

AE Order Number Banner

Application Number: pMSG2314747695

SWD-2533

MACK ENERGY CORP [13837]

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

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

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) **TYPE OF APPLICATION:** Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

2) **NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☐ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☐ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☐ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application
 Content
 Complete

- 3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

 Print or Type Name

 Date

 Phone Number

 Signature

 e-mail Address

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 XX Disposal _____ Storage
Application qualifies for administrative approval? XX Yes _____ No
- II. OPERATOR: Mack Energy Corporation
ADDRESS: P.O. Box 960 Artesia, NM 88210
CONTACT PARTY: Deana Weaver PHONE: 575-748-1288
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes XX No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
NAME: Deana Weaver TITLE: Regulatory Tech II
SIGNATURE: Deana Weaver
E-MAIL ADDRESS: dweaver@mec.com DATE: 5/15/2023
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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

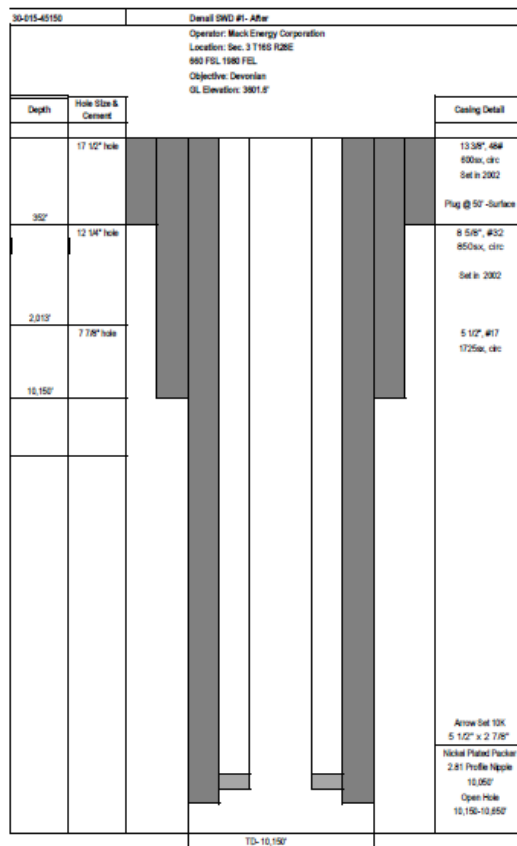
Side 1

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy Corporation

WELL NAME & NUMBER: Denali SWD #1

WELL LOCATION: 660 FSL & 1980 FEL O 3 16S 28E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

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

Cemented with: 600 sx. *or* ft³

Top of Cement: 0 Method Determined: Circ

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"

Cemented with: 850 sx. *or* ft³

Top of Cement: 0 Method Determined: Circ

Production Casing

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

Cemented with: 1725 sx. *or* ft³

Top of Cement: 0 Method Determined: Circ

Total Depth: 10,150'

Injection Interval

10,150' feet to 10,650' Open Hole

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: IPCType of Packer: Nickel Plated Packer 2.81 Profile NipplePacker Setting Depth: 10,050'

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

Additional Data1. Is this a new well drilled for injection? _____ Yes X NoIf no, for what purpose was the well originally drilled? Gas Well (Dry Well)2. Name of the Injection Formation: Devonian3. Name of Field or Pool (if applicable): Diamond Mound4. 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. Not Perforated- pluggedW/ 150sx cmt @ 7480-7580', 5270-5370', 2900-3000', 2053-2063', 275-375', 50-Surface5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Grayburg- Oil/Gas 1487-1850', Wolfcamp- Oil/Gas 6617-7271',Atoka- Oil/Gas 9023-9150', Morrow- Oil/Gas 9150-9431'

Denali SWD #1- 2023 Application (Devonian Openhole)**VII. DATA SHEET: PROPOSED OPERATIONS**

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Respectively, 10,000 BWPD and 15,000 BWPD
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
1,000psi average-2,030psi maximum
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
We will be re-injecting produced water
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water;
N/A

VIII. GEOLOGICAL DATA

1. Lithologic Detail; **Dolomite**
2. Geological Name; **SWD; Devonian**
3. Thickness; **500'**
4. Depth; **10,150-10,650'**

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

Additional Information

Waters Injected:

San Andres


XII. AFFIRMATIVE STATEMENT

RE: Denali SWD #1

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

Mack Energy Corporation

Date: 5/7/2023



Charles Sadler, Geologist

30-015-45150		Denali SWD #1- Before					
		Operator: Mack Energy Corporation Location: Sec. 3 T16S R28E 660 FSL 1980 FEL Objective: Devonian GL Elevation: 3601.6'					
Depth	Hole Size & Cement					Casing Detail	
352	17 1/2" hole					13 3/8", 48# 600sx, circ Set in 2002 Plug @ 50' -Surface	
2013	12 1/4" hole					8 5/8", #32 850sx, circ Set in 2002 Plug @ 275-375' w/ 30sx cmt	
9575'	7 7/8" hole						
						Plug @ 2053-2063' w/ 30sx cmt	
						Plug @ 2900-3000' w/ 30sx cmt	
						Plug @ 5270-5370' w/ 30sx cmt	
						Plug @ 7480-7580' w/ 30sx cmt	
				TD- 9575'			

30-015-45150		Denali SWD #1- After									
Operator: Mack Energy Corporation Location: Sec. 3 T16S R28E 660 FSL 1980 FEL Objective: Devonian GL Elevation: 3601.6'											
Depth	Hole Size & Cement									Casing Detail	
352'	17 1/2" hole									13 3/8", 46# 600sx, circ Set in 2002 Plug @ 50' -Surface	
2,013'	12 1/4" hole									8 5/8", #32 850sx, circ Set in 2002	
10,150'	7 7/8" hole									5 1/2", #17 1725sx, circ	
										Arrow Set 10K 5 1/2" x 2 7/8"	
										Nickel Plated Packer 2.81 Profile Nipple 10,050' Open Hole 10,150-10,650'	
TD- 10,150'											

Denali SWD #1
Unit 0 Sec. 3 T16S R28E
660 FSL 1980 FEL, Eddy County
API # 30-015-45150
Formation Tops

Yates	370'
7 Rivers	510'
Queen	1090'
Grayburg	1490'
San Andres	1850'
Glorieta	3380'
Tubb	4580'
Abo	5370'
Wolfcamp	6630'
Cisco	7640'
Atoka	9030'
Miss	9430'
Woodford	10,093'
Devonian	10,150'
Montoya	10,650'

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45150	² Pool Code 97803	³ Pool Name SWD; Devonian
⁴ Property Code 322227	⁵ Property Name DENALI SWD	⁶ Well Number 1
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3601.6

¹⁰ Surface Location

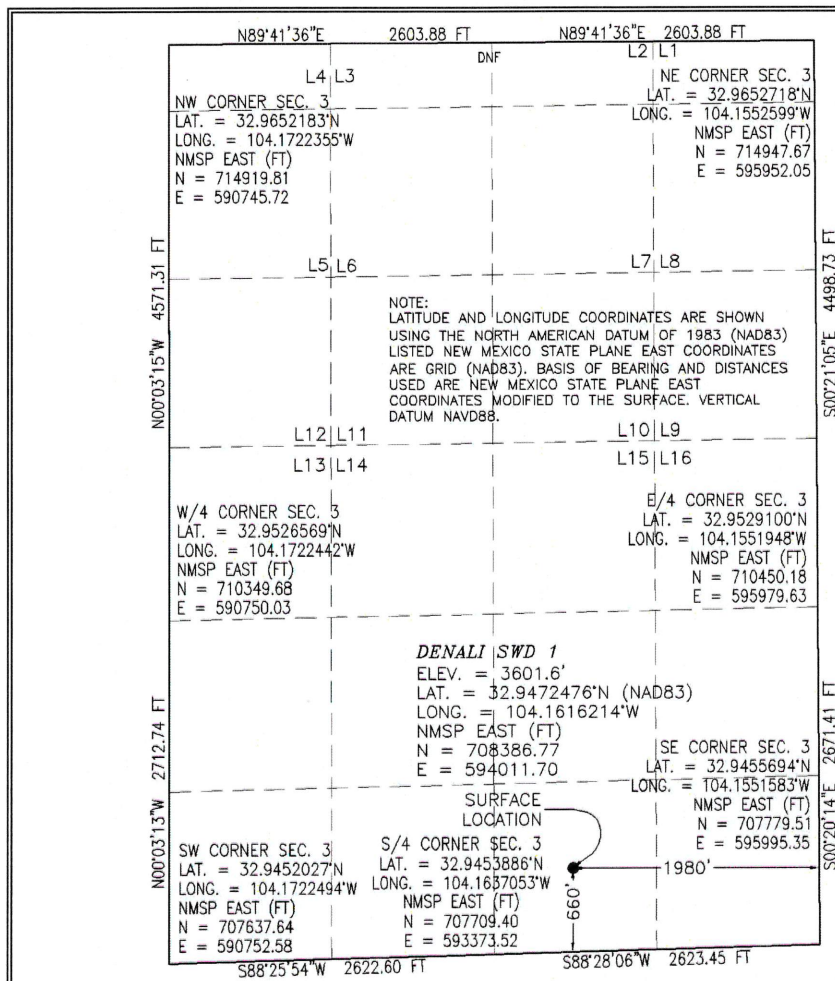
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	3	16 S	28 E		660	SOUTH	1980	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/ West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Deana Weaver 11/3/2022

Signature

Date

Deana Weaver

Printed Name

dweaver@mec.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

MARCH 9, 2018

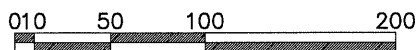
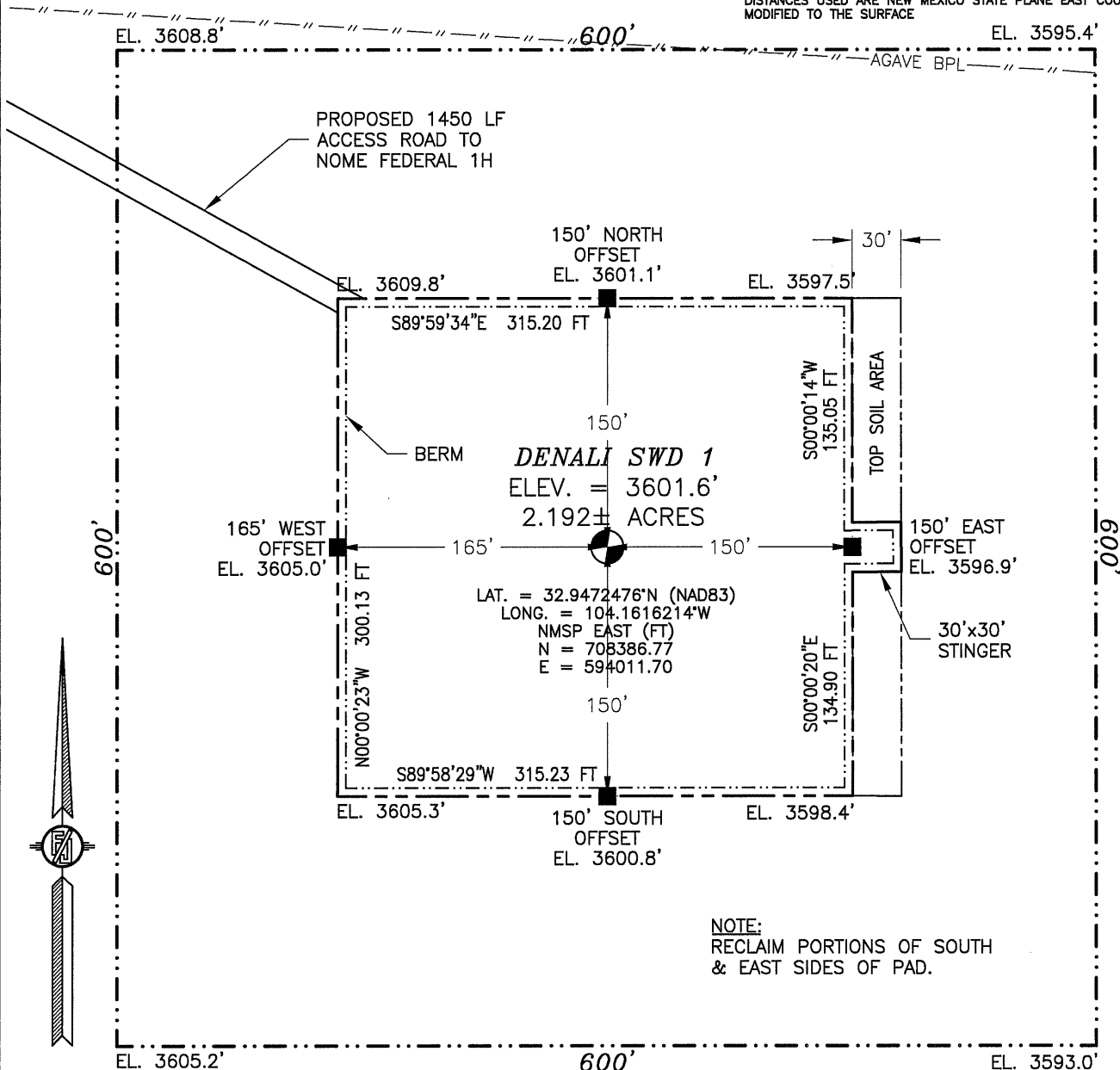
Date of Survey

Signature and Seal of Professional Surveyor
Certificate Number FILIMON F. JARAMILLO, PLS 12797

SURVEY NO. 5985A

SECTION 3, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF US HIGHWAY 82 & CR 202 (SOUTHERN UNION) GO NORTH ON CR 202 (AROUND SUBSTATION) FOR APPROX. 2.9, MILES, VEER NORTHEAST & CONTINUE ON CR 202 FOR APPROX. 1.25 MILES TO THE END OF CR 202, GO NORTHWEST ON 15' CALICHE LEASE ROAD APPROX. 0.1 OF A MILE TO A FORK, TAKE ROAD ON RIGHT & GO NORTH APPROX. 1.0 MILE, TAKE CALICHE LEASE ROAD EAST (RIGHT) & GO APPROX. 1.1 MILES TO A "Y", TAKE LEFT FORK FOR APPROX. 0.6 OF A MILE, GO NORTH (LEFT) & GO APPROX. 2.2 MILES, THEN CONTINUE NORTH ON 30' CALICHE LEASE ROAD FOR APPROX. 1.3 MILE, TURN RIGHT (NORTHEAST) AND CONTINUE ON CALICHE LEASE ROAD FOR APPROX. 2 MILES, TURN LEFT (NORTHWEST) ON 12' CALICHE LEASE ROAD FOR APPROX. 1.6 MILES TO SELLERS & FULTON CROW FLATS 3 FED 1, FROM SOUTHWEST CORNER FOLLOW ROAD SURVEY NORTH APPROX. 285' THEN NORTHEAST APPROX. 1034' (TOTAL 1319') TO SOUTHWEST PAD CORNER OF NOME FEDERAL 1H, THEN FROM SOUTHEAST CORNER GO SOUTHEAST 1450' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

MACK ENERGY CORPORATION
DENALI SWD 1
LOCATED 660 FT. FROM THE SOUTH LINE
AND 1980 FT. FROM THE EAST LINE OF
SECTION 3, TOWNSHIP 16 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

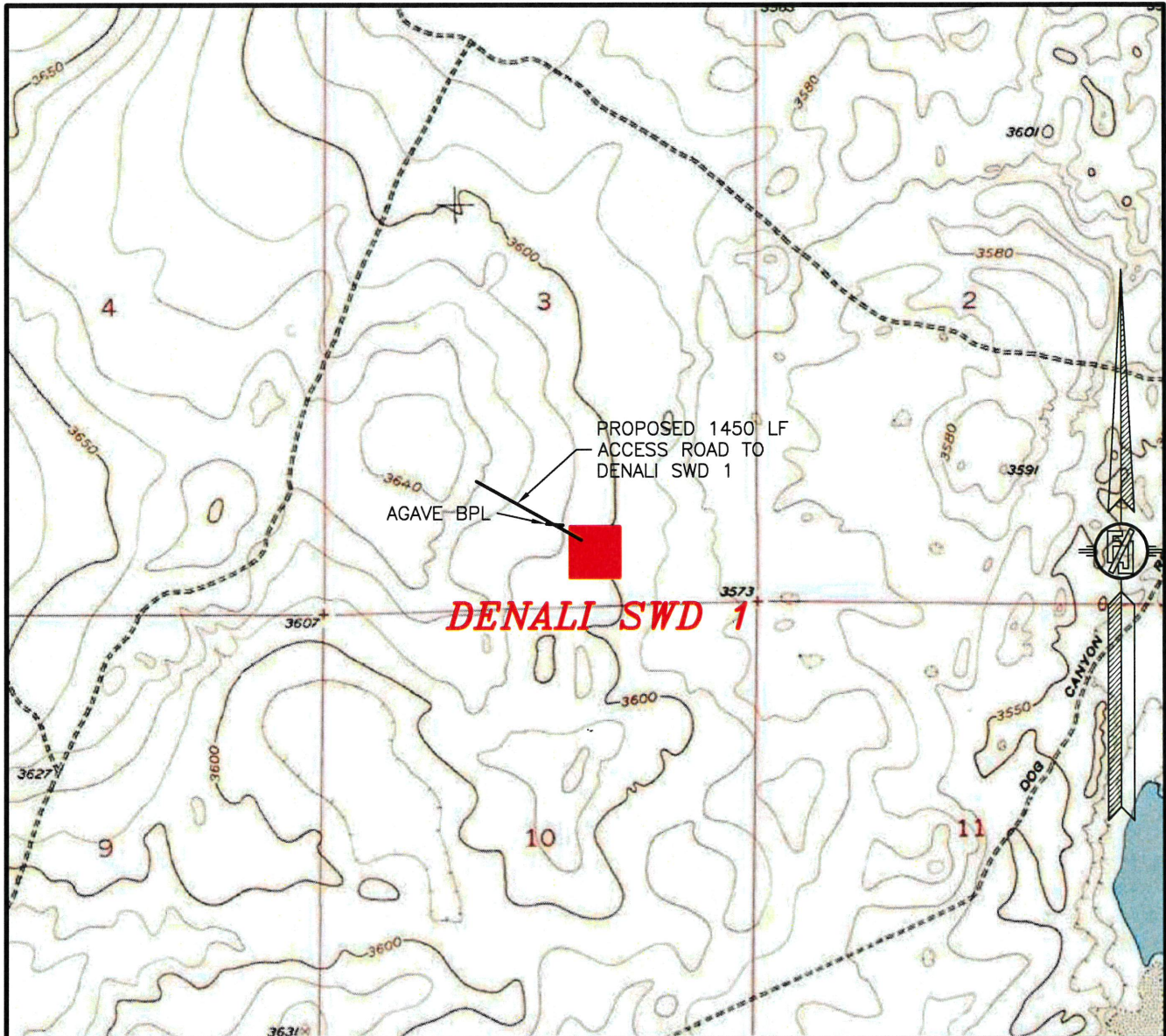
MARCH 9, 2018

SURVEY NO. 5985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 3, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 DIAMOND MOUND

NOT TO SCALE

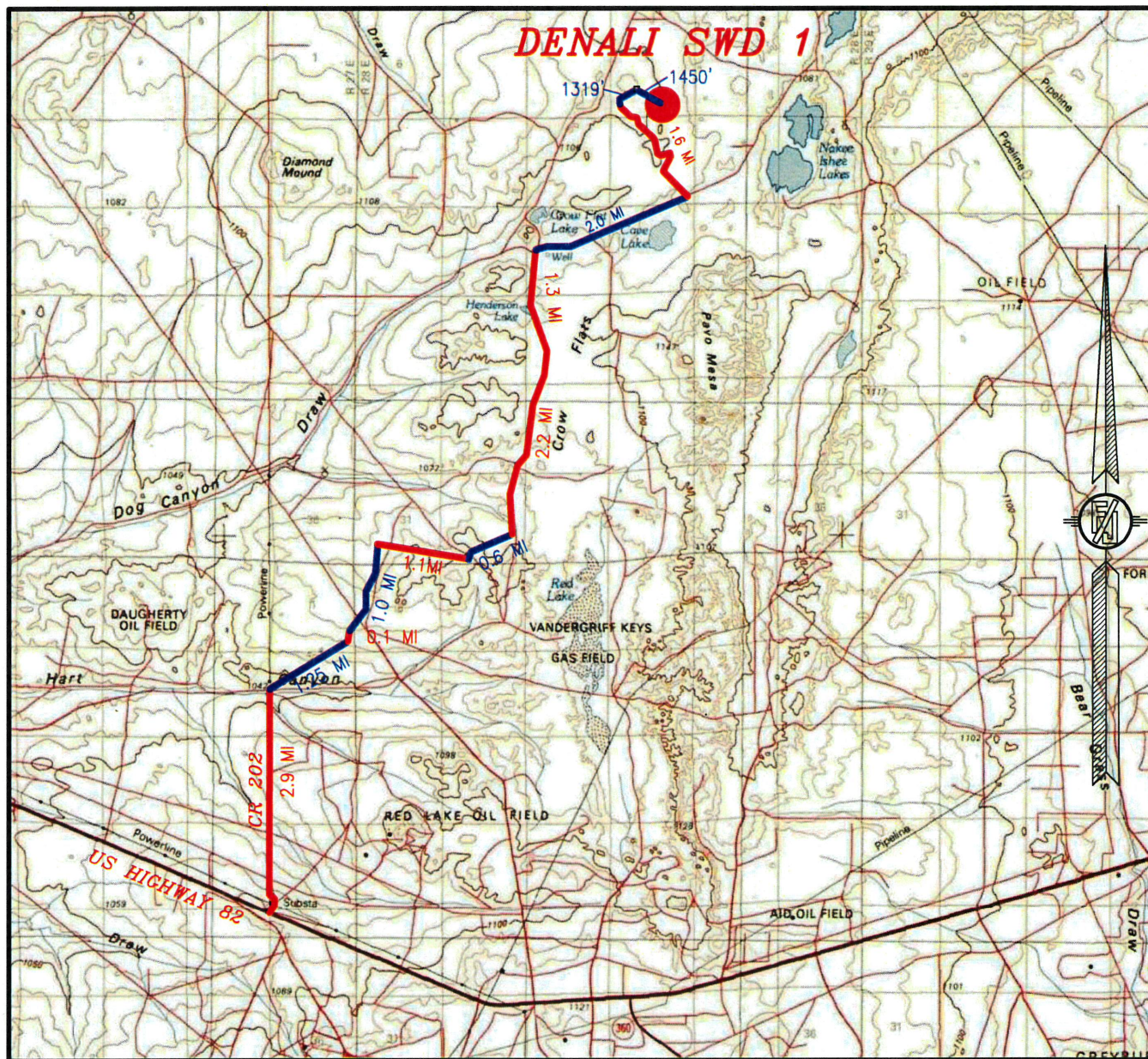
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 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 9, 2018

SURVEY NO. 5985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 3, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF US HIGHWAY 82 & CR 202 (SOUTHERN UNION) GO NORTH ON CR 202 (AROUND SUBSTATION) FOR APPROX. 2.9, MILES, VEER NORTHEAST & CONTINUE ON CR 202 FOR APPROX. 1.25 MILES TO THE END OF CR 202, GO NORTHWEST ON 15' CALICHE LEASE ROAD APPROX. 0.1 OF A MILE TO A FORK, TAKE ROAD ON RIGHT & GO NORTH APPROX. 1.0 MILE, TAKE CALICHE LEASE ROAD EAST (RIGHT) & GO APPROX. 1.1 MILES TO A "Y", TAKE LEFT FORK FOR APPROX. 0.6 OF A MILE, GO NORTH (LEFT) & GO APPROX. 2.2 MILES, THEN CONTINUE NORTH ON 30' CALICHE LEASE ROAD FOR APPROX. 1.3 MILE, TURN RIGHT (NORTHEAST) AND CONTINUE ON CALICHE LEASE ROAD FOR APPROX. 2 MILES, TURN LEFT (NORTHWEST) ON 12' CALICHE LEASE ROAD FOR APPROX. 1.6 MILES TO SELLERS & FULTON CROW FLATS 3 FED 1, FROM SOUTHWEST CORNER FOLLOW ROAD SURVEY NORTH APPROX. 285' THEN NORTHEAST APPROX. 1034' (TOTAL 1319') TO SOUTHWEST PAD CORNER OF NOME FEDERAL 1H, THEN FROM SOUTHWEST CORNER GO SOUTHEAST 1450' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

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EDDY COUNTY, STATE OF NEW MEXICO

MARCH 9, 2018

SURVEY NO. 5985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 3, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 MARCH 2016

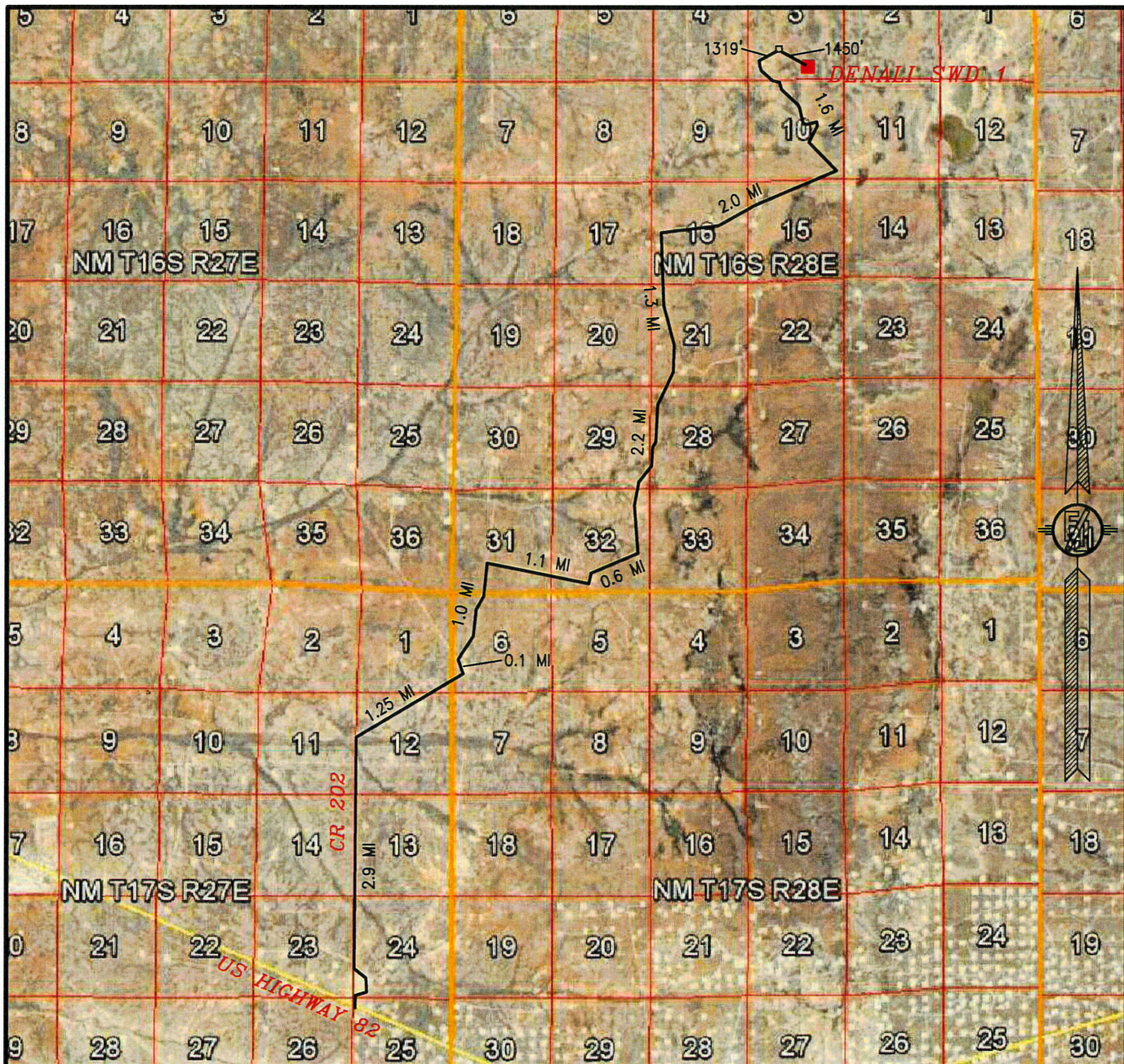
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 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 9, 2018

SURVEY NO. 5985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 3, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 NOVEMBER 2017

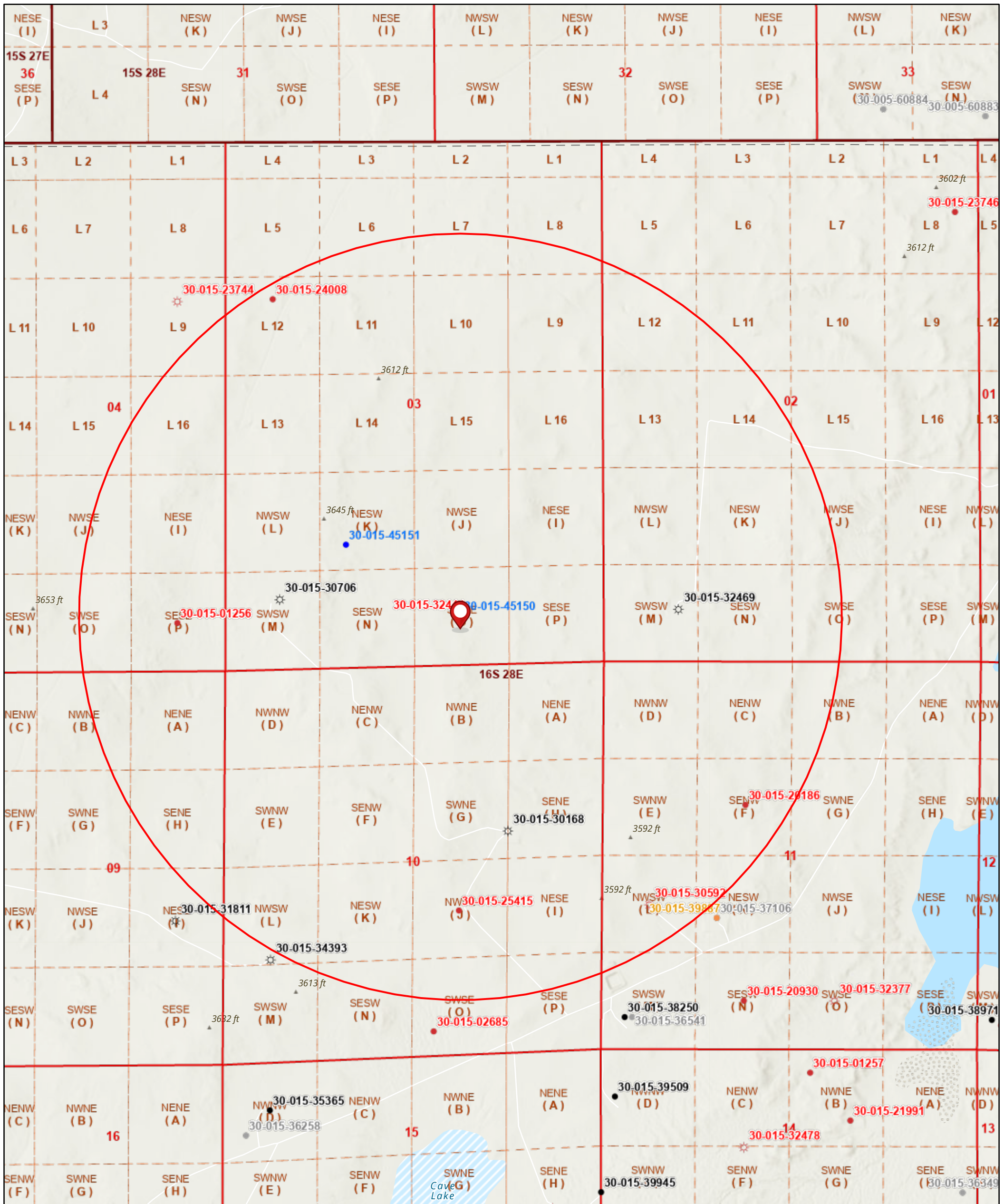
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 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MARCH 9, 2018

SURVEY NO. 5985A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

OCD Well Locations



5/8/2023, 9:16:40 AM

Wells - Large Scale

Gas, Active

Gas, Plugged

- Oil, Active

Oil, Cancelled

Oil. New

Oil. Plugged

Oil Temporarily Abandoned

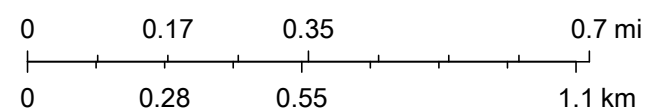
▲ Salt Water Injection. New

PLSS Second Division

☐ PLSS First Division

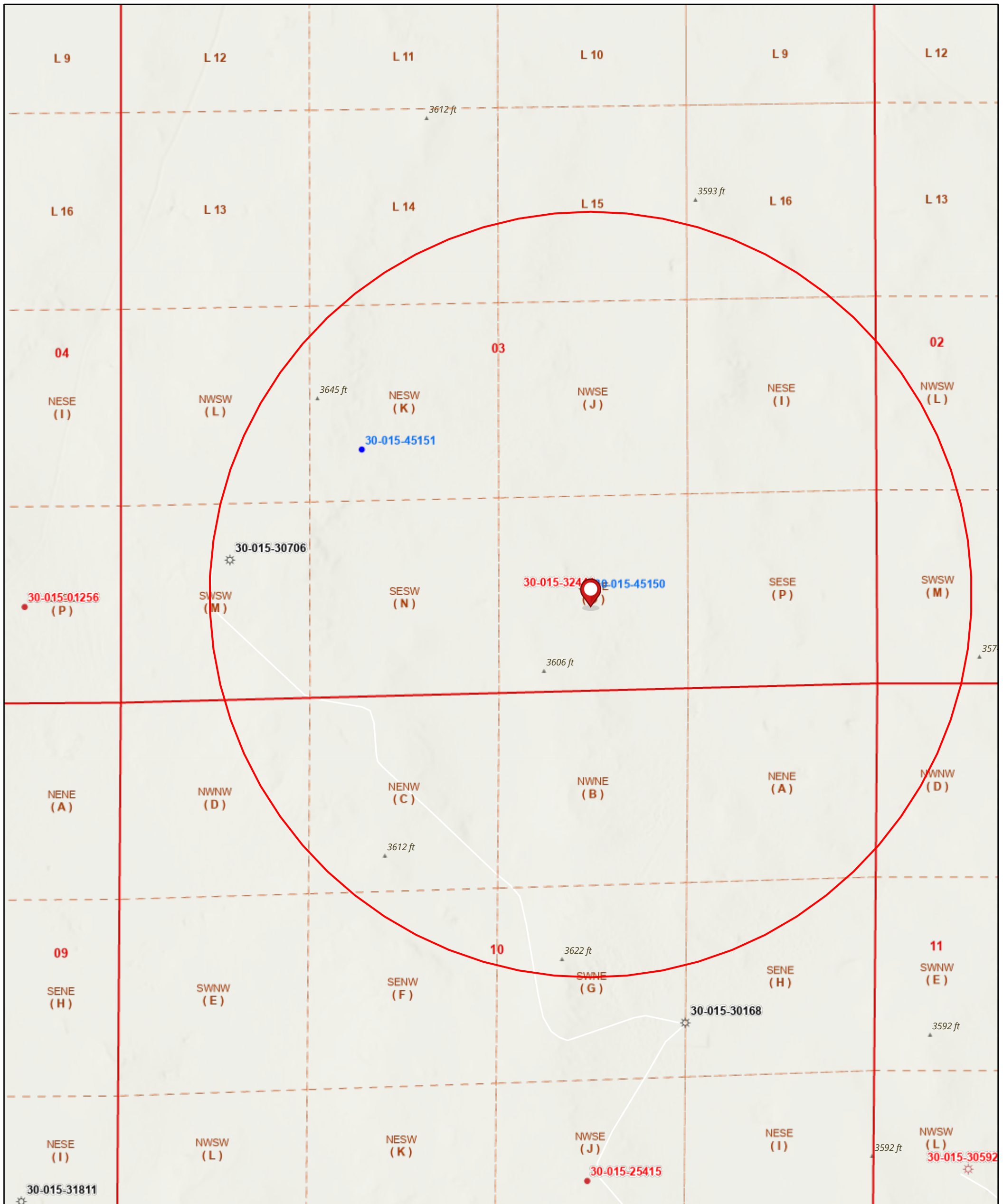
☐ PL SS Townships

1:18,056



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

OCD Well Locations



5/8/2023, 9:14:45 AM

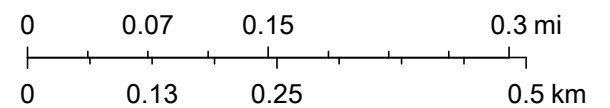
Wells - Large Scale

- Oil, Plugged
- Gas, Active
- Gas, Plugged
- Oil, New

PLSS Second Division

PLSS First Division

1:9,028



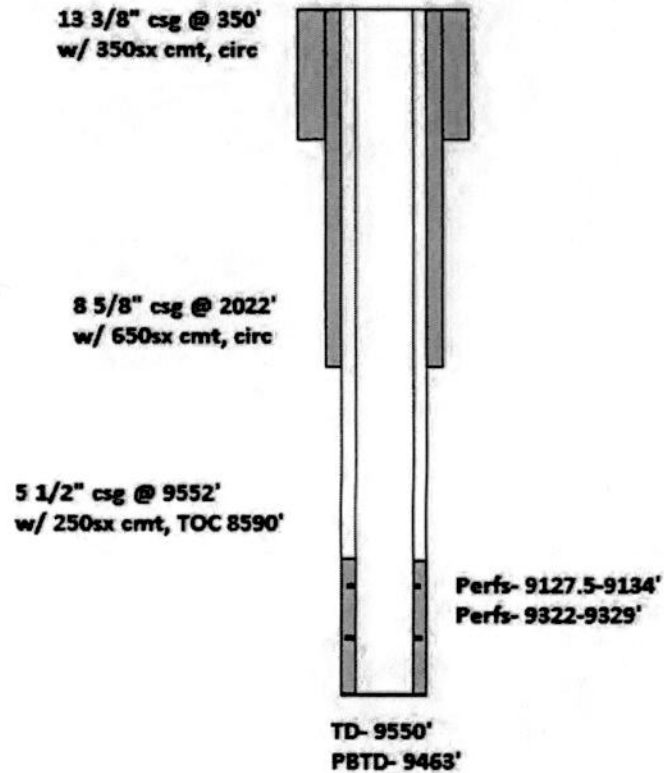
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Denali SWD #1
C-108
Well Tabulation Penetrating Injection Zone in Review Area
Mack Energy Corporation
Proposed Disposal Well

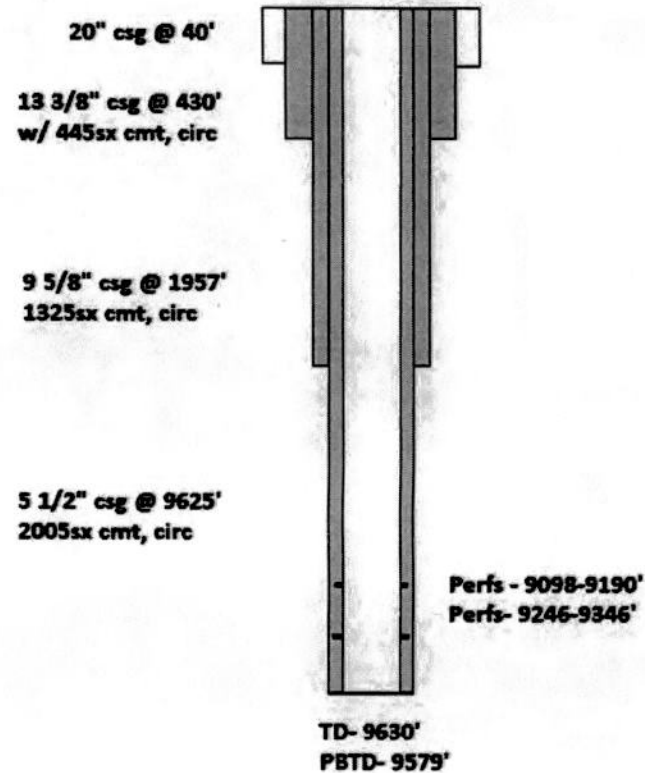
Operator	Well Name	API #	County	Footage	Sec	TWN	RNG	Type	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Hole Size	Casing Prog	Cement
Mack Energy Corporation	Denali SWD #1	30-015-45150	Eddy	660 FSL 1980 FEL	3	16S	28E	Dry Hole	P&A	10/3/2002	10/29/2002					17 1/2"	13 3/8" 48# @ 352' existing	600ss, Circ
																12 1/4"	8 5/8" 32# @ 2013' existing	850ss, Circ
Sellers & Fulton Oil LLC	Crow Flats 3 Federal #1	30-015-30706	Eddy	960 FSL 760 FWL	3	16S	28E	Gas	Producing	8/3/1999	10/9/1999	9550'	9463'	Diamond Mound; Morrow	9127.5-9134 9322.5	17 1/2"	13 3/8" 48# @ 350'	350ss, Circ
																11"	8 5/8" 24 & 32# @ 2022'	650ss, Circ
																7 7/8"	5 1/2" 17# @ 9552'	250ss, TOC 8590'
BAM Permian Operating, LLC	Purple Gosling BBD State #1	30-015-32469	Eddy	710 FSL 1040 FWL	2	16S	28E	Gas	Producing	10/29/2002	4/27/2003	9630'	9579'	Diamond Mound; Morrow	9098-9190 9246-9346	26"	20" @ 40'	
																17 1/2"	13 3/8" 48# @ 430'	445ss, Circ
																12 1/4"	9 5/8" 36# @ 1957'	1325ss, Circ
																8 3/4"	5 1/2" 15.5 & 17# @ 9625'	2005ss, Circ
Spur Energy Partners LLC	Crow Flats 10 Federal #1	30-015-30168	Eddy	2310 FNL 1310 FEL	10	16S	28E	Gas	Producing	5/9/1998	9/23/1998	9600'	9523'	Diamond Mound; Morrow	9383-9418'	17 1/2"	13 5/8" 68# @ 320'	650ss, Circ
																11"	8 5/8" 32# @ 1987'	500ss, Circ
																7 7/8"	5 1/2" 17# @ 9600'	300ss, TOC 7000'
McClellan Oil Corporation	Sara Federal #1	30-015-25415	Eddy	1980 FSL 1980 FEL	10	16S	28E	Gas	P&A	10/10/1985	P&A	1845'	1845'	Wildcat, San Andres	N/A	12"	10 3/4" 40# @ 350'	300ss, Circ
Pre-Ongard Well Operator	Pre-Ongard Well #1								11/15/1985		11/15/1985					10"	8 5/8" 24# @ 732'	200ss, Circ
																8"	1845'	

Gas Well
10/9/1999

Crow Flats 3 Federal #1
Sec. 3 T16S R28E
960 FSL 760 FWL
30-015-30706



Purple Gosling BBD State #1
Sec. 2 T16S R28E
710 FSL 1040 FWL
30-015-32469
Gas Well - 4/27/2003

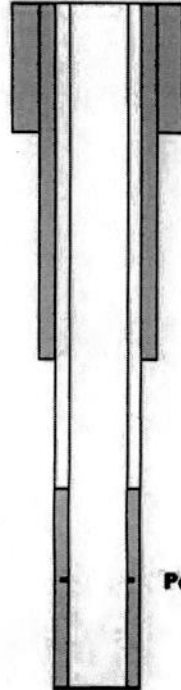


Crow Flats 10 Federal #1
Sec. 10 T16S R28E
2310 FNL 1310 FEL
30-015-30168
Gas Well - 9/23/1998

13 5/8" csg @ 320'
w/ 650sx cmt, circ

8 5/8" csg @ 1987'
w/ 500sx cmt, circ

5 1/2" csg @ 9600'
w/ 300sx cmt
TOC @ 7000'



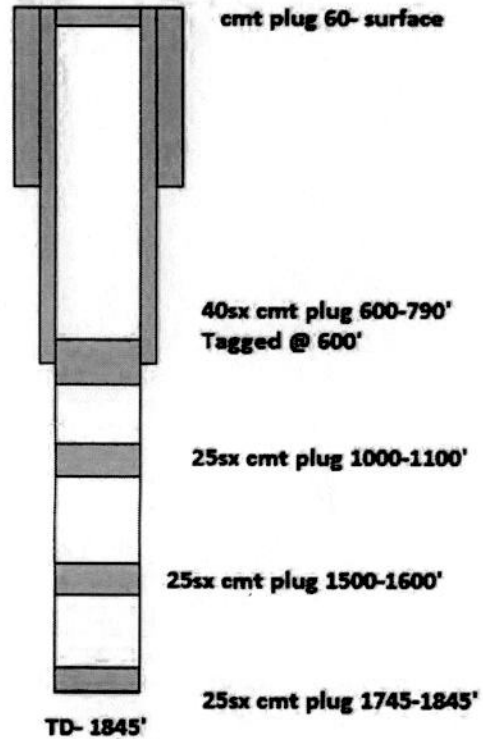
Perfs- 9383-9418'

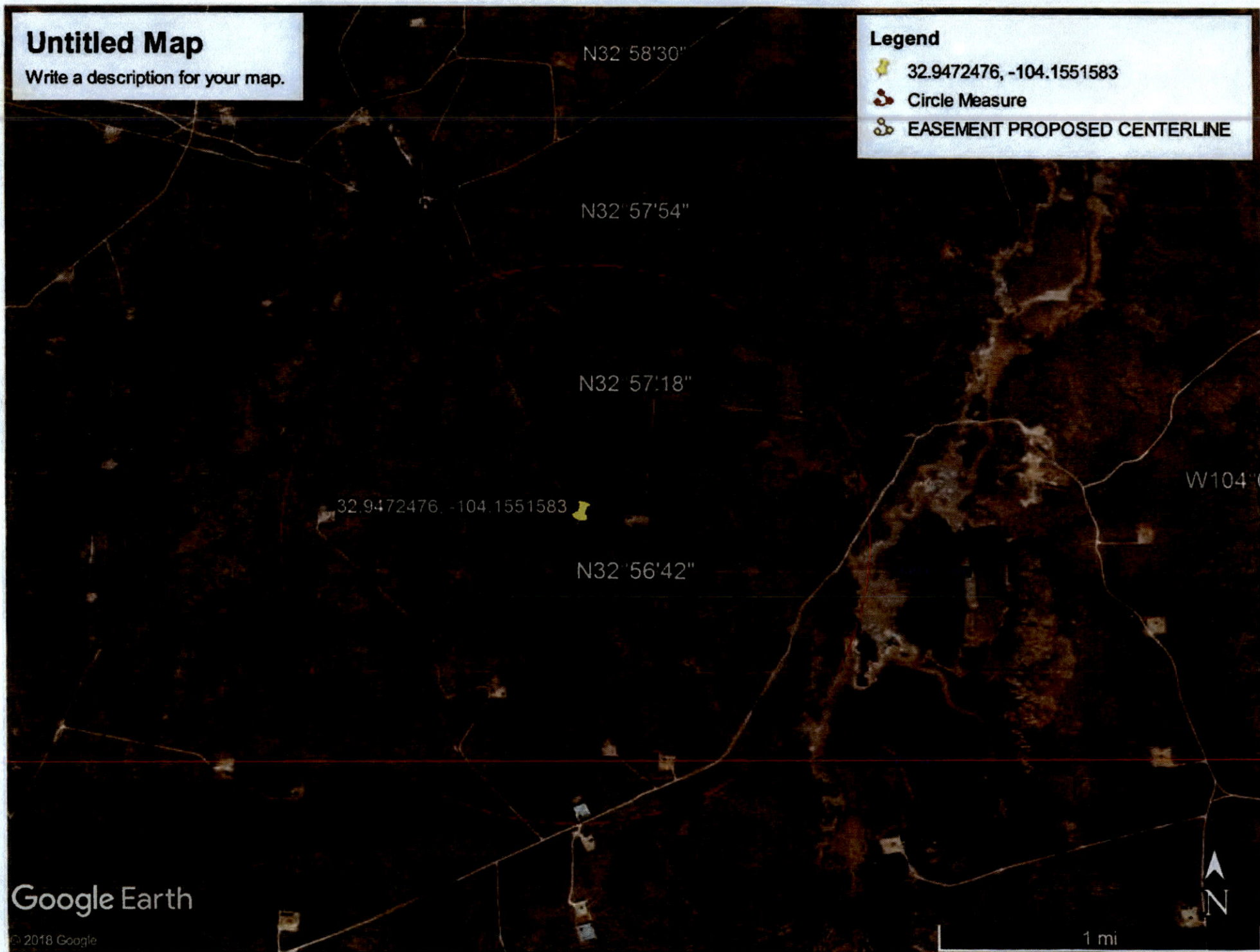
TD- 9600'
PBTD- 9523'

Sara Federal #1
Sec. 10 T16S R28E
1980 FSL 1980 FEL
30-015-25415
Dry Hole- 11/26/1985

10 3/4" csg @ 350'
w/ 300sx cmt, circ

8 5/8" csg @ 732'
w/ 200sx cmt, circ







New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Roswell Artesian

PLSS Search:

Q4: SE Section(s): 3 Township: 16S Range: 28E

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.

3/14/18 8:57 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Carlsbad

PLSS Search:

Q4: SE

Section(s): 3

Township: 16S

Range: 28E

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.

3/14/18 8:57 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Carlsbad

PLSS Search:

Q4: SE Section(s): 10 Township: 16S Range: 28E

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.

3/14/18 8:58 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Q4: SE Section(s): 2 Township: 16S Range: 28E

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.

3/14/18 8:59 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



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

Water Analysis Report

Customer:	Mack Energy Corporation	Sample #:	60177
Area:	Artesia	Analysis ID #:	58000
Lease:	Denali		
Location:	FW 1		0
Sample Point:	Water Tank		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	3/13/2018	Anions			Cations		
Analysis Date:	4/3/2018	Chloride:		5375.9	Sodium:		1961.0
Analyst:	Catalyst	Bicarbonate:		131.8	Magnesium:		1418.0
TDS (mg/l or g/m3):	14043	Carbonate:			Calcium:		800.9
Density (g/cm3):	1.009	Sulfate:		4300.0	Potassium:		55.3
		Borate*:		0.0	Strontium:		0.0
		Phosphate*			Barium:		0.0
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.			Iron:		0.1
Carbon Dioxide:	0				Manganese:		0.000
Comments:				pH at time of sampling:			
				pH at time of analysis:			
				pH used in Calculation:			
				Temperature @ lab conditions (F):			
					Conductivity (micro-ohms/cm):		17728
					Resistivity (ohm meter):		.5641

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.16	0.00	0.03	72.58	-0.03	0.00	0.00	0.00	0.00	0.00
100	-0.04	0.00	0.02	51.84	0.02	40.44	0.00	0.00	0.00	0.00
120	0.09	1.38	0.03	58.07	0.11	174.54	0.00	0.00	0.00	0.00
140	0.22	4.15	0.04	85.72	0.21	318.32	0.00	0.00	0.00	0.00
160	0.36	6.91	0.06	129.27	0.33	455.88	0.00	0.00	0.00	0.00
180	0.51	10.02	0.09	182.84	0.47	576.85	0.00	0.00	0.00	0.00
200	0.65	13.13	0.12	242.29	0.62	676.74	0.00	0.00	0.00	0.00
220	0.80	16.24	0.15	303.12	0.79	755.20	0.00	0.00	0.00	0.00



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

Water Analysis Report

Customer: Mack Energy Corporation Sample #: 54438
Area: Artesia Analysis ID #: 52580
Lease: Klondike
Location: 1H 0
Sample Point: Wellhead

		Anions		mg/l		meq/l		Cations		mg/l		meq/l	
Sampling Date:	11/10/2017	Chloride:		95974.1		2707.08		Sodium:		59980.0		2608.98	
Analysis Date:	11/27/2017	Bicarbonate:		351.4		5.76		Magnesium:		845.8		69.58	
Analyst:	Catalyst	Carbonate:						Calcium:		2357.0		117.61	
TDS (mg/l or g/m3):	164693.2	Sulfate:		4500.0		93.69		Potassium:		467.4		11.95	
Density (g/cm3):	1.109	Borate*:		178.5		1.13		Strontium:		39.0		0.89	
		Phosphate*:						Barium:		0.0		0.	
Hydrogen Sulfide:	20	*Calculated based on measured elemental boron and phosphorus.						Iron:		0.0		0.	
Carbon Dioxide:	148.8							Manganese:		0.000		0.	
Comments:		pH at time of sampling:				7.15							
		pH at time of analysis:											
		pH used in Calculation:				7.15							
		Temperature @ lab conditions (F):				75		Conductivity (micro-ohms/cm):				189002	
								Resistivity (ohm meter):				.0529	

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
*F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.78	22.38	-0.01	0.00	0.00	8.06	-0.09	0.00	0.00	0.00	
100	0.80	25.67	-0.08	0.00	0.00	0.00	-0.12	0.00	0.00	0.00	
120	0.81	29.55	-0.14	0.00	0.02	47.45	-0.13	0.00	0.00	0.00	
140	0.83	33.43	-0.19	0.00	0.06	154.60	-0.14	0.00	0.00	0.00	
160	0.85	37.90	-0.23	0.00	0.12	299.65	-0.14	0.00	0.00	0.00	
180	0.87	42.68	-0.26	0.00	0.20	467.08	-0.14	0.00	0.00	0.00	
200	0.91	47.45	-0.30	0.00	0.29	643.77	-0.13	0.00	0.00	0.00	
220	0.95	52.23	-0.32	0.00	0.39	819.56	-0.11	0.00	0.00	0.00	

Affidavit of Publication

No. 26536

State of New Mexico

County of Eddy:

Danny Scottbeing duly sworn says that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General
circulation, published in English at Artesia, said county
and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
for that purpose within the meaning of Chapter 167 of
the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication

May 11, 2023

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

11th day of May 2023

LATISHA ROMINE
Notary Public, State of New Mexico
Commission No. 1076338
My Commission Expires
05-12-2027

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:**Legal Notice**

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-1370, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Denali SWD #1 660 FSL 1980 FEL of Section 3, T16S, R28E, NMPM, Eddy County, New Mexico. The water will be injected into the Devonian at a disposal depth of 10,150-10,650'. Water will be injected at a maximum surface pressure of 2030psi and a maximum injection rate of 10,000-15,000 BWPD. Any interest party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, 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.,
May 11, 2023 Legal No. 26536.


























Legal Notice

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-1370, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Denali SWD #1 660 FSL 1980 FEL of Section 3, T16S, R28E, NMPM, Eddy County, New Mexico. The water will be injected into the Devonian at a disposal depth of 10,150-10,650'. Water will be injected at a maximum surface pressure of 2030psi and a maximum injection rate of 10,000-15,000 BWPD. Any interest party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, 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.

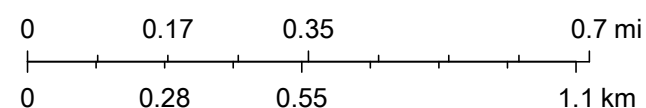
OCD Well Locations



11/3/2022, 9:05:16 AM

Areas	 Override 7	 Override 6	 Oil, New
 Override 1	Lines	 Override 7	 Oil, Plugged
 Override 2	 Override 1	Wells - Large Scale	 Oil, Temporarily Abandoned
 Override 3	 Override 2	 Gas, Active	 Salt Water Injection, New
 Override 4	 Override 3	 Gas, Plugged	 PLSS Second Division
 Override 5	 Override 4	 Oil, Active	 PLSS First Division
 Override 6	 Override 5	 Oil, Cancelled	 PLSS Townships

1:18,056



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

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 748-7374

March 23, 2022

Mr. Dean McClure
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RE: Mack Energy Corporation & Chase Affiliates

Dear Mr. McClure:

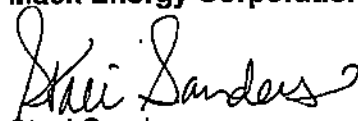
Mack Energy Corporation is a Chase Family owned entity. The following Chase individuals or companies are all affiliates of Mack Energy Corporation and usually own an interest in wells drilled and/or operated by Mack Energy Corporation.

- Mack C. Chase Trust
- Robert C. Chase or RDC Minerals LLC
- Richard L. Chase or Ventana Minerals LLC
- Gerene Dianne Chase Ferguson or DiaKan Minerals LLC
- Broken Arrow Royalties LLC
- Chase Oil Corporation
- Sendero Energy LLC
- Katz Resources LLC
- M Squared Energy LLC

All of these family members and companies all office in the same building so notifications can be hand delivered; therefore we request that the certified mail process be waived when these parties are involved.

If you have any questions or need additional information please do not hesitate to contact me. Your assistance is greatly appreciated.

Sincerely,
Mack Energy Corporation


Staci Sanders
Land Manager

/ss



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7019 1120 0000 0728 3915

Return Receipt Requested

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

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

The letter will serve as a notice that Mack Energy Corporation 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,

Mack Energy Corporation

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive style with a large, looped "D" and a trailing flourish.

Deana Weaver
Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8940

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 Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8957

Return Receipt Requested

Bam Permian Operating LLC
4416 Briarwood Ave.
Ste. 110 PMB 53
Midland, TX 79707

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8964

Return Receipt Requested

Sellers & Fulton Oil LLC
P.O. Box 1176
Artesia, NM 88211

To all Interest Owners:

Enclosed for your review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8452

Return Receipt Requested

Spur Energy Partners LLC
9655 Katy FWY STE 500
Houston, TX 77024-1338

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Deana Weaver
Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8971

Return Receipt Requested

Burlington Resources Oil & Gas Co LP
P.O. Box 51810
Midland, TX 79710-1810

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Mack Energy Corporation

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Deana Weaver
Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8988

Return Receipt Requested

Chi Energy Inc.
212 N. Main
Midland, TX 79702

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Regulatory Technician II

DW/

Attachments



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

May 10, 2023

Via Certified Mail 7022 3330 0001 8949 8995

Return Receipt Requested

Legacy Reserves Operating
303 W. Wall St. Ste. 1400
Carlsbad, NM 88220-6292

To all Interest Owners:

Enclosed for you review is a copy of Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,150-10,650'. The Denali SWD #1 located 660 FSL & 1980 FEL, Sec. 3 T16S R28E, Eddy County.

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Mack Energy Corporation

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Deana Weaver
Regulatory Technician II

DW/

Attachments

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 394576

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 394576
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	10/22/2024