		3	
256656	72121	1980-08-01	PMT	LOG	RA 06705	T		3	

---For more information on Conversion Transactions, please see Help---

Current Points of Diversion

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc	
			64	Q16	Q4	Sec				
RA 06705		Shallow	4	2	4	30	19S	27E	564608	3610358*

An () after northing value indicates 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.

11/9/22 9:10 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 07559 Subbasin: RA Cross Reference: -
 Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
 Primary Status: EXP EXPIRED
 Total Acres: Subfile: - Header: -
 Total Diversion: 0 Cause/Case: -
 Owner: HARVARD PETROLEUM CORPORATION

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
246889	72121	1986-09-22	EXP	EXP	RA 07559	T		0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
RA 07559			4	4	4	14 19S 27E	571101	3613197*	

An () after northing value indicates 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.

11/9/22 9:18 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 07672 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: YATES PETROLEUM

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
247852	72121	1988-06-23	PMT	LOG	RA 07672	T		0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc
			64Q	16Q	4Sec	Tws Rng			
RA 07672		Shallow	1	1	3 08	19S 27E	564836	3615376*	

An () after northing value indicates 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.

11/9/22 9:22 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary




WR File Number: RA 08645 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Primary Status: DCL DECLARATION
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: STEVEN V. MCCUTCHEON

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/To		Acres	Diversion	Consumptive
			1	2		To				
321855	72121	2005-01-25	EXP	EXP	RA 08645	T			3	
246622	DCL	1993-11-10	DCL	PRC	RA 08645	T		0	3	

Current Points of Diversion

(NAD83 UTM in meters)										
POD Number	Well Tag	Source	Q					X	Y	Other Location Desc
RA 08645		Shallow	64	Q16	Q4	Sec	Tw	Rng		
			3	3	3	34	19S	27E	567919	3608365* 

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

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
12/31/1942	DCL	0	3	RA 08645	Shallow

Place of Use

Q	Q	256	64 Q16 Q4Sec	Tw	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
									STK		DCL	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK	12/31/1942	GW	SHALLOW

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.

11/9/22 9:23 AM

WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: RA 08929 **Subbasin:** RA **Cross Reference:** -
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: BILL NETHERLIN

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
250712	72121	1995-01-13	PMT	LOG	RA 08929	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tw	Rng	X	Y	Other Location Desc
RA 08929		Shallow	3	3	1	13 19S 27E	571282	3613992*	

An () after northing value indicates 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.

11/9/22 9:24 AM

WATER RIGHT SUMMARY

DownHole SAT™ Water Analysis Report



SYSTEM IDENTIFICATION

Supreme Technologies
Redwood
Leavitt 13 #2H WH
Glorieta-Yeso

Sample ID#: 0
ID 2021-06-04-39

Sample Date: 06-02-2021 at 2216
Report Date: 06-09-2021

WATER CHEMISTRY

CATIONS

Calcium(as Ca) 4593
Magnesium(as Mg) 984.00
Barium(as Ba) 0.00
Strontium(as Sr) 88.00
Sodium(as Na) 71855
Potassium(as K) 978.00
Lithium(as Li) 24.00
Iron(as Fe) 0.00
Manganese(as Mn) 0.100
Zinc(as Zn) 0.00

ANIONS

Chloride(as Cl) 121021
Sulfate(as SO₄) 2179
Dissolved CO₂(as CO₂) 225.06
Bicarbonate(as HCO₃) 427.00
H₂S (as H₂S) 30.00
Boron(as B) 12.00

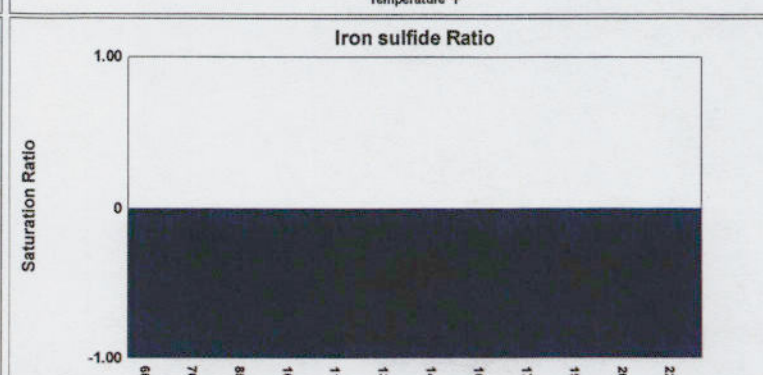
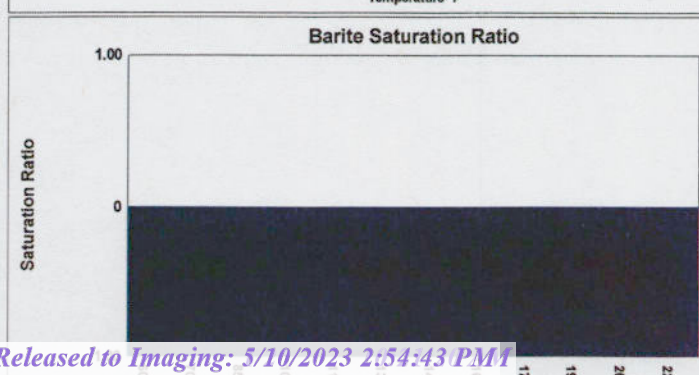
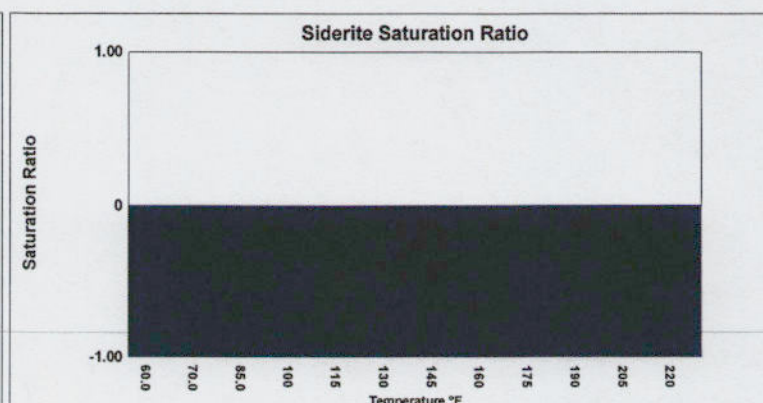
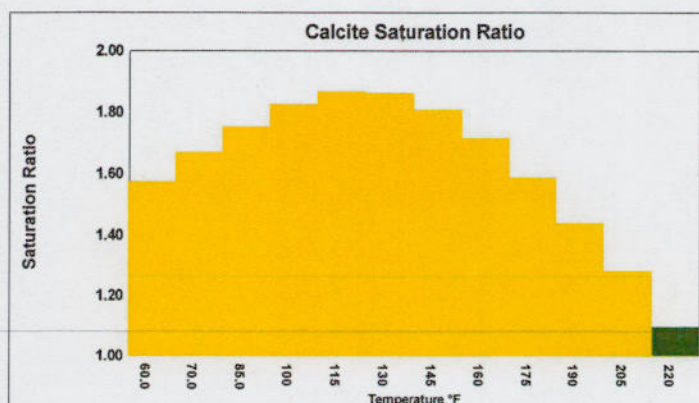
PARAMETERS

Temperature(°F) 77.00 Sample pH 6.00
Conductivity 233708 Sp.Gr.(g/mL) 1.130
Resistivity 4.28 T.D.S. 217105

SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psia)		Calcite CaCO ₃		Anhydrite CaSO ₄		Gypsum CaSO ₄ *2H ₂ O		Barite BaSO ₄		Celestite SrSO ₄		Siderite FeCO ₃		Mackinawite FeS		
60.00	14.70	1.58	0.00963	178.84	1.05	17.58	1.38	108.98	0.00	-0.0736	0.411	-79.55	0.00	-0.395	0.00	0.00	-0.461
70.00	15.00	1.67	0.0104	184.07	1.01	3.67	1.28	83.70	0.00	-0.0991	0.388	-86.07	0.00	-0.366	0.00	0.00	-0.541
85.00	38.50	1.75	0.0106	174.23	0.989	-3.45	1.16	50.30	0.00	-0.148	0.367	-91.83	0.00	-0.329	0.00	0.00	-0.371
100.00	62.00	1.83	0.0106	170.85	1.01	4.28	1.07	23.34	0.00	-0.211	0.357	-94.32	0.00	-0.299	0.00	0.00	-0.331
115.00	85.50	1.87	0.0103	168.46	1.09	22.87	1.11	32.79	0.00	-0.289	0.350	-95.57	0.00	-0.274	0.00	0.00	-0.331
130.00	109.00	1.86	0.00952	167.78	1.21	47.80	1.18	47.41	0.00	-0.392	0.342	-97.40	0.00	-0.253	0.00	0.00	-0.341
145.00	132.50	1.81	0.00841	168.21	1.39	75.32	1.24	58.25	0.00	-0.526	0.333	-99.84	0.00	-0.236	0.00	0.00	-0.381
160.00	156.00	1.71	0.00706	169.31	1.65	102.76	1.29	66.46	0.00	-0.700	0.323	-102.76	0.00	-0.221	0.00	0.00	-0.431
175.00	179.50	1.59	0.00556	170.82	2.01	127.90	1.34	72.41	0.00	-0.923	0.312	-106.28	0.00	-0.209	0.00	0.00	-0.501
190.00	203.00	1.44	0.00403	169.62	2.51	149.92	1.38	76.85	0.00	-1.21	0.300	-110.31	0.00	-0.199	0.00	0.00	-0.601
205.00	226.50	1.28	0.00252	168.50	3.20	168.52	1.42	80.17	0.00	-1.57	0.289	-114.86	0.00	-0.190	0.00	0.00	-0.711
220.00	250.00	1.10	< 0.001	165.97	4.12	186.86	1.43	81.83	0.00	-2.05	0.273	-122.64	0.00	-0.186	0.00	0.00	-0.891
			Lbs per	PP		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per	PP		Lbs per
		xSAT	1000		xSAT	1000	xSAT	1000	xSAT	1000	xSAT	1000	xSAT	1000		xSAT	1000
			Barrels			Barrels		Barrels		Barrels		Barrels		Barrels			Barrels

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.
Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.





DownHole SAT(tm)

SURFACE WATER CHEMISTRY INPUT

Supreme Technologies
Leavitt 13 #2H WH
Glorieta-Yeso

Redwood

Report Date: 06-09-2021 Sampled: 06-02-2021 at 2216
Sample #: 0 Sample ID: 2021-06-04-39

CATIONS

Calcium (as Ca)	4593
Magnesium (as Mg)	984.00
Barium (as Ba)	0.00
Strontium (as Sr)	88.00
Sodium (as Na)	71855
Potassium (as K)	978.00
Lithium (as Li)	24.00
Iron (as Fe)	0.00
Manganese (as Mn)	0.100
Zinc (as Zn)	0.00

ANIONS

Chloride (as Cl)	121021
Sulfate (as SO ₄)	2179
Dissolved CO ₂ (as CO ₂)	225.06
Bicarbonate (as HCO ₃)	427.00
H ₂ S (as H ₂ S)	30.00
Boron (as B)	12.00

PARAMETERS

Calculated T.D.S.	217105
Molar Conductivity	233708
Resistivity	4.28
Sp.Gr.(g/mL)	1.130
Pressure(psia)	15.00
Temperature (°F)	77.00
pH	6.00

BOUND IONS

	TOTAL	FREE
Calcium	5190	4753
Barium	0.00	0.00
Carbonate	20.07	0.0439
Phosphate	0.00	0.00
Sulfate	2462	696.30

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.327
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FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460



DownHole SAT(tm)

SURFACE WATER DEPOSITION POTENTIAL INDICATORS

Supreme Technologies
Leavitt 13 #2H WH
Glorieta-Yeso

Redwood

Report Date: 06-09-2021 Sampled: 06-02-2021 at 2216
Sample #: 0 Sample ID: 2021-06-04-39

SATURATION RATIO as IAP/Ksp

Calcite (CaCO ₃)	1.73
Aragonite (CaCO ₃)	1.60
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	0.03
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	0.44
Anhydrite (CaSO ₄)	1.00
Gypsum (CaSO ₄ *2H ₂ O)	1.22
Barite (BaSO ₄)	0.00
Celestite (SrSO ₄)	0.38
Fluorite (CaF ₂)	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO ₂)	0.00
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) ₃)	0.00
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	0.00
Halite (NaCl)	0.24
Thenardite (Na ₂ SO ₄)	0.00
Iron sulfide (FeS)	0.00

FREE ION MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO ₃)	0.0108
Aragonite (CaCO ₃)	0.00959
Witherite (BaCO ₃)	-27.73
Strontianite (SrCO ₃)	-1.28
Calcium oxalate (CaC ₂ O ₄)	-0.00752
Magnesite (MgCO ₃)	-0.0271
Anhydrite (CaSO ₄)	-1.15
Gypsum (CaSO ₄ *2H ₂ O)	67.84
Barite (BaSO ₄)	-0.120
Celestite (SrSO ₄)	-89.07
Fluorite (CaF ₂)	-2.78
Calcium phosphate	>-0.001
Hydroxyapatite	-263.20
Silica (SiO ₂)	-27.99
Brucite (Mg(OH) ₂)	-0.233
Magnesium silicate	-87.51
Iron hydroxide (Fe(OH) ₃)	-0.211
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	-0.347
Halite (NaCl)	-73627
Thenardite (Na ₂ SO ₄)	-84955
Iron sulfide (FeS)	-0.570

SIMPLE INDICES

Langelier	0.876
Ryznar	4.25
Puckorius	1.66
Larson-Skold Index	301.16
Stiff Davis Index	0.732
Odde-Tomson	-0.237

CARBONATE PRECIPITATION POTENTIAL (Lbs/1000 Barrels)

Calcite (CaCO ₃)	187.56
Aragonite (CaCO ₃)	185.27
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	-18.23
Magnesite (MgCO ₃)	135.47
Siderite (FeCO ₃)	0.00

OPERATING CONDITIONS

Temperature (°F)	77.00
Time(mins)	3.00

FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460

DownHole SAT™ Water Analysis Report



SYSTEM IDENTIFICATION

Supreme Technologies
Redwood
Leavitt 14 A #2 WH
Glorieta-Yeso

Sample ID#: 0
ID: 2021-06-03-28

Sample Date: 05-31-2021 at 1553
Report Date: 06-06-2021

WATER CHEMISTRY

CATIONS

Calcium(as Ca) 4646
Magnesium(as Mg) 964.00
Barium(as Ba) 0.00
Strontium(as Sr) 87.00
Sodium(as Na) 66750
Potassium(as K) 863.00
Lithium(as Li) 23.00
Iron(as Fe) 0.100
Manganese(as Mn) 0.00

ANIONS

Chloride(as Cl) 111832
Sulfate(as SO₄) 1796
Dissolved CO₂(as CO₂) 180.00
Bicarbonate(as HCO₃) 329.00
H₂S (as H₂S) 136.00
Boron(as B) 13.00

PARAMETERS

Temperature(°F) 77.00
Sample pH 6.00
Conductivity 286589
T.D.S. 180517
Resistivity 3.49
Sp.Gr.(g/mL) 1.13

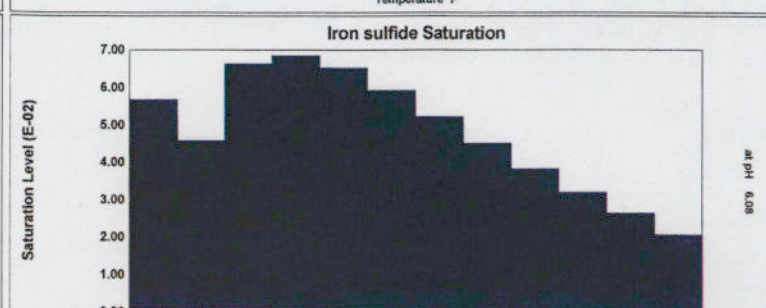
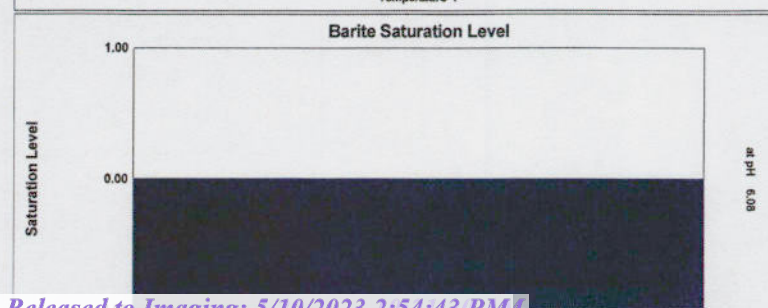
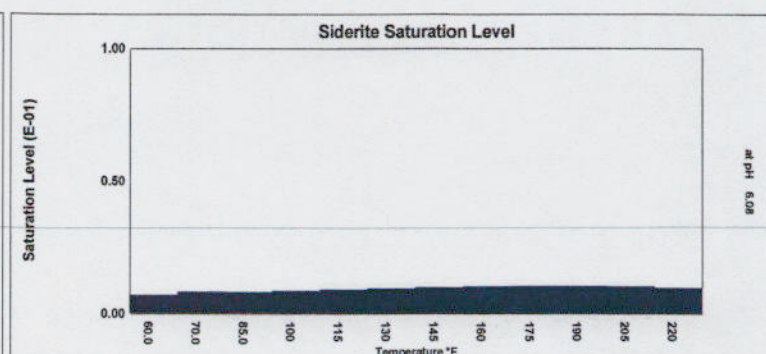
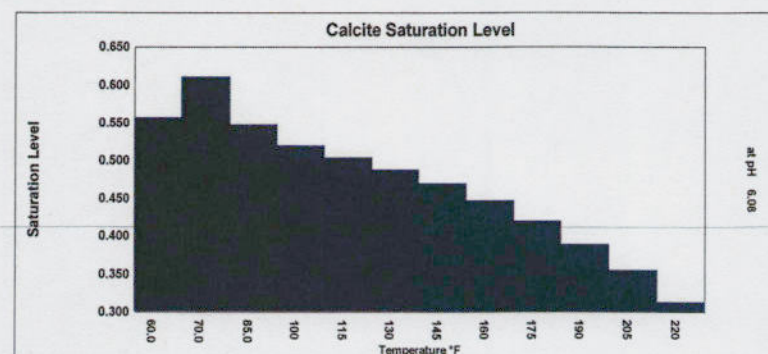
Zinc(as Zn) 0.00

SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psig)	Calcite CaCO ₃		Anhydrite CaSO ₄		Gypsum CaSO ₄ *2H ₂ O		Barite BaSO ₄		Celestite SrSO ₄		Siderite FeCO ₃		Mackawenite FeS		CO ₂ (mpy)	pCO ₂ (atm)
60.00	0.00	0.557	-0.0110	0.677	-140.34	0.950	-18.16	0.00	-0.0765	0.345	-89.18	0.00676	-0.368	0.0566	-0.139	0.239	0.0870
70.00	0.30	0.610	-0.00898	0.652	-151.80	0.885	-42.84	0.00	-0.103	0.326	-95.07	0.00796	-0.338	0.0456	-0.171	0.367	0.0888
85.00	23.80	0.547	-0.00941	0.641	-151.98	0.806	-75.10	0.00	-0.153	0.310	-100.05	0.00794	-0.303	0.0660	-0.115	0.966	0.228
100.00	47.30	0.519	-0.00912	0.661	-133.98	0.748	-100.40	0.00	-0.216	0.303	-101.79	0.00832	-0.273	0.0683	-0.109	1.75	0.367
115.00	70.80	0.503	-0.00871	0.710	-102.98	0.777	-82.25	0.00	-0.295	0.299	-102.38	0.00886	-0.247	0.0651	-0.113	2.25	0.506
130.00	94.30	0.487	-0.00837	0.791	-64.36	0.826	-58.49	0.00	-0.398	0.293	-103.55	0.00940	-0.226	0.0591	-0.122	2.52	0.645
145.00	117.80	0.469	-0.00816	0.912	-22.83	0.870	-40.00	0.00	-0.533	0.287	-105.29	0.00986	-0.208	0.0521	-0.135	2.74	0.784
160.00	141.30	0.447	-0.00809	1.08	17.91	0.911	-25.62	0.00	-0.706	0.279	-107.59	0.0102	-0.193	0.0450	-0.154	2.99	0.923
175.00	164.80	0.419	-0.00814	1.32	55.27	0.946	-14.54	0.00	-0.927	0.271	-110.46	0.0104	-0.180	0.0382	-0.177	3.19	1.06
190.00	188.30	0.388	-0.00831	1.66	87.92	0.976	-6.06	0.00	-1.21	0.261	-113.86	0.0103	-0.169	0.0319	-0.206	1.48	1.20
205.00	211.80	0.355	-0.00857	2.12	115.46	1.00	0.432	0.00	-1.56	0.252	-117.80	0.0102	-0.160	0.0262	-0.244	0.706	1.34
220.00	235.30	0.313	-0.00929	2.72	139.62	1.01	2.06	0.00	-2.04	0.239	-124.90	0.00961	-0.156	0.0205	-0.298	0.273	1.48
		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per			
		xSAT 1000		xSAT 1000		xSAT 1000		xSAT 1000		xSAT 1000		xSAT 1000		xSAT 1000			
		Barrels		Barrels		Barrels		Barrels		Barrels		Barrels		Barrels			

Saturation Levels (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.

Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.





DownHole SAT(tm)

SURFACE WATER CHEMISTRY INPUT

Supreme Technologies
Leavitt 14 A #2 WH
Glorieta-Yeso

Redwood

Report Date: 06-06-2021 Sampled: 05-31-2021 at 1553
Sample ID: 2021-06-03-28 Sample ID: 2021-06-03-28

CATIONS

Calcium (as Ca)	4646
Magnesium (as Mg)	964.00
Barium (as Ba)	0.00
Strontium (as Sr)	87.00
Sodium (as Na)	66750
Potassium (as K)	863.00
Lithium (as Li)	23.00
Iron (as Fe)	0.100
Manganese (as Mn)	0.00
Zinc (as Zn)	0.00

ANIONS

Chloride (as Cl)	111832
Sulfate (as SO ₄)	1796
Dissolved CO ₂ (as CO ₂)	180.00
Bicarbonate (as HCO ₃)	329.00
H ₂ S (as H ₂ S)	136.00
Boron (as B)	13.00

PARAMETERS

Calculated T.D.S.	180517
Molar Conductivity	286589
Resistivity	3.49
Sp.Gr.(g/mL)	1.13
Pressure(psia)	15.00
Temperature (°F)	77.00
pH	6.00

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.452
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FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460



DownHole SAT(tm)

SURFACE WATER DEPOSITION POTENTIAL INDICATORS

Supreme Technologies
Leavitt 14 A #2 WH
Glorieta-Yeso

Redwood

Report Date: 06-06-2021 Sampled: 05-31-2021 at 1553
Sample ID: 2021-06-03-28 Sample ID: 2021-06-03-28

SATURATION LEVEL

Calcite (CaCO ₃)	0.561
Aragonite (CaCO ₃)	0.519
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	0.0118
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	0.132
Anhydrite (CaSO ₄)	0.644
Gypsum (CaSO ₄ *2H ₂ O)	0.847
Barite (BaSO ₄)	0.00
Celestite (SrSO ₄)	0.318
Fluorite (CaF ₂)	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO ₂)	0.00
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) ₃)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	0.00769
Halite (NaCl)	0.133
Thenardite (Na ₂ SO ₄)	< 0.001
Iron sulfide (FeS)	0.0429

MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO ₃)	-0.00958
Aragonite (CaCO ₃)	-0.0114
Witherite (BaCO ₃)	-27.60
Strontianite (SrCO ₃)	-1.47
Calcium oxalate (CaC ₂ O ₄)	-0.0111
Magnesite (MgCO ₃)	-0.0681
Anhydrite (CaSO ₄)	-153.56
Gypsum (CaSO ₄ *2H ₂ O)	-58.02
Barite (BaSO ₄)	-0.124
Celestite (SrSO ₄)	-97.77
Fluorite (CaF ₂)	-3.47
Calcium phosphate	>-0.001
Hydroxyapatite	-304.59
Silica (SiO ₂)	-31.47
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	-96.47
Iron hydroxide (Fe(OH) ₃)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	-0.321
Halite (NaCl)	-102986
Thenardite (Na ₂ SO ₄)	-85717
Iron sulfide (FeS)	-0.181

SIMPLE INDICES

Langelier	0.246
Ryznar	5.51
Puckorius	3.56
Larson-Skold Index	660.02
Stiff Davis Index	-0.0648
Oddo-Tomson	-0.901

BOUND IONS

BOUND IONS	TOTAL	FREE
Calcium	4646	4389
Barium	0.00	0.00
Carbonate	4.12	0.0211
Phosphate	0.00	0.00
Sulfate	1796	612.62

OPERATING CONDITIONS

Temperature (°F)	77.00
Time(mins)	3.00

FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460

DownHole SAT™ Water Analysis Report



SYSTEM IDENTIFICATION

Supreme Technologies
Redwood
Kaiser B #1 WH
Queen-Grayburg-
San Andres

WATER CHEMISTRY

CATIONS

Calcium(as Ca) 3262
Magnesium(as Mg) 556.00
Barium(as Ba) 0.00
Strontium(as Sr) 59.00
Sodium(as Na) 88835
Potassium(as K) 50.00
Lithium(as Li) 22.00
Iron(as Fe) 0.00
Manganese(as Mn) 0.00

ANIONS

Chloride(as Cl) 139429
Sulfate(as SO₄) 3973
Dissolved CO₂(as CO₂) 250.00
Bicarbonate(as HCO₃) 390.00
H₂S (as H₂S) 17.00
Boron(as B) 8.90

Sample ID#: 0
ID: 2021-06-03-9

Sample Date: 05-31-2021 at 1553
Report Date: 06-06-2021

PARAMETERS

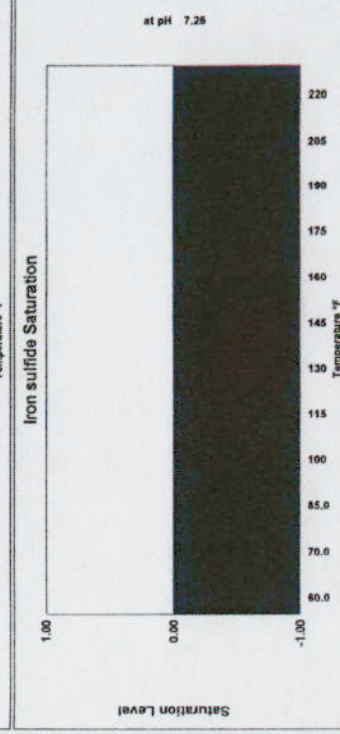
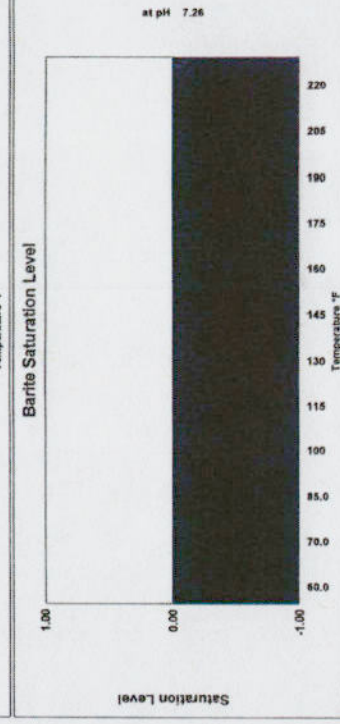
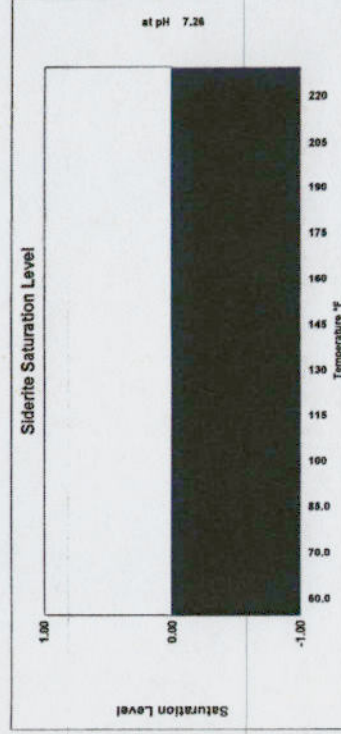
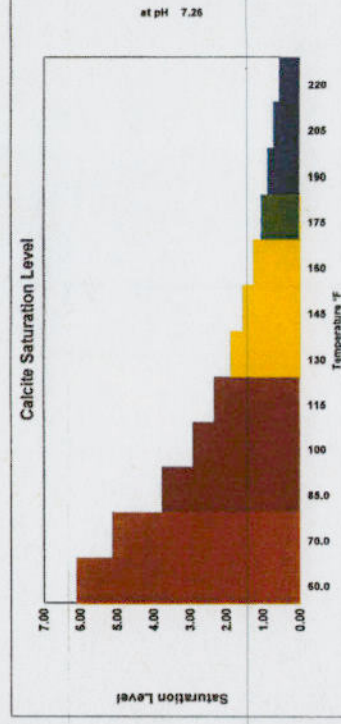
Temperature(°F) 77.00
Sample pH 7.00
Conductivity 396368
T.D.S. 223486
Resistivity 2.52
Sp.Gr.(g/mL) 1.15

Zinc(as Zn) 0.00

SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psig)	Calcite CaCO ₃	Anhydrite CaSO ₄	Gypsum CaSO ₄ *2H ₂ O	Barite BaSO ₄	Celestite SrSO ₄	Siderite FeCO ₃	Mackawenite FeS	CO ₂ (mpy)	pCO ₂ (atm)
60.00	0.00	6.08	0.146	1.57	0.00	0.467	0.00	0.00	0.0458	0.0225
70.00	0.30	5.12	0.110	1.47	0.00	0.443	0.00	0.00	0.0323	0.0230
85.00	23.80	3.77	0.0667	1.34	0.00	0.424	0.00	0.00	0.0303	0.0590
100.00	47.30	2.92	0.0423	1.25	0.00	0.416	0.00	0.00	0.0391	0.0951
115.00	70.80	2.33	0.0271	1.31	0.00	0.412	0.00	0.00	0.0535	0.131
130.00	94.30	1.89	0.0168	1.40	0.00	0.406	0.00	0.00	0.0744	0.167
145.00	117.80	1.54	0.00963	1.49	0.00	0.399	0.00	0.00	0.103	0.203
160.00	141.30	1.26	0.00440	1.57	0.00	0.390	0.00	0.00	0.143	0.239
175.00	164.80	1.03	< 0.001	1.64	0.00	0.380	0.00	0.00	0.195	0.275
190.00	188.30	0.842	-0.00248	1.70	0.00	0.368	0.00	0.00	0.264	0.311
205.00	211.80	0.686	-0.00480	1.76	0.00	0.356	0.00	0.00	0.353	0.347
220.00	235.30	0.541	-0.00713	1.78	0.00	0.337	0.00	0.00	0.484	0.383
				Lbs per	Lbs per	Lbs per	Lbs per	Lbs per		
		xSAT	xSAT	xSAT	xSAT	xSAT	xSAT	xSAT		
		1000	1000	1000	1000	1000	1000	1000		
		Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels		

Saturation Levels (xSAT) are the ratio of ion activity to solubility, e.g. (Ca)/(CO₂)/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.
Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.





DownHole SAT(tm)

SURFACE WATER CHEMISTRY INPUT

Supreme Technologies Redwood
Kaiser B #1 WH
Queen-Grayburg- San Andres

Report Date: 06-06-2021 Sampled: 05-31-2021 at 1553
Sample ID: 2021-06-03-9 Sample ID: 2021-06-03-9

CATIONS

Calcium (as Ca)	3262
Magnesium (as Mg)	556.00
Barium (as Ba)	0.00
Strontium (as Sr)	59.00
Sodium (as Na)	88835
Potassium (as K)	50.00
Lithium (as Li)	22.00
Iron (as Fe)	0.00
Manganese (as Mn)	0.00
Zinc (as Zn)	0.00

ANIONS

Chloride (as Cl)	139429
Sulfate (as SO ₄)	3973
Dissolved CO ₂ (as CO ₂)	250.00
Bicarbonate (as HCO ₃)	390.00
H ₂ S (as H ₂ S)	17.00
Boron (as B)	8.90

PARAMETERS

Calculated T.D.S.	223486
Molar Conductivity	396368
Resistivity	2.52
Sp.Gr.(g/mL)	1.15
Pressure(psia)	15.00
Temperature (°F)	77.00
pH	7.00

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.0528
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FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460



DownHole SAT(tm)

SURFACE WATER DEPOSITION POTENTIAL INDICATORS

Supreme Technologies
Kaiser B #1 WH
Queen-Grayburg-San Andres

Redwood

Report Date: 06-06-2021 Sampled: 05-31-2021 at 1553
Sample ID: 2021-06-03-9 Sample ID: 2021-06-03-9

SATURATION LEVEL

Calcite (CaCO ₃)	3.94
Aragonite (CaCO ₃)	3.65
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	0.0629
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	0.793
Anhydrite (CaSO ₄)	1.16
Gypsum (CaSO ₄ *2H ₂ O)	1.41
Barite (BaSO ₄)	0.00
Celestite (SrSO ₄)	0.433
Fluorite (CaF ₂)	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO ₂)	0.00
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) ₃)	0.00
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	0.00
Halite (NaCl)	0.259
Thenardite (Na ₂ SO ₄)	< 0.001
Iron sulfide (FeS)	0.00

MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO ₃)	0.0745
Aragonite (CaCO ₃)	0.0724
Witherite (BaCO ₃)	-28.05
Strontianite (SrCO ₃)	-2.06
Calcium oxalate (CaC ₂ O ₄)	-0.0129
Magnesite (MgCO ₃)	-0.0219
Anhydrite (CaSO ₄)	78.07
Gypsum (CaSO ₄ *2H ₂ O)	194.92
Barite (BaSO ₄)	-0.0621
Celestite (SrSO ₄)	-51.26
Fluorite (CaF ₂)	-3.67
Calcium phosphate	>-0.001
Hydroxyapatite	-267.07
Silica (SiO ₂)	-28.17
Brucite (Mg(OH) ₂)	0.00303
Magnesium silicate	-89.14
Iron hydroxide (Fe(OH) ₃)	-0.214
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	-0.314
Halite (NaCl)	-72069
Thenardite (Na ₂ SO ₄)	-86536
Iron sulfide (FeS)	-0.0416

SIMPLE INDICES

Langelier	1.39
Ryznar	4.21
Puckorius	3.03
Larson-Skold Index	570.61
Stiff Davis Index	1.25
Oddo-Tomson	0.281

BOUND IONS

TOTAL	FREE
Calcium	3262
Barium	0.00
Carbonate	88.17
Phosphate	0.00
Sulfate	3973

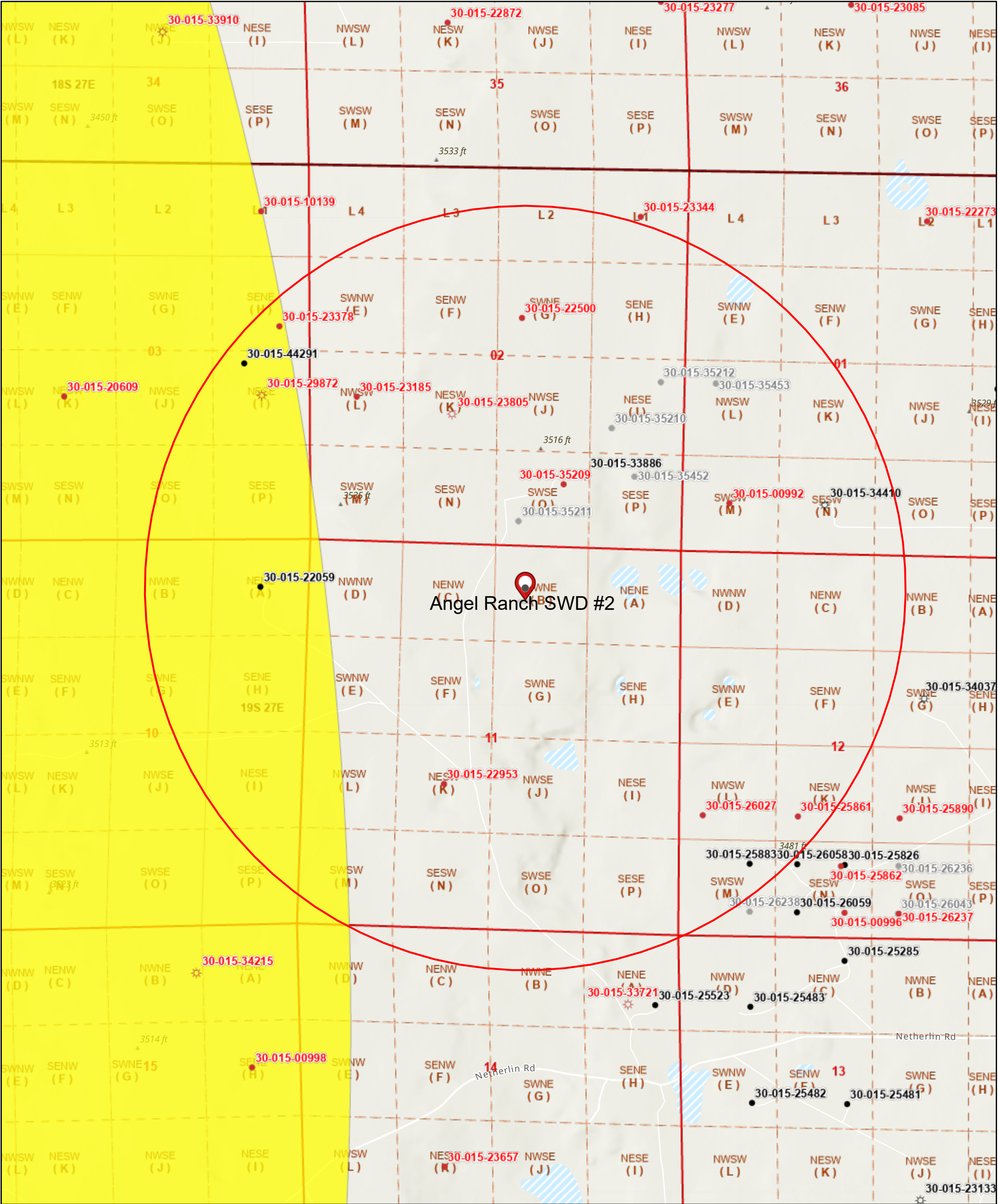
OPERATING CONDITIONS

Temperature (°F)	77.00
Time(mins)	3.00

FRENCH CREEK SOFTWARE, INC.

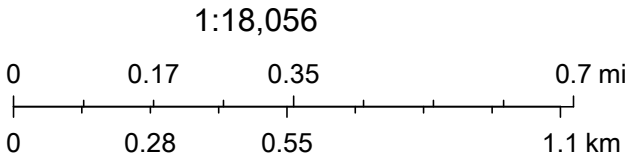
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460

Seismicity Map



12/14/2022, 9:40:06 AM

- Wells - Large Scale
- Oil, Cancelled
 - Gas, Active
 - Gas, Plugged
 - Oil, Active
 - Oil, Plugged
 - Seismic Response 3.0 to 3.4
 - PLSS Second Division
 - PLSS First Division
 - PLSS Townships
 - 10 mi.



Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, NASA, NGA, USGS, FEMA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources



C-108 APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

Action ID: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
I. PURPOSE	Selection of proper application type.		
II. OPERATOR	Name; address; contact information.		
III. WELL DATA	Well name and number; STR location; footage location within section.		
	Each casing string to be used, including size, setting depth, sacks of cement, hole size, top of cement, and basis for determining top of cement.		
	Description of tubing to be used including size, lining material, and setting depth.		
	Name, model, and setting depth of packer to be used, or description of other seal system or assembly to be used.		
	Well diagram: Existing (if applicable).		
	Well diagram: Proposed (either Applicant's template or Division's Injection Well Data Sheet).		
IV. EXISTING PROJECT	For an expansion of existing well, Division order number authorizing existing well (if applicable).		
V. LEASE AND WELL MAP	AOR map identifying all wells and leases within 2 mile radius of proposed well, and depicting a 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
VI. AOR WELLS	Tabulation of data for all wells of public record within AOR which penetrate the proposed injection zone, including well type, construction, date drilled, location, depth, and record of completion.		
	Schematic of each plugged well within AOR showing all plugging detail.		
VII. PROPOSED OPERATION	Proposed average and maximum daily rate and volume of fluids to be injected.		
	Statement that the system is open or closed.		
	Proposed average and maximum injection pressure.		
	Sources and analysis of injection fluid, and compatibility with receiving formation if injection fluid is not produced water.		
	A chemical analysis of the disposal zone formation water if the injection is for disposal and oil or gas is not produced or cannot be produced from the formation within 1 mile of proposed well. Chemical analysis may be based on sample, existing literature, studies, or nearby well.		
VIII. GEOLOGIC DATA	Proposed injection interval, including appropriate lithologic detail, geologic name, thickness, and depth.		
	USDW of all aquifers <u>overlying</u> the proposed injection interval, including the geologic name and depth to bottom.		
	USDW of all aquifers <u>underlying</u> the proposed injection interval, including the geologic name and depth to bottom.		



C-108 (SWD) APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: _____

Applicant: _____

Action ID: _____

Admin. App. No: _____

C-108 Item	Description of Required Content	Yes	No
IX. PROPOSED STIMULATION	Description of stimulation process or statement that none will be conducted.		
X. LOGS/WELL TESTS	Appropriate logging and test data on the proposed well or identification of well logs already filed with OCD.		
XI. FRESH WATER	Chemical analysis of fresh water from two or more fresh water wells (if available and producing) within 1 mile of the proposed well, including location and sampling date(s).		
XII. AFFIRMATION STATEMENT	Statement of qualified person endorsing the application, including name, title, and qualifications.		
XIII. PROOF OF NOTICE	Identify of all "affected persons" identified on AOR map in Section V, including all affected persons within 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
	Identification and notification of all surface owners.		
	BLM and/or NMSLO notified per 19.15.2.7(A)(8)(d) NMAC.		
	Notice of publication in local newspaper in county where proposed well is located with the following specific content:		
	<ul style="list-style-type: none"> Name, address, phone number, and contact party for Applicant; 		
	<ul style="list-style-type: none"> Intended purpose of proposed injection well, including exact location of a single well, or the section, township, and range location of multiple wells; 		
	<ul style="list-style-type: none"> Formation name and depth, and expected maximum injection rates and pressures; and 		
XIV. CERTIFICATION	Signature by operator or designated agent, including date and contact information.		

Review Date*:

Reviewer:

- ☐ Administratively COMPLETE
- ☐ Administratively INCOMPLETE

NOTES:

* The Review Date is the date of administrative completeness determination that commences the 15 day protest period in 19.15.26.8 (C)(2) NMAC.

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 172098

CONDITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 172098
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
drose	Pending protest resolution	1/26/2023

Protested SWD Application

Permian Resources
Corporation
1/26/2023

Rose-Coss, Dylan, EMNRD

From: Rose-Coss, Dylan, EMNRD
Sent: Thursday, January 26, 2023 10:04 AM
To: Deana Weaver
Cc: Goetze, Phillip, EMNRD; Gebremichael, Million, EMNRD; Schaefer, Alana, EMNRD; mark.hajdik@permianres.com; KATA@modrall.com
Subject: Notification of Protest for Application to Inject: Angel Ranch SWD #2_Pemian Resources Corporation
Attachments: 1-25-23 Permian's Protest re Admin App Redwood - Angel Ranch SWD #2_.pdf

Deana Weaver,

The OCD was notified by the Permian Resources Corporation that they are protesting the referenced application. Because of the protest, the application can no longer be reviewed administratively. You are being notified that for this application to be considered, Redwood Operating, LLC currently has two options; the first is to go to hearing, the second is to negotiate a resolution with the protesting party. If the protest is withdrawn, then the application can be reviewed administratively. In the meantime, the application will be retained pending a hearing or other resolution.

Please continue to provide OCD with information regarding the standing of this application and feel free to reach out with any questions.

Contact for Permian Resources Corporation:

Kathleen Allen

Legal Assistant to Earl E. DeBrine, Jr., Chris Killion & Bayard Roberts

Modrall Sperling | www.modrall.com

P.O. Box 2168 | Albuquerque, NM 87103-2168

500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102

O: 505.848.1800 Ext. 1671 | F: 505.848.9710

Regards,

Dylan Rose-Coss

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

C: (505) 372-8687



MODRALL SPERLING

L A W Y E R S

January 25, 2023

Via E-mail Only

OCD.Engineer@emnrd.nm.gov

Engineering Bureau
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Earl E. DeBrine, Jr.
505.848.1810
Fax: 505.848.1891
edebrine@modrall.com

Re: Administrative Application of Redwood Operating, LLC for
Authorization of Injection Well: Angel Ranch SWD #2, Section 11 of
Township 19S, Range 27E, Eddy County.

Dear Sir or Madam:

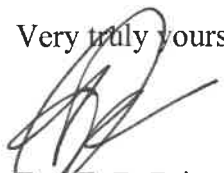
Permian Resources Corporation ("Permian"), by and through its counsel, hereby protests the above-referenced Administrative Application to Inject filed by Redwood Operating, LLC ("Redwood"). Redwood seeks to dispose of up to 20,000 BPD of fluids into the Cisco formation at depths of between 8,450 and 8975 feet.

Permian Resources is an "affected person" under Rule 19.15.26.7(A) which was provided notice of the application. Permian Resources believes that the proposed well may cause waste by injecting fluids into a productive formation and will impair or impede the development of Permian's oil and gas resources by limiting the location of Permian's wells and surface facilities such that granting the Application will cause waste and impair its correlative rights.

Permian Resources hereby requests that the application be set for hearing in accordance with Rule 19.15.26.8(D) and, after appropriate notice and hearing, be denied.

Please contact me if you have any questions.

Very truly yours,



Earl E. DeBrine, Jr.

EED/hta/ W4622016.DOCX

cc: Mark Hajdik (mark.hajdik@permianres.com)
Deana Weaver (dweaver@mec.com)

Modrall Sperling
Roehl Harris & Sisk P.A.
500 Fourth Street NW
Suite 1000
Albuquerque,
New Mexico 87102

PO Box 2168
Albuquerque,
New Mexico 87103-2168

Tel: 505.848.1800
www.modrall.com

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

**APPLICATION OF RILEY PERMIAN
OPERATING COMPANY LLC,
FOR A SALT WATER DISPOSAL WELL,
IN EDDY COUNTY, NEW MEXICO.**

Case No. _____

APPLICATION FOR SALT WATER DISPOSAL

Riley Permian Operating Company LLC, (OGRID 330211) by and through its undersigned attorney, applies for an order approving a salt water disposal well, and in support thereof, states:

1. Applicant seeks an order proposing a salt water disposal well for its Angel Ranch SWD #2, to be drilled at a location 588' FNL and 2,157' FEL, Unit B, Section 11, Township 19 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.
2. Applicant proposes to set a packer at 8,100' feet below the surface of the earth and then inject into the Cisco formation (Pool Code 96099) at depths between 8,450' through 8,975' open hole, as stated in the C-108, being the administrative application filing for the proposed injection well.
3. Attached hereto as Exhibit A is the C-108, administrative application.
4. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

PADILLA LAW FIRM, P.A.

/s/ Ernest L. Padilla

Ernest L. Padilla

Attorney for Riley Permian Operating Company LLC

PO Box 2523

Santa Fe, New Mexico 87504

505-988-7577

padillalawnm@outlook.com