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.	
Cusc	1 1 U •	

RE-FILED 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.
 - 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

Page 2 of 68Page 2 of 68

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
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:
	 Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.
	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 WeaverTITLE: Regulatory Technician II
	SIGNATURE:
k	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.

Released to Imaging: 1/26/2023 10:21:20 AM

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

11 T19S SECTION TOWNSHIP

UNIT LETTER

Δ

RANGE

R27E

WELL CONSTRUCTION DATA Surface Casing

WELLBORE SCHEMATIC

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

Cemented with: 550 sx. or

Top of Cement: 0 Method Determined: Circ

 \mathbb{H}^3

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

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

0

Top of Cement:

 \mathbb{H}^3

Method Determined:

Circ

Production Casing

Hole Size: 8 3/4"

Casing Size: 4 1/2" Production Liner

Cemented with: 100 sx.

or

 \mathbb{H}^3

Circ

Method Determined:

Total Depth: 9175'

0

Top of Cement:

Injection Interval

8450' feet to 8975' Perforated

(Perforated or Open Hole; indicate which)

Received by OCD: 1/4/2023 8:23:13 AM

Side 2

INJECTION WELL DATA SHEET

Tul	Tubing Size: 4 1/2"	Lining Material:	
Ty	Type of Packer:Arrow Set 10K (6 1/8" x 4 1/2") Nickel	Arrow Set 10K (6 1/8" x 4 1/2") Nickel Plated Packer w/ a 2.81 Profile Nipple	
Рас	Packer Setting Depth: 8,100'		
Otl	Other Type of Tubing/Casing Seal (if applicable):		
	Additi	Additional Data	
1.	Is this a new well drilled for injection?	X Yes No	
	If no, for what purpose was the well originally drilled?	y drilled?	
2	Name of the Injection Formation: Cisco		Ī
3.	Name of Field or Pool (if applicable): SWD	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.	r zone(s)? List all such perforated of cement or plug(s) used.	
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'	any oil or gas zones underlying or overlying the proposed Bone Springs- 3,225', Wolfcamp- 7,977', Cisco- 8,396', Strawn- 9,013'	sed

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'

5,

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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM

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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM

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

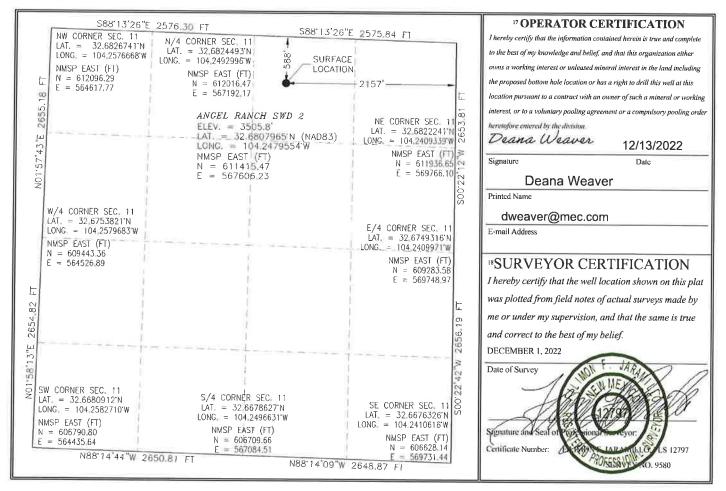
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

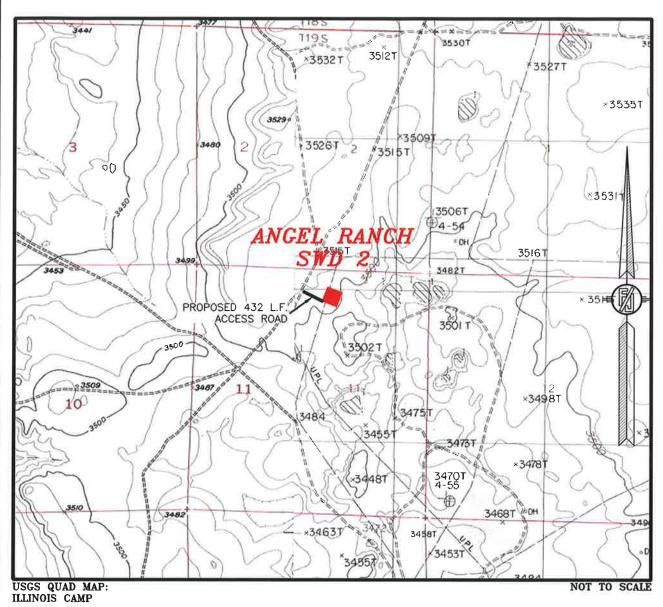
API Number ² Pool Code		³ Pool Na	me
	96099	SWD; Cisco	
4 Property Code	⁵ Pr	operty Name	⁶ Well Number
	ANGEL	RANCH SWD	2
⁷ OGRID №.	8 Operator Name		⁹ Elevation
330211	REDWOOD	OPERATING, LLC	3505.8

Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County B 11 19 S 27 E 588 **NORTH** 2157 **EAST EDDY** 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 ¹³ Joint or Infill 14 Consolidation Code 15 Order No. 40

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.



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



REDWOOD OPERATING, LLC

ANGEL RANCH SWD 2

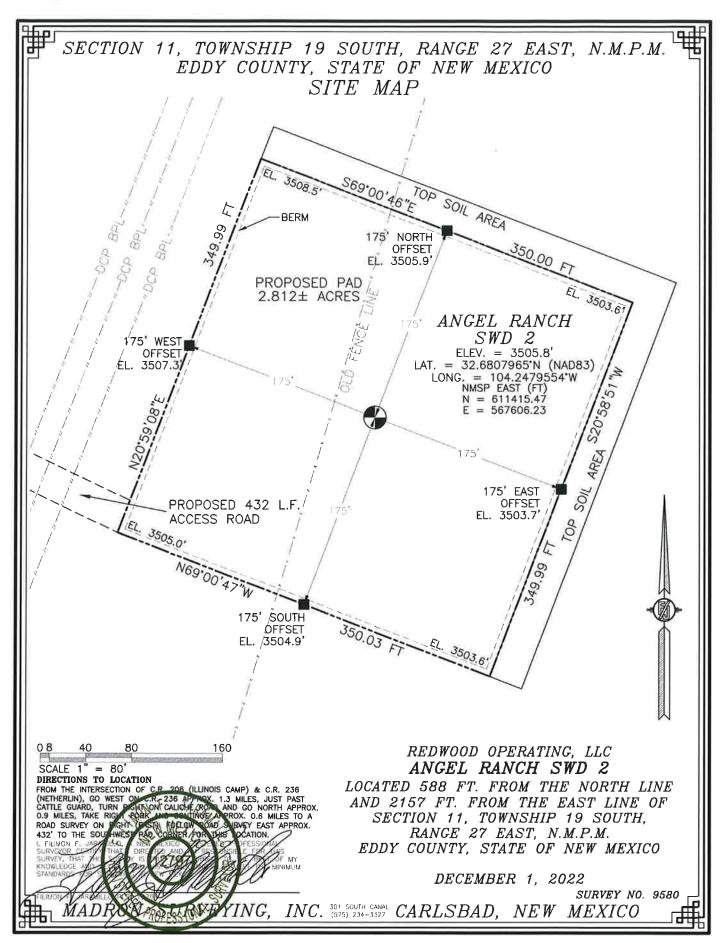
LOCATED 588 FT. FROM THE NORTH LINE
AND 2157 FT. FROM THE EAST LINE OF
SECTION 11, TOWNSHIP 19 SOUTH,

RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

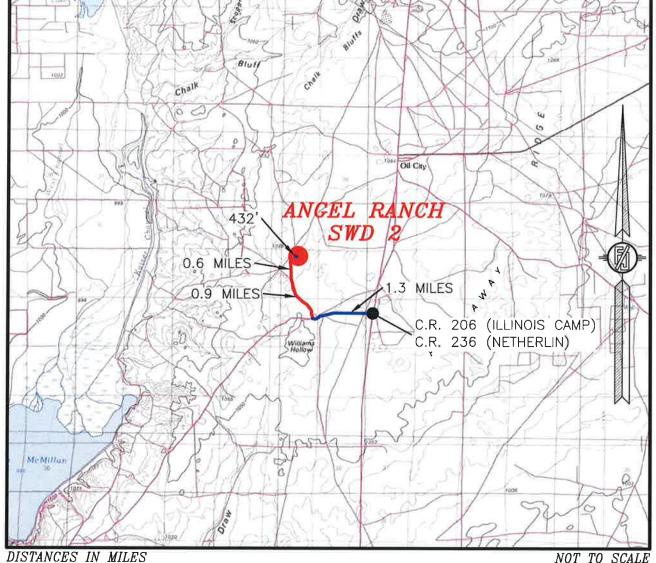
DECEMBER 1, 2022

SURVEY NO. 9580

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



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



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.

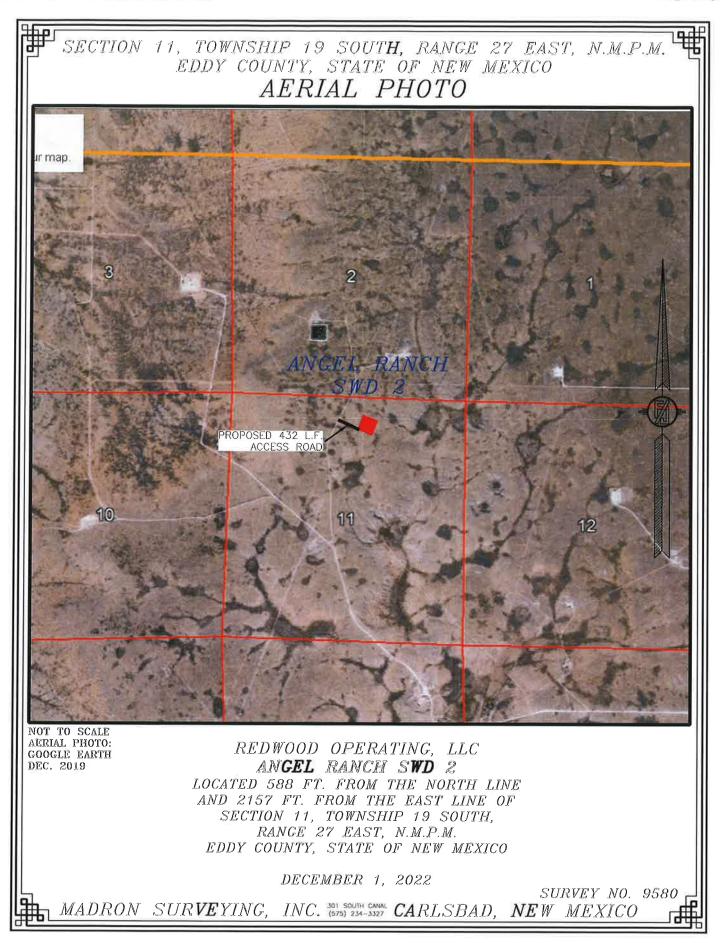
REDWOOD OPERATING, LLC ANGEL RANCH SWD 2

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

SURVEY NO. 9580

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



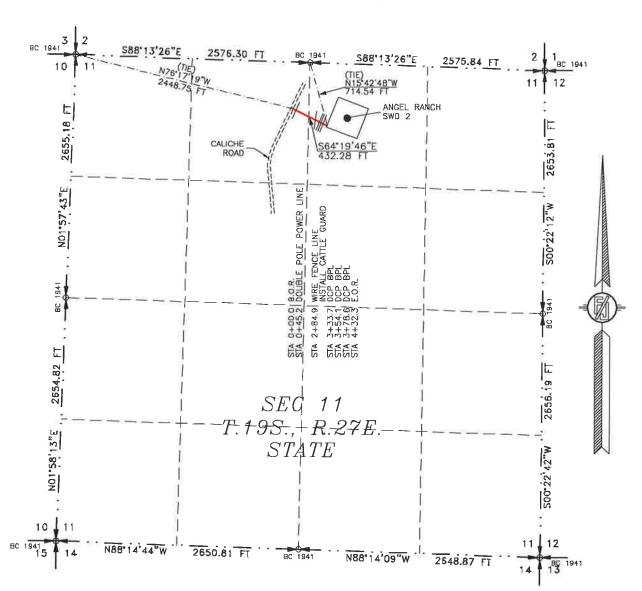


Released to Imaging: 1/26/2023 10:21:20 AM

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



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

MADRON SURVEYING

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 THE CERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 9580

AD, NEW MEXICO

Released to 1maging: 1/20/2023 10:21:20 AM

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

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(

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 NEW MEXICO.

CERTIFICATE IS EXECUTED AT CARLSBAD,

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

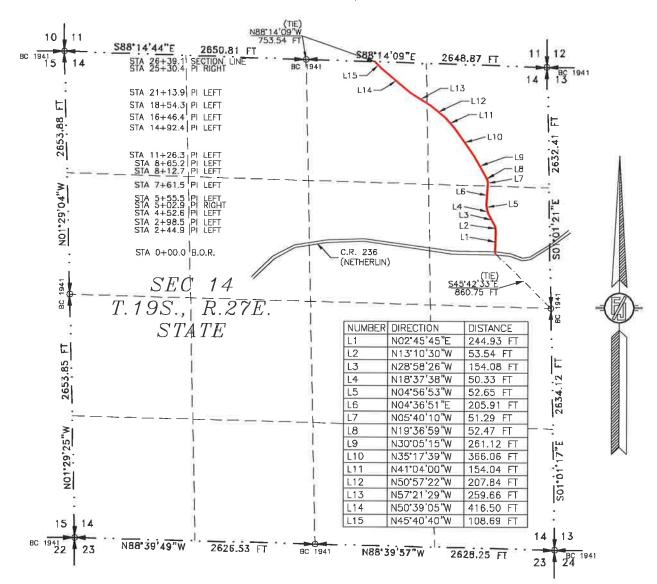
SURVEY NO. 9580

Released to Imaging: 1/20/2023 10:21:20 AM

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



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(

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 NEW MEXICO.

CERTIFICATE IS EXECUTED AT CARLSBAD,

ADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO B8220 Phone (575) 234-3327

SURVEY NO. 9580

INC. 301 (575)

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 \$45'42'33"E, A DISTANCE OF 860.75 FEET; THENCE NO2'45'45"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 NO4"56'53"W A DISTANCE OF 52.65 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO4"36'51"E A DISTANCE OF 205.91 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO5°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

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

GENERAL NOTES

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

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

SHEET: 2-4

MADRON SURVEYING

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.

MADRON SURVEYING, INC.

301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3327

SURVEY NO. 9580

INC. 301 SOD SEED SEED SOLD SOLD NEW MEXICO

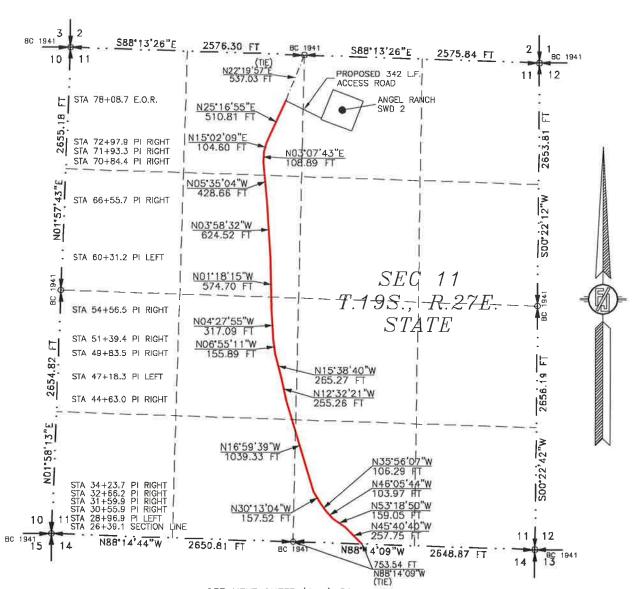
Released to imaging: 1/20/2023 10:21:20 AM

DISTANCE OF 753.54 FEET;

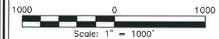
EXISTING ROAD FOR ACCESS TO ANGEL RANCH SWD 2

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 ŠURVÉY.

SHEET: 3-4

MADRON SURVEYING, INC. 301 (575)

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 NEW MEXICO.

CERTIFICATE IS EXECUTED AT CARLSBAD.

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

SURVEY NO. 9580

NEW MEXICO

Released to imaging: 1/20/2023 10:21:20 AN

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 NO6'55'11"W A DISTANCE OF 155.89 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO4"27"55"W A DISTANCE OF 317.09 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO1'18'15"W A DISTANCE OF 574.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO3'56'32"W A DISTANCE OF 624.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO5'35'04"W A DISTANCE OF 428.66 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO3'07'43"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

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
	SW/4	1363.19 L.Fa	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

INC.

GENERAL NOTES

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

DISTANCE OF 537.03 FEET;

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

SHEET: 4-4

MADRON SURVEYING

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.

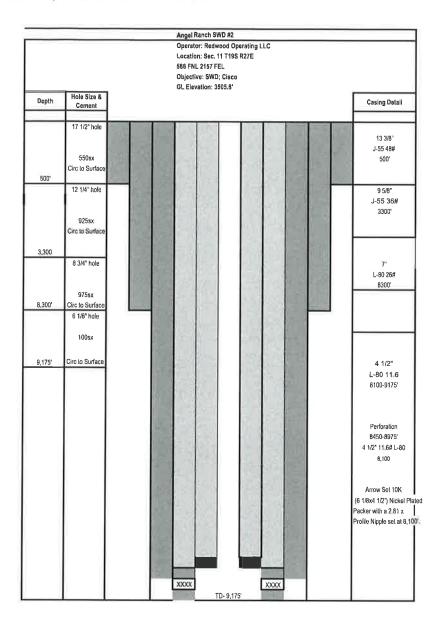
IN THE WIFE OF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 9580

SBAD, NEW MEXICO

Released to Imaging: 1/20/2023 10:21:20 AM



Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM

SDS		No.	26398
S of	New Mexico		
6 Clearty o	of Eddy:	7 /	
Danny		lam St	>
boog du	ly sworn sayes	s that he is the	Publisher
o 🚗 Aı	tesia Daily Pr	ess, a daily newspaper	r of General
10		in English at Artesia, s	
2		hereto attached	
Co.		al Ad	
- % -			
	_	ular and entire issue o	
A 👸 ia I	Daily Press, a c	faily newspaper duly	qualified
Same,			1.67 6
li 🛬 at p	surpose within	the meaning of Chap	ter 16 / of
-		the meaning of Chaps s of the state of New 1	
-	7 Session Law		Mexico for
the 1937	7 Session Laws	s of the state of New 1	Mexico for
the 1937	7 Session Laws Consecutiv	s of the state of New I	Mexico for
the 1937 day as fo	7 Session Laws Consecutiv	s of the state of New 1	Mexico for
the 1937 day as fo First Pub Second F	Consecutive Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second P Third Pu	Consecutive Consecutive Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second P Third Pu Fourth Pe	Consecutive Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second P Third Pu Fourth Pub	Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second F Third Pu Fourth Pub Sixth Pub	Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second F Third Pu Fourth Pu Fifth Pub Sixth Pub	Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New I	Mexico for
the 1937 day as fo First Pub Second F Third Pu Fourth Pu Fifth Pub Sixth Put Seventh	Consecutive Consecutive Consecutive Consecutive Consecutive Consecution Consec	s of the state of New New Weeks/day on the sa	Mexico for

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.

Name	Address	Cit	State	Zio	Certified Mail Id
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe	ΣZ	87501	7021 1970 0000 5914 6109
Bureau Of Land Management	620 E. Greene St	Carlsbad	ΣZ	88220-6292	7015 3430 0000 2217 2272
Concho Oil & Gas LLC	One Concho Center	Midland	×	79701	7015 3430 0000 2511 2512 7015 3430 0000 2217 2289
COG Operating LLC	600 W. Illinois Ave	Midland	×	79701	7015 3430 0000 2211 2203
EOG Resources Inc	1111 Bagby St Lbby 2	Houston	×	77002-2589	7015 3430 0000 2217 2283
OXY Y-1 CO	5 Greenway Plz Ste 110	Houston	×	77046-0521	7015 3430 0000 2209 5922
Colgate Operating LLC	300 N. Marienfeld St Suite 1000	Midland	×	79701	7015 3430 0000 2217 2258
ZPZ Delaware LLC Attn: Peggy Clark	2000 Post Oak Blvd Suite 100	Houston	×	77056	7015 3430 0000 2217 2265
Chevron USA INC	6301 Deauville Blvd	Midland	×	90262	7015 0640 0006 7024 4745
Devon Energy Production Company LP	333 W. Sheridan Ave	Oklahoma City	š	73102	7015 3430 0000 2217 2456
Occidental Permian LTD	P.O. Box 4294	Houston	×	77210-4294	7015 3430 0000 2217 2463
MRC Delaware Resources, LLC	108 South Fourth St	Artesia	ΣZ	88210	7015 3430 0000 2217 2470
WPX Energy Permian LLC	333 W. Sheridan Ave	Oklahoma City	ŏ	73102	7015 3430 0000 2217 2487
V-F Petroleum Inc	P.O. Box 1889	Midland	×	79702	7015 3430 0000 2217 2494

OCD Well Locations

L3 L3 L3 L3 LSEENW (F) SEENW (K) SEENW (C)	SWSE (O)	L1 SENE (H) NESE (I) EOG Resources Inc (P) EOG Resources Inc	Concho/COG Opera	L 3 OG Operating LLC SENW (F) Operating LLC MESW (K)	L 2 L 2 Concho/COG Operat SWNE (G) Concho/COG C	SENE (H)	L 4 L 4 WPX End SWAW (E)	L3 L3 L3 SERW (F)	V-F Petroleum	NEE
L3 SENW (F) SESW (K) SESW (N)	SWNE (G) NWSE (J) SWSE (O)	SENE (H) NESE (I) EOG Resources Inc SESE (P)	Concho/COG MWSW (L) Concho/COG Opera	OG Operating LLC SENW (F) Operating LLC MESW (K)	L 2 Concho/COG Operal SWNE (G) Concho/COG C	L, 1 SENE (H) Operating LLC NESE	L 4 WPX End SWAW (E)	L 3 Pergy Permian LLC SERRW (F) 91 NESW	SWINE (G)	SENI (H)
(F) IESW (K) ESW (N)	SWNE (G) 03 NWSE (J) SWSE (O)	SENE (H) NESE (1) EOG Resources Inc	Concho/COG	OG Operating LLC SENW (F) Operating LLC MESW (K)	Concho/COG Operal SWNE (G) Concho/COG C	objecting LLC SENE (H) Departing LLC NESE	WPX End SVAW (E)	SERW (F)	SWNE (G)	Inc
(F) IESW (K) IESW (N)	(G) NWSE (J) SWSE (O)	NESE (1) EOG Resources Inc EUSESE (P)	Concho/COG Opera	SENW (F) Operating LLC MESW (K)	SWNE (G) Concho/COG C	SENE (H) Operating LLC	SWAW (E)	SERW (F)	V-F Petroleum	Inc
(F) IESW (K) IESW (N)	(G) NWSE (J) SWSE (O)	NESE (1) EOG Resources Inc EUSESE (P)	Concho/COG MWSW (L) Concho/COG Opera	(F) Operating LLC NESW (K)	(G) Concho/COG C	(H) Deperating LLC NESE	SWAW (E)	SERW (F)	V-F Petroleum	Inc
ESW	SWSE (0)	EOG Resources Inc	MWSW (L) Concho/COG Opera	Operating LLC MESW (K)	Concho/COG C	NESE		NESW	NWSE	NEE
ENW	SWSE (O)	DO DO SESE		ting LLC				EOG Resources In	(J)	
ENW	(0)	sÉse (P)	CLAUSIAL	ung LLC			EOG Resources In		EOG Resource	es Inc
ENW (C)	į.		SWSW (M)	SESW (N) Concho/COG O	(0)	SESE (P) DG Resources Inc	SWSW (M) MRC	SESW (N) Delaware Resources	SWSE (0)	SE() (P)
ENW (C)				Colgate Oper	ating LLC	olgate Operating LL		3402 Ji Occi	dental Permian	LTD
	MWNE (B)	NENE (A) EOG Resources Inc	NWNW (D) Colgate Operating LL	NENW (C)	NWNE (B)	HENE (A)	NW#W (D) WPX En	NEMW (C)	NWNE (B)	NENE (A)
ENI <i>N</i>	SWIFE	CEAIC	N. Carlotte		Devon Energy				MRC Delaw	are Re
(F)	(G) 198	(H)	(E)	(F)	(G)	(H)	WPX Energ	SENW (F) gy Permian LLC	SWNE (G)	SENE (H)
	9	Oxy Y-1 CO	ZPZ Delaware LLC	Colgate	Operaling LLC		MRC Delaware F	Resources LLC		7
ESW K)	E)	NESE (1)	NWSW (L)	NESW (K)	MWSE (J) 3393 ft	NESE (1)	NWSW (L)	NESW (K) MRC Delaware	(J)	(1)
3365	h		inte Operating LLC	Chevron USA In6	olgate Operating LLC	Devon Energy	Occidental Per			L
N)	SWSE (O)	SESE (P)	SWSW (M)	SESW (N)	SWSE (O)	SESE (P)				
ENW C)	NWNE (B)	NENE (A)	HWNW (D)	3373 ft = NENWY (C)	NWNE (B)	NENE (A)	NWAW (D)	NENW (C)	NWNE (B)	MENE (A)
ENW F)	15 SWNE (G)	SENE (H)	SWNW (E)	SENW (F) 14	SWNE (G)	SENE (H)	SWNW (E)	SENW 13	SWNE (G)	SENE (H)
ESW K)	HWSE (J)	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)
SW	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)						1
10:58:50]		a 18 Ove	arrida 24				1	1:18,056		
ide 12 [0	0.17	0.35	0	.7 mi
ide 14						0	0.28	0,55	1,1	1 km
ide 15	Override	e 21 📜 🖟 PLS	SS Second Div	ision			Contributors, N	lew Mexico State Univ	ersity, Texas Pa	arks &
ide 16 [n						
	ESW K) ESW N) ESW N ESW N	SW SWSE (J) Coss:50 AM Override de 12 Override de 14 Override de 15 Override	(B) (A) EOG Resources Inc SWINE (H) 198 29E Oxy Y-1 CO NESE (I) SWSE (P) NWNE (H) SWSE (P) NWNE (H) SWSE (H) SWSE (H) SWSE (H) Override 18 Override 19 Override 20 Override 21 Override 22 PLS	(B) (A) (D) colgate Operating Lt (E) (F) (G) 198 29E (H) (E) (ZPZ Delaware Lt.C) (L) (E) (L) (E) (L) (E) (E) (H) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	RANN (B) EOG Resources Inc Cogate Operating LLC SWNW (E) SENW (E)	NAME	NAME NAME	NAME C C C C C C C C C	NAME NAME	NAME C C C C C C C C C

New Mexico Oil Conservation Division Released to Imaging: 1/26/2023 10:21:20 AM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017/2306164de29fd2fb9f8/35ca75: New Mexico Oil Conservation Division



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

a Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575.746.1288 F: 575.746.9539 INFOQRESWOODOPERATING.COM



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.

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

reana Weaver

Deana Weaver

Regulatory Technician (1

DW/

Attachments

0: 575.748.1288 F: 575.748.9539 INFO@REDWOODOPERATING.COM



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

0: 575.748.1288 F: 575.746.9539 INFO@RECIMODOPERATING,COM



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

eana Weaver

Deana Weaver

Regulatory Technician ()

DW/

Attachments

0: 575,746,1288 Fr 575,746,9539 INFO@REDWOODDREDATING COM



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.

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

seana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575,746,1268 F: 575,746,9539 INFO@REDWOODOPERATING.COM



<u>Via Certified Mail 7015 3430 0000 2209 5922</u> 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

0: 575.746.1288 F: 575.746.9539 INFO@REDWOODDPERATING.COM



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

ana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575.748.1288 F: 575.746.5539 INFO@REDWOODOPERATING.COM



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

na Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575.748.1288 F: 575.746.9538 INFO@REDWOODOPERATING.COM



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.

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

rana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575.748.1288 F: 575.746.9939 INFO@REOWOODOPERATING.COM



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

eana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575,746,1288 F: 575,746,9539 INFO@REDWOODOPERATING.COM



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.

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

ana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

0; 575.748.1288 F; 575.748.3539 INFO@REDWOODDPERATING.COM



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.

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

eana Wearer

Deana Weaver

Regulatory Technician II

DW/

Attachments

D: 575.746.1266 F: 575.746.9939 INFO@REDWOODDPERATING.COM



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

Deana Weaver

Regulatory Technician II

DW/

Attachments

0: 575,746,1266 F: 575,746,8535 INFOQREDWOQDOPERATING.COM



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.

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

eana Weaver

Deana Weaver

Regulatory Technician II

DW/

Attachments

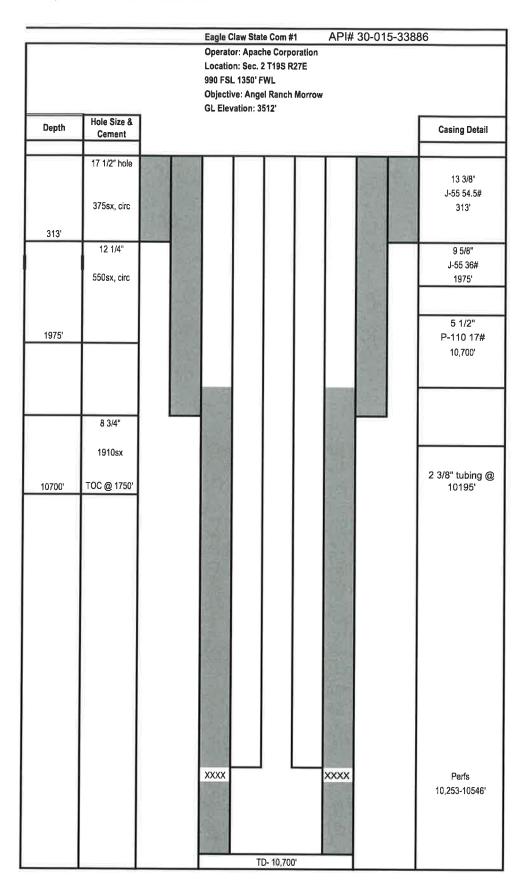
0: 575.748.1288 F: 575.746.9539 INFOREDWOODORFBATING COM

April 1
-
-
1
7
Con.
2000
66
٠,
es.
10.0
- 0
- 90
Mp.
7
N
0
PS1
-
120
1
Person
2.5
0
4 1
-
~
-
-
5
4
-
~
- 34
- 2
2 500
- 94
- 0
2

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

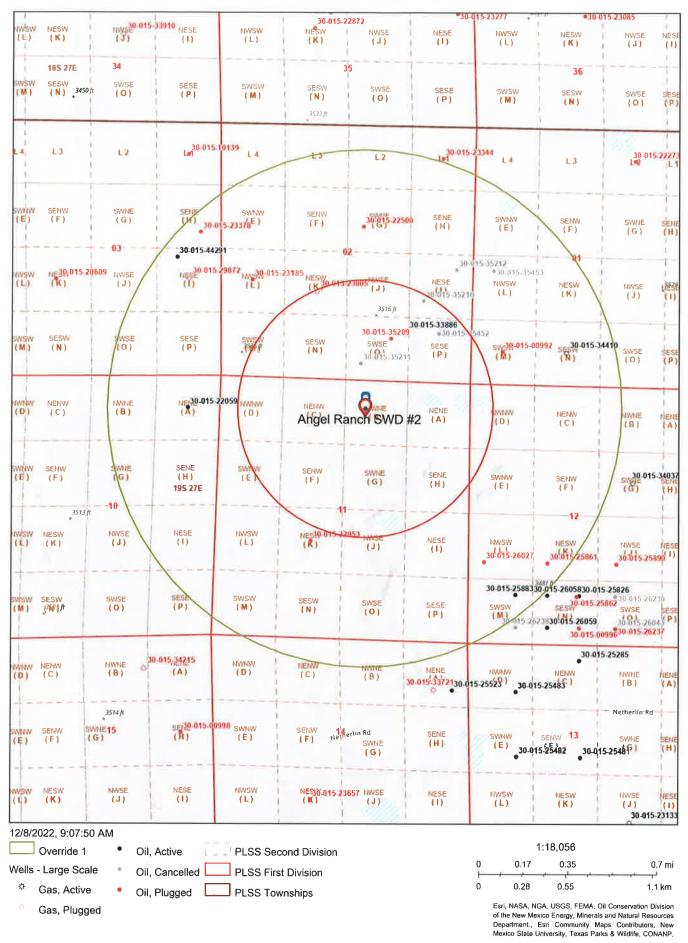
Operator	Well Name	API II	County	100	Sec	TWN	RNG	Type	Status	Spud Date	Status Sport Date Comp Date	OI.	PSTD	Camp Zone	Como Intercal	Hole Sure	Casino Bron	Comunit
Remode Operating LLC	Angel Ranch SWD #2	100000	Eddy	S88 FNL & 2157 FEL 111	EL 11	188	276	OWS	New Dell			2175		SWD Caco	R450-8075	H	17 TOT ARE LCC.	CONT. Plan
			10000	and												4774 63	D 6284 128 1.00	100000000000000000000000000000000000000
																	200 000 000	Steam, Care
										İ						****	0.04 Con 1-00	White Cat
			1													6 1/8"	6 1/8" 11 80¢ 1-80	100px Circ
Southand Royalty Co.	Williams State Com #1	30-015-23805	Fddy	1780 FSL 1980 FWI	WI 2	198	27E	Gas	P&A	10/3/1981	12/10/1981	10 565'	10.136	Angel Ranch;	7600-7624, 8320-8356, 9820- 10,097, 13,190-10167	15 107	11 347 429 H-40 IB 257	400ss cire
										The Control of	1000000					11.	8 5/6", 24#, K-55 692003	600ts circ
			1													7.78*	4 1/2", 11 SH, N-80 (\$10565"	1100ax, TOC @ 7330
Apache Corporation	Eagle Claw State Com #1	30-015-33886	Eody	980 FSL 1350 FEL	2	195	27E	Gas	Producing 3/8/2005 5/2/2005	(8/2005 5	12/2005	10.700	10.350	Angel Ranch;	10,263-10 546"	201.21	11 0 34 W.C.	Wear con
		THE PARTY OF THE P		The second second						100000						12 114	9 5/6" 36# 3-55 @ 1075	Solue con
			1													8.314*	S 1/2", 17#, P.110 @ 10,700'	1910sx, TOC @ 1750
EOG Y Resources Inc	Amoco State HE #1	30-015-22953	Eddv	1980 FSL 1980 FWL 11	M. 13	SE SE	27E	Gas	P&A	0861/8779 (6/28/1980	729/1980	10.570′	10.527	Anesa, Queen Grayburg-San Averse	1652-1679, 6246-6256, 9958-	12.100	AN VINC. AND DICE.	THE PERSON
							П									12 14	9 tule 14cm to 1300	2385ss core
																8 34**	7, 238 63846	2200ss circ
																6.1/8	14 177" Linor (B) 8637-10570"	3104
									ĺ	j								

252'	Hole Size & Cement 15 1/2" hole 400sx CMT Circ to Surface 11" hole 600sx CMT Circ to Surface		Location 1780 F Object	or: Southland Royalty Con: Sec. 2 T19S R27E SL 1980' FWL ive: Angel Ranch Bone S vation: 3531'		Casing Detail 11 3/4" H-40, 42# 252' 8 5/8" K-55 24#
252'	Cement 15 1/2" hole 400sx CMT Circ to Surface 11" hole					11 3/4" H-40, 42# 252' 8 5/8" K-55 24#
252'	400sx CMT Circ to Surface 11" hole 600sx CMT					H-40, 42# 252' 8 5/8" K-55 24#
	600sx CMT					K-55 24#
1 1	Circ to Surface		6		1118	2003'
						4 1/2" N-80 11.6# 10565'
	7 7/8" Hole	(2)				
10,565	1100sx CMT TOC @ 7330'		55			25sx cmt plug to 100-0' 30sx cmt plug @ 302' 30sx cmt plug @ 2048' 30sx cmt plug @ 2055' 30sx cmt plug @ 3215' 30sx cmt plug @ 5330'
			xxxx	www www	XXXX	Stub Plug @ 6930' Cut 4 1/2" csg @ 7000' 35' cmt plug @ 7050'
	CIBP @ 8290' 35'cmt cap		xxxx		xxxx	CIBP @ 7750¹ 35sx ⊤op
	CIBP @ 9890' 35' cmt cap Cmt Ret @10,136 Squ 81sx Cap w/ 4sx		XXXX	TD- 10,565'	XXXX	Perfs 7600-7624' 8320-8356' 9920-10027' 10190-10197'



			Amoco State HE #1	API# 30-015-2	2953
	1		Operator: EOG Y Resour Location: Sec.11 T19S R 1980 FSL 1980' FWL Objective: Artesia; Quee GL Elevation: 3481.2'		
Depth	Hole Size & Cement				Casing Detail
	17 1/2" hole 1160sx, circ				13 3/8" 48# 514'
514'	12 1/4" 2380sx, circ		XXXXX	xxxxx	9 5/8" 36# 3300'
3300'	8 3/4" 2200sx, circ				7" 23# 8848'
8848'	6 1/8"		XXXX	XXXX	4 1/2" Liner 8627-10570'
10570'	310sx				
			XXXX	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
		5	XXXX ~~~~~ TD- 10,570	xxxx	9958-10280'

OCD Well Locations





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

Water Analysis Report

Sample #:

Analysis ID #:

225586

175700

Customer: Redwood Operating LLC

Area: Permian Basin

Lease: Angel Ranch

Location: 1 0

Sample Point: Wellhead

Sampling Date:	12/14/2022	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/19/2022	Chloride:	1840.7	51.92	Sodium:		
Analyst:	Catalyst	Bicarbonate:	268.4	4.4	Magnesium:	528.4 345.3	22.98 28.41
TDS (mg/l or g/m3):	4934.1	Carbonate:			Calcium:	635.0	31.69
Density (g/cm3):	1.005	Sulfate:	1300.0	27.07	Potassium:	4.4	0.11
Density (g/cm3).	1.005	Borate*:	2.0	0.01	Strontium:	9.9	0.23
		Phosphate*			Barium:	0.0	0.
Hydrogen Sulfide:					Iron:	0.0	0.
Carbon Dioxide:			sed on measured on and phosphorus.		Manganese:	0.002	0.
0		pH at time of sampli	ng:	7.65			
Comments:		pH at time of analys	is:				
CP00502		pH used in Calcula	tion:	7.65			
		Temperature @ lab	conditions (F):	75	Conductivity (mice	* F51	6931 1.4428

		Values C	alculated	at the Give	n Conditi	ons - Amoι	ints of Sc	ale in lb/10	00 bbl	
Гетр		alcite CaCO ₃		sum 94*2H ₂ 0		ydrite aSO ₄		estite 'SO ₄		rite iSO 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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM



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

Sampling Date:	12/14/2022	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/19/2022	Chloride:	684.4	19.3	Sodium:	98.4	4.28
Analyst:	Catalyst	Bicarbonate:	85.4	1.4	Magnesium:	115.4	9.49
TDS (mg/l or g/m3):	2694.8	Carbonate:			Calcium:	593.2	29.6
Density (g/cm3):	1.004	Sulfate:	1100.0	22.9	Potassium:	4.8	0.12
Donaldy (grown).	1.004	Borate*:	5.3	0.03	Strontium:	7.9	0.18
		Phosphate*			Barium:	0.0	0.
Hydrogen Sulfide:					Iron:	0.0	0.
Carbon Dioxide:			sed on measured on and phosphorus.		Manganese:	0.002	0.
C		pH at time of sampli	ing:	8.01			
Comments:		pH at time of analys	is:				
RA08929		pH used in Calcula	ition:	8.01			
		Temperature @ lab	conditions (F):	75	Conductivity (mici Resistivity (ohm m	* 75	3869 2.5846

		Values C	alculated	at the Give	n Conditi	ons - Amou	unts of Sc	ale in lb/10	ldd 00	
Гетр		alcite CaCO ₃		sum 04*2H ₂ 0		ydrite aSO ₄		estite 'SO ₄		rite ISO 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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM

Page 46 of

CURRENTLY ACTIVE POINTS OF DIVERSION

Received by OCD: 1/4/2023 8:23:13 AM

Currently Active Points of Diversion New Mexico Office of the State Engineer

(with Ownership Information)

					(Caratare)	1-NIM 2-N	10 3-CW 4-CT		
	(acre ft	(acre ft per annum)			(quarters a	(quarters are smallest to largest)	(quarters are smallest to largest)		(NAD83 LITM in meters)
	Sub			Well			(inchin		
WR File Nbr	basin Use Diversion Owner		County POD Number	Tag Grant	Source	Source 6416 4 Sec Twe Bon	Twe Boo	>	>
RA 02385	RA DOM	0 JEFF C. FLOYD	ED RA 02385	,		1 3 27	19S 27E	568171 3610454*	1610454*
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			424 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:

Range: 27E Township: 19S

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

Released to Imaging: 1/26/2023 10:21:20 AM



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

Status From/

Tru # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

200207 72121 1948-03-11 EXP EXP RA 02385 T

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

RA 02385 1 3 27 198 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



WR Flie 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:

Total Diversion: 0 Cause/Case: -

Owner: YATES DRILLING COMPANY

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

254337 72121 1967-06-14 PMT APR RA 05367 T

Current Points of Diversion

(NAD83 UTM in meters)

POD Number | Well Tag | Source | 64 Q16 Q4 Sec Two Rng | X | Y | Other Location Desc RA 05367 | 4 | 1 | 28 | 198 | 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 auitability for any particular purpose of the data.

11/9/22 9:08 AM

WATER RIGHT SUMMARY

Hender: -



WR File Number: RA 05475

Subbasin: RA

Cross Reference: -

Primary Purpose: STK

File/Act

PMT PERMIT

Primary Status: Total Acres:

Subfile:

72-12-1 LIVESTOCK WATERING

Header: -

Total Diversion:

Doc

Cause/Case: -

Transaction Desc.

Owner: RAYMOND NETHERLIN

Documents on File

Status

2

1

From/

Acres Diversion Consumptive

252789 72121 1969-01-14 PMT LOG RA 05475 Tn T

Current Points of Diversion

Ten#

(NAD83 UTM in meters)

POD Number RA 05475

Well Tag Source 64Q16Q4Sec Tws Rng Shallow 3 1 16 19S 27E 566555 3614078*

Other Location Desc

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



WR File Number: RA 06123

Subbasin: RA Cross Reference: -

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status:

Total Acres:

Subfile:

Transaction Desc.

Header: -

Total Diversion:

Cause/Case: -

Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

Status

1

From/ To

Acres Diversion Consumptive

File/Act Doe 243744 72121 1977-02-24

2 PMT LOG RA 06123

Т

Current Points of Diversion

(NAD83 UTM in meters)

POD Number

Well Tag Source 64Q16Q4Sec Tws Rng 4 2 4 15 19S 27E 569486 3613610*

Other Location Desc

RA 06123 *An (*) after northing value indicates UTM location was derived from PLSS - see Help

0

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



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

			St	atus		From/			
Tru#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion 6	Consumptive
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

(NAD83 UTM in meters)

POD Number RA 06705 Well Tag Source 64Q16Q4Sec Tws Rng Shallow 4 2 4 30 19S 27E X Y 564608 3610358° @

Other Location Desc

"An (*) after northing value indicates UTM fecation 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



WR File Number: RA 07559

Subbasin: RA

72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Cross Reference: -

Primary Purpose: PRO **Primary Status: EXP**

EXPIRED

Total Acres:

Subfile:

Transaction Desc.

Header: -

Total Diversion:

Cause/Case: -

Owner: HARVARD PETROLEUM CORPORATION

Documents on File

Status

Q

1

From/

Acres Diversion Consumptive

Trn# File/Act Doc 246889 72121 1986-09-22

2 EXP EXP RA 07559 To

Current Points of Diversion

(NAD83 UTM in meters)

POD Number RA 07559

Well Tag Source 64Q16Q4Sec Tws Rng 4 4 4 14 19S 27E 571101 3613197*

Other Location Desc

"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



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

Status From/
File/Act 1 2 Transaction Desc. To Acres

247852 72121 1988-06-23 PMT LOG RA 07672 T 0

Current Points of Diversion

(NAD83 UTM in meters)

Diversion Consumptive

POD Number | Well Tag | Source | 64 Q16 Q48cc Twe Rug | X | Y | Other Location Desc | RA 07672 | Shallow | 1 1 3 08 198 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



get image list

WR File Number:

RA 08645

Subbasin: RA

Cause/Case:

Cross Reference:

Primary Purpose:

e: PRO

72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status:

DECLARATION

Total Acres:

DCL 0

Subfile:

Header: -

Total Diversion: 3

Owner: STEVEN V. MCCUTCHEON

Documents on File

Trn# Doc File/Act

2005-01-25

Status 1 2

1 2 Transaction Desc.
EXP EXP RA 08645

From/ To T

Acres Diversion Consumptive

246622 DCL 1993-11-10

DCL PRC RA 08645

T

3

Current Points of Diversion

Infl Ton Course

Source 64Q16Q4Sec Tws Rng Shallow 3 3 3 34 19S 27E

(NAD83 UTM in meters)

X Y

567919 3608365*

Other Location Desc

0

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

Priority Summary

RA 08645

POD Number

Priority 12/31/1942 Status

Acres Diversion Pod Number
0 3 RA 08645

Shallow

Place of Use

QQ

256 64 Q16 Q4Sec Tws Rng

Acres Diversion

CU Use Priority

Status Other Location Desc

DCL NO PLACE OF USE GIVEN

Source

Acres Diversion
0 3

CU Use Priority STK 12/31/1942

Source Description
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



WR File Number: RA 08929

Subbasin: RA

Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status:

Total Acres:

Subfile:

Transaction Desc.

Header: -

Total Diversion:

Cause/Case:

Owner: BILL NETHERLIN

Documents on File

Status

2

PERMIT

To

Frem/

Acres Diversion Consumptive

PMT LOG RA 08929 250712 72121 1995-01-13

File/Act

Ţ

3

Current Points of Diversion

Trn#

(NAD83 UTM in metern)

POD Number RA 08929

Doc

Source 64Q16Q4Sec Tws Rng Shallow 3 3 1 13 198 27E

X 571282 3613992*

Other Location Desc

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 Analysis Report Received by OCD: 1/4/2023 8:23:13 AM



SYSTEM IDENTIFICATION

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

Sample ID#: ID

2021-06-04-39

Sample Date: Report Date:

06-02-2021 at 2216 06-09-2021

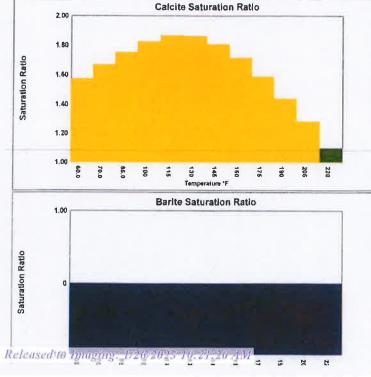
WATER CHEMISTRY

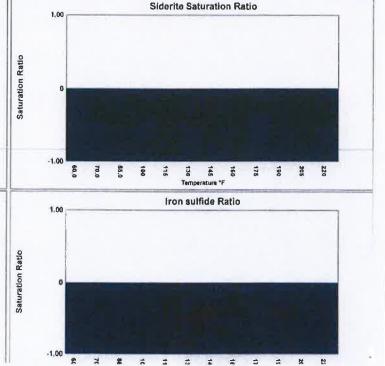
CATIONS		ANIONS	
Calcium(as Ca)	4593	Chloride(as Cl)	421021
Magnesium(as Mg)	984.00	Sulfate(as SO ₄)	2179
Barium(as Ba)	0.00	Dissolved CO ₂ (as CO ₂)	225.06
Strontium(as Sr)	88.00	Bicarbonate(as HCO ₃)	427.00
Sodium(as Na)	71855	H ₂ S (as H ₂ S)	30,00
Potassium(as K)	978.00	Boron(as B)	12.00
Lithium(as Li)	24.00		
Iron(as Fe)	0.00		
Manganese(as Mn)	0.100		
Zinc(as Zn)	0.00		
PARAMETERS			
Temperature(OF)	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.	Press.		Calcite		An	hydrite	Gy	psum	8	larite	Ce	lestite		Siderite		Mack	dnawite
(OF)	(psia)		CaCO ₃		C	aSO ₄	CaSC	4*2H2O	В	aSO ₄	S	rSO ₄		FeCO ₃			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	-0.460
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	-0.549
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	-0.378
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	-0.336
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	-0.33:
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	-0.349
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	-0.384
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	-0.43
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	-0.508
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	-0.60.
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	-0.719
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	-0.893
			Lbs per	PP		Lbs per		Lbs per		Lbs per		Lbs per		Lbs per	PP		Lbs pe
		xSAT	1000	THE REAL PROPERTY.	xSAT	1000	xSAT	1000	xSAT	1000	XSAT	1000	xSAT	1000		xSAT	1000
			Barrels	1128		Barrels		Barrels		Barrels		Barrels		Barrels	14/14/2		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.







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

		CO2 - H2S Rate(mpy)	DICITON	0.32		
pH	6.00	CODDOCION DATE DOS	DICTION			
Temperature (^O F)	77.00					
Pressure(psia)	15.00	Sulfate	2462	696.3		
Sp.Gr.(g/mL)	1.130	Phosphate	0.00	0.0		
Resistivity	4.28	Carbonate	20.07	0.043		
Molar Conductivity	233708	Barlum	0.00	0.0		
Calculated T.D.S.	217105	Calcium	5190	475		
PARAMETERS		BOUND IONS	TOTAL	FRE		
Zinc (as Zn)	0.00					
Manganese (as Mn)	0.100					
Iron (as Fe)	0.00					
Lithium (as Li)	24.00					
Potassium (as K)	978.00	Boron (as B)		12.00		
Sodium (as Na)	71855	H ₂ S (as H ₂ S)		30.00		
Strontium (as Sr)	88.00	Bicarbonate (as HCO ₃)		427.00		
Barium (as Ba)	0.00	Dissolved CO ₂ (as CO ₂)		225.06		
Magnesium (as Mg)	984.00	Sulfate (as SO ₄)				
Calcium (as Ca)	4593	Chloride (as CI)				
CATIONS		ANIONS				

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

Released to Imaging: 1/26/2023 10:21:20 AM



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	FREE ION MOMENTARY EXCES	SS (Lbs/1000 Barrels)	
Calcite (CaCO ₃)	1.73	Calcite (CaCO ₃)	0.0108	
Aragonite (CaCO ₃)	1.60	Aragonite (CaCO ₃)	0.00959	
Witherite (BaCO ₃)	0.00	Witherite (BaCO ₃)	-27.73	
Strontianite (SrCO ₃)	0.03	Strontianite (SrCO ₃)	-1.28	
Calcium oxalate (CaC2O4)	0.00	Calcium oxalate (CaC ₂ O ₄)	-0.00752	
Magnesite (MgCO ₃)	0.44	Magnesite (MgCO ₃)	-0.0271	
Anhydrite (CaSO ₄)	1.00	Anhydrite (CaSO ₄)	-1.15	
Gypsum (CaSO ₄ *2H ₂ O)	1.22	Gypsum (CaSO ₄ *2H ₂ O)	67.84	
Barite (BaSO ₄)	0.00	Barite (BaSO ₄)	-0.120	
Celestite (SrSO ₄)	0.38	Celestite (SrSO ₄)	-89.07	
Fluorite (CaF ₂)	0.00	Fluorite (CaF ₂)	-2.78	
Calcium phosphate	0.00	Calcium phosphate	>-0.001	
Hydroxyapatite	0.00	Hydroxyapatite	-263.20	
Silica (SiO ₂)	0.00	Silica (SiO ₂)	-27.99	
Brucite (Mg(OH) ₂)	< 0.001	Brucite (Mg(OH) ₂)	-0.233	
Magnesium silicate	0.00	Magnesium silicate	-87.51	
Iron hydroxide (Fe(OH) ₃)	0.00	Iron hydroxide (Fe(OH) ₃)	-0.211	
Strengite (FePO ₄ *2H ₂ O)	0.00	Strengite (FePO ₄ *2H ₂ O)	>-0.001	
Siderite (FeCO ₃)	0.00	Siderite (FeCO ₃)	-0.347	
Halite (NaCl)	0.24	Halite (NaCl)	-73627	
Thenardite (Na2SO ₄)	0.00	Thenardite (Na2SO ₄)	-84955	
Iron sulfide (FeS)	0.00	Iron sulfide (FeS)	-0.570	
SIMPLE INDICES		CARBONATE PRECIPITATION	POTENTIAL (Lbs/1000 Barr	els)
Langelier	0.876	Calcite (CaCO ₃)	187.56	
Ryznar	4.25	Aragonite (CaCO ₃)	185.27	
Puckorlus	1.66	Witherite (BaCO ₃)	0.00	
Larson-Skold Index	301.16	Strontianite (SrCO ₃)	-18.23	
Stiff Davis Index	0.732	Magnesite (MgCO ₃)	135.47	
A 11 -				

OPERATING CONDITIONS

Siderite (FeCO₃)

Temperature (^OF)
Time(mins)

-0.237

77.00 3.00 0.00

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

Released to Imaging: 1/26/2023 10:21:20 AM

Oddo-Tomson

DownHole SAT™ Water Analysis Report



SYSTEM IDENTIFICATION

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

Sample ID#:

ID:

2021-06-03-28

Sample Date: Report Date:

05-31-2021 at 1553

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

at pH

8

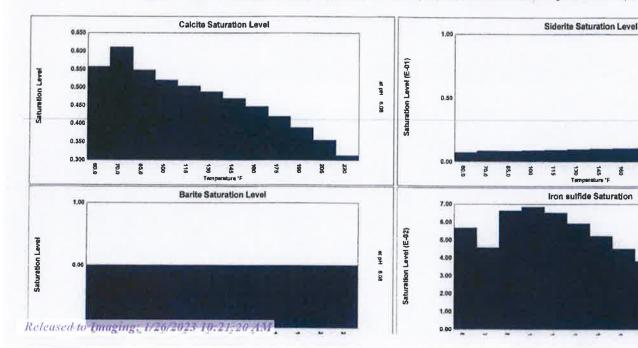
6

0.00 Zinc(as Zn)

SCALE AND CORROSION POTENTIAL

Temp.	Press.	C	alcite	An	hydrite	G	/psum	Е	larite	Ce	lestite	Sic	lerite	Mack	awenite	CO2	pCO ₂
(°F)	(psig)	C	aCO ₃	C	aSO ₄	CaSC	04*2H2O	В	aSO ₄	S	rSO ₄	Fe	CO3		es	(mpy)	(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		760
			Barrels		Barreis		Barrels		Barrels		Barrels	}	Barrels		Barrels		TOPE .

Saturation Levels (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{SD*} 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.





SURFACE WATER CHEMISTRY INPUT

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

Report Date:

06-06-2021 Sample

Sampled: 05-31-2021 at 1553

Sample ID:

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

CATIONS		ANIONS	
Calcium (as Ca)	4646	Chloride (as CI)	111832
Magneslum (as Mg)	964.00	Sulfate (as SO ₄)	1796
Barium (as Ba)	0.00	Dissolved CO ₂ (as CO ₂)	180.00
Strontium (as Sr)	87.00	Bicarbonate (as HCO ₃)	329.00
Sodium (as Na)	66750	H ₂ S (as H ₂ S)	136.00
Potassium (as K)	863.00	Boron (as B)	13.00
Lithium (as Li)	23.00		
Iron (as Fe)	0.100		
Manganese (as Mn)	0.00		
Zinc (as Zn)	0.00		

PARAMETERS

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

CORROSION RATE PREDICTION

CO₂ - H₂S Rate(mpy)

0.452

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

Released to Imaging: 1/26/2023 10:21:20 AM



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		MOMENTARY EXCESS (L	bs/1000 Ba	rrels)	
Calcite (CaCO ₃)	0.561	Calcite (CaCO ₃)		-0.00958	
Aragonite (CaCO ₃)	0.519	Aragonite (CaCO ₃)		-0.0114	
Witherite (BaCO ₃)	0.00	Witherite (BaCO ₃)		-27.60	
Strontianite (SrCO ₃)	0.0118	Strontianite (SrCO ₃)		-1.47	
Calcium oxalate (CaC2O4)	0.00	Calcium oxalate (CaC ₂ O ₄)		-0.0111	
Magnesite (MgCO ₃)	0.132	Magnesite (MgCO ₃)		-0.0681	
Anhydrite (CaSO ₄)	0.644	Anhydrite (CaSO ₄)		-153.56	
Gypsum (CaSO ₄ *2H ₂ O)	0.847	Gypsum (CaSO ₄ *2H ₂ O)		-58.02	
Barite (BaSO ₄)	0.00	Barite (BaSO ₄)		-0.124	
Celestite (SrSO ₄)	0.318	Celestite (SrSO ₄)		-97.77	
Fluorite (CaF ₂)	0.00	Fluorite (CaF ₂)		-3.47	
Calcium phosphate	0.00	Calcium phosphate		>-0.001	
Hydroxyapatite	0.00	Hydroxyapatite		-304.59	
Silica (SiO ₂)	0.00	Silica (SiO ₂)		-31.47	
Brucite (Mg(OH) ₂)	< 0.001	Brucite (Mg(OH) ₂)		< 0.001	
Magnesium silicate	0.00	Magnesium silicate		-96.47	
Iron hydroxide (Fe(OH) ₃)	< 0.001	Iron hydroxide (Fe(OH) ₃)		< 0.001	
Strengite (FePO ₄ *2H ₂ O)	0.00	Strengite (FePO ₄ *2H ₂ O)		>-0.001	
Siderite (FeCO ₃)	0.00769	Siderite (FeCO ₃)		-0.321	
Halite (NaCl)	0.133	Halite (NaCl)		-102986	
Thenardite (Na2SO ₄)	< 0.001	Thenardite (Na2SO ₄)		-85717	
Iron sulfide (FeS)	0.0429	Iron sulfide (FeS)		-0.181	
SIMPLE INDICES		BOUND IONS	TOTAL	FREE	
Langelier	0.246	Calcium	4646	4389	
Ryznar	5.51	Barium	0.00	0.00	
Puckorius	3.56	Carbonate	4.12	0.0211	
Larson-Skold Index	660.02	Phosphate	0.00	0.00	
Stiff Davis Index	-0.0648	Sulfate	1796	612.62	
Oddo-Tomson	-0.901				

OPERATING CONDITIONS

Temperature (OF) Time(mins)

77.00 3.00

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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM

Sp.Gr.(g/mL)

Resistivity

Conductivity

Sample pH

,2,0,T

TTZ

25.52

223486

898968

7,00

Received by OCD: 2/14/2024 10:44:51 AM

/20/2 dangeret			6.600
ZASTSMARA9	00.0	(uM se)asanagnaM	6-20-9
	00.0	Iron(as Fe)	
	00.22	(i_l ze)rmuirthi_l	
Boron(as B)	00.02	Potassium(as K)	
(SZH SE) SZH	88835	(eN se)wnipos	
Bicarbonate(as HCO ₃)	00'65	(12 se)muthout2	
Dissolved CO ₂ (as CO ₂)	00.0	(68 26)muhe8	
Sulfate(as SO4)	00'955	(gM zs)mulzangeM	
Chloride(as CI)	3562	Caldum(as Ca)	
PHOINA		CATIONS	
		WATER CHEMISTRY	
	Chloride(as Cl) Sulfate(as SO ₄) Dissolved CO ₂ (as CO ₂) Bicarbonate(as HCO ₃) H ₂ S (as H ₂ S) Boron(as B)	256.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 60.00 60.00 60.00 60.00 60.00 60.00	Caldum(as Ca) Soldum(as Pa) So

(ns 26)Dnis

-grudyerð-neeug
Kaiser B # L WH
Redwood
Supreme Technologies

SYSTEM IDENTIFICATION

San Andres

Sample ID#: 06-03-99
Sample Date: 06-31-2021 at 1553
Report Date: 06-06-2021

SCALE AND CORROSION POTENTIAL

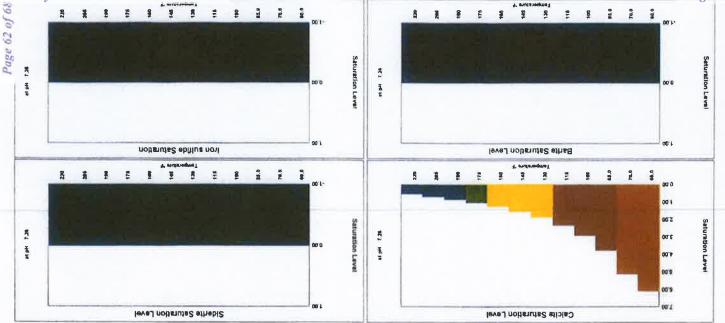
Software

Гтепеh Стеек

Released to Imaging: 1/26/2023 10:21:20 AM

		Tooo The bea	TA2x	TOOO Too	TA2x	TOOO Too	TAZX	1000 Tpe bea	TAZX	1000 Tpe be.	TA2x	1000 Tpe ber	TAZX	1000 1000	TAZX		
6.383	P1P.0	P8F.0-	00.0	061.0-	00.0	80.ET-	755.0	896'0-	00.0	242.20	1.78	416.73	Z1'S	£1700.0-	145.0	235,30	220.00
TIE.O	Z0E'0	ESE.O-	00.0	16T'0-	00.0	09.79-	955.0	LSL'0-	00.0	81.755	917	58.185	00.4	081-00.0-	989.0	211.80	202,00
115.0	655.0	M2.0-	00.0	-0.202	00.0	51.19-	885.0	985.0-	00.0	89.622	07.1	346.75	3.11	8+S00.0-	248.0	188,30	00.061
0.275	119.0	261.0-	0.00	112.0-	00.0	27.13-	0.380	1510-	00.0	71.055	₽9°T	₹0.30€	74.5	100.0 >	1.03	08. 164 .80	175.00
0.239	684.0	-0.143	00.0	-0.222	00.0	£₱.62-	068.0	PPE.O-	00.0	28.70 S	451	M.035	10.5	01-1-00-0	1.26	141.30	00.091
0.203	1050	-0.103	00.0	-0.234	00.0	55.72-	665.0	-0.261	00.0	96'161	641	212.03	89.1	£9600'0	1.54	117.80	142.00
191.0	621'0	PPC0.0-	00.0	842.0-	00.0	60'95-	904.0	961'0-	00.0	TETT	0 ₽ ′7	0T"19T	1.45	8910.0	1.89	94.30	130.00
IEI.O	1#90.0	2620.0-	00.0	192.0-	00.0	00.22-	214.0	911.0-	00.0	142,21	1.31	171.66	1.29	1750.0	2,33	08.07	112,00
15600	191.0	-0.0391	00.0	C82.0-	00.0	04.42	914.0	401.0 -	00.0	127.15	1,25	57.68	61'1	6.0423	26.5	47.30	100.00
0650.0	0.105	£0£0.0-	00.0	662.0-	00.0	1675 -	524.0	1940'0-	00.0	56'191	FE'I	96.25	SUT	£990'0	TT.E	23.80	00.28
0.0230	TPP0.0	ESE0.0-	00.0	-0.315	00.0	46.29	6443	\$150.0 -	00.0	218.84	Z#1	60.148	ZI'I	0.11.0	5.12	05.0	00.07
0.0225	82M0.0	P810.0-	00.0	-0.326	00.0	45.14	794.0	2850.0-	00.0	527.16	45'T	£9'E01	I.21	0.146	80.3	00.0	00'09
(mde)	(Aduu)	Sa.	4	500	94	POS	ıs	POS	68	4"ZH2O	(0250)	POSI	22	CO3	cs Cs	(fisd)	(HO)
PCO2	COS	STILLSWE	Mack	erite	PIS	estite	la D	STITE	28	wnsc	CN	adriby	InA	9Jichte	ာ	Press.	.qmsT

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





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		ANIONS	
Calcium (as Ca)	3262	Chloride (as CI)	139429
Magnesium (as Mg)	556.00	Sulfate (as SO ₄)	3973
Barlum (as Ba)	0.00	Dissolved CO ₂ (as CO ₂)	250.00
Strontium (as Sr)	59.00	Bicarbonate (as HCO ₃)	390.00
Sodium (as Na)	88835	H ₂ S (as H ₂ S)	17.00
Potassium (as K)	50.00	Boron (as B)	8.90
Lithium (as Li)	22.00		
Iron (as Fe)	0.00		
Manganese (as Mn)	0.00		
Zinc (as Zn)	0.00		

PARAMETERS

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

CORROSION RATE PREDICTION

CO2 - H2S Rate(mpy)

0.0528

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

Released to Imaging: 1/26/2023 10:21:20 AM



SURFACE WATER DEPOSITION POTENTIAL INDICATORS

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

SATURATION LEVEL		MOMENTARY EXCESS (L	bs/1000 Ba	rrels)	
Calcite (CaCO ₃)	3.94	Calcite (CaCO ₃)		0.0745	
Aragonite (CaCO ₃)	3.65	Aragonite (CaCO ₃)		0.0724	
Witherite (BaCO ₃)	0.00	WitherIte (BaCO ₃)		-28.05	
Strontianite (SrCO ₃)	0.0629	Strontianite (SrCO ₃)		-2.06	
Calcium oxalate (CaC2O4)	0.00	Calcium oxalate (CaC ₂ O ₄)		-0.0129	
Magnesite (MgCO ₃)	0.793	Magnesite (MgCO ₃)		-0.0219	
Anhydrite (CaSO ₄)	1.16	Anhydrite (CaSO ₄)		78.07	
Gypsum (CaSO ₄ *2H ₂ O)	1.41	Gypsum (CaSO ₄ *2H ₂ O)		194.92	
Barite (BaSO ₄)	0.00	Barite (BaSO ₄)		-0.0621	
Celestite (SrSO ₄)	0.433	Celestite (SrSO ₄)		-51.26	
Fluorite (CaF ₂)	0.00	Fluorite (CaF ₂)		-3,67	
Calcium phosphate	0.00	Calcium phosphate		>-0.001	
Hydroxyapatite	0.00	Hydroxyapatite		-267.07	
Silica (SiO ₂)	0.00	Silica (SiO ₂)		-28.17	
Brucite (Mg(OH) ₂)	< 0.001	Brucite (Mg(OH) ₂)		0.00303	
Magnesium silicate	0.00	Magnesium silicate		-89.14	
Iron hydroxide (Fe(OH) ₃)	0.00	Iron hydroxide (Fe(OH)3)		-0.214	
Strengite (FePO ₄ *2H ₂ O)	0.00	Strengite (FePO ₄ *2H ₂ O)		>-0.001	
Siderite (FeCO ₃)	0.00	Siderite (FeCO ₃)		-0.314	
Halite (NaCl)	0.259	Halite (NaCl)		-72069	
Thenardite (Na2SO ₄)	< 0.001	Thenardite (Na2SO ₄)		-86536	
Iron sulfide (FeS)	0.00	Iron sulfide (FeS)		-0.0416	
SIMPLE INDICES		BOUND IONS	TOTAL	FREE	
Langelier	1.39	Calcium	3262	2858	
Ryznar	4.21	Barium	0.00	0.00	
Puckorius	3.03	Carbonate	88.17	0.172	
Larson-Skold Index	570.61	Phosphate	0.00	0.00	
Stiff Davis Index	1.25	Sulfate	3973	1385	
Oddo-Tomson	0.281				

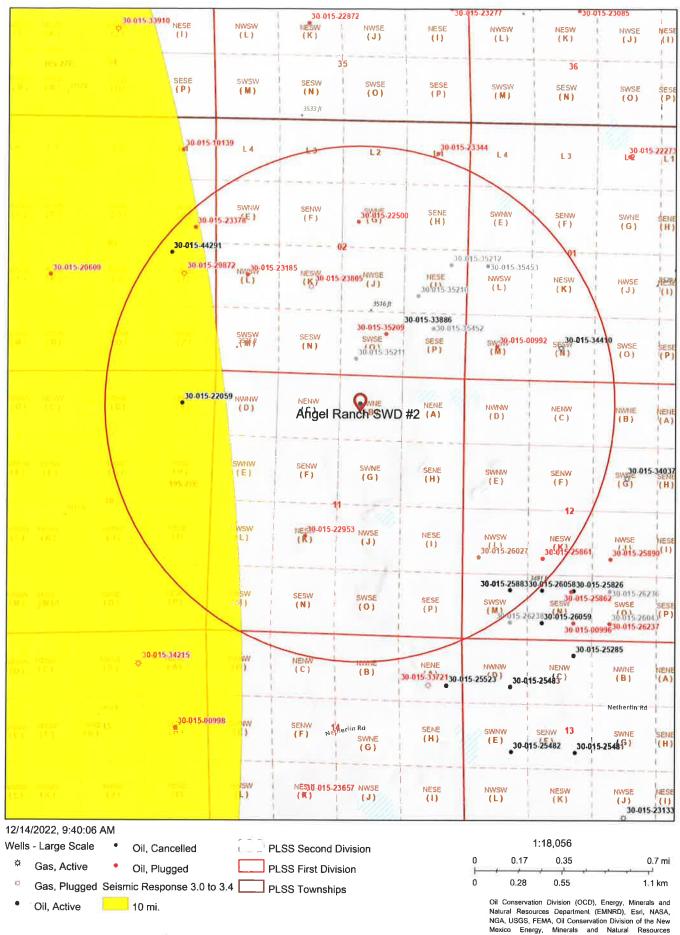
OPERATING CONDITIONS

Temperature (OF) 77.00 Time(mins) 3.00

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

Released to Imaging: 1/26/2023 10:21:20 AM

Seismicity Map





C-108 APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name: Angel Ranch SWD NO. 2

Applicant: Redwood Operating LLC

Action ID: 172098

Admin. App. No: pAZS2300437736_SWD-2520

C-108 Item	Description of Required Content	Yes	No
I. PURPOSE	Selection of proper application type.	V	
II. OPERATOR	Name; address; contact information.	V	
II. OPERATOR Name; address; contact information. 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 de 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 W Data Sheet). IV. EXISTING PROJECT For an expansion of existing well, Division order number authorizing existing well (if applicable). AOR map identifying all wells and leases within 2 mile radius of proposed we and depicting a 1/2 mile radius circle around any another projected injection wand a 1 mile radius circle around any other projected injection well in the Devonian formation. 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. 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 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 formatif 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 or sample, existing literature, studies, or nearby well. Proposed injection interval, including appropriate lithologic detail, geologic	Well name and number; STR location; footage location within section.	V	
	~		
	Description of tubing to be used including size, lining material, and setting depth.	V	
		V	
	Well diagram: Existing (if applicable).	V	
	Well diagram: Proposed (either Applicant's template or Division's Injection Well Data Sheet).		
		'	
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.	V	
vi. AOR WELLS 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.	V		
	Proposed average and maximum daily rate and volume of fluids to be injected.	١	
	Statement that the system is open or closed.	V	
W	Proposed average and maximum injection pressure.	V	
		V	
	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	V	
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.	V	
	USDW of all aquifers <u>underlying</u> the proposed injection interval, including the geologic name and depth to bottom.	~	

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM



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

Well Name: Angel Ranch SWD NO. 2

Applicant: Redwood Operating LLC

Action ID: 172098

Admin. App. No: pAZS2300437736_SWD-2520

C-108 Item	Description of Required Content	Yes	No
IX. PROPOSED STIMULATION	Description of stimulation process or statement that none will be conducted.	V	
X. LOGS/WELL TESTS	Appropriate logging and test data on the proposed well or identification of well logs already filed with OCD.	V	
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).	V	
XII. AFFIRMATION STATEMENT	Statement of qualified person endorsing the application, including name, title, and qualifications.	V	
	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.	V	
XIII. PROOF OF NOTICE	Notice of publication in local newspaper in county where proposed well is located with the following specific content:	V	
	 Name, address, phone number, and contact party for Applicant; 	V	
	 Intended purpose of proposed injection wel, including exact location of a single well, or the section, township, and range location of multiple wells; 	~	
	 Formation name and depth, and expected maximum injection rates and pressures; and 	V	
	 Notation that interested parties shall file objections or requests for hearing with OCD no later than 15 days after the admin completeness determination. 	~	
XIV. CERTIFICATION	Signature by operator or designated agent, including date and contact information.	V	

Review Date* : 1/26/2022	Reviewer: Dylan Rose-Coss
✓ 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.

Received by OCD: 2/14/2024 10:44:51 AM Received by OCD: 1/4/2023 8:23:13 AM

Page 68 of 68 Page 68 of 68

CONDITIONS

Action 172098

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., Azlec, 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**

COMPITIONS

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

CONDITIONS

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

Released to Imaging: 1/26/2023 10:21:20 AM

Released to Imaging: 2/14/2024 4:32:41 PM