

Additional Information

Mack Energy
Denali SWD#1 (SWD-2533)
Rec'd 2-27-2024

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, 15,000 BWPB and 20,000 BWPB
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
0-2,030#
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
We will be re-injecting produced water
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water;
See Attached
6. List of Aquifers- Artesian 48-114'

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

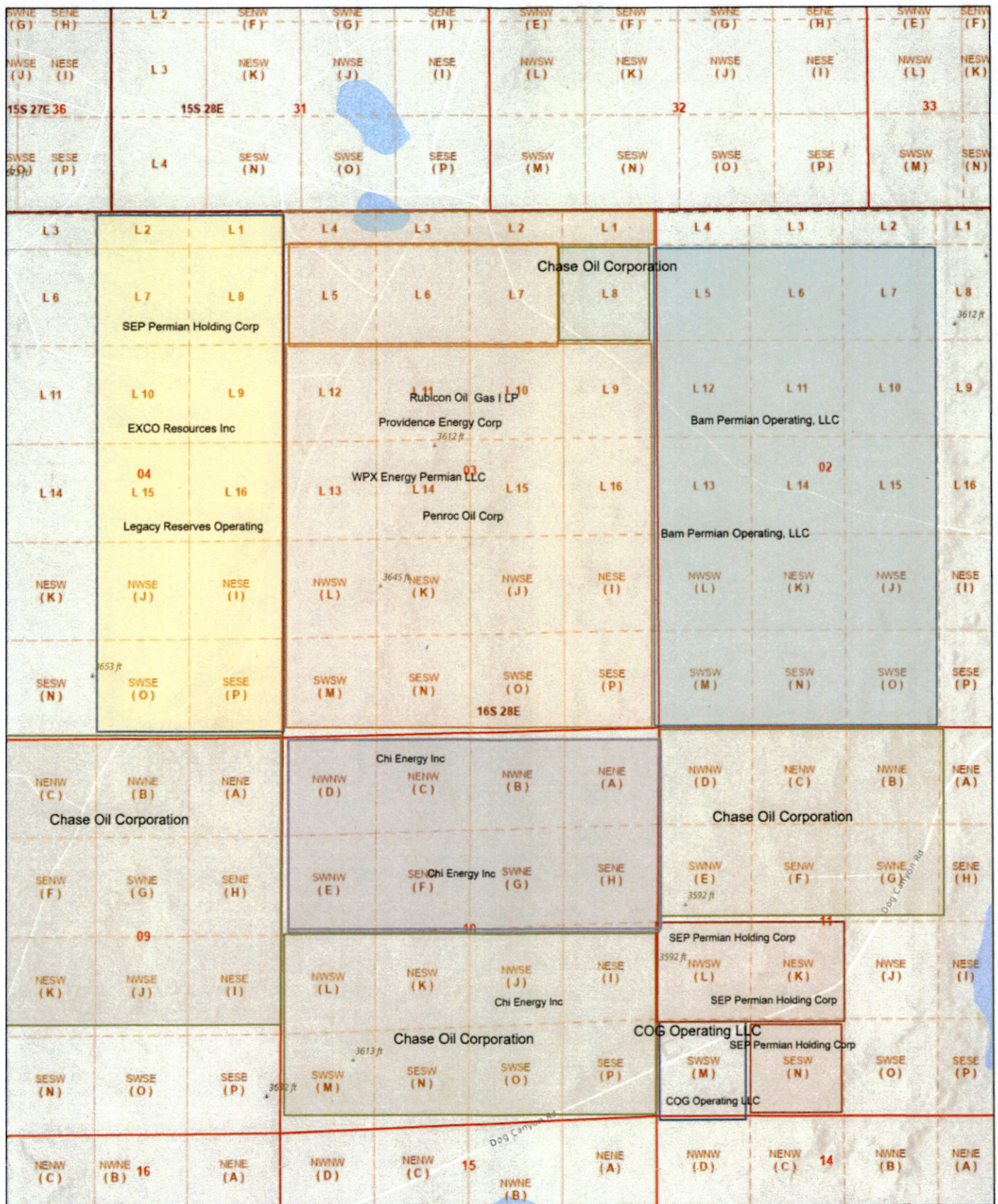
1. Well data will be filed with the OCD.

XI. ANALYSIS OF FRESHWATER WELLS

Additional Information

Waters Injected:

Grayburg- Oil/Gas 1487-1850'
Wolfcamp- Oil/Gas 6617-7271'
Atoka- Oil/Gas 9023-9150'
Morrow- Oil/Gas 9150-9431'

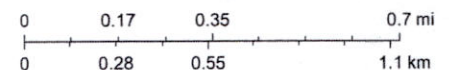


2/9/2024, 11:24:36 AM

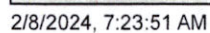
Areas

Override 1	Override 4	Override 8
Override 2	Override 5	PLSS Second Division
Override 3	Override 6	PLSS First Division
Override 7	PLSS Townships	

1:18,056



Esri, NASA, NGA, USGS, FEMA, OCD, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, BLM



Oil, Active

On, I tagged

Salt Water Injection, New

PLSS Townships

A number line with two scales. The top scale is labeled in miles (mi) with major tick marks at 0, 0.17, 0.35, and 0.7. The bottom scale is labeled in kilometers (km) with major tick marks at 0, 0.28, 0.55, and 1.1. The line is divided into 10 equal segments by 9 minor tick marks. The miles scale has labels at 0, 0.17, 0.35, and 0.7. The kilometers scale has labels at 0, 0.28, 0.55, and 1.1.

Esri, NASA, NGA, USGS, FEMA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/

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

Name	Address	City	State	Zip	Certified Mail Id
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501	7019 1120 0000 0728 3915
Bureau Of Land Management	620 E. Greene St	Carlsbad	NM	88220-6292	7022 3330 0001 8949 8940
Bam Permian Operating, LLC	4416 Briarwood Ave Ste 110 PMB 53	Midland	TX	79707	7022 3330 0001 8949 8957
Chl Energy Inc	212 N Main	Midland	TX	79702	7022 3330 0001 8949 8988
Sellers & Fulton Oil LLC	P.O. Box 1176	Artesia	NM	88211	7022 3330 0001 8949 8964
Legacy Reserves Operating	303 W Wall St STE 1400	Carlsbad	NM	88220-6292	7022 3330 0001 8949 8995
Spur Energy Partners LLC	9655 Katy FWY Ste 500	Houston	TX	77024-1338	7022 3330 0001 8949 8452
Burlington Resources Oil & Gas Co LP	P.O. Box 51810	Midland	TX	79710-1810	7022 3330 0001 8949 8971
WPX Energy Permian LLC	333 W. Sheridan Ave.	Oklahoma City	OK	73102	7022 2410 0002 1825 3289
Rubicon Oil & Gas I LP	400 W. Illinois Ave # 1130	Midland	TX	79701-4399	9589 0710 5270 0130 1876 09
Providence Energy Corp	16400 Dallas PKWY Ste 400	Dallas	TX	75248-2643	9589 0710 5270 0130 1876 16
Penroc Oil Corp	1515 W. Calle Sur St Ste 174	Hobbs	NM	88240-0998	9589 0710 5270 0130 1876 23
SEP Permian Holding Corp	9655 Katy FWY Ste 500	Houston	TX	77024	9589 0710 5270 0130 1876 30
EXCO Resources Inc	12377 Merit Dr. #1700 LB 82	Dallas	TX	75251	9589 0710 5270 0130 1876 47
Durango Production Corp	PO Box 4848	Wichita Falls	TX	76308	9589 0710 5270 0130 1876 54
Chase Oil Corporation	11352 Lovington HWY	Artesia	NM	88210-9634	
COG Operating LLC	600 W. Illinois Ave	Midland	TX	79701	9589 0710 5270 0130 1876 61

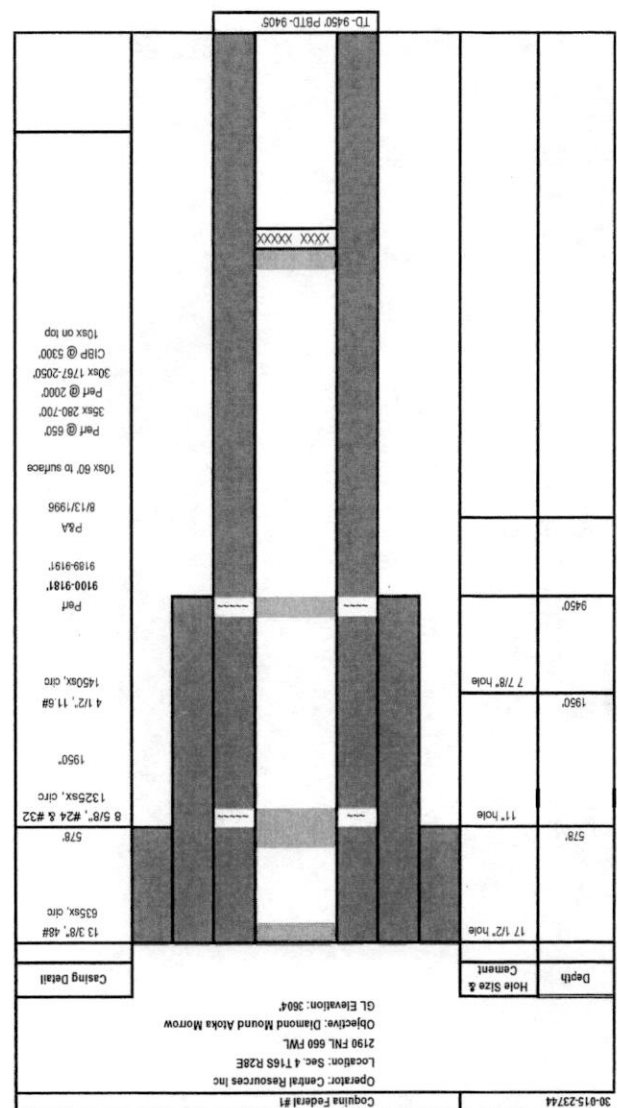
[illegible]

TD-9400

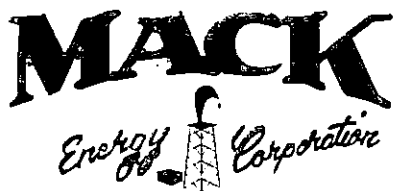
TD-9575

TD- 9,710' P8TD-9663'

TD-9,615' PBTD-9554'



30-015-39887		Blackhawk 11 Federal Com #2H			
		Operator: Legacy Reserves Operating			
		Location: Sec. 11 T16S R28E			
		1980 FSL 1590 FWL			
		Objective: Crow Flats			
		GL Elevation: 3576'			
Depth	Hole Size & Cement	Casing Detail			
	17 1/2" hole	13 3/8", 48# 400sx Circ			
352'					
	8 3/4" hole	7, 26# 1200sx Circ			
5901'					
	6 1/8" hole	4 1/2", #11.6 Liner 5735-9654'			
9654'		Perfs 6766-9607' Frac Ports			
		P&A 4/28/2023			
		35sx cmt plug 100' to surface Perf 430' 45sx cmt plug 480-211' 25sx cmt plug 1905-1756' 25sx cmt plug 3415-3266' Perf 5700' 25sx cmt plug 5700-5551' 25sx cmt plug 5395-5246' 25sx cmt plug 5970-5675' CIBP @ 6022' w/ 35' cmt cap Perf @ 5951'			
		TD- 9,704' TVD-6565'			



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

February 27, 2024

Via Certified Mail 9589 0710 5270 0130 1876 16

Return Receipt Requested

Providence Energy Corp
16400 Dallas PKWY Ste 400
Dallas, TX 75248-2643

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.

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, flowing style.

Deana Weaver
Regulatory Technician II

DW/

Attachments



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

February 27, 2024

Via Certified Mail 9589 0710 5270 0130 1876 23

Return Receipt Requested

Penroc Oil Corp
1515 W. Calle Sur St Ste 174
Hobbs, NM 88240-0998

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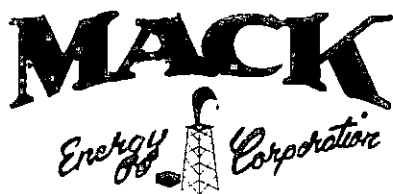
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February 27, 2024

Via Certified Mail 7022 2410 0002 1825 3289

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

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SEP Permian Holding Corp
9655 Katy FWY Ste 500
Houston, TX 77024

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Return Receipt Requested

EXCO Resources Inc
12377 Merit Dr. #1700 LB 82
Dallas, TX 75251

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Rubicon Oil & Gas I LP
400 W. Illinois Ave #1130
Midland, TX 79701-4399

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February 27, 2024

Via Certified Mail 9589 0710 5270 0130 1876 54

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Durango Production Corp
PO Box 4848
Wichita Falls, TX 76308

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

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Regulatory Technician II

DW/

Attachments

From: [Harris, Anthony, EMNRD](#)
To: ["Deana Weaver"; Jerry Sherrell](#)
Cc: [Goetze, Phillip, EMNRD](#); [Gebremichael, Million, EMNRD](#)
Subject: RE: [EXTERNAL] RE: Mack Energy - Denali SWD#1 comments
Date: Tuesday, February 27, 2024 5:18:00 PM
Attachments: [image001.png](#)

Thank you Deana

Report has been received and added to the applicable OCD folder for the Denali well.

Regards

Tony Harris

Petroleum Specialist

Anthony.harris@emnrd.nm.gov

505 549 8131.



From: Deana Weaver <dweaver@mec.com>
Sent: Tuesday, February 27, 2024 8:07 AM
To: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>; Jerry Sherrell <jerrys@mec.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Mack Energy - Denali SWD#1 comments

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

Anthony- Attached is the additional information requested for the Denali SWD #1. The Seismicity Report has been ordered and will be forwarded to your office.

Thank you

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

From: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Sent: Wednesday, February 07, 2024 3:50 PM
To: Jerry Sherrell <jerrys@mec.com>; Deana Weaver <dweaver@mec.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Subject: FW: Mack Energy - Denali SWD#1 comments

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

Good Afternoon, Jerry

Below are my comments for the Denali SWD#1 (Devonian) application. Please compile the requested information into a separate document entitled "Denali SWD#1 Additional Information"

1. AOR in the application is only ½ mile. For Devonian, the AOR must be 1 mile.
 - a. Please provide a table of all wells within a one mile AOR.
 - b. Please provide a list for wells within the AOR that penetrate the proposed injection interval.
 - c. Please provide a schematic for all plugged wells within the AOR that penetrate the proposed injection interval
 - d. Notification requirements (Proof of Notice) will need to be expanded to 1 mile.
2. Item VIII – Geologic Data
 - a. Provide the depth and geologic name for all USDW overlying the proposed injection interval
 - b. Provide the depth and geologic name for all USDW underlying the proposed injection interval
3. Please include an Induced Seismicity Risk assessment.
 - a. Refer to attached document for an example of an Induced seismicity risk assessment for deep wells.
 - b. Provide an analysis of the Fault Slip Potential similar to the analysis in the attached document to assess FSP vs increase in pore pressure.

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

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 394584

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 394584
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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