# 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 BWPD and 20,000 BWPD
- 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

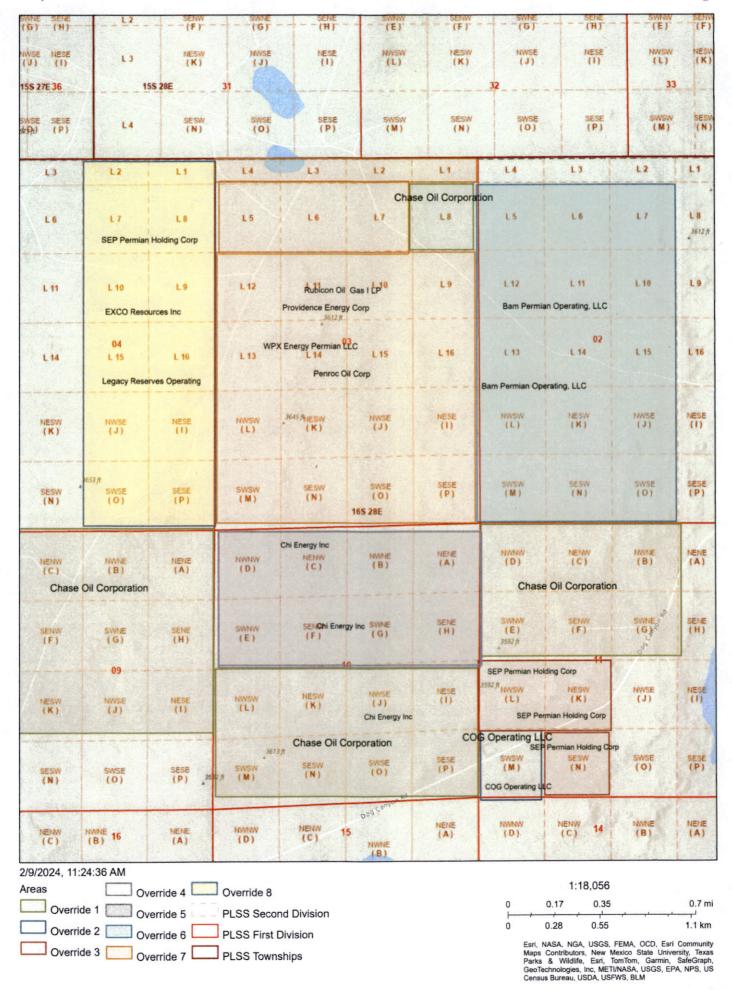
# X. LOGS AND TEST DATA

1. Well data will be filed with the OCD.

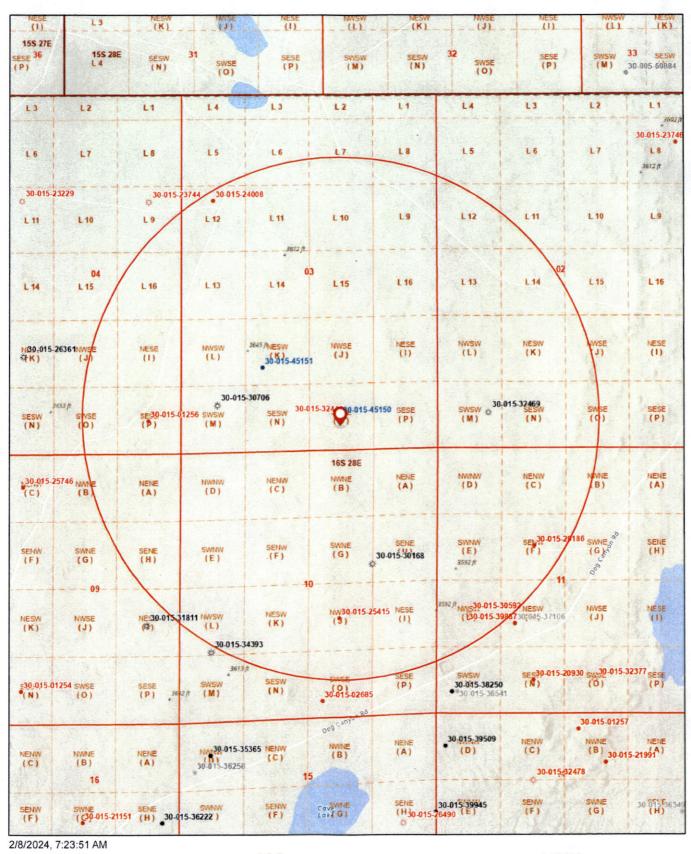
# XI. ANALYSIS OF FRESHWATER WELLS

Additional Information Waters Injected:

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



# **OCD Well Locations**



Wells - Large Scale

Oil, Cancelled

PLSS Second Division
PLSS First Division

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

PLSS Townships

Oil, Active A Salt Water Injection, New

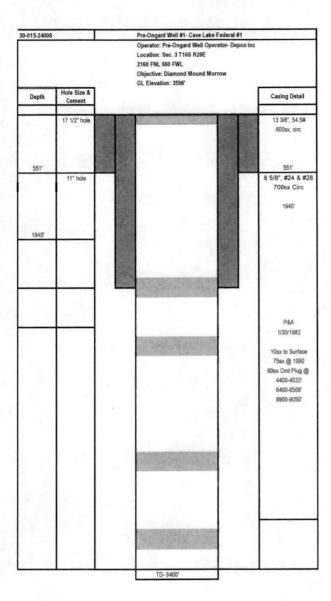
1:18,056 0 0.17 0.35 0.7 mi 1 0 0.28 0.55 1.1 km

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 & Widlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/

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	79 <b>707</b>	7022 3330 0001 8949 8957
Chi Energy Inc	212 N Main	Midland	TX	79702	7022 3330 0001 8949 8988
Sellers & Fulton Oil LLC	P.Q. 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	TΧ	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	ок	73102	7022 2410 0002 1825 3289
Rubicon Oil & Gas I LP	400 W. Illinois Ave # 1130	Midfand	· 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	86240-0998	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

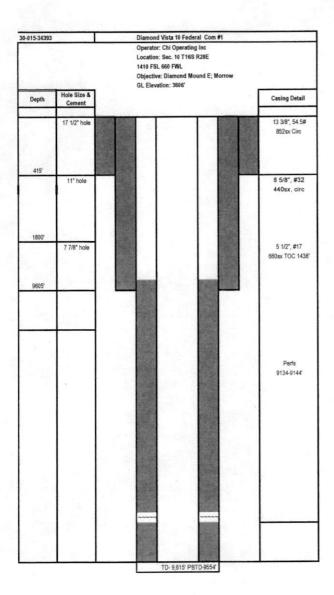
																_B/L 9	.08+01-8999 @ #9'11 .Z/1+	0
														70		-p/E B	J., Se# @ 2810.	1200sx
Reserve Operating LF	Blackhawk 11 Federal Com #1	06S8E-810-0E	Eddy	430 EST 330 EMF		391	28E	PO	Producing	12/31/2010	1102/51/6	10240.	,6963	Crow Flats Wolfcam	.08101-7888	17 112"	13 3/8, 24 24 @ 324.	xa002
			-		-		-		32ex curt bing 100' to surface									
									Pert 430, 45ex cmt plug 480-211									
									Sex cmt plug 1905-1756									
									Sex cmt plug 3415-3266'									
									Perf 5700' 25sx cmt plug 5700-5	.199								
									25ex cmt plug 5395-5246									
							_		Sex cmt plug 5970-5675'									
			_		_	-	-		CIBP @ 6022' w/ 35' cmt cap Per 4/28/2023							.8/L9	eui 1.586-9573 @ #8.11 "5/1 4	
Reserves Operating L	Blackhawk 11 Federal Com #2H	/8865-GLO-05	Eddy	1800 FSL 1590 FWL		165	38E	II.C	A89	4/7/2012	2/30/5015	MO/6	.+026	Crow Flats	.2096-9929	17 1/2" 8 3/4"	7" 26# @ 5901' 13 3/8" 48# @ 362'	400sx Circ 1200sx Circ
		20000 370 007	112	110 0001		001	200		****	CFOCILIF	Crocrocra	11020	17020	atel3 mes3	12090 9929	aCF ZF	13 348 WAN 1915 ET	MOON Circ
									berts @ 500' Circ 166ex 500-surf	908								
									Perfs @ 1180' 60sx cmt plug 118									
									Եeվ @ 1180, e0sx cmt bjnB S0e9	.0971-6								
									Perf @ 3300' 60sx cmt plug 3300									
			-						հeվ <b>© 4</b> 280, e0ex cաք binმ 4280 հeվ <b>©</b> 9388, e0ex cաք binმ 2436	0-4380.								
					_		-		Perf @ 6770' 60sx cmt plug 6770	9769-6								
	-		_		-		-		Perf @ 7686' 60sx cmt plug 7686	0009-0								
									Perf @ 8580 60sx cmt plug 8580	'00EB-0						-		
									CIBP @ 8873', 25ex cmt plug 88	73-8040"						-8/L L	22.16 @ #11 .2/19	×8007
									11/15/2015						9483-9505	11,	8 5/8" 24# & 32# @ 1980'	675sx Circ
ani ASU r	Crow Flats 11 Federal Com #1	30-015-30592	Eqq	1980 FSL 660 FWL	1	291	28E	885	A89	3/29/1999	6661/97/9	9722	14186	Morrow	9372-9410	"SIT TI	13 3/8,, 48# @ 324,	400sx Circ
														Diamond Mound;				
			-		_		-		Osx cmt plug to Surface									
	-		_		-		-		100ex cust bing 1128-1136									
	-		-						Pert @ 1128-1136							-		
									CIBP @ 1350'									
									3400, 2020.									
									#, '00+2, '0883, '08ET @ gulg xe00	.009								
									90sx blug 926-9286							"p\E 8	.0786 @ #8.81-41 "5/1 8	SS belluq xe033
gard Well Operator			7000					-	5/1/1/869			-			2826-9926	121/4"	9 5/8" 32.3# @ 1980"	1300sx Circ
Petroleum Corr	North Crow Flats Unit #1	30-015-20186	Eddy	1980 FNL 1980 FWL	1	168	28E	'n	A.8 c	8961/71/11	6961/9/1	.0296	Surface	Wildcat	1128-1136	17 172"	13 3/8" 48# @ 301'	350sx Circ
	-		-			-			Oex eq. to enusee									
			-			-			Oex 60, to surface									
			-				-		9ert @ 2000; 30sx 2050-1767;									
									woled xe005 zup3									
									CIBP @ 5300' 10sx on top 2900'							-8/L L	.09+6 @ #9"11.2/1+	1450sx Circ
									966 L/E L/8							11.	8 2/8 54# @ 1950.	1325sx Circ
Resources Inc	Coquina Federal #1	30-015-23744	Eddy	2190 FNL 660 FWL		291	28E	285	A&c	1861/4/3	1861/9217	.0916	9405	Atoka Morrow	1616-0016	2/177	13 3/8" 48# @ 578"	635sx Circ
			-											Diamond Mound				
					_	_										-8/7 7	.5096 @ #21.2/15	660sx TOC 14
	<del>                                     </del>				_											11.	8 5/8" 32# @ 1800"	440sx Circ
onl gader	Diamond Vista 10 Federal Com	56545-310-0E	Eddy	1410 FSL 660 FWL	il.	391	38E	585	Buionpoue	3/27/2006	9/13/2008	.9196	.14996	Worlow	9134-9144.	17 172"	13 3/8 24.5# @ 415'	852sx Circ
								- Day						:3 bnuoM bnomsiQ				
										Carlo Carlo								
																-8/L L	.01/26 🕲 #/1 .Z/1 S	1950ax Circ
i .														WonoM		"11"	8 5/8" 32# @ 1825"	550sx Circ
Reserves Operating Li	CONTRACTOR AND	11816-310-06	Anna	1980 FSL 660 FEL		165	28E	sec	Buonpou	1007/07//	9/28/2001	01.76	.6996	Crow Flats Morrow Diamond Mound	0046-0076	2/1 //	13 3/8,, 48# @ 252,	650sx Circ
1 pagesoo andoog	Kodiak Enderal #1	11816-310-06	Eddu	133 099 153 0801		291	380	965	bajoripase	FUUCISCIZ	FUUCIBCIO	,012.0	,caso,	words atela word	9260 9300	uCF ZF	13 3/8" 48# @ 626"	03/J ×3/J9
												-						
OO OCD	NO Julo ou OCD	30-015-01256																
									20, anusce bing									
									30sx cust plug 375-275									
									30ex curt bind 3009-5023, 30ex curt bind 3000-5000,									
						_			30sx cmt plug 5370-5270"									
									30ex cust plug 7680-7480°	-								
			-		-				10/30/2002		10/30/5005					15 1/4	8 2/8 35# @ 5013.	850sx Circ
Oil & Gas Corp	Crow Flats 3 Federal #2	30-016-32444	Eddy	990 FSL 1980 FEL		165	28E	Sec	Aac	10/3/2002		.9296	.9296	молом	A/N	17 1/2"	13 3/8., 48# @ 325.	500ax Circ
														;bnuoM bnomeiQ				
									Osx to Surface									
									.0661 @ xsq.									
	-								20ex curt bing 4400-4533									
							-		20sx cmt plug 6400-6568 30sx cmt plug 8900-9060									
ard Well Operator	Pre-Ongard Well #1		-						1/30/1982 1/30/1982		1/30/1982					11,	8 2/8, 54 g 58# @ 1840.	700sx Circ
oct Defett Oppressor		30-015-24008	EqqA	2160 FNL 660 FWL	_	291	392	Kir	A.80	12/29/1981			.00%6	Morrow	A/N	2/1 /1	13 3/8" 54.5# @ 551	600sx, Circ
4	in in-p-3 -/a lane?	30010 310 06		0113 099 H43 091C		991	300		***	- GO Front G F	4.60	2010	10070	Diamond Mound	V/14			.0 300

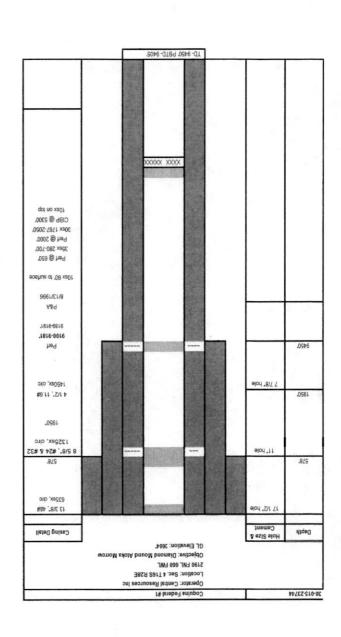
30-015-38250				11 Federal C			
			Location: \$	CrowFlat Wolf	28E	LP	
Depth	Hole Size & Cement	1 14					Casing Detail
	17 1/2" hole						13 3/8", 54.5# 500sx, circ
354'							354'
334	8 3/4"						7", #26
,							850sx, circ 5810'
5810	1674						
	6 1/8"						4 1/2", #11.6
				2			5668-10480'
10540'				_			
			XXX		XXX		
			XXX		XXX		
			xxx		xxx		
			XXX		XXX		
			XXX		XXX		
			xxx		XXX		Perfs- 6897-10480'
			XXX		XXX		Strataports
			XXX		XXX		
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			Control of the Contro	- WITTER			
			TD- 10,54	0' TVD- 6563'			



0-015-32444			Crow Flats 3 Federal #2	
			Operator: Concho Oil & Gas Cor Location: Sec. 3 T16S R28E 660 FSL 1980 FEL Objective: Diamond Mound Morr GL Elevation: 3596'	
Depth	Hole Size & Cement			Casing Detail
	17 1/2* hole			13 3/8", 48# 600sx, circ
352'	12 1/4" hole			352' 8 5/8", #32
2013'				850sx, Circ 2013*
2013				
				P&A 10/30/2002 50' Surface Plug
		0		30sx Cmt Plug @ 275-375' 2053-2063' 2900-3000' 5270-5370' 7480-7580'
				0
			TD- 9575'	

30-015-31811		Kodiak Federa	l #1	
		Location: Sec. 1980 FSL 660	FEL w Flats Morrow; Diar	forrow
Depth	Hole Size & Cement			Casing Detail
	17 1/2" hole			13 3/8", 48# 650sx Circ
525'	11* hole			8 5/8", #32 650sx Circ
1825'	7 7/8" hole			5 1/2", #17
9710'				1950sx Circ
	5			Perfs 9258-9458'
			,710' PBTD-9663'	





30-015-39887			wk 11 Federal C			
	1000	Location 1980 FS Objective	or: Legacy Reser n; Sec. 11 T16S in L 1590 FWL ore: Crow Flats nation: 3576'		rating	
Depth	Hole Size & Cement					Casing Detail
	17 1/2* hole		N. Pitali			13 3/8*, 48# 400sx Circ
352'	8 3/4* hole					7, 26# 1200sx Girc
						120084 0110
5901'	6 1/8" hole					41/2", #11.6 Liner 5735-9654'
9654'						Perfs 6766-9607'
		***	XXXX XXX	****		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 @ 58
				****		
		****		****		
		****		****		
			TD- 9,704' TV			



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 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

Dlana Wlaver

Deana Weaver

Regulatory Technician II

DW/



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

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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Sincerely,

Mack Energy Corporation

e anaweaver

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

Via Certified Mail 7022 2410 0002 1825 3289 Return Receipt Requested

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

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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Sincerely,

Mack Energy Corporation

eana Weaver

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

Via Certified Mail 9589 0710 5270 0130 1876 30 Return Receipt Requested

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

To all Interest Owners:

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Sincerely,

Mack Energy Corporation

Deanaweaver

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

Via Certified Mail 9589 0710 5270 0130 1876 47 Return Receipt Requested

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

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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Sincerely,

**Mack Energy Corporation** 

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

# Via Certified Mail 9589 0710 5270 0130 1876 09 Return Receipt Requested

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

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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Sincerely,

Mack Energy Corporation

eana Weaver

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

# Via Certified Mail 9589 0710 5270 0130 1876 54 Return Receipt Requested

Durango Production Corp PO Box 4848 Wichita Falls, TX 76308

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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Sincerely,

Mack Energy Corporation

Deana Weaver

Regulatory Technician II

DW/



February 27, 2024

<u>Via Certified Mail 9589 0710 5270 0130 1876 61</u> Return Receipt Requested

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

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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Sincerely,

Mack Energy Corporation

eanableaver

Deana Weaver

Regulatory Technician II

DW/

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: <u>image001.png</u>

# 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 < <a href="mailto:Anthony.Harris@emnrd.nm.gov">Anthony.Harris@emnrd.nm.gov</a>>

Sent: Wednesday, February 07, 2024 3:50 PM

**To:** Jerry Sherrell < <u>jerrys@mec.com</u>>; Deana Weaver < <u>dweaver@mec.com</u>>

**Cc:** Goetze, Phillip, EMNRD < <a href="mailto:phillip.goetze@emnrd.nm.gov">phillip.goetze@emnrd.nm.gov</a>>; 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 <u>overlying</u> the proposed injection interval
  - b. Provide the depth and geologic name for all USDW <u>underlying</u> 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.

Sante Fe Main Office Phone: (505) 476-3441

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

CONDITIONS

Action 427226

#### **CONDITIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	427226
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

## CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	1/31/2025