# **AE Order Number Banner**

Application Number: pMSG2334737385

## SWD-2584

## MACK ENERGY CORP [13837]

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
		ABOVE THIS TABLE FOR OCD D	VISION USE ONLY
		O OIL CONSERV	
	-	al & Engineering	
	1220 South St. Fro	ancis Drive, Santo	d Fe, NM 87505
		ATIVE APPLICATIO	
THIS			ITIONS FOR EXCEPTIONS TO DIVISION RULES AND DIVISION LEVEL IN SANTA FE
plicant: Mack End	ergy Corporation		OGRID Number: 013837
Il Name: Labrad	or SWD#1Y Amended SWD-2488		<b>API:</b> 30-005-64374
SWD; Devonian			Pool Code: <u>96101</u>
		INDICATED BELC	
A. Location	CATION: Check those v – Spacing Unit – Simulto NSL INSP(PRC	aneous Dedicatio	
B. Checko	ne only for [   ] or [    ]		
	mingling – Storage – Me	easurement	
	]DHC ПСТВ ПРL	С 🛛 РС 🗍 С	ls 🛛 olm
	ction – Disposal – Pressur		
	]WFX 🗌 PMX 🔳 SM		
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	cation requires publishe		Application
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	cation and/or concurre		
	ce owner		
		notification or pu	blication is attached, and/or,
	otice required		
CEDTIEICATION	N. I haraby cortify that t	he information and	pritted with this application for
			omitted with this application for he best of my knowledge. I also
			Ition until the required information and
	ire submitted to the Divi		
N	ote: Statement must be complet	ed by an individual with	managerial and/or supervisory capacity.
		ee oy an marridou wiin	
			9/28/2023
eana Weaver			Date
nt or Type Name			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			575-748-1288
\	1.0.0		Phone Number
Danal	planer		
All all			dweaver@mec.com

Signature

dweaver@mec.com

e-mail Address

ENI	ATE OF NEW MEXICO ERGY, MINERALS AND OURCES DEPARTMEN	NATURAL 12	il Conservation Division 20 South St. Francis Dr. 1ta Fe, New Mexico 87505	FORM C-108 Revised June 10, 2003
I.	PURPOSE: Application qualifies fo	<u>APPLICATION</u> Secondary Recovery r administrative approval?	FOR AUTHORIZATION TO INJECT         Pressure Maintenance       X X         X X       Yes       No	_DisposalStorage

II.	OPERATOR:	Mack Energy	Corporation
п.	OPERATOR.	Mack Lifergy	corporation

ADDRESS: P.O. Box 960 Artesia, NM 88210

CONTACT PARTY: Deana Weaver

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV.	Is this an expansion of an existing project?	Yes	No
	If yes, give the Division order number authorizing	the project:	

- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
  - 2. Whether the system is open or closed;
  - 3. Proposed average and maximum injection pressure;
  - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME:	Deana Weaver	TITLE: Regula	tory Tech II
SIGNATURE:	Deans weaver	DATE:	9/28/2023
E-MAIL ADDRI			
If the information	required under Sections VI, VIII, X, and XI above has	been previously submitted, it	need not be resubmitted.

\* 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

575-748-1288

PHONE:

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:

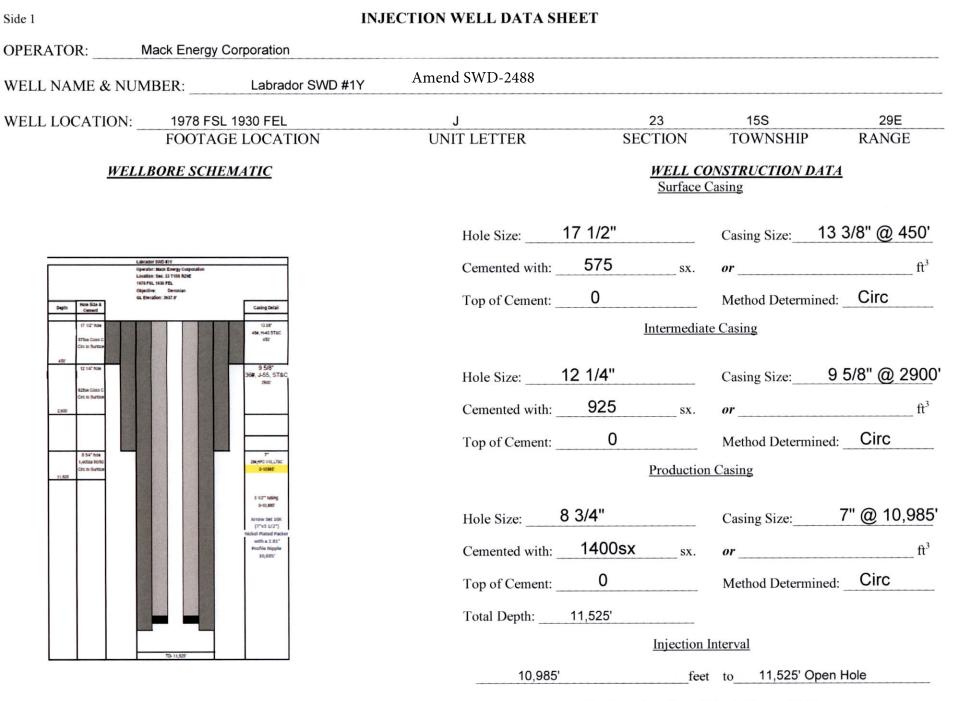
- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates 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.

Page 5 of 103



(Perforated or Open Hole; indicate which)

.

Side 2

## **INJECTION WELL DATA SHEET**

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Tubing Size: 31	2 "Lin	ing Material:	IPC
Type of Packer:	rrow Set 10K (7" x 3 1/2") Nickel Plat	ed Packer w/ 2.81"	Profile Nipple
Packer Setting De	pth: 10,885'		
Other Type of Tu	oing/Casing Seal (if applicable):	N/A	
	Addition	al Data	
1. Is this a new	well drilled for injection?	<u> </u>	No
If no, for wh	t purpose was the well originally d	trilled?	
2. Name of the	Injection Formation:Devonian		
3. Name of Fiel	d or Pool (if applicable):SWD;	Devonian	
	ever been perforated in any other z give plugging detail, i.e. sacks of c		
5. Give the nam injection zon	e and depths of any oil or gas zone e in this area: <u>L. Miss 10,435', Devor</u>	s underlying or ov ian 10,985', Montoya	verlying the proposed 11,525', Simpson 11,725'
	······································	_	
-			

## 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; Devonian
- 3. Thickness; 540'
- 4. Depth; 11,525' (Open Hole 10,985-11,525')

## 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

N/A

Additional Information Waters Injected: San Andres

## XII. AFFIRMATIVE STATEMENT

RE: Labrador 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: 3/17/22

Charles Sadler, Geologist

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

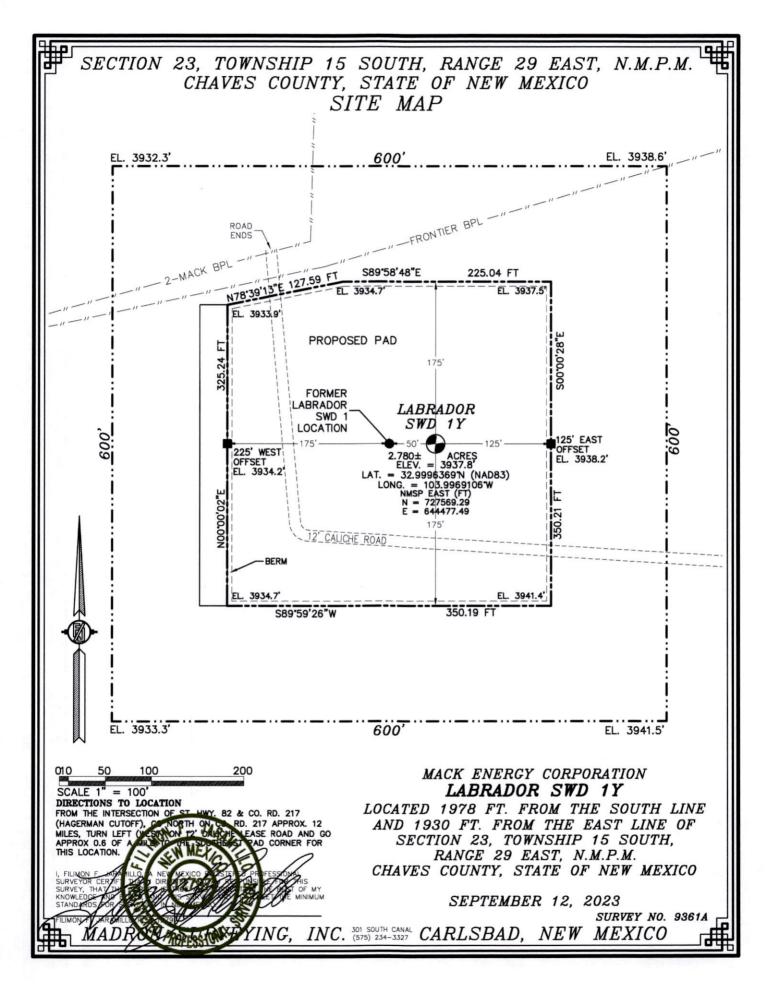
<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
96101	SWD; Devonian	
5 Pi	roperty Name	<sup>6</sup> Well Number
LABR	ADOR SWD	1Y
<sup>8</sup> O <sub>1</sub>	perator Name	<sup>9</sup> Elevation
MACK ENER	GY CORPORATION	3937.8
_	96101 <sup>* Pr</sup> LABR * O	

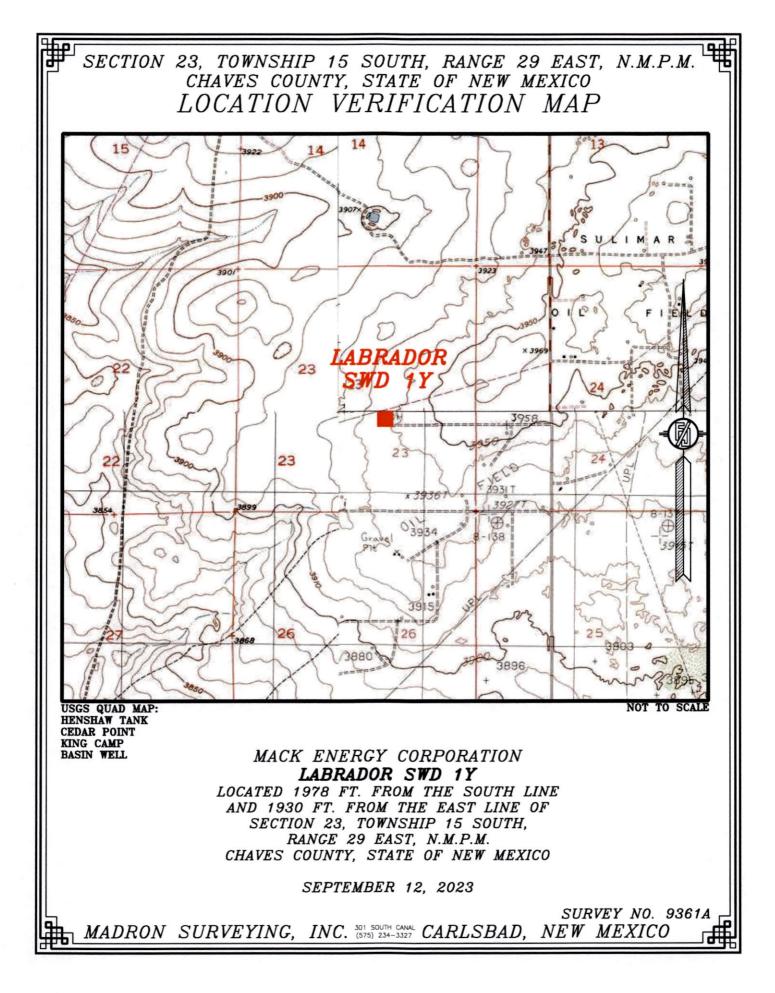
					Surrae	e Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	15 S	29 E		1978	SOUTH	1930	EAST	CHAVES
			п	Bottom H	lole Location	If Different Fr	om Surface		

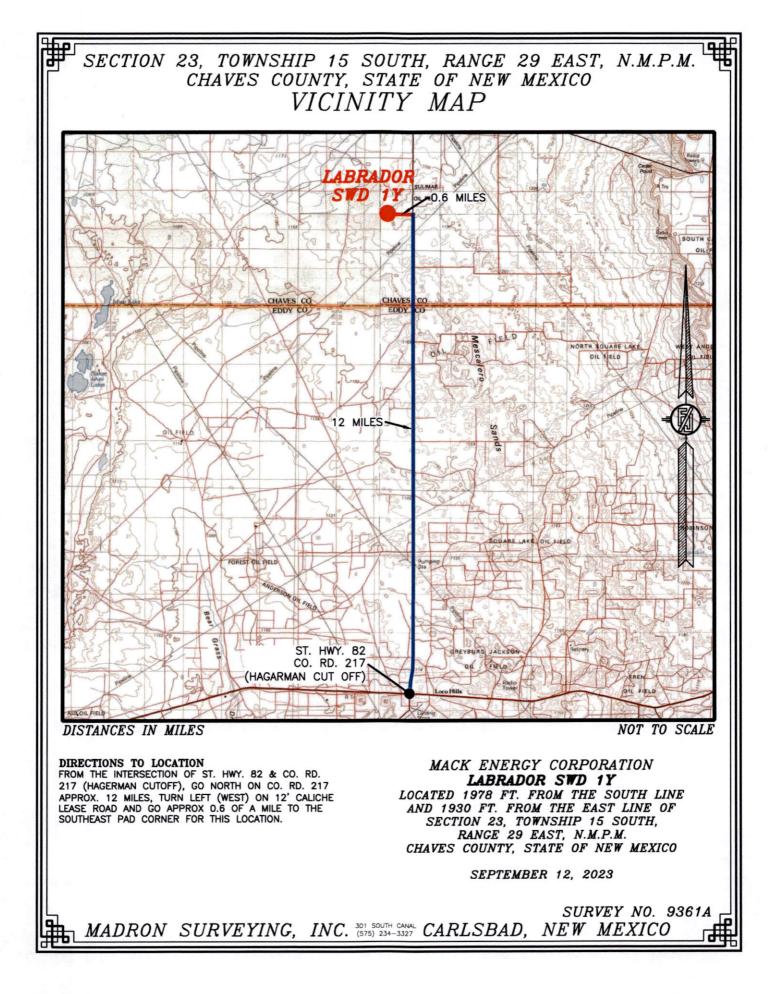
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint	or Infill 14	Consolidatio	n Code			<sup>15</sup> Order No.		
40									

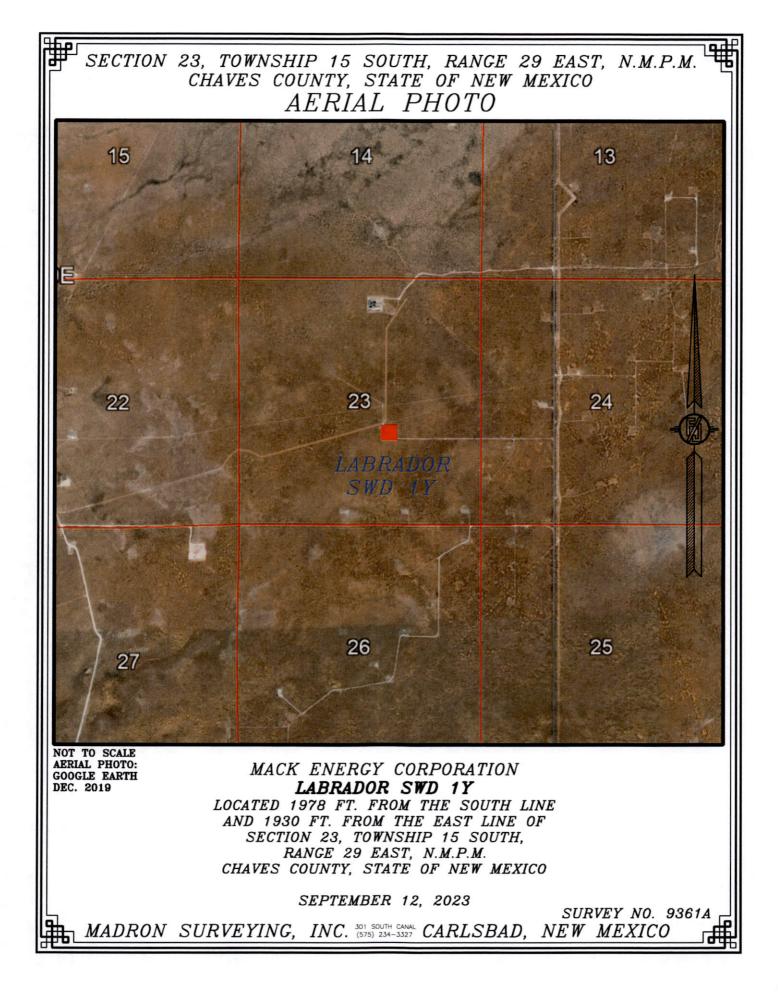
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

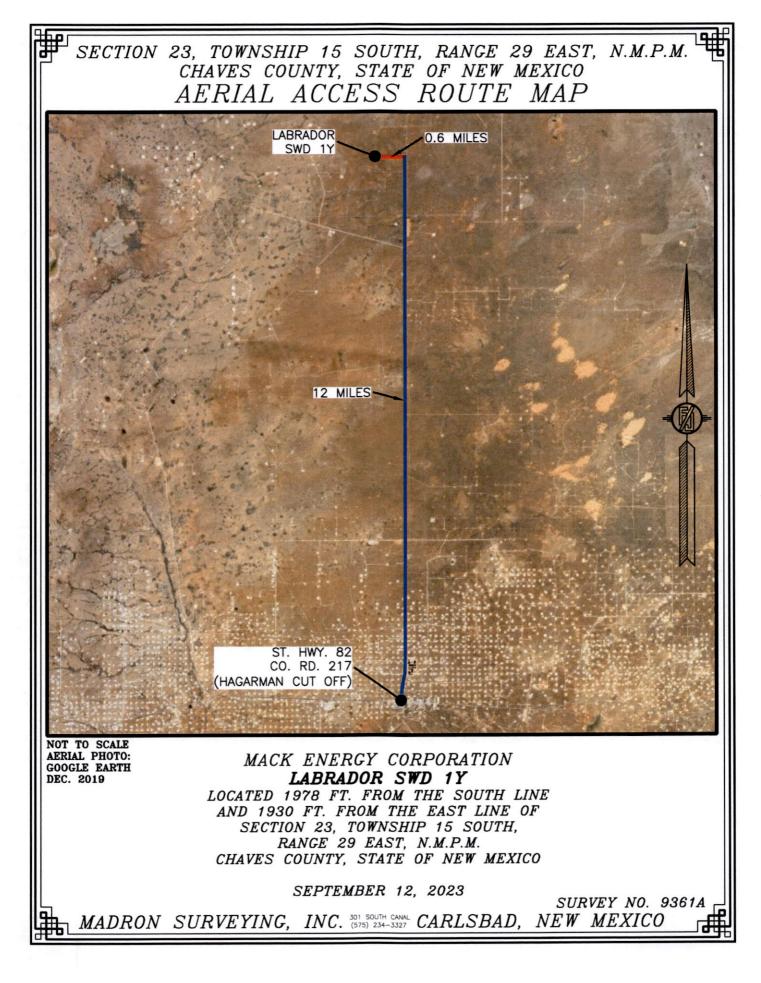
	N89*53'16"E	2638.11 FT N89	55'34"E 2637.68 FT	<sup>17</sup> OPERATOR CERTIFICATION
	W CORNER SEC. 23	N/4 CORNER SEC. 23	NE CORNER SEC. 23	I hereby certify that the information contained herein is true and complete
	AT. = 33.0087818'N ONG. = 104.0078257'W	LAT. = 3310087732'N LONG. = 103.9992221'W	LAT. = 33.0087593*N LONG. = 103.9906199*W	to the best of my knowledge and belief. and that this organization either
	IMSP EAST (FT)	NMSP EAST (FT)	NMSP EAST (FT)	owns a working interest or unleased mineral interest in the land including
H N	I = 730885.92	N = 730891.08	N = 730894.48	the proposed bottom hole location or has a right to drill this well at this
5	= 641120.85	E = 643758.26	E = 646395.20 or	location pursuant to a contract with an owner of such a mineral or working
7.2			17.3	interest, or to a voluntary pooling agreement or a compulsory pooling order
2647			264	heretofore entered by the division.
		NMNM 138832		Deana Weaver 9/28/2023
0,26		130002	1,49,	Signature Date
N00*40*26"W			S00'11	Deana Weaver
NO		1	N	Printed Name
	4 000000 000 07			dweaver@mec.com
	/4 CORNER SEC. 23 AT. = 33.0015079'N		E/4 CORNER SEC. 23 LAT. = 33.0014847 N	E-mail Address
	ONG. = 104.0077509*W		LONG. = 103.9906184*W	
	MSP EAST (FT) = 728239.53	SURFACE	NMSP EAST (FT) N = 728247.79	<b>ISURVEYOR CERTIFICATION</b>
E	= 641151.97	LOCATION LOCATION	E = 646404.36	I hereby certify that the well location shown on this plat
	1	ELEV. = 3937.8		
E		LAT. = 32.9996369*N (NAD83)		was plotted from field notes of actual surveys made by
49		NMSP EAST (FT)	.68	me or under my supervision, and that the same is true
558.		N = 727569.29 E = 644477.49	NMNM 127444	and correct to the best of my belief.
26	NMNM 066483		NMNM 127444	SEPTEMBER 12, 2022
36'44"W			32"E	Date of Survey
6.4		978	3.1	MEXX //
in l	SW CORNER SEC. 23	S/4 CORNER SEC. 23	SE CORNER SEC. 23	King King King King King King King King
	AT. = 32.9942030'N	LAT. = 3219942016"N	LAI. = 52.9942011 N	
	ONG. = 104.0076851'W	$LONG. = 10 3.9991564^*W$	LONG. = 103.9906126*W NMSP EAST (FT)	Signature and Seal of Profesional Surveyor.
	NMSP EAST (FT) N = 725581.88	NMSP EAST (FT) N = 725589.58	NMSP EAST (FT) N = 725597.82	Vex Ist
	= 641180.36	E = 643795.24	E = 646414.78	Certificate Number: 112 112 112 12797
	S89*49'53"W	2615.57 FT \$89	*49'11"W 2620.23 FT	- SURVE INC. 9301A



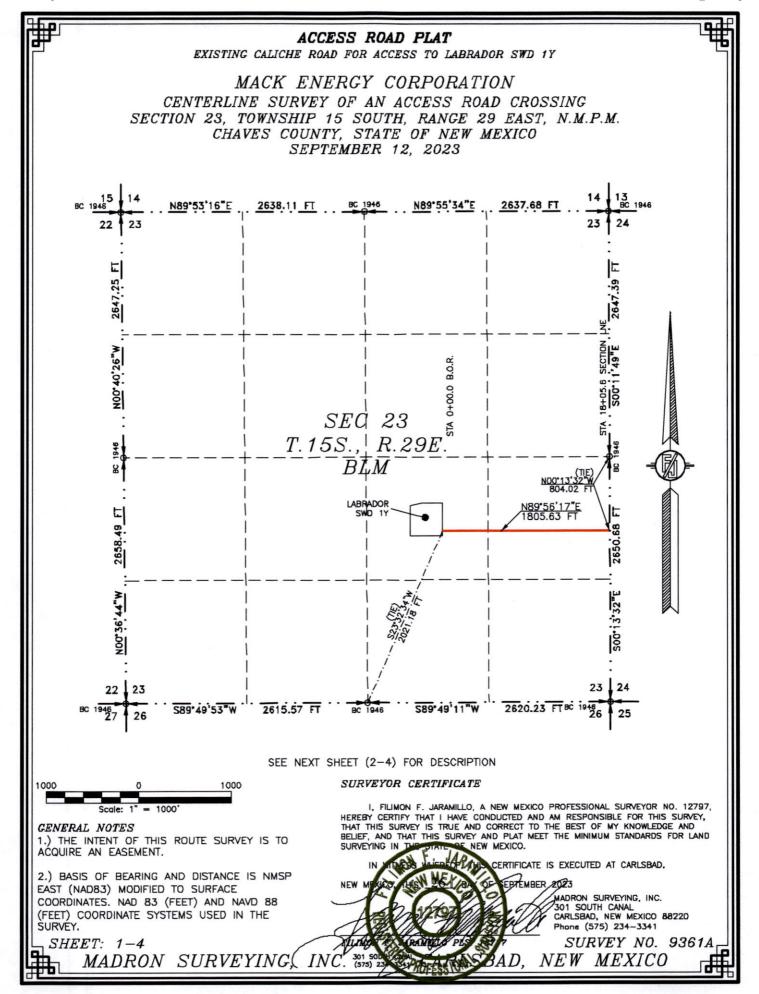






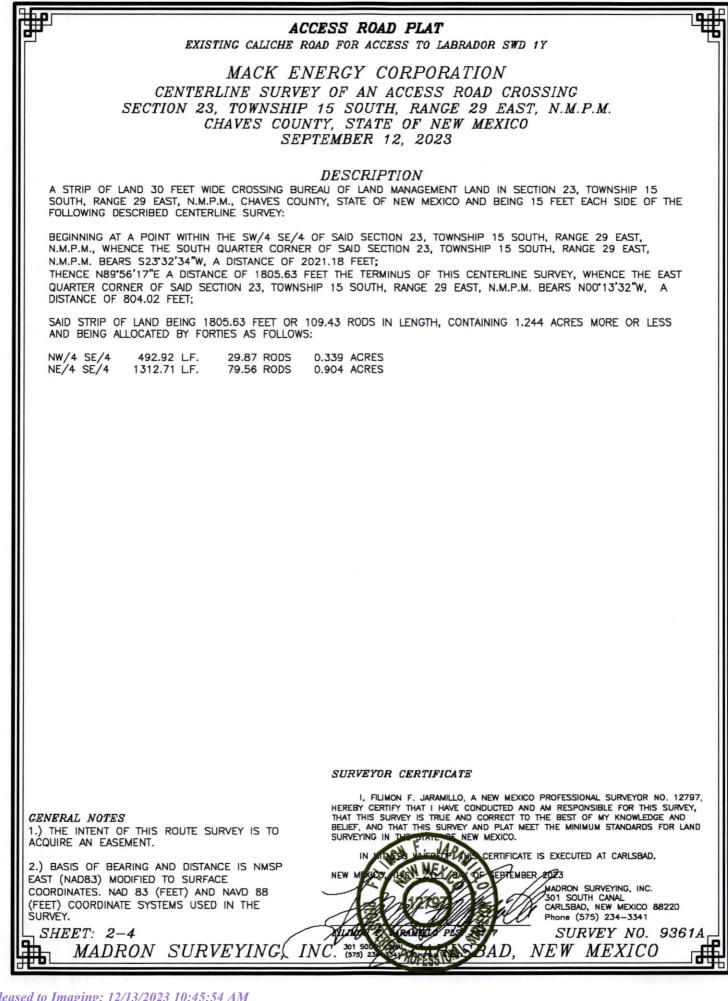


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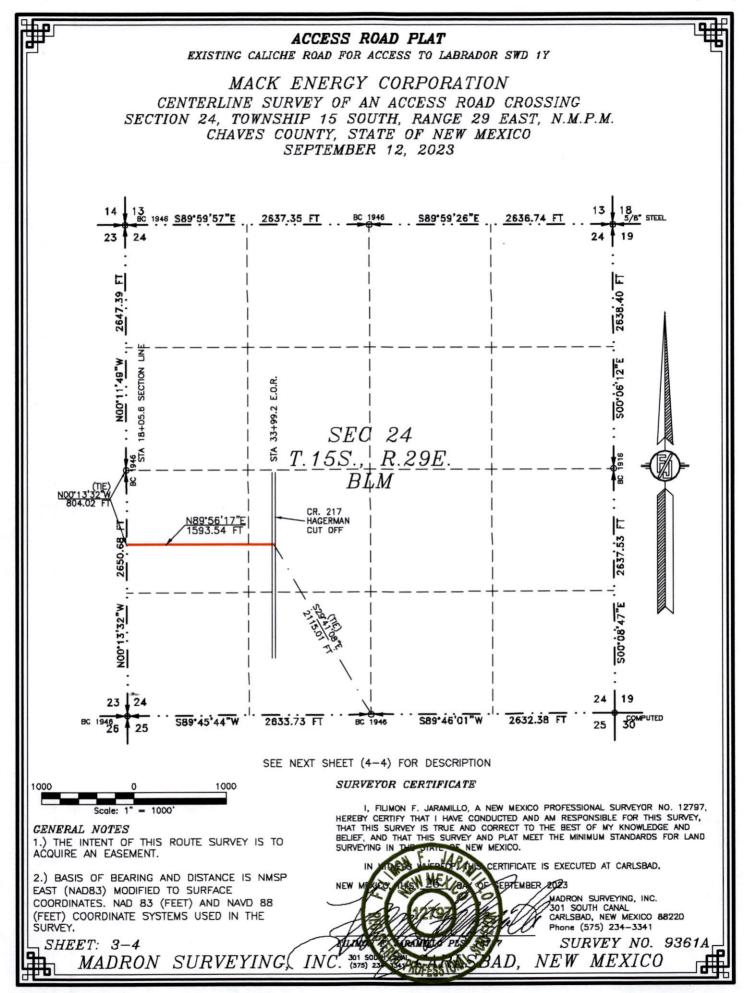


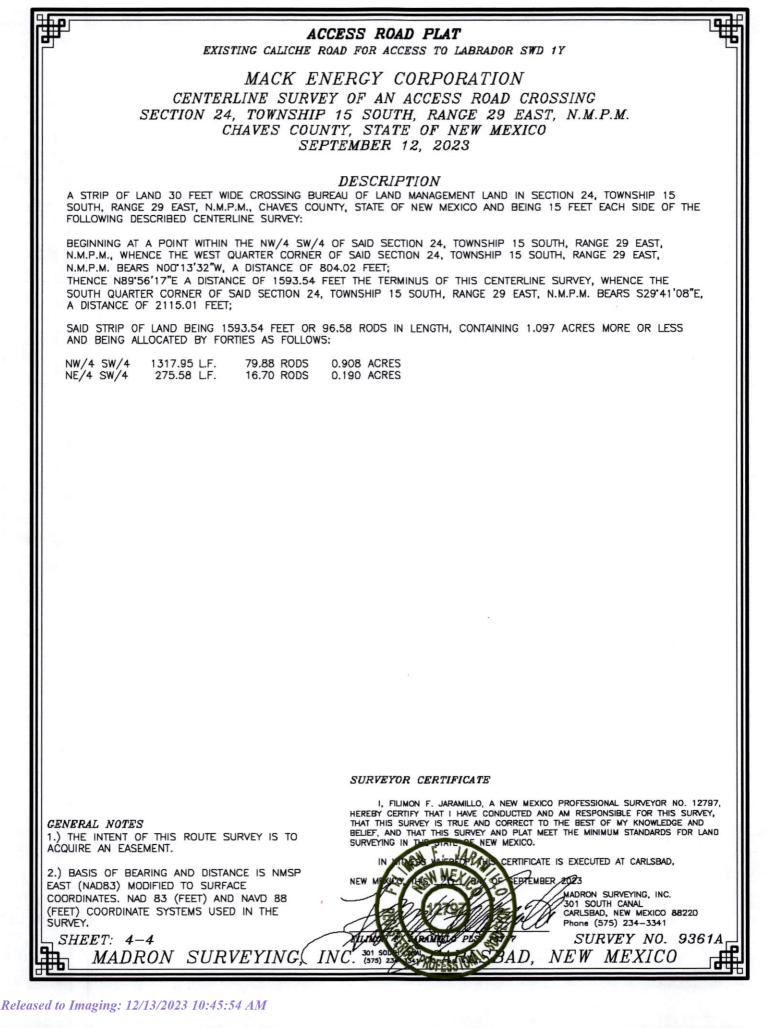
Released to Imaging: 12/13/2023 10:45:54 AM

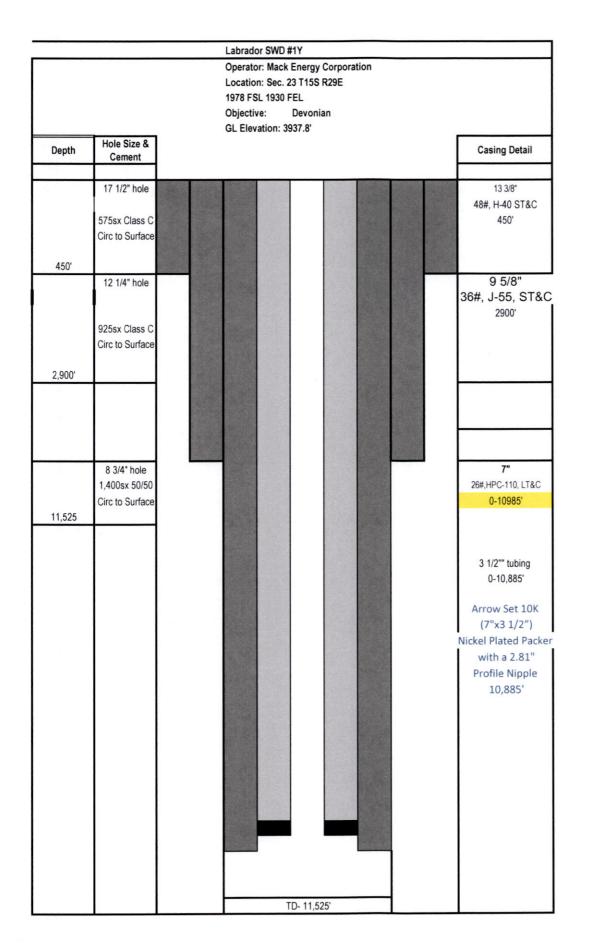
Page 16 of 103



Released to Imaging: 12/13/2023 10:45:54 AM







# Labrador SWD #1Y 1978 FSL 1930 FEL Sec. 23 T15S R29E Formation Tops

Quaternary	Surface
Top Salt	462 <b>'</b>
Base Salt	1023'
Yates	1187'
San Andres	2605′
Glorieta	4060'
Tubb	53 <b>82'</b>
Abo	6155′
Wolfcamp	7495'
Atoka	9689'
U. Miss	10,200'
L. Miss	10,435'
Devonian	10,985'
Montoya	11,525'
Simpson	11,725'
Ellenburger	11,992'

AFFIDAVIT OF PUBLICATION STATE OF NEW MEXICO

I, Merle Alexander Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

One time with the issue dated

October 10th, 2023

Clerk

Sworn and subscribed to before me

this 10th/day of October, 2023 Notary Public



	abort for the
LEGALS	
 Legal Notice	

Publish October 10th, 2023

#### 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 Labrador SWD #1Y 1978 FSL 1930 FEL of Section 23, T15S, R29E, NMPM, Chaves County, New Mexico. The water will be injected into the Devonian at a disposal depth of 10,985-11,525'. Water will be injected at a maximum surface pressure of 2,030# 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.

Legal Notice...

# Publish October 10th, 2023

# 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 Labrador SWD #1Y 1978 FSL 1930 FEL of Section 23, T15S, R29E, NMPM, Chaves County, New Mexico. The water will be injected into the Devonian at a disposal depth of 10,985-11,525'. Water will be injected at a maximum surface pressure of 2,030# 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. Released to Imaging: 12/13/2023 10:45:54 AM

\_\_\_ \_\_

Name	Address	City	<sup>•</sup> State	Zip	Certified Mail Id
Cross Border Resources Inc.	14282 Gillis Rd	Farmers	ТΧ	75244-3715	7022 2410 0002 1825 3173
Chisos LTD	1331 Lamar St. Ste 1077	Houston	ТΧ	77010-3135	7022 2410 0002 1825 3180
Apache Corporation	2000 Post Oak Blvd Ste 100	Houston	ТΧ	77056-4400	7022 2410 0002 1825 3197
Bureau of Land Management	2909 W. 2nd St	Roswell	NM	88201-1287	7019 1120 0000 0728 4790
Chase Oil Corporation	11352 Lovington HWY	Artesia	NM	88210	
Energy Reserves Group LLC	333 Clay St Ste 4400	Houston	ΤX	77002-4105	7022 2410 0002 1825 3203
Caza Petroleum LLC	16945 NorthChase Dr Ste 143	(Houston	ТΧ	77060-2133	7022 2410 0002 1825 3210
Wise Oil & Gas No 8 LTD	6851 NE Loop 820 Ste 200	North Richland Hills	ТХ	76181-6641	7022 2410 0002 1825 3227
Read & Stevens Inc	400 N. Pennsylvania Ste 1000	Roswell	NM	88201	7022 2410 0002 1825 3234
Bam Permian Operating LLC	4418 Briarwood Ave Ste 110	Midland	ТΧ	87508	7022 2410 0002 1825 3241
	PMB 53				
Occidental Permian LP	5 Greenway Plz Ste 110	Houston	ТΧ	77046-0521	7022 2410 0002 1825 3258
EOG Resources INC	105 S 4th St	Artesia	NM	88210-2177	7022 2410 0002 1825 3265
Oxy Y-1 Co	5 Greenway Plz Ste 110	Houston	тх	77046-0521	7022 2410 0002 1825 3272

,



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

Re: Application of Mack Energy Corporation for administrative approval for Central Tank Battery and Off Lease Measurement of oil and gas production at a CTB Facility located in Section 28, Township 15S Range 29E, NMPM, Chaves County, New Mexico.

List of Affected Parties Sendero Energy LLC Katz Resources LLC M Squared Energy LLC Chase Oil Corp Robert C Chase Broken Arrow Royalties LLC Ventana Minerals LLC DiaKan Minerals LLC Bureau of Land Management





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

October 18, 2023

Via Certified Mail 7019 1120 0000 0728 4790 Return Receipt Requested

Bureau of Land Management 2909 W. 2<sup>nd</sup> St. Roswell, NM 88201-1287

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 10,985-11,525'. The Labrador SWD #1Y located 1978 FSL & 1930 FEL, Sec. 23 T15S R29E, Chaves 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

lana Weaver

Deana Weaver Regulatory Technician II

DW/





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

October 18, 2023

Via Certified Mail 7022 2410 0002 3173 Return Receipt Requested

Cross Border Resources Inc. 14282 Gillis Rd. Farmers, TX 75244-3715

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 10,985-11,525'. The Labrador SWD #1Y located 1978 FSL & 1930 FEL, Sec. 23 T15S R29E, Chaves County.

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Sincerely,

Mack Energy Corporation

eana weaver

Deana Weaver Regulatory Technician II

DW/





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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3180 Return Receipt Requested

Chisos LTD 1331 Lamar St. Ste. 1077 Houston, TX 77010-3135

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 10,985-11,525'. The Labrador SWD #1Y located 1978 FSL & 1930 FEL, Sec. 23 T15S R29E, Chaves County.

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Sincerely,

Mack Energy Corporation

ana Wlaver

Deana Weaver Regulatory Technician II

DW/





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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3197 Return Receipt Requested

Apache Corporation 2000 Post Oak Blvd Ste 100 Houston, TX 77056-4400

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 10,985-11,525'. The Labrador SWD #1Y located 1978 FSL & 1930 FEL, Sec. 23 T15S R29E, Chaves 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

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Deana Weaver Regulatory Technician II

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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3203 Return Receipt Requested

Energy Reserves Group LLC 333 Clay St Ste 4400 Houston, TX 77002-4105

To all Interest Owners:

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October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3210 Return Receipt Requested

Caza Petroleum LLC 16945 NorthChase Dr. Ste 1430 Houston, TX 77060-2133

To all Interest Owners:

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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3227 Return Receipt Requested

Wise Oil & Gas No 8 LTD 6851 NE Loop 820 Ste 200 North Richardland Hills, TX 76181-6641

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October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3234 Return Receipt Requested

Read & Stevens Inc 400 N. Pennsylvania Ste 1000 Roswell, NM 88201

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October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3241 Return Receipt Requested

Bam Permian Operating LLC 4418 Briarwood Ave Ste 110 PMB 53 Midland, TX 87508

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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3258 Return Receipt Requested

Occidental Permian LP 5 Greenway Plz Ste 110 Houston, TX 77046-0521

To all Interest Owners:

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Deana Weaver Regulatory Technician II

DW/





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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3265 Return Receipt Requested

EOG Resources INC 105 S. 4<sup>th</sup> Street Artesia, NM 88210-2177

To all Interest Owners:

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

October 18, 2023

Via Certified Mail 7022 2410 0002 1825 3272 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 Mack Energy Corporation's application for a Devonian SWD well. Produced water will be injected at a proposed depth of 10,985-11,525'. The Labrador SWD #1Y located 1978 FSL & 1930 FEL, Sec. 23 T15S R29E, Chaves County.

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Sincerely,

Mack Energy Corporation

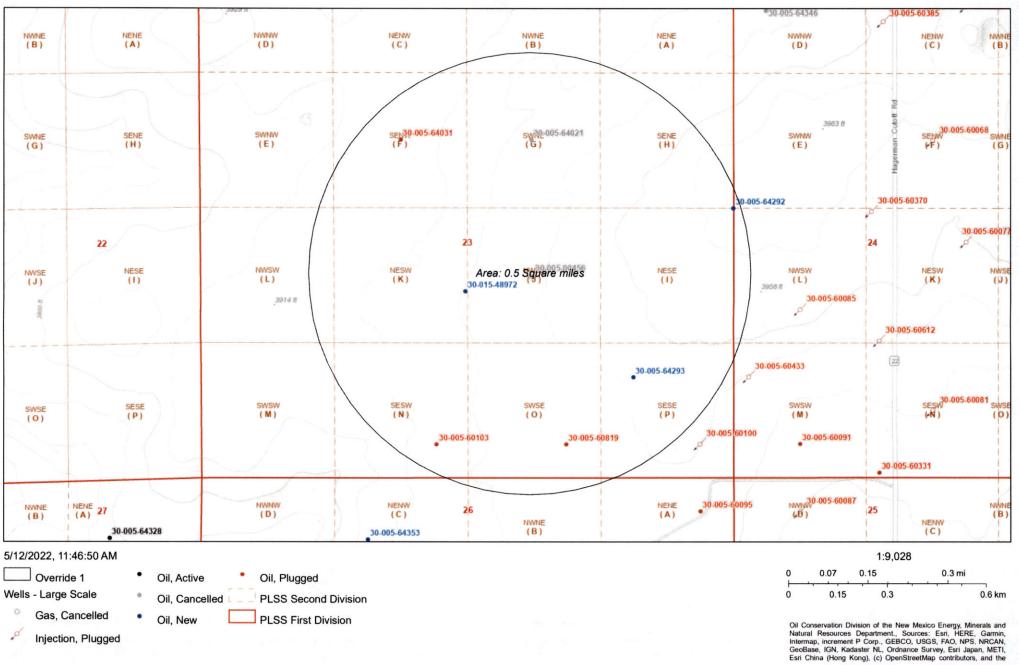
ana Weaver

Deana Weaver Regulatory Technician II

DW/

Attachments

### **OCD Well Locations**



Injection, Plugged

New Mexico Oil Conservation Division

### **OCD Well Locations**

Page 39 of 103



3/15/2022, 11:21:36 AM							1:36,112	
Override 1		Gas, Temporarily Abandoned	۵	Salt Water Injection, New	0	0.35	0.7	1.4 mi
Wells - Large Scale	ø	Injection, Active		Salt Water Injection, Plugged	L o	0.5	1	2 km
7 undefined	ø	Injection, Cancelled	•	Salt Water Injection, Temporarily Abandoned		0.5		
Miscellaneous	ø	Injection, New		Water, Active				
* CO2, Active	ø	Injection, Plugged		Water, Cancelled				
CO2, Cancelled	4	Injection, Temporarily Abandoned	•	Water, New				
* CO2, New	•	Oil, Active	•	Water, Plugged				
* CO2, Plugged		Oil, Cancelled		Water, Temporarily Abandoned				
CO2, Temporarily Abandoned	•	Oil, New		OCD Districts				
Gas, Active	•	Oil, Plugged	*	OCD District Offices				
Gas, Cancelled		Oil, Temporanily Abandoned		PLSS First Division				
Gas, New	۵	Salt Water Injection, Active		PLSS Townships				Division of the New Mexico as Department., OCD, Maxar,
Gas, Plugged		Salt Water Injection, Cancelled			BLM	y, minerals and	Natural Resource	es organizatione, OCO, Maxai,

New Mexico Oil Conservation Division Released to Imaging: 12/13/2023 10:45:54 AM<sup>2</sup> lap. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306184de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

## **OCD Well Locations**

30-005-62558 • NENW (C)	30 00 5 60 180	30-005-0 NEINE 30-0 (A) 3953 ft	0448 05-01405)	NENW (C)	NWNE (B)	NENE (A)	30-005-1( NWNW ( D )	1430 NENW (C)		-62504 0-005 <mark>(628</mark> 1)
SENW (F)	SWNE (G)	SENE (H)	Sw <mark>30-005-6</mark> (E)	0228 SENW (F)	SWNE (G)	SE[30-005-6 (用)	0301 SWNW (E <sup>3938</sup> ft	agerman Cutoff R	SWNE (G)	SENE (H)
NE30:005-004	15 449 NWSE (J)	NESE (1)	NWSW (L)	NESW (K)	14 NWSE (J)	NESE (1)	NWSW 30-00 (L)	13 5-60335 NEE30-005-1 ( R )	0577 <sub>NWSE</sub> 30 (J)	0-005 <u>;600</u> 7
SESW (N) 30-005-64308	SWSE (0)	SESE (P)	swsw (M)	SESW (N)	swse (0)	30-005-64352 • (P)	swsw (M) 30 <sup>1</sup> 0	SESW 1	05-61745 30 SWSE 30 05-60106 30	0-005-6005
NENW (C)	NW30-005-0 (B)	0454 NENE (A)	3929381W • (D)	NEN30-005 (C)	62296 <mark>30-005-6432</mark> NW30-005- (B)	4 62275 NENE (A)	30/005164346 * (D)	30.005/60385 (C)	05-60073 3	0 005 6005 0 005 6004 NENE ( A )-
SENW 30 005-6021	SWNE (G)	SENE (H)	SWNW (E)		64031 <u>SW30</u> -005-1 (G)	All Charles	3963 /t (E) 30-005-64292	30-005-6 SENW (F) 30-005-60370	lo,	60064 0 00 <u>5 600</u> 6 ( H )
• NESW • (K) 3864 ft	NWSE (+)	NESE (1)	NWSW (L) <sub>3914 ft</sub>	NESW (K)	30-015 972 155 29E	00456 NESE (1)	o 130-005-6	24 30.1 NESW 0085 (K) 30.005-60612	005-60077 30-00 NWSE (J) 30 (J) 30	5-60070 NESE 0-005 <sup>1</sup> 6009
30-005-60381 SESW (N)	swse (0)	SESE (P)	SWSW (M)	SESW 30-005-6010	SWSE (0) 330-005-64370 <mark>30</mark> -	30-005-64293 SESE 005-60819 0	30-005-60433 SWSW 05-60100130-005-60	2 30-005-4 SESW 091 (N) 30-005-60331	30-05-603 50081 SWSE O)	18 SESE (P)
30-005-60122 NE50/005-64 ( C )	30-005-6432 1370 MWNE (B)	30-005-6432 •NENE (A)	8 <sub>NWNW</sub> (D)	30-005-6435 • NENW (C)	3 NWNE	30-0 NENE 0-005-60101	05-60095 30-005-6 NWNW ( D )	NENW (C)	NWNE (B)	NENE (A)
SENW (F) 30-0		SENIE (H)	SWNW (E)	SENW (F) 30	SWINE 005-60139 30	30-005-6011 ,0 SENE (H) 005-60120	5 30-005-60 SWNW (E)	SENIN	SWNE (G) 05-00457	SENE (H)
NESW (K) 3825 ft	27 NWSE (J)	NESE (1)	NWSW (L) 30-0	NESW [K]30-00 005-62537	30-005-6021 <u>NW30-005-</u> 05-60194 J )	7 60130 mese (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)
se <u>30</u> :005-00 (N)	0458 swse (0)	SESE	05-60212 30-0 SWSW (M) 05-60218	05-60206 SESW (N)	SWSE (0)	SESE (P)	. <sup>3902</sup> (WSW (M)	Hager man Cutoff	swse 3 (0)	0 00 <u>5 622</u> (P)
NENW (C)	NWNE 34 (B) 34	NENE (A)	05-60209 30-005-6021 ( D ) -005-64113	nenw (C)	35 NWNE (B)	1 NENE (A)	NWNW (D) 30.005-64056	RENW (C) 36	NWNE (B)	NENE (A)
10/16/2023, 8			100070320					1:18,056		
Vells - Large			• Oil, New				0 0	.17 0.35		0.7 m
Gas, Ca	ancelled n, Plugged		<ul> <li>Oil, Plug</li> <li>undefine</li> </ul>				0 0	.28 0.55		1.1 km
<ul><li>Injectio</li><li>Oil, Act</li></ul>	n, Temporaril	y Abandoned	PLSS Se	econd Divisior rst Division	1		Universi SafeGra	mmunity Maps Co ty, Texas Parks & ph, GeoTechnologi PS, US Census Bur	Wildlife, Esri, HE es, Inc, METI/N/	RE, Garmin ASA, USGS

New Mexico Oil Conservation Division Released to Imaging: 12/13/2023 10.45.544 Am/lap. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

### **OCD Well Locations**

Page 41 of 103

NENW (C)	(B)	NENE 3953 (A)	NWNW (D)	NENW (C)	NWNE (B)	NENE (A)	NWNW (D)	NENW (C)	NWNE (B)	(A)
SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWNE (G)	SENE (H)	SWNW (E) <sup>3938 ft</sup>	Hagerman Cutoff Rd	SWNE (G)	SENE (H)
NESW (K)	15 NWSE (J)	NESE (1)	NWSW (L) Chase	NESW (K)	NWSE (J)	serves Group LLC NESE (1) troleum LLC	NWSW (L)	13 NESW (K)	NWSE (J)	NESE (1)
SESW (N)	SWSE (0)	SESE (P) Read Stevens Inc	Chase swsw (M)	Oll SESW (N)	Wise Oll & G		Chase Oil SWSWChase O (M)		SWSE (0)	SESE (P)
NENW (C)	NWNE (B)	erves Group LLC NENE (A) roleum LLC	. з <i>эр</i> урим * (D)	NENW (C) Chase (	NWNE (B) Dil	NENE (A)	NWNW (D) Chase Oll	NENW (C)	NWNE (B)	NENE (A)
SENW (F)		o; Gas No 8 LTD SENE (H)	swiw (E)	SENW (F) Chas	SWNE G)	SENE (H)	3963/ SWMW Chase Oil	SENW (F) Chase		SENE (H)
NESW (K) 3864 ft	NWSE (J)	NESE (1)	NWSW (L) 3914ft	NESW (K)	NWSE (J) ISE OII 155 29E	NESE (1)	Chase Oil	Pa Chase Chase (K) NESW (K)	Dil NWSE (J)	NESE (1)
SESW (N)	swsiChase (0)	OII SESE	SWSW (M)	Cha SESW (N)	se Oli SWSE ( 0 )	SESE (P)	Chase Oli SWSW (M)	SESW (N) Chas	e Oil SWSE (0)	SESE (P)
NENW (C)	NWNE (B)	NENE (A)	NWNW (D)Chisos	e Corp LTD (C) er Resources Inc	CI NWNE (B)	nase Oll NENE (A)	Occidental Permi NWNW (D)	NENW (C)	NWNE (B) G Resources Inc	NENE (A)
SENW (F)	Bam SWNE (G)	Permian Operating SENE ( H )	SWNW (E)	SENW (F)	SWNE (G) Cha	SENE (H) ase OII	EOG Resources In SWNW (E) EOG	c SENW (F) Resources Inc	SWNE (G)	SENE (H)
NESW (K) <sub>3825</sub>	NWSE ft (J)	NESE (1)	Apache NWSW Chiso (L) Cross Border		NWSE Chas (J)	e OII NESE (1)	NWSW (L)	25 NESW (K)	NWSE (J)	NESE (1)
SESW (N)	SWSE (0)	SESE (P)	swsw (M)	SESW (N)	SWSE (0)	SESE (P)	* <sup>3902</sup> #vsw (M)	Hagerman Cutof	swse (0)	SESE (P)
NENW (C)	NWNE (B) 34	NENE (A)	3861 NWNW (D)	NENW (C)	NWNE (B) 35	NENE (A)	NWNW (D)	NENW (C) 36	NWNE (B)	NENE (A)
Areas Ove	3, 9:37:56 AN	Override 4       Override 5       Override 6	PLSS Fir	cond Division st Division	SWNE (G)	1 SENE (H)			35 	

Released to Imaging: 12/13/2023 10:45:54 AM

### 30-005-64346 NWNW NENW NWNE NENE NWNW NENE NENW NWN (B) NWNE (D) (C) (B) (A) (A) (D) (B) (C) SEN30-005-64031 (F) 30-005-60068 SENW 3963 ft SW30-005-64021 (G) SWNW SENE SWNW SENE (H) SWN SWNE (E) (H) (E) (F) (G) (G) 30-005-64292 30-005-60370 30-005-6007 23 ø 24 22 NWSW NESW NESE NWSW NESE Area: 0.5 Square miles NESW NWS NWSE (L) (K) (1) (L) (K) (1) 30-015-48972 () (J) 3958 # 30-005-60085 3914 ft 30-005-60612 23 30-005-60433 30-005-64293 30-005-60081 SESW (N) SWSE SESE SWSW SWSW SESE SWS (D) SWSE (P) (M) LN (M) (P) (0) 30-005-60091 30-005-60103 30-005 60100 30-005-60819 ø 30-005-60331 NWNW 30-005-60087 30-005-60095 NWNW NENW (C) NENE (A) 27 NWN NWNE 26 25 (A) (Đ) (D) (B) (B) NWNE NENW 30-005-64328 30-005-64353 (B) (C) 1:9,028 5/12/2022, 11:46:50 AM 0.07 0.15 0 0.3 mi Override 1 ٠ Oil, Plugged Oil, Active 0.15 0 0.3 Wells - Large Scale 0.6 km PLSS Second Division Oil, Cancelled Gas, Cancelled ٠ **PLSS First Division** Oil, New Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, P Injection, Plugged

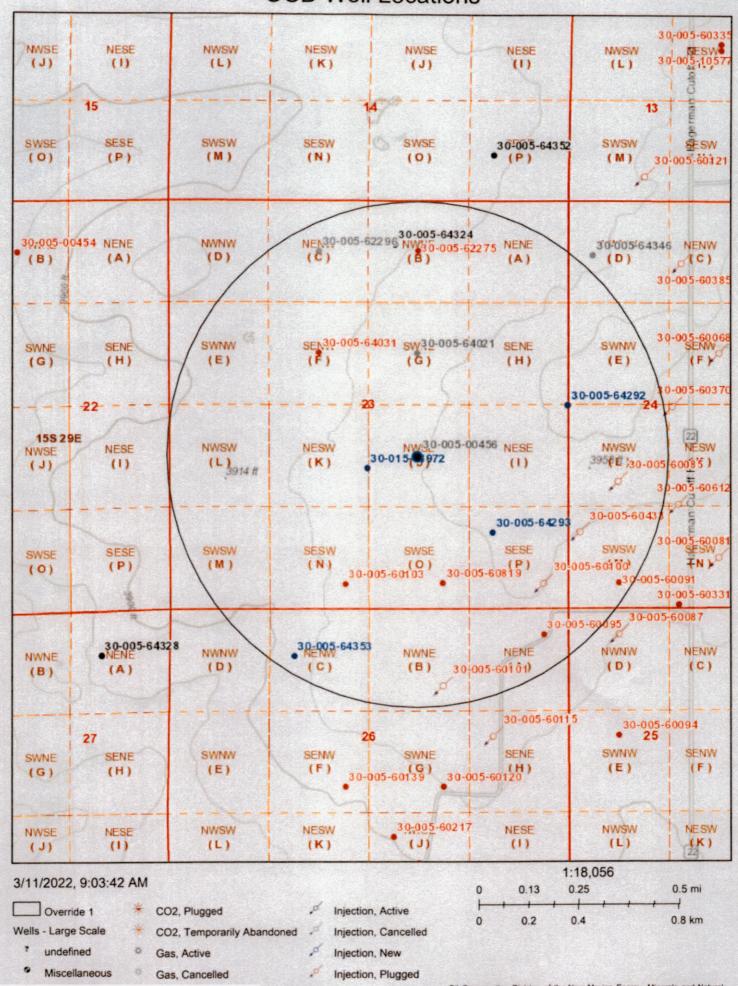
### **OCD Well Locations**

New Mexico Oil Conservation Division

Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the

**OCD Well Locations** 

Page 43 of 103



Released to Imaging: 12/13/2023 10:45:54 AM

Oil Conservation Division of the New Mexico Energy, Minerals and Natural

### **OCD Well Locations**



3/10	12022, 11.21.00 MM							and the second	
	Override 1		Gas, Temporarily Abandoned	4	Salt Water Injection, New	0	0.35	0.7	1.4 mí
Wells	- Large Scale	\$	Injection, Active		Salt Water Injection, Plugged	0	0.5	1	2 km
,	undefined	A	Injection, Cancelled	•	Salt Water Injection, Temporarily Abandoned				
•	Miscellaneous	ø	Injection, New	٠	Water, Active				
*	CO2, Active	ø	Injection, Plugged		Water, Cancelled				
*	CO2, Cancelled	1	Injection, Temporarily Abandoned		Water, New				
*	CO2, New	•	Oil, Active	•	Water, Plugged				
*	CO2, Plugged		Oil, Cancelled		Water, Temporarily Abandoned				
*	CO2, Temporarily Abandoned	•	Oil, New		OCD Districts				
0	Gas, Active	•	Oil, Plugged	*	OCD District Offices		The second		
0	Gas, Cancelled	•	Oil, Temporarily Abandoned		PLSS First Division				
ø	Gas, New	4	Salt Water Injection, Active		PLSS Townships				sion of the New Mexico epartment., OCD, Maxar,
9	Gas. Plugged		Salt Water Injection, Cancelled			BLM			

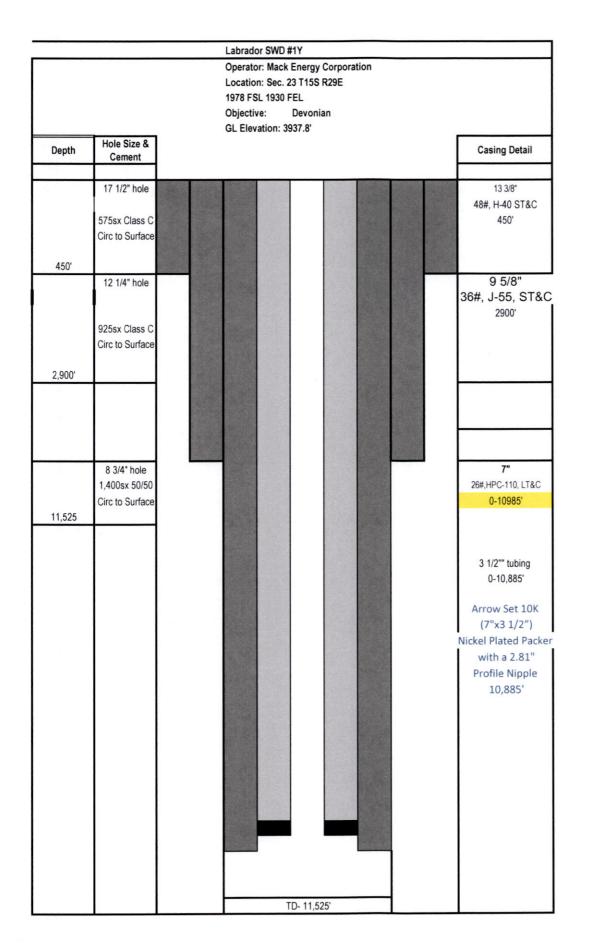
New Mexico Oil Conservation Division
Released to Imaging: 12/13/2023 10:45:54 AM lap. http://nm-emirid.maps.arcgls.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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

Operator Mack Energy Corporation	Well Name Labrador SWD #1Y	API# 30-005-64374	County Chaves	Footage 1978 FSL 1930 FEL	Sec 23	TWN 15S	RNG 29E	Type SWD	Status Not Drilled	Spud Date C	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Casing Prog	Cement
Mack Energy Corporation	Labrador SWD #1	30-005-64374	Chaves	1980 FNL 1980 FWL	23	15S	29E	Oil (Dry Hole)	) P&A 3/18/2009	12/26/2008 3/18	3/2009	1900'	1900'	Unders Sulimar; Queen		13 3/8" @40' 8 5/8" @ 370'	350sx
Mack Energy Corporation	Sarilyn Federal #1	30-005-64370	Chaves	330 FSL 1650 FEL	23	15S	29E	Oil (Dry Hole)	P&A 12/10/2022 35sx @ 4018'	12/8/2022	12/10/2022	4018'		San Andres		8 5/8" @ 423'	200sx
									45sx 3993' 50sx @ 3967'								
									70sx @ 3923' 60sx @ 1250'								
									37sx @ 503' 104 @ 92-Surface Circ 42sx								
Jack L McClellan	Getty Federal #1	30-005-60103	Chaves	330 FSL 2310 FWL	23	15S	29E	Oil (Dry Hole)	P&A 12/28/1969 Plug @ 1815-1915 Plug @ 965-1065'	11/23/1969 12/2	23/1969	1915	1915	Undesignated		8 5/8" @ 387'	50sx
									Plug @ 328-428' Plug @ 175 to Surface								
Mack Energy Corporation	Powell River Federal Com #1H	30-005-64352	Chaves	602 FSL 990 FEL	14	15S	29E	Oil Well		7/20/2021 6/28	2/2021	9025'/3501'TVD	9076/2501/TV/D	San Androa	3497-3501' TVD	12 2/0" @ 252	41700
Mack Energy Corporation	Fowell River Federal Colli #1H	30-003-04352	Chaves	002 F3L 990 FEL	14	155	290	Oli weli	Producing	7720/2021 0/20	0/2021	90237330114D	6970/33011VD	San Andres	3497-3301 17D	9 5/8" @ 1230'	417sx 848sx
																7" & 5 1/2" @ 9025'	1240sx
NM Institute of Mining & Tech	n Sulimar Queen Unit #9	30-005-60121	Chaves	330 FSL 990 FWL	13	3 15S	29E	Oil Well	P&A 2/20/2006 25sx @ 1715-1921' Perf @ 1193'	4/24/1970	5/15/1970	1995'	1992'	Queen	1958-1970'	8 5/8" @ 317' 5 1/2" @ 1992'	100sx 150sx
									40sx @ 848-1243' Pull 406' 5 1/2" Csg								
									60sx @ 237-465' 20sx @ 60' to Surface								
Mack Eporal Compretian	Maple Ridge Federal #1H	30-005-64324	Chaves	565 FNL 2285 FEL		8 15S	29E	Oil Well		3/18/2019	7/10/0010	8940'/3424' TVD	90101/3404iT	San Andros	3794-8824'	13 3/8" @ 352'	350sx
Mack Energy Corporation		30-003-04324	Chaves	505 FINE 2205 FEL	23	100	295	On Wen	Producing	5/16/2019	1/12/2019	694073424 TVD	091273424 TVD	San Andres	3794-0024	9 5/8" @ 1206' 7" @ 3505' 5 1/2" @ 3505-8940'	405sx 315sx
														<b>a</b>			1400sx
Pre-Ongard Well Operator	Pre-Ongard Well #1	30-005-62275	Chaves	660 FNL 1980 FEL	23	3 15S	29E	Oil Well Dry Hole	P&A 1/22/1986 35sx @ 3500'	6/26/1985	9/4/1985	3800	3800'	San Andres	3391-3489'	8 5/8" @ 410' 4 1/2" @ 3800'	250sx 850sx
									25sx @ 1600-1950' 25sx @ 300-500'								
									50sx 350' 10sx to surface								
NM Institute of Mining & Tech	Sulimar Queen Unit #12	30-005-60385	Chaves	810 FNL 1490 FWL	24	15S	29E	Injection	P&A 2/15/2006	6/17/1976	8/1/1976	2012'	2000'	Queen	1960-1970'	8 5/8" @ 380'	100sx
									25sx @ 1675-1921' Perf @ 1277'							5 1/2" @ 2010'	150sx
									25sx @ 1093-1323'								
									Pull 475' 5 1/2" csg 60sx @ 328-535'								
									20sx @ 60' to Surface								
EOG Y Resources Inc	Carthel BGT Federal #3	30-005-64031	Chaves	1980 FNL 1980 FWL	23	15S	29E	Oil Well	P&A 3/18/2009	12/26/2008	3/18/2009	1900'	1900'	Queen		13 3/8" @ 40'	
									80sx @ 1524' 40sx @ 300'							8 5/8" @ 370' 7 7/8" hole @ 370-190	0' openhole
									Surface Plug								
NM Institute of Mining & Tech	n Sulimar Queen Unit #2	30-005-60068	Chaves	1980 FNL 1980 FWL	24	15S	29E	Injection	P&A 3/28/2006	3/10/1969	4/5/1969	2008'	2004'	Queen	1968-1982'	8 5/8" @ 390'	50sx
									25sx @ 1950' 25sx @ 1874-1950'							5 1/2" @ 2005'	150sx
									25sx @ 1798-1874'								
									Perf @ 1270' Squ 80sx @ 972-1270'								
									Pull 467' 5 1/2" Csg								
									60sx @ 332-512 Perf @ 258'								
									35sx @ 211-315' 60sx @ 22-189'							-	+
						-			10sx @ 22' to Surface								
NM Institute of Mining & Tech	n Sulimar Queen Unit #11	30-005-60370	Chaves	2615 FSL 1370 FWL	24	15S	29E	Injection	P&A 3/24/1986	2/2/1976	3/1/1976	2015'	2009'	Queen	1970-1980'	8 5/8" @ 387'	200sx
				+					30sx @ 1980' 25sx @ 450'							5 1/2" @ 2014'	150sx
			-			1	1		Circ cmt @ 60' to surface								
									50sx between 5 1/2" & 8 5/8" csg								
NM Institute of Mining & Tech	Sulimar Queen Unit #4	30-005-60077	Chaves	2410 FSL 2310 FWL	24	15S	29E	Injection	P&A 4/17/2006	6/13/1969	7/2/1969	2012'	2005'	Sulimar	1975-1988'	8 5/8" @ 383'	50sx

							25sx @ 1828-1922'							5 1/2" @ 2012'	150sx
							Perf @ 1290'								
							40sx @ 976-1354'								
					_		Pull 431' of 5 1/2" csg 60sx @ 283-478'								
							Perf @230'								
							30sx @ 150-264'								
							Perf @ 90'								
					_		SQU 100sx @ 3-90' 2sx @ 2' to surface								
							232 @ 2 10 3011000								
NM Institute of Mining & Tech Sulimar Queen Unit #6	30-005-60085	Chaves 16	50 FSL 660 FWL 2	4 15S	29E	Oil Well	P&A 5/4/2006	8/6/1969	8/27/1969	2003'	1999'	Queen	1967-1975'	8 5/8" @ 390' 5 1/2" @ 2003'	50sx
							50sx @ 1953'							5 1/2" @ 2003'	150sx
							65sx @ 1953' 25sx @ 1649-1890'								
							Perfs @ 1276'								
							45sx @ 955-1323'								
					_		Pull 424' of 5 1/2" csg								
							60sx @ 257-535' 20sx @ 60' to Surface								
NM Institute of Mining & Tech Sulimar Queen Unit #14	30-005-60612	Chaves 13	45 FSL 1450 FWL 2	4 15S	29E	Injection	P&A 4/28/2006	2/23/1980	3/7/1980	2010'	2001'	Queen	1970-1978'	8 5/8" @ 406'	230sx
					_		25sx @ 1780-1953' Perfs @ 1276'							4 1/2" @ 2010'	200sx
					-		30sx @ 896-1323'								
							Pull 397' of 4 1/2" Csg								
		+ $ -$			-		75sx @ 270-535'	+							
	-	+		-	-	+	20sx @ 60' to Surface	+ +							
NM Institute of Mining & Tech Sulimar Queen Unit #6	30-005-60318	Chaves 99	0 FSL 2310 FEL 2	4 15S	29E	Oil Well	P&A 6/6/2006	10/5/1974	11/12/1974	2024'	2005'	Queen	1988-1994'	10 3/4" @ 30'	1 1/2 yds Circ
							25sx @ 460-690'							5 1/2" @ 2023'	150sx
		+		-			Holes in casing @ 220-250'								
		+		+	+	+	SQZ 160sx @220' to Surface	+ +				+			
NM Institute of Mining & Tech Sulimar Queen Unit #5	30-005-60081	Chaves 66	0 FSL 1980 FWL 2	4 15S	29E	Injection	P&A 4/24/2006	7/6/1969	7/26/1969	2020'	2015'	Queen	1976-1988'	8 5/8" @ 383'	50sx
							25sx @ 1938-1984'						2004-2006'	5 1/2" @ 2016'	150sx
					_		20sx @ 1738-1938'								
							Perfs @ 1280' 45sx @ 1221-1323'								
							Pull 336' of 5 1/2" Csg								
							50sx @ 380-504'								
							30sx @ 376-380'								
							Perfs @ 90' SQZ 100sx 3-90' 2sx @ 3' to Surface								
NM Institute of Mining & Tech Sulimar Queen Unit #13	30-005-60433	Chaves 99	0 FSL 150 FWL 2	4 15S	29E	Injection	P&A 5/9/2006	6/28/1977	8/5/1977	1975'	1973'	Queen	1955-1957'	8 5/8" @ 388' 5 1/2" @ 1975'	100sx Circ 150sx
							25sx @ 1710-1890' Perfs @ 1260							5 1/2 @ 19/5	TOUSX
							40sx @ 969-1323'								
							Perfs @ 420'								
							Pull 353' of 5 1/2" Csg 40sx @ 262-472'								
							20sx @ 60' to Surface								
Pre-Ongard Well Operator Pre-Ongard Well #10 NM Institute of Mining & Tech Sulimar Queen Unit #10	30-005-60331	Chaves 50	FSL 1450 FWL 2	4 15S	29E	Oil Well	P&A 7/21/1992	1/29/1975	2/16/1975	2025'		Queen		10 3/4" @30'	1 1/2 yards
VM Institute of Mining & Tech Sulimar Queen Unit #10							35sx @ 1780-2010' 35sx @ 910-1112'							5 1/2" @ 2025'	150sx
							Perf @ 400'								
							35sx @ 200-400'								
	-	+		-	-	-	Plug @ 60' to Surface								
NM Institute of Mining & Tech Sulimar Queen Unit #7	30-005-60091	Chaves 33	0 FSL 660 FWL 2	4 15S	29E	Oil Well	P&A 5/11/2006	9/14/1969	10/5/1969	1999'	1987'	Queen	1960-1967'	8 5/8" @ 382'	50sx
			-				25sx @ 1653-1890'		-					5 1/2" @ 1999'	150sx
		<u> </u>			+		Perfs @ 1270'	+							
	1	+		1			40sx 942-1323' Perfs @ 330'				-			-	
							SQZ 87sx @ 330' to Surface								
	00.005.0000			455	005				10/1011	100.4	1004		105	0.5/01.0.45.1	50
NM Institute of Mining & Tech Sulimar Queen Unit #2	30-005-60100	Chaves 33	0 FSL 330 FEL 2	3 15S	29E	Injection	P&A 3/24/1986 30sx @ 1820-1970'	11/14/1969	12/18/1969	1994'	1991'	Queen	1954-1964'	8 5/8" @ 364' 5 1/2" @ 1992'	50sx 150sx
	1	1 1					25sx @ 950-1050'					1		5 HE 00 100E	
			-				25sx @ 320-420'					1			
		+			+		15sx @ 60' to Surface	+ +							
		+		+		+	50sx between 8 5/8" & 5 1/2"								
Mack Energy Corporation Grand Forks Federal Com #2H	30-005-64328	Chaves 56	5 FNL 900 FEL 2	7 15S	29E	Oil Well	Producing	2/16/2019	3/29/2019	9012' 3422'TV	D 8978' 3442' TVD	San Andres	3819-8920'	13 3/8" @ 303'	1020sx
	+	+			-	_		+						9 5/8" @ 1193'	410sx
	1	+			+	+		+ +			-			7" @ 3542' 5 1/2" @ 3542-9005'	1820sx
	1	+ +		1	-	+	1	+ +			-	1		5 112 @ 3042-3000	
				0 450	29E	Oil Well	P&A 5/18/2006	10/17/1969	11/4/1969	2006'	1989'	Queen	1962-1972'	8 5/8" @ 392'	150sx
NM Institute of Mining & Tech Sulimar Queen Unit #1	30-005-60095	Chaves 33	0 FNL 330 FEL 2	6 15S	Z9E			10/11/1000	11/4/1909	2000	1000				
NM Institute of Mining & Tech Sulimar Queen Unit #1	30-005-60095	Chaves 33	0 FNL 330 FEL 2	0 155	295	On Wen	25sx @ 1733-1984'	10,1111000	11/4/1909	2000	1000			4 1/2" @ 2006'	150sx
NM Institute of Mining & Tech Sulimar Queen Unit #1	30-005-60095	Chaves 33	0 FNL 330 FEL 2	0 105	295				11/4/1909	2000				4 1/2" @ 2006'	150sx

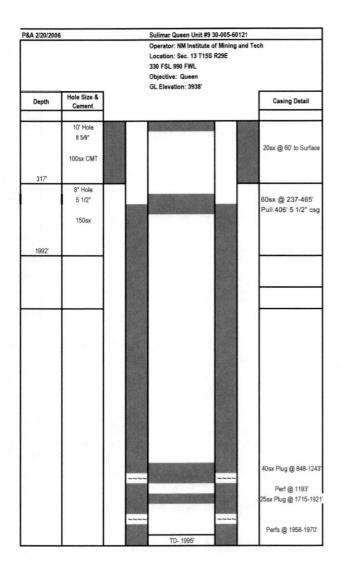
	1			1					Pull 338' of 4 1/2" Csg								
1			1				+	-	40sx @ 251-480'	+ +							
									25sx @ 60' to surface								
NM Institute of Mining & Tech	Sulimar Queen Unit #1	30-005-60087	Chaves	330 FNL 660 FWL	25	15S	29E	Injection	P&A 5/16/2006	8/25/1969	9/14/1969	1995'	1980'	Queen	1958-1970'	8 5/8" @ 385'	50sx
									25sx @ 1850-1953'							4 1/2" @ 1996'	150sx
									Holes @ 1764-1850'								
									25sx @ 1649-1827'								
							-		Perfs @ 1254'								
+			-						30sx @ 900-1323' Pull 435' of 4 1/2" Csg								
+									55sx @ 330-441'								
									Holes in 8 5/8" csg 150'+-								
									SQZ 95sx @ 14-150'								
									5sx @ 14' to Surface								
NM Institute of Mining & Tech	Sulimar Queen Unit #2	30-005-60101	Chaves	990 FNL 1650 FEL	26	15S	29E	Injection	P&A 5/23/2006	11/26/1969	1/2/1970	1986'	1962'	Queen	1940-1952'	8 5/8" @ 405'	75sx
									75sx @ 1531-1890'							4 1/2" @ 1980'	150sx
			_						Pull 1219' of 4 1/2" csg								
									55sx @ 838-1260'								
									40sx @ 348-472' 30sx @ 90' to Surface								
<u> </u>			1				+	1	SUSA (W SU TO SUITADE	+ +							
Pre-Ongard Well Operator	Pre-Ongard Well #2	30-005-60094	Chaves	1650 FNL 660 FWL	25	15S	29E	Dry	P&A 10/23/1969	10/4/1969	10/23/1969	2014'		Queen		8 5/8" @ 381	50sx
Pan American Petroleum Corp					_0				50sx @ 1837-2014								
									20sx @ 1020-1090'								
									30sx @ 381'								
									10sx to Surface								
								-						-			
NM Institute of Mining & Tech	Sulimar Queen Unit #1	30-005-60115	Chaves	1650 FNL 990 FEL	26	15S	29E	Oil Well	P&A 05/26/2006	3/17/1970	4/5/1970	2005'	1994'	Queen	1973-1982'	8 5/8" @ 425'	175sx
									50sx @ 1842-1984'							5 1/2" @ 2004'	135sx
							-		Perfs @ 1250' 45sx 935-1323'								
									Pull 456' of 5 1/2" csg								
+									50sx @ 368-504'								
1									20sx @ 60' to Surface								
Pre-Ongard Well Operator	Pre-Ongard Well #1	30-005-60139	Chaves	2310 FNL 2310 FWL	26	15S	29E	Dry	P&A 10/8/1970	9/18/1970	10/8/1970	2113'		Queen		8 5/8" @ 411'	275sx
									28sx @ 1850-1950'								
									28sx @ 1135-1035'								
									28sx @ 364-465'								
									10sx @ Surface								
hind bastitute of Minima & Tash	Outine on Oursen Linit #0	20.005.00400	Ohavaa		00	450	005	0:114/-11	D8 A C/02/2020	E (47/4070	0/47/4070	40041	40751	0	4054 40001	0.5/01 @ 404	475
NM Institute of Mining & Tech	Sulimar Queen Unit #2	30-005-60120	Chaves	2310 FNL 1650 FEL	20	15S	29E	Oil Well	P&A 6/02/2006 25sx @ 1732-1890'	5/17/1970	6/17/1970	1991	1975'	Queen	1954-1963'	8 5/8" @ 421 5 1/2" @ 1985'	175sx 130sx
									Perf @ 1255'							5 1/2 (@ 1905	1303
1									50sx @ 651-1260'								
									Pull 433' of 5 1/2" csg								
									55sx @ 426-505'								
									30sx @ 238-413'								
									20sx @ 60' to Surface								
			-			1.00				-							
NM Institute of Mining & Tech	Sulimar Queen Unit #3	30-005-60217	Chaves	2310 FSL 2310 FEL	26	15S	29E	Oil Well	P&A 5/31/2006 25sx @ 1539-1858'	6/4/1972	7/7/1972	1975'	1974'	Queen	1938-1948'	8 5/8" @ 250' 4 1/2" @ 1975'	100sx
			+				-	-	25sx @ 1539-1858' Perfs @ 1238'	++				-		4 1/2" @ 19/5'	150sx
+			+				+	1		++				-			
+							+	1	30sx @ 854-1291' Pull 320' of 4 1/2" Csg	+ +				-		-	
+			+					-	55sx @ 238-378'	++				-		-	
1							1		67sx @ 238' to Surface								
	Pre-Ongard Well #3	30-005-60130	Chaves	1980 FSL 1980 FEL	26	15S	29E	Dry	P&A 7/27/1970	6/29/1970	7/16/1970	1997'		Queen		8 5/8" @ 421'	175sx
	Snyder Federal #3								35sx @ 1885-1995'								
I							1		35sx @ 1150-1260'								
			+				1	-	35sx @ 375-430'					-			
			+				-	-	10sx @ 30' to Surface	++				-			
lł	1	1	1				1										-

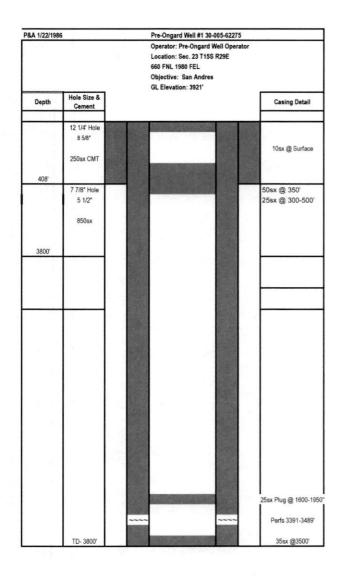


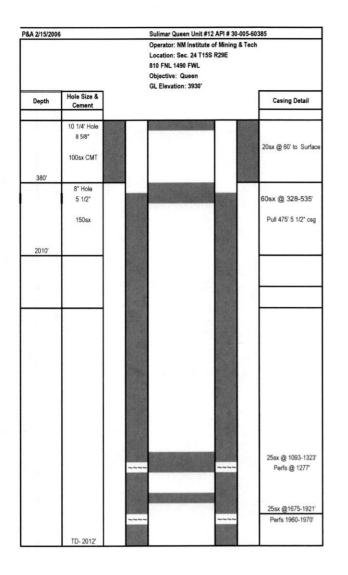
kA 3/18/200			Labrador SWD #1 30-0 Operator: Mack Energy Location: Sec. 23 T15S 1978 FSL 1980 FEL Objective: GL Elevation: 3937.4'	Corporation	
Depth	Hole Size & Cement				Casing Detail
	17 1/2" hole 13 3/8" Set in 9/9/61 400sx CMT Circ to Surface				Plug @ Surface w/ 10sx CMT Plug @ 500-400 w/ 30sx CMT
2888'	12 1/4" hole 9 5/8" Set in 9/16/61 1000sx CMT TOC @ 354'				
		~~~~	~~ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×××××	Perf 1919-1936" CIBP 1972 w/ 2sx CMT Plug @ 1893-199
	8 3/4" hole				Plug @ 2838-2938 w/35sx cmt
12,166'					Plug @ 3995-409 w/ 30sx cmt
					Plug @ 6105-620 w/ 30sx cmt
	230				Plug @ 7445-754 w/ 30sx cmt
					Plug @ 8400-8600 w/ 30sx cmt
					Plug @ 9639-9739 w/ 30sx cmt
					Plug @ 10150-102 w/ 30sx cmt
					Plug @ 10935-1103 w/ 30sx cmt
					Plug @ 11742-118 w/ 30sx cmt
			TD- 12,166'	4	

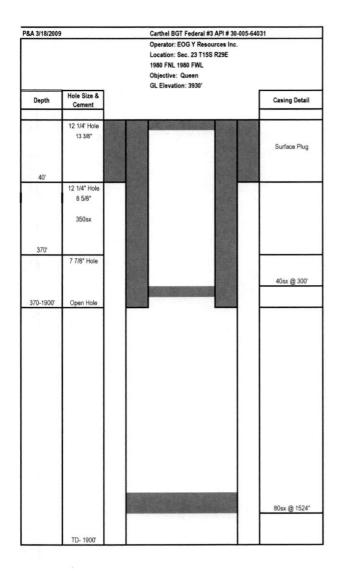
P&A 12/10/202	22		Sarilyn Federal #1 30-00	5-64370	
			Operator: Mack Energy C Location: Sec. 23 T15S F	Corporat	ion
			324 FSL 1639 FEL		
			Objective: San Andres		
			GL Elevation: 3937'		
Depth	Hole Size & Cement				Casing Detail
	10' Hole				Plug @ Surface
	8 5/8"				w/ 42sx CMT
	Set in 12/6/1980				104sx Plug @ 92'
	200sx CMT				
1001	Circ to Surface				
423'	7 7/8" Hole				
	1				
4018'					
4018					
			5		
					37sx Plug @ 503'
					575X Flug @ 505
					60sx Plug @ 1250'
					70 51 0 00001
					70sx Plug @ 3923'
					50sx Plug @ 3967'
					45sx Plug @ 3993'
					35sx Plug @ 4018'
		-			
			TD- 4018'		

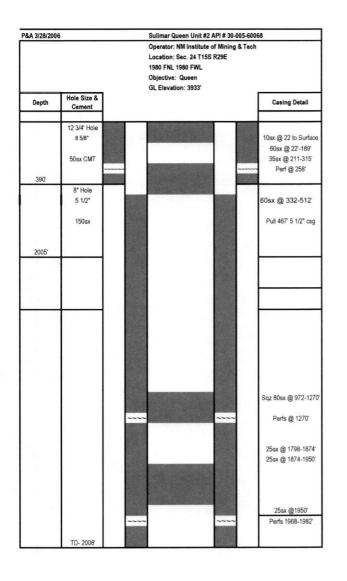
P&A 12/28/19	69	Getty Federal #1 30-005-60103	3
		Operator: jack L McClellan Location: Sec. 23 T15S R29E 330 FSL 2310 FWL Objective: Undesignated GL Elevation: 3920'	
Depth	Hole Size & Cement		Casing Detail
	12 1/4* Hole 8 5/8*		Plug @175' to Surface
387'	50sx TOC @ 143' 8" Hole		
	o Hole		
1915'			
			Plug @ 328-428'
			Plug @ 965-1065'
		TD- 1915"	Plug @ 1815-1915'



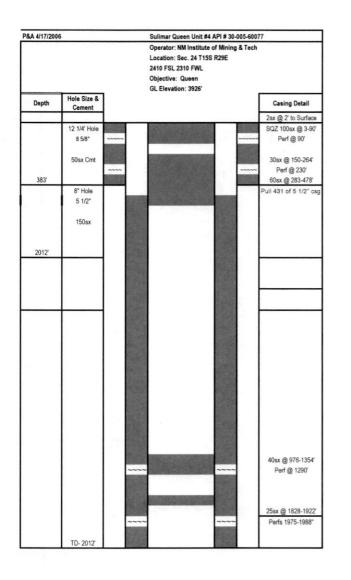


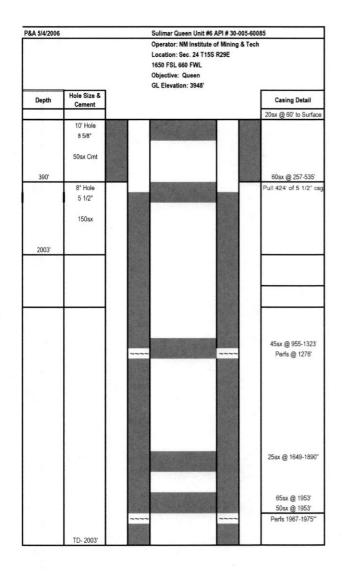


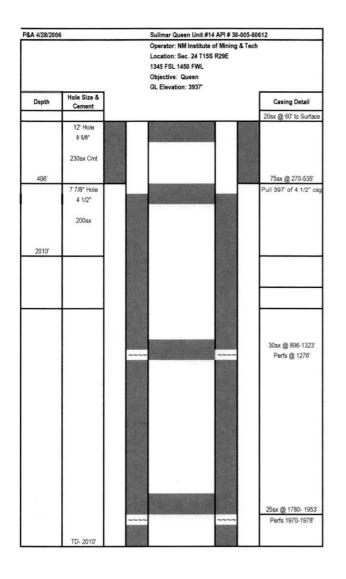




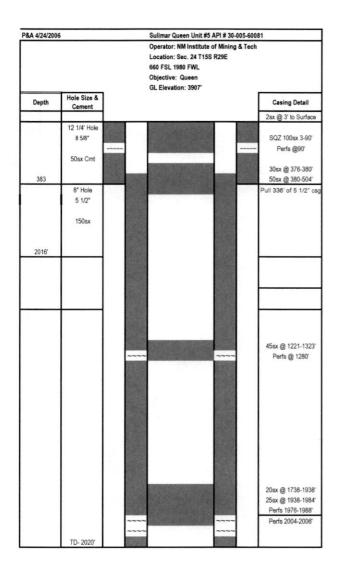
&A 3/24/198	6		Sulimar Queen Unit #1 Operator: NM Institute	
			Location: Sec. 24 T15 2615 FSL 1370 FWL	an
			Objective: Queen GL Elevation: 3536'	
Depth	Hole Size & Cement			Casing Detail
1	10 3/4' Hole 8 5/8"			
	200sx CMT			Cmt Plug @60' to Surfa
387	8* Hole 5 1/2*			25sx @ 450'
	150sx			50sx between 5 1/2 & 8 5/8" csg
2014'				
1				
				30sx @ 1980'
			~	 Perfs 1970-1980'
	TD- 2015'	ain à		

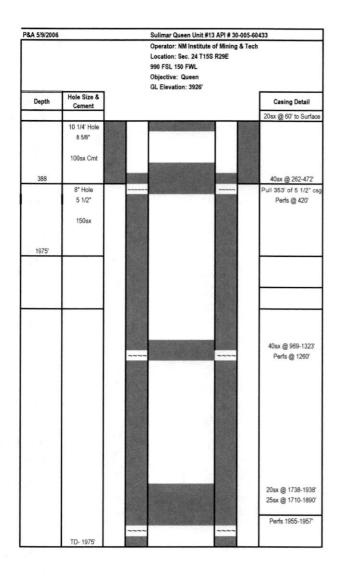


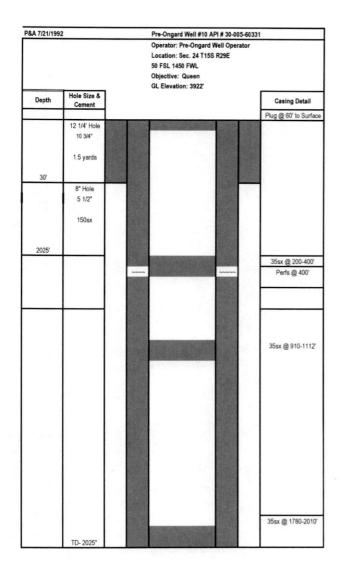


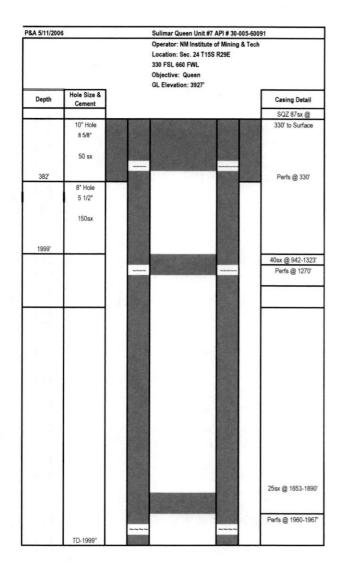


A 6/6/2006				EL en	_	
Depth	Hole Size & Cement					Casing Detail
	12 1/4' Hole 10 3/4*					SQZ 160sx @ 220' to Surface
	1.5 yard					
30'	8" Hole					
	5 1/2*					
	150sx	###	*	#####		Holes in Csg @ 220-250'
2023'				1		
						25sx @ 460-690'
		~~-	~~	~~~~		Perfs 1988-1994'
	TD- 2024'					



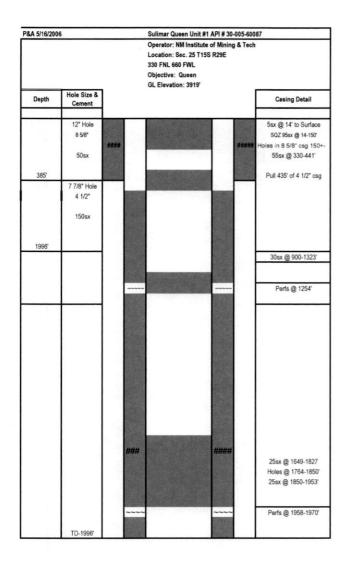


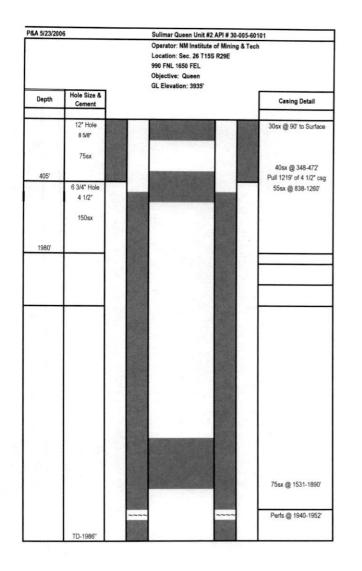




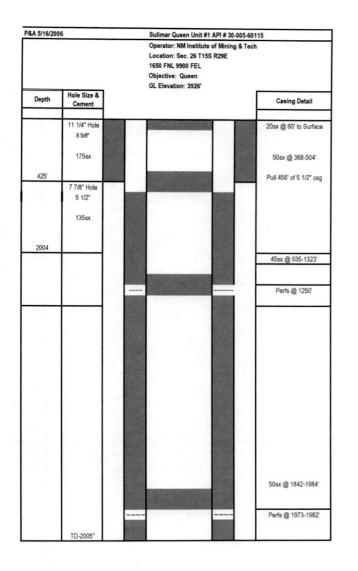
SA 3/24/198			Sulimar Queen Unit # Operator: NM Institut Location: Sec. 23 T1 330 FSL 330 FEL Objective: Queen GL Elevation: 3938'		
Depth	Hole Size & Cement				Casing Detail
	12 1/2" Hole 8 5/8"				15sx @ 60' to Surface 50sx between 8 5/8 & 5 1/
	50 sx				25sx @ 320-420'
364'	8" Hole			-	
	5 1/2*				
	150sx				
1992'					25sx @ 950-1050'
					255X @ 950-1050
		5 100			
	1 1				
					30sx @ 1820-1970'
					Perfs @ 1954-1964'
	TD-1994'	~~~	~	~~~~	

A 5/18/2006				Sulimar Queen Unit #1 API # 30-005-60095 Operator: NMI Institute of Mining & Tech Location: Sec. 26 T15S R29E 330 FNL 330 FEL Objective: Queen GL Elevation: 3935'		
Depth	Hole Size & Cement					Casing Detail
5	11" Hole 8 5/8"	(And P				25sx @ 60' to Surface
	150sx					40sx @ 251-480'
392'						Pull 338' of 4 1/2" csg
	6 3/4" Hole		~~~~~			Perfs @ 437
	4 1/2"					
	150sx					
2006'					-	
		-				30sx @ 874-1290'
						Perfs @ 1233'
		- 1				
						25sx @ 1733-1984
					~~~~	Perfs @ 1962-1972'
	1 1		AL CONT			



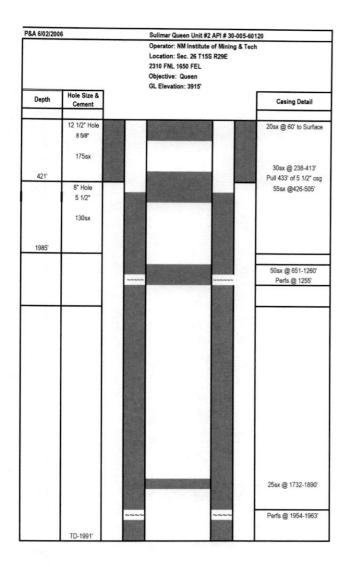


SA 10/23/19	03	Per-Ongard Well #2 API # 30-0 Operator: NM Institute of Mini Location: Sec. 25 T15S R29E 1650 FNL 660 FWL Objective: Queen GL Elevation: 3909'	ng & Tech
Depth	Hole Size & Cement	OL LIVIAION, 5009	Casing Detail
	12 1/4" Hole 8 5/8*		10sx to Surface
381'	50sx		
	8 1/4" Hole 150sx		30sx @ 381'
2014'			
			20sx 1020-1090'
			50 Q 1007 (Q11)
	TD-2014"		50sx @ 1837-2014'

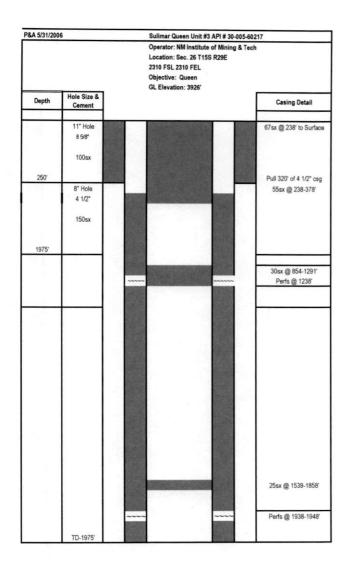


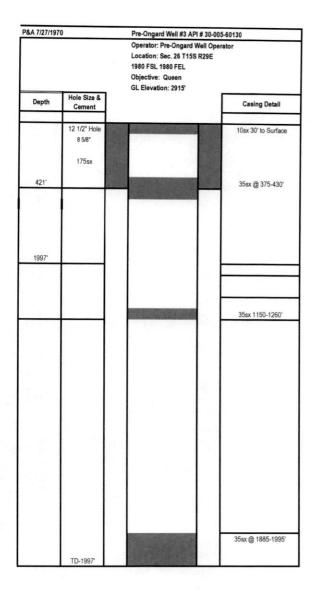
&A 10/8/197	0		API # 30-005-60139
		Operator: Pre-Onga Location: Sec. 26 T 2310 FNL 2310 FWL Objective: Queen GL Elevation: 3905'	15S R29E
Depth	Hole Size & Cement		Casing Detail
	12 1/4" Hole 8 5/8" 275sx		10sx to Surface
411'	2/358		28sx @ 364-465'
2014'			
			28sx 1035-1135'
			28sx @ 1850-1950'
	TD-2113"		

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## **OSE POD Locations Map**



3/17/2022, 11:27:45 AM
Override 1
OSE District Boundary
New Mexico State Trust Lands
Subsurface Estate
Both Estates
SiteBoundaries

		1:12,224	
12.0	0.5		2 mi
0	1	2	4 km

Esri, HERE, Garmin, Esri, HERE, Earthstar Geographics, U.S. Department of Energy Office of Legacy Management



# New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

DI	.SS	Co	-	h.
~ L	.33	36	arc	

Section(s): 25

Township: 15S Range: 29E

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.

3/17/22 11:51 AM



# New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS	Search:	

Section(s): 26

Township: 15S Range: 29E

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.

3/17/22 11:51 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



Customer:	Mack Energy Corporation		Sample #:	118208
Area:	Artesia		Analysis ID #:	107555
Lease:	Montreal			
Location:	1H	0		
Sample Point:	Wellhead			

Sampling Date:	2/13/2020	Anions	mg/l	meqA	Cations	mg/l	meq/l
Analysis Date:	3/4/2020	Chloride:	101615.8	2866.21	Sodium:	62440.0	2715.99
Analyst:	Catalyst	Bicarbonate:	197.6	3.24	Magnesium:	965.3	79.41
TDC (mall as alm2):	172020.9	Carbonate:			Calcium:	2569.0	128.19
TDS (mg/l or g/m3):	1,116	Sulfate:	3400.0	70.79	Potassium:	660.8	16.9
Density (g/cm3):	1.110	Borate*:	110.4	0.7	Strontium:	57.8	1.32
		Phosphate*			Barium:	3.4	0.05
Hydrogen Sulfide:	7.4				Iron:	0.2	0.01
			ased on measured		Manganese:	0.550	0.02
Carbon Dioxide:	102	elemental bor	on and phosphoru	IS.			
		pH at time of samp	ling:	7.14			
Comments:		pH at time of analy	sis:				
		pH used in Calcul	ation:	7.14			
		Temperature @ la	b conditions (F):	75	Conductivity (min		199270

		Values C	alculated	at the Give	n Conditi	ons - Amou	ints of Sc	ale in Ib/100	о рр		
Temp	Calcite CaCO <sub>3</sub>		Providence of the second second	sum 042H2 0		aso <sub>4</sub>		estite rSO <sub>4</sub>		aso 4	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.58	8.60	-0.09	0.00	-0.08	0.00	-0.05	0.00	1.83	1.78	
100	0.59	10.08	-0.16	0.00	-0.08	0.00	-0.08	0.00	1.63	1.78	
120	0.60	11.86	-0.23	0.00	-0.07	0.00	-0.10	0.00	1.45	1.78	
140	0.61	13.93	-0.28	0.00	-0.03	0.00	-0.10	0.00	1.30	1.78	
160	0.63	16.01	-0.32	0.00	0.03	69.97	-0.10	0.00	1.16	1.78	
180	0.65	18.38	-0.36	0.00	0.11	226.51	-0.10	0.00	1.05	1.78	
200	0.68	21.05	-0.39	0.00	0.19	391.65	-0.09	0.00	0.95	1.48	
220	0.73	24.01	-0.42	0.00	0.29	555.31	-0.08	0.00	0.87	1.48	



Customer:	Mack Energy Corporation		Sample #:	100487
Area:	Drilling		Analysis ID #:	94751
Lease:	Maple Ridge			
Location:	Fed #1	0		
Sample Point:	Wellhead			

Sampling Date:	7/29/2019	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	8/8/2019	Chloride:	84902.3	2394.79	Sodium:	51250.0	2229.25
Analyst:	Catalyst	Bicarbonate:	241.6	3.96	Magnesium:	1177.0	96.82
TDS (mg/l or g/m3):	144232	Carbonate:			Calcium:	2566.0	128.04
	1.097	Sulfate:	3300.0	68.71	Potassium:	564.2	14.43
Density (g/cm3):	1.037	Borate*:	173.9	1.1	Strontium:	53.5	1.22
		Phosphate*			Barium:	1.5	0.02
Hydrogen Sulfide:	14				Iron:	1.5	0.05
	162.8		ised on measured	and the second second second second second	Manganese:	0.460	0.02
Carbon Dioxide:	102.0	elemental boro	on and phosphor	us.			
		pH at time of sampl	ling:	6.41			
Comments:		pH at time of analys	sis:				
		pH used in Calcula	ation:	6.41			
		Temperature @ lat	b conditions (F):	75	Conductivity (min Resistivity (ohm		194536 .0514

		Values C	alculated	at the Give	n Conditi	ons - Amou	ints of Sc	ale in Ib/10	00 bbl	
Temp		Calcite Gypsum CaCO <sub>3</sub> CaSO <sub>4</sub> <sup>2</sup> 2H <sub>2</sub> 0			Anhydrite Celestite CaSO <sub>4</sub> SrSO <sub>4</sub>		THE REPORT OF TH	Barite BaSO <sub>4</sub>		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.09	0.00	-0.09	0.00	-0.09	0.00	-0.04	0.00	1.52	0.91
100	0.01	0.30	-0.15	0.00	-0.08	0.00	-0.06	0.00	1.33	0.91
120	0.10	3.96	-0.20	0.00	-0.06	0.00	-0.08	0.00	1.15	0.61
140	0.21	8.22	-0.25	0.00	-0.01	0.00	-0.08	0.00	1.00	0.61
160	0.31	12.48	-0.28	0.00	0.06	131.82	-0.08	0.00	0.87	0.61
180	0.41	17.35	-0.31	0.00	0.14	299.86	-0.07	0.00	0.76	0.61
200	0.51	21.92	-0.33	0.00	0.24	471.86	-0.06	0.00	0.67	0.61
220	0.61	26.79	-0.35	0.00	0.35	637.46	-0.04	0.00	0.60	0.61



Customer:	Mack Energy Corporation		Sample #:	55880	
Area:	Artesia		Analysis ID #:	53988	
Lease:	White Rock				
Location:	Federal #1H	0			
Sample Point:	Wellhead				

Sampling Date:	12/21/2017	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	1/6/2018	Chloride:	93901.4	2648.62	Sodium:	58100.0	2527.21
Analyst:	Catalyst	Bicarbonate:	241.6	3.96	Magnesium:	969.6	79.76
TDS (mg/l or g/m3):	161820.5	Carbonate:			Calcium:	2737.0	136.58
Density (g/cm3):	1.107	Sulfate:	5000.0	104.1	Potassium:	571.6	14.62
Density (greins).		Borate*:	229.5	1.45	Strontium:	66.0	1.51
		Phosphate*			Barium:	0.0	0.
Hydrogen Sulfide:	11				Iron:	3.8	0.14
Carbon Dioxide:	242		ased on measured on and phosphor	-	Manganese:	0.000	0.
•		pH at time of samp	ling:	6.9			
Comments:		pH at time of analys	sis:				
		pH used in Calcul	ation:	6.9	Conductivity (m)	an abreation.	4760.42
		Temperature @ la	b conditions (F):	75	Conductivity (min		176042

	Values Calculated at the Given Conditions - Amounts of Scale in Ib/100									
Temp		alcite aCO <sub>3</sub>	100.00	sum 042H2 0		aso <sub>4</sub>		estite rSO <sub>4</sub>		rite ISO 4
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.43	9.88	0.10	359.72	0.11	305.55	0.18	14.96	0.00	0.00
100	0.49	12.27	0.03	111.03	0.10	296.88	0.16	13.17	0.00	0.00
120	0.55	14.96	-0.03	0.00	0.13	355.53	0.14	11.97	0.00	0.00
140	0.60	17.96	-0.08	0.00	0.17	467.16	0.13	11.67	0.00	0.00
160	0.64	20.95	-0.12	0.00	0.23	615.30	0.14	11.67	0.00	0.00
180	0.69	24.54	-0.15	0.00	0.31	784.69	0.14	12.27	0.00	0.00
200	0.75	28.13	-0.18	0.00	0.40	962.15	0.15	12.87	0.00	0.00
220	0.80	31.72	-0.20	0.00	0.51	1137.23	0.17	13.77	0.00	0.00



Customer:	Mack Energy Corporation		Sample #:	81463	
Area:	Artesia		Analysis ID #:	80383	
Lease:	Prince Rupert				
Location:	Fed #4H	0			
Sample Point:	Wellhead				

Sampling Date:	1/10/2019	Anions	mg/l	meq/l	Cations	mg/l	meq/
Analysis Date:	1/22/2019	Chloride:	89383.7	2521.19	Sodium:	53970.0	2347.56
Analyst:	Catalyst	Bicarbonate:	175.7	2.88	Magnesium:	1013.0	83.33
TDS (mall or a/m2)	150968.6	Carbonate:			Calcium:	2725.0	135.98
TDS (mg/l or g/m3):	1.102	Sulfate:	2800.0	58.3	Potassium:	644.4	16.48
Density (g/cm3):	1.102	Borate*:	190.4	1.2	Strontium:	55.6	1.27
		Phosphate*			Barium:	0.9	0.01
Hudrogon Sulfido:	5				Iron:	9.0	0.33
Hydrogen Sulfide:		*Calculated ba	sed on measure	t t	Manganese:	0.857	0.03
Carbon Dioxide:	97	elemental bord	on and phosphor	us.			
		pH at time of sample	ling:	6.65			
Comments:		pH at time of analys	sis:				
		pH used in Calcula	ation:	6.65			
		Temperature @ la	b conditions (F):	75	Conductivity (min		200079

		Values Calculated at the Given Conditions - Augusts of Scale in Ib/1000 bbl									
Гетр		alcite aCO <sub>3</sub>		sum 04*2H2 0		iyori:e aSO <sub>4</sub>	and the second se	estite rSO <sub>4</sub>		rite aSO 4	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.05	0.91	-0.13	0.00	-0.13	0.00	-0.11	0.00	1.22	0.60	
100	0.13	2.72	-0.20	0.00	-0.13	0.00	-0.13	0.00	1.02	0.30	
120	0.22	4.84	-0.26	0.00	-0.11	0.00	-0.15	0.00	0.84	0.30	
140	0.30	7.26	-0.30	0.00	-0.06	0.00	-0.15	0.00	0.69	0.30	
160	0.37	9.68	-0.34	0.00	0.00	6.96	-0.15	0.00	0.56	0.30	
180	0.45	12.70	-0.37	0.00	0.08	166.07	-0.14	0.00	0.45	0.30	
200	0.52	15.73	-0.40	0.00	0.18	328.81	-0.13	0.00	0.36	0.30	
220	0.60	18.75	-0.42	0.00	0.28	485.19	-0.11	0.00	0.28	0.30	

Sample Point:



Wellhead

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

Customer:	Mack Energy Corporation	Sample #:	78595
Area:	Artesia	Analysis ID #:	76096
Lease:	Chilliwack		
Location:	Fed Com 1H	0	

Sampling Date:	11/28/2018	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/3/2018	Chloride:	104292.8	2941.72	Sodium:	63550.0	2764.27
Analyst:	Catalyst	Bicarbonate:	131.8	2.16	Magnesium:	1027.0	84.49
TDS (mg/l or g/m3):	175963.5	Carbonate:			Calcium:	2882.0	143.81
Density (g/cm3):	1.118	Sulfate:	3200.0	66.62	Potassium:	707.0	18.08
Density (g/cms).	1.110	Borate*:	108.1	0.68	Strontium:	63.7	1.45
		Phosphate*			Barium:	0.8	0.01
Hydrogen Sulfide:	4				Iron:	0.1	0.
Carbon Dioxide:	108		ased on measured on and phosphor		Manganese:	0.189	0.01
		pH at time of samp	ling:	6.95	2		
Comments:		pH at time of analy	sis				
		pH used in Calcul	ation:	6.95	One described to deal		200204
		Temperature @ la	b conditions (F):	75	Conductivity (micro-ohms/cm): Resistivity (ohm meter):		200381 .0499

	Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl										
ſemp		alcite aCO <sub>3</sub>		sum 04*2H2 0		ydrite aSO <sub>4</sub>		estite rSO <sub>4</sub>		rite ISO 4	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.28	2.95	-0.07	0.00	-0.05	0.00	-0.04	0.00	1.17	0.30	
100	0.32	3.84	-0.14	0.00	-0.06	0.00	-0.07	0.00	0.97	0.30	
120	0.36	5.02	-0.21	0.00	-0.05	0.00	-0.09	0.00	0.79	0.30	
140	0.39	6.20	-0.26	0.00	-0.01	0.00	-0.10	0.00	0.63	0.30	
160	0.43	7.38	-0.31	0.00	0.05	111.64	-0.10	0.00	0.50	0.30	
180	0.46	9.16	-0.34	0.00	0.12	261.08	-0.09	0.00	0.38	0.30	
200	0.50	10.93	-0.38	0.00	0.21	418.50	-0.08	0.00	0.29	0.30	
220	0.55	12.99	-0.41	0.00	0.31	573.26	-0.07	0.00	0.21	0.30	



Customer:	Mack Energy Corporation		Sample #:	81533	
Area:	Artesia		Analysis ID #:	80615	
Lease:	Saskatoon				
Location:	Fed Com 1H	0			
Sample Point:	Wellhead				

Sampling Date:	1/10/2019	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	1/23/2019	Chloride:	91681.1	2585.99	Sodium:	54050.0	2351.04
Analyst:	Catalyst	Bicarbonate:	153.7	2.52	Magnesium:	1173.0	96.5
TDS (mg/l or g/m3):	151377.2	Carbonate:			Calcium:	2767.0	138.07
Density (g/cm3):	1,105	Sulfate:	700.0	14.57	Potassium:	647.0	16.55
consity (gronie).	1.100	Borate*:	144.3	0.91	Strontium:	60.1	1.37
		Phosphate*			Barium:	0.6	0.01
Hydrogen Sulfide:	4				Iron:	0.0	0
Carbon Dioxide:	90		ised on measured on and phosphore		Manganese:	0.416	0.02
Commonte		pH at time of sampl	ing:	7.23			
Comments:		pH at time of analys	sis:				
		pH used in Calcula	ation:	7.23			
		Temperature @ lal	b conditions (F):	75	Conductivity (mi Resistivity (ohm		197210

		Values Calculated at the Given Conditions - Amounts of Scale in Ib/10									
Temp	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> 0		Anhydrite CaSO 4		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.57	6.35	-0.72	0.00	-0.71	0.00	-0.66	0.00	0.45	0.30	
100	0.57	7.26	-0.79	0.00	-0.72	0.00	-0.69	0.00	0.25	0.00	
120	0.58	8.77	-0.84	0.00	-0.69	0.00	-0.70	0.00	0.07	0.00	
140	0.59	10.28	-0.89	0.00	-0.65	0.00	-0.71	0.00	-0.08	0.00	
160	0.60	12.10	-0.93	0.00	-0.59	0.00	-0.70	0.00	-0.21	0.00	
180	0.63	13.91	-0.96	0.00	-0.51	0.00	-0.70	0.00	-0.32	0.00	
200	0.66	16.03	-0.99	0.00	-0.41	0.00	-0.69	0.00	-0.42	0.00	
220	0.71	18.45	-1.01	0.00	-0.31	0.00	-0.67	0.00	-0.49	0.00	

Underground Sources of Drinking Water- There is no USDW present.

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Seismicity Risk Assessment- There is no risk of induced Seismicity.

Underground Sources of Drinking Water- There is no USDW present.

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Seismicity Risk Assessment- There is no risk of induced Seismicity.

Received by UCD: 52/13/2023 10:44:37 AM U.S. Department of the Interior		Sundry Print Report 10/23/2023
BUREAU OF LAND MANAGEMENT		atter the sec
Well Name: LABRADOR SWD	Well Location: T15S / R29E / SEC 23 / NWSE / 32.9996373 / -104.9970742	County or Parish/State: CHAVES / NM
Well Number: 1	Type of Well: INJECTION - DISPOSAL	Allottee or Tribe Name:
Lease Number: NMNM138832	Unit or CA Name:	Unit or CA Number:
<b>US Well Number:</b> 3000564374	Well Status: Drilling Well	<b>Operator:</b> MACK ENERGY CORPORATION

### **Notice of Intent**

Sundry ID: 2754628

Type of Submission: Notice of Intent

Date Sundry Submitted: 10/03/2023

Date proposed operation will begin: 10/09/2023

Type of Action: Other Time Sundry Submitted: 02:29

**Procedure Description:** Mack Energy Corporation request the following changes to the Labrador SWD #1- Name Change to Labrador SWD #1Y Unit J Sec. 23 T15S R29E 1978 FSL 1930 FEL Chaves, NM. Surface- Drill 17 1/2" hole to 450'. RIH w/ 13 3/8"csg 48# H-40 ST&C 0-450', C-3.29416, B-3.396419, T-3.46, J-17.47399. Cmt w/ 100sx RFC+12%PF53+2%PF1+5ppsPF42+.125ppsPF29, yld 1.61, density 14.4, mix H2O 7.357, tail 475sx Class C+1%PF1, yld 1.34, density 14.8, mix H2O 6.323, excess 100%, Additives- 20bbls Gelled Water, 50sx of 11# Scavenger Cement. Intermediate- Drill 12 1/4" to 2,900'. RIH w/ 9 5/8"csg 36# J-55 ST&C 0-2900', C-1.339523, B-7.04, T-7.04, J-4.455663. Cmt w/ 725sx Class C+45PF20+.4ppsPF45+.125PF29, yld 1.72, density 13.5, mix H2O 9.102, 50%excess, Slurry Top Surface, tail 200sx Class C+1%PF1, yld 1.34, density 14.8, Mix H2O 6.323, 50%excess, Slurry Top 1,900'. Additives-20bbls Gelled Water, 50sx of 11# Scavenger Cement. Production- Drill 8 3/4" to 10,985'. RIH w/ 7" csg 26# HCP-110 LT&C 0-10,985', C-1.422394, B-3.081938, T-3.316667, J-2.844132. Cmt w/ 1,400sx 50/50 POZ C+5% (BWOW) PF44+2%PF204+.2%PF606+.1%PF153+.4ppsPF44, yld 1.34,density 14.2, mix H2O 6.091, 50%excess, Slurry Top 5,500'. Additives- 20bbls gelled water, 20bbls chemical wash DV Tool set at 5,500'.

**Surface Disturbance** 

Is any additional surface disturbance proposed?: No

**NOI Attachments** 

**Procedure Description** 

C\_102\_20231003121829.pdf

Received by OCD: 12/13/2023 10:44:37 AM Well Name: LABRADOR SWD		Well Location: T15S / R29E / SEC 23 / NWSE / 32.9996373 / -104.9970742	County or Parish/State <sup>Page 88</sup> of 10 CHAVES / NM
	Well Number: 1	Type of Well: INJECTION - DISPOSAL	Allottee or Tribe Name:
	Lease Number: NMNM138832	Unit or CA Name:	Unit or CA Number:
	US Well Number: 3000564374	Well Status: Drilling Well	<b>Operator:</b> MACK ENERGY CORPORATION

### Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

**Operator Electronic Signature: DEANA WEAVER** 

Signed on: OCT 03, 2023 12:18 PM

Name: MACK ENERGY CORPORATION

Title: Production Clerk

Street Address: 11344 Lovington HWY

City: Artesia

State: NM

Phone: (575) 748-1288

Email address: dweaver@mec.com

Field

Representative Name: Street Address: City: State: Phone: Email address:

Zip:

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Form 3160-5	I MITED STATES				DRM APPROVED		
Form 3160-5 UNITED STATES (June 2019) DEPARTMENT OF THE INTERIOR					MB No. 1004-0137 res: October 31, 2021		
	EAU OF LAND MANAGEMEN			5. Lease Serial No.			
	NOTICES AND REPORTS ON	-		6. If Indian, Allottee or Tribe Name			
	form for proposals to drill or Use Form 3160-3 (APD) for s						
	TRIPLICATE - Other instructions on p	page 2		7. If Unit of CA/Agreer	ment, Name and/or No.		
1. Type of Well Gas V	Vell Other			8. Well Name and No.			
2. Name of Operator				9. API Well No.			
3a. Address	3b. Phone N	No. (include area code	2)	10. Field and Pool or E	xploratory Area		
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description)			11. Country or Parish, S	State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO	INDICATE NATURE	E OF NOTI	CE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TY	PE OF ACT	ΓΙΟΝ			
Notice of Intent		Deepen		uction (Start/Resume)	Water Shut-Off		
		lydraulic Fracturing		amation	Well Integrity		
Subsequent Report		lug and Abandon		mplete oorarily Abandon	Other		
Final Abandonment Notice		lug Back	_	r Disposal			
the Bond under which the work will completion of the involved operation	ally or recomplete horizontally, give subs Il be perfonned or provide the Bond No. o ons. If the operation results in a multiple tices must be filed only after all requirem	on file with BLM/BIA completion or recomp	. Required letion in a	subsequent reports mus new interval, a Form 31	t be filed within 30 days following 60-4 must be filed once testing has been		
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title					
Signature							
	THE SPACE FOR FE	DERAL OR ST	AIEUF				
Approved by		Title		D	ate		

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13:* Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

#### NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

### **Additional Information**

#### Location of Well

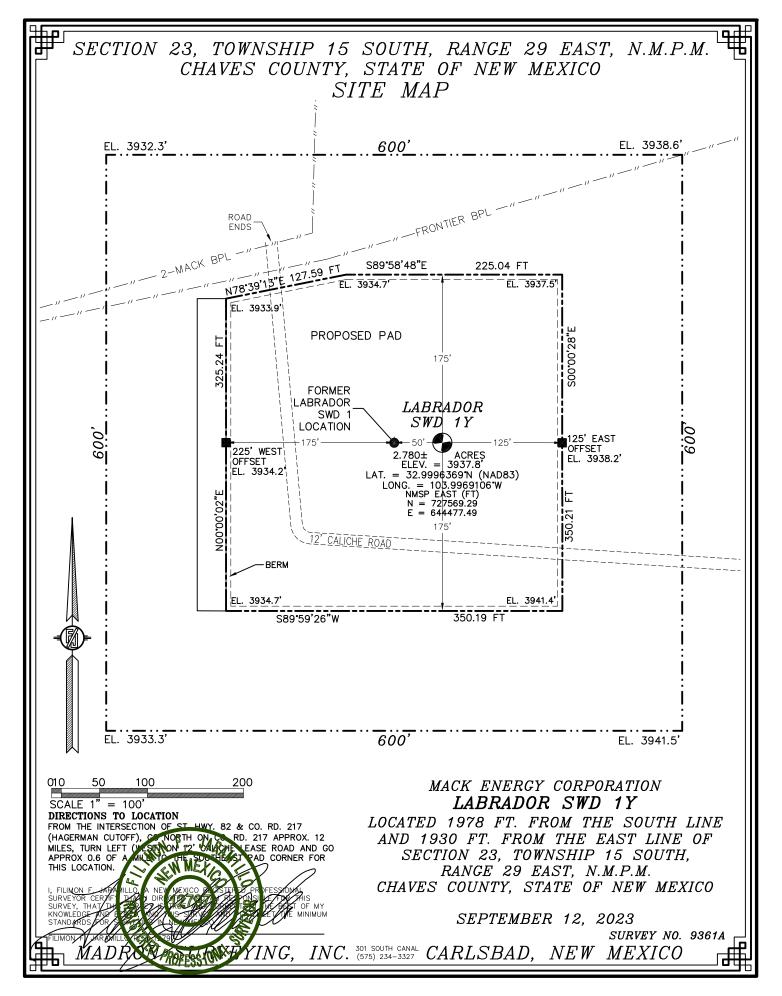
0. SHL: NWSE / 1978 FSL / 1980 FEL / TWSP: 15S / RANGE: 29E / SECTION: 23 / LAT: 32.9996373 / LONG: -104.9970742 (TVD: 0 feet, MD: 0 feet ) PPP: 0 / 0 / SECTION: / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet ) BHL: NWSE / 1978 FSL / 1980 FEL / TWSP: 15S / RANGE: 29E / SECTION: 23 / LAT: 32.9996373 / LONG: -104.9970742 (TVD: 10985 feet, MD: 10985 feet ) <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 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

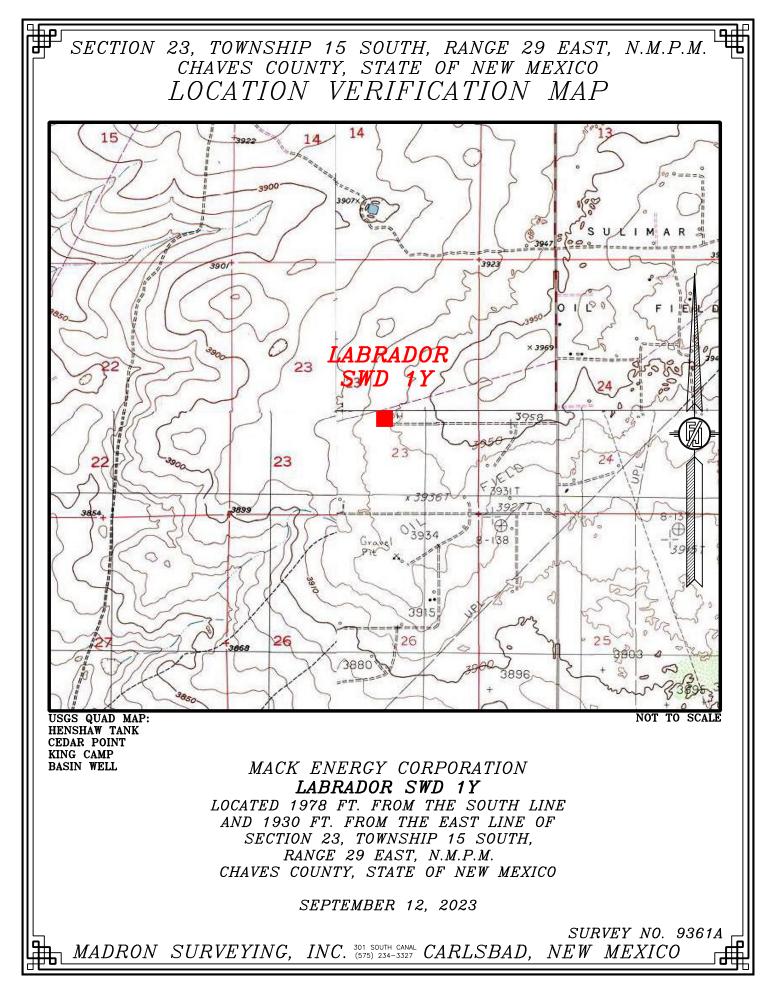
AMENDED REPORT

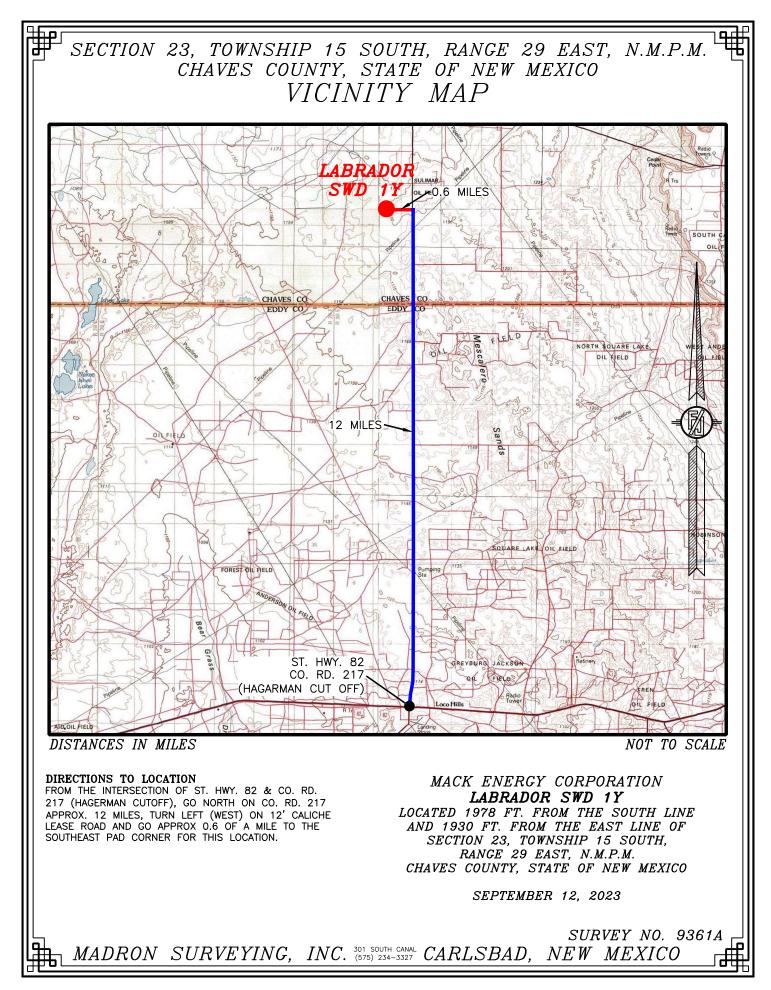
WELL LOCATION AND ACREAGE DEDICATION PLAT										
<sup>1</sup> API Number <sup>2</sup> Pool					de <sup>3</sup> Pool Name					
30-0	05-643	74		9610	01 SWD; Devonian					
<sup>4</sup> Property C	ode				<sup>5</sup> Property	Name			<sup>6</sup> Well Number	
333611					LABRADO	OR SWD			1Y	
<sup>7</sup> OGRID No. <sup>8</sup> Operator Name							<sup>9</sup> Elevation			
13837		MACK ENERGY CORPORATION						3937.8		
	<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	eet from the North/South line Feet from the East/West line County				
J	23	15 S	29 E		1978	SOUTH	1930	EA	ST	CHAVES
" 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/W	est line	County
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint	or Infill <sup>14</sup>	Consolidatio	n Code	<sup>15</sup> Order No.					
40										

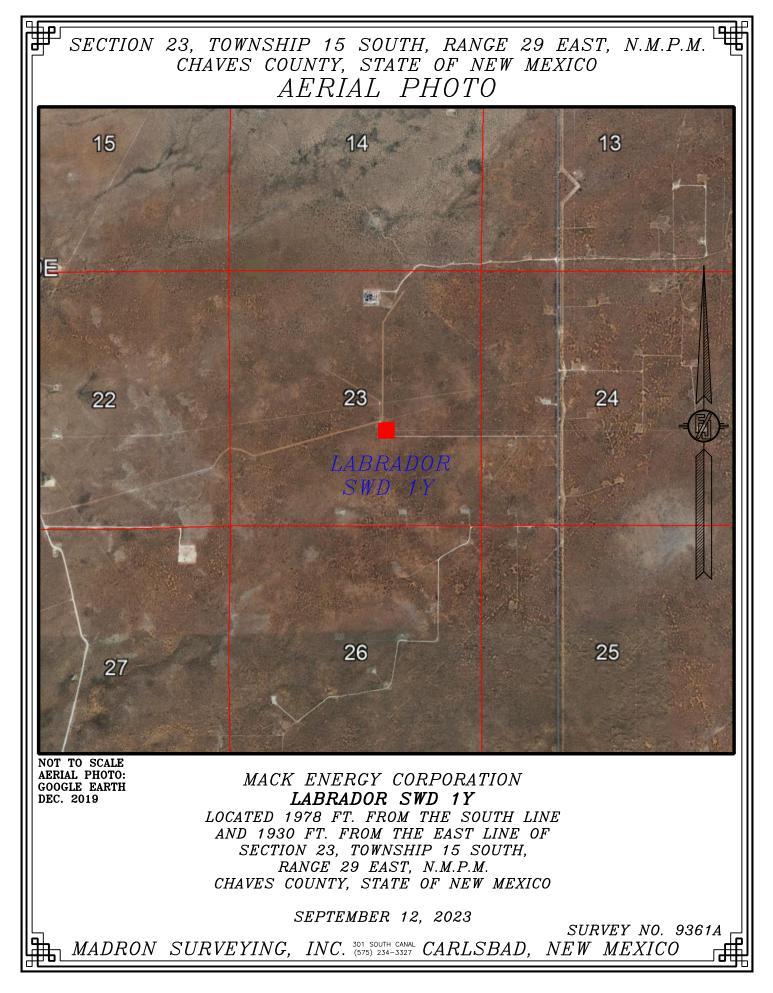
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

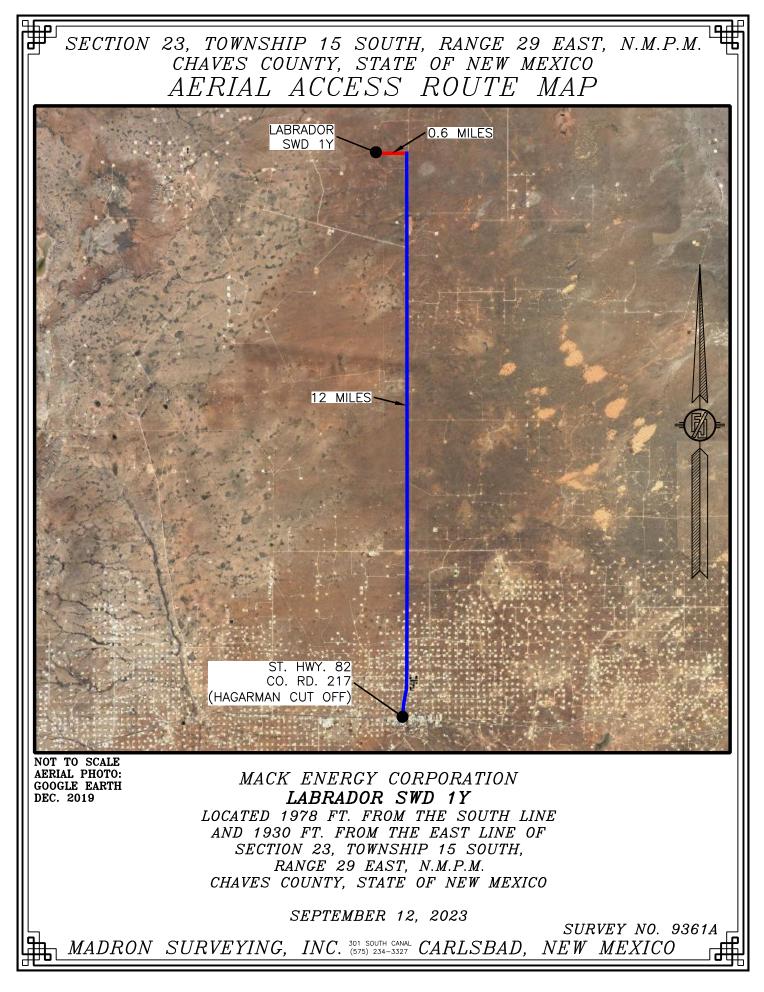
W/4 CORNER SEC. 23       NMNNM 138832       E/4 CORNER SEC. 23       Signature       Date         W/4 CORNER SEC. 23       LAT. = 33,0015079N       LAT. = 33,0015079N       Date         LONG. = 104,0077509W       LOCATION       LAT. = 33,0115079N       LONG. = 103,9906184'W         NMSP EAST (FT)       NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)         NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)         NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)         NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)         NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)         NMNM 066483       S/4 CORNER SEC. 23       SE CORNER SEC. 23       LAT. = 32.994201TN         LUNG. = 103.9906166'W       NMSP EAST (FT)       N MNM 127444       T         MMNM 066483       S/4 CORNER SEC. 23       SE CORNER SEC. 23       LAT. = 32.994201TN         LUNG. = 103.9905164'W       LONG. = 103.9906126'W       NMSP EAST (FT)       N MSP EAST (FT)         NMSP EAST (FT)       N MSP EAST (FT)       N MSP EAST (FT)       Signature and Scal output constraints on this plat         NMSP EAST (FT)       N MSP EAST (FT)       N SSP EAST (FT)       Signatu	N89°53'16"E 2638.11 FT			N89°55'34"E	N89*55'34"E 2637.68 FT		<sup>17</sup> OPERATOR CERTIFICATION		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							I hereby certify that the information contained herein is true and complete		
NMSP EAST (FT)         NMSP EA							to the best of my knowledge and belief, and that this organization either		
L       M       = 73089.32'       N       = 73089.43'       L         E       = 641120.85       E       = 643758.26       E       = 646395.26       = 6464395.26 <th 6464395.26<="" <="" =="" td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td>owns a working interest or unleased mineral interest in the land including</td></th>	<td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>owns a working interest or unleased mineral interest in the land including</td>		1					owns a working interest or unleased mineral interest in the land including	
E       = 040/30.20       E       = 040/30.20       F       = 040093.20       F       Interval to a contract with an owner of such a mineral or working interval, or to a volumary pooling ogreenment or a compalsory pooling order hereighner enterval by the distains.         W/4       CORNER SEC, 23       NMNM 138832       E / 4 CORNER SEC, 23       Interval to a contract with an owner of such a mineral or working interval, or to a volumary pooling ogreenment or a compalsory pooling order hereighner enterval by the distains.         W/4       CORNER SEC, 23       Interval to a contract with an owner of such a mineral or working.         UNK       Interval to a contract with an owner of such a mineral or working.         W/4       CORNER SEC, 23       Interval to a contract with an owner of such a mineral or working.         Interval       Interval to a contract with an owner of such a mineral or working.         W/4       CORNER SEC, 23       Interval to a contract with an owner of such a mineral or working.         Interval       Interval       Interval       Interval         Interval       Interval       Interval       Interval       Interval         Interval       Interval       Interval       Interval       Interval       Interval         Interval       Interval       Interval       Interval       Interval       Interval       Interval       Interval       Interval	F		N = 73089	91.08	N = 730894.48	F	the proposed bottom hole location or has a right to drill this well at this		
W/4 CORNER SEC. 23       NMNM 138832       E/4 CORNER SEC. 23       Date         W/4 CORNER SEC. 23       LAT. = 33,0015079'N       Date         LONG. = 104.0077509'W       LOCATION       E/4 CORNER SEC. 23         NMSP EAST (FT)       SURFACE       NMSP EAST (FT)         NMSP EAST (FT)       SURFACE       NMSP EAST (FT)         NMSP EAST (FT)       SURFACE       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)         NMSP EAST (FT)       NMSP EAST (FT)<	5	E = 641120.85	E = 64375	58.26	E = 646395.26	ത	location pursuant to a contract with an owner of such a mineral or working		
Wight       NMNM       138832       Date         W/4 CORNER SEC. 23 LAT. = 33.0015079N LONG. = 104.007509W       Date       Date         W/4 CORNER SEC. 23 LAT. = 33.0015079N LONG. = 104.007509W       E/4 CORNER SEC. 23 LAT. = 33.0014847N LONG. = 104.007509W       Date         NMSP EAST (FT) N = 728239.53 E = 641151.97       SURFACE LOCATION LAT. = 32.9996369'N (NAD83) LAT. = 32.9996369'N (NAD83) LAT. = 32.9996399'N (NAD83) LAT. = 32.9942016'N NMSP EAST (FT) N = 727559.29 E = 644477.49       NMNM 127444       NMNM 127444         W       SK CORNER SEC. 23 LAT. = 32.9942030'N LAT. = 32.9942016'N LONG. = 103.9996156'W NMSP EAST (FT) N = 725591.88 E = 641180.38       SE CORNER SEC. 23 LAT. = 32.9942011'N LONG. = 103.9996156'W NMSP EAST (FT) N = 725591.88 E = 641180.38       Set CORNER SEC. 23 LAT. = 32.9942016'N LONG. = 103.9996156'W NMSP EAST (FT) N = 725591.88 E = 641180.38       Set CORNER SEC. 23 LAT. = 32.9942016'N LONG. = 103.9996156'W NMSP EAST (FT) N = 725591.88 E = 641180.38       Set CORNER SEC. 23 LAT. = 32.9942030'N LAT. = 32.9942016'N NMSP EAST (FT) N = 725591.88 E = 641180.38       Set CORNER SEC. 23 LAT. = 32.9942030'N LAT. = 32.9942016'N NMSP EAST (FT) N = 725591.88 E = 641180.38       Set CORNER SEC. 23 LAT. = 32.9942030'N LAT. = 32.9942016'N LONG. = 103.999654'W LONG. = 103.9						7.3	interest, or to a voluntary pooling agreement or a compulsory pooling order		
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LAT. = 33.0015079'N LONG. = 104.0077509'W       LAT. = 33.0014847'N LONG. = 103.9906184'W       Email Address         NMSP EAST (FT) N = 728239.53 E = 641151.97       SURFACE LOCATION LABRADOR SWD 1½       NMSP EAST (FT) N = 728279.53       NMSP EAST (FT) LOCATION LOCATION LOCATION N = 728279.53       IsSURVEYOR CERTIFICATION N = 728279.79         L       MMSP EAST (FT) N = 727569.29       NMSP EAST (FT) N = 727569.29       Issue of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.         SW CORNER SEC. 23 LAT. = 32.9942030'N LONG. = 104.0076851'W       S/4 CORNER SEC. 23 LAT. = 32.9942010'N LONG. = 103.9991564'W       SE CORNER SEC. 23 LAT. = 32.9942010'N LONG. = 104.0076851'W       SE CORNER SEC. 23 LAT. = 32.9942010'N LONG. = 103.9991564'W       SE CORNER SEC. 23 LAT. = 32.9942010'N LONG. = 103.990126'W       SE CORNER SEC. 23 LAT. = 32.9942010'N LONG. = 103.9906126'W       SE CORNER SEC. 23 LAT. =		W/A CODNED SEC 23					dweaver@mec.com		
NMSP EAST (FT) N = 728239.53SURFACE LOCATIONNMSP EAST (FT) N = 728247.79 E = 6441151.97NMSP EAST (FT) LABRADOR SWD 1Y ELEV. = 3937.8 LAT. = 32.996366910 66W N MSP EAST (FT) N = 727569.29NMSP EAST (FT) F = 6444477.49NMSP EAST (FT) N = 727569.29Is 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.NMNN 066483NMNN 127444NMNN 127444NMNN 127444NMNN 066483SE CORNER SEC. 23 LAT. = 32.9942030'N LONG. = 104.0076851'W NMSP EAST (FT) N = 725581.88 E = 641180.36SE CORNER SEC. 23 LAT. = 32.9942011'N LONG. = 103.9991564'W NMSP EAST (FT) N = 725597.82 E = 644114.78SE CORNER SEC. 23 LAT. = 32.9942011'N LONG. = 103.9991564'W NMSP EAST (FT) N = 725597.82 E = 644114.78		LÁT. = 33.0015079°N			LAT. = 33.0014847*N				
$ \begin{array}{c} N = 728239.53 \\ E = 641151.97 \\ LABRADOR SWD 1Y \\ ELEV. = 3937.8 \\ LAT. = 32.99963569^{N} (NAD83) \\ LAT. = 32.99963569^{N} (NAD83) \\ LONG. = 103.9969106^{CW} \\ NMSP \ EAST (FT) \\ N = 727569.29 \\ E = 644477.49 \\ E = 644477.49 \\ I = 32.9942016^{N} \\ LONG. = 103.9906126^{W} \\ I = 64477.49 \\ I = 32.9942016^{N} \\ LONG. = 103.9906126^{W} \\ I = 647995.58 \\ I = 641180.36 \\ I = 643795.24 \\ I = 643795.24 \\ I = 6446414.78 \\ I = 6466414.78 \\ I = 64666414.78 \\ I = 646666666666666666666666666666666666$				REACE		1			
$ \begin{array}{c} LABRADOR SWD 1Y \\ ELEV. = 3937.8 \\ LAT. = 32.99963669^{\text{N}} (NAD83) \\ ONG. = 103.9969106^{\text{W}} \\ NMSP EAST (FT) \\ N = 727569.29 \\ E = 644477.49 \\ \hline \end{array} $ $ \begin{array}{c} 1930' \\ 1930' \\ NMNM 066483 \\ \hline \end{array} $ $ \begin{array}{c} 1930' \\ nother my supervision, and that the same is true and correct to the best of my belief. \\ SEPTEMBER 12, 2022 \\ \hline \end{array} $ $ \begin{array}{c} 202 \\ \text{Date of Survey} \\ \hline \end{array} $ $ \begin{array}{c} 32.9942030^{\text{N}} \\ \text{LAT.} = 32.9942030^{\text{N}} \\ \text{LONG.} = 103.9991564^{\text{W}} \\ \text{LONG.} = 103.9991564^{\text{W}} \\ \text{LAT.} = 32.9942011^{\text{N}} \\ \text{LONG.} = 103.9991564^{\text{W}} \\ \text{LONG.} = 103.9991564^{\text{W}} \\ \text{LAT.} = 32.9942011^{\text{N}} \\ \text{LONG.} = 103.9991564^{\text{W}} \\ \text{LONG.} = 103.9991524 \\ \text{Signature and Seal of Furgerional Survey}. \\ Sign$							<sup>18</sup> SURVEYOR CERTIFICATION		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		E = 041131.97			E = 646404.36		I hereby certify that the well location shown on this plat		
0       LONG. = 103.9969106'W NMSP EAST (FT)   N = 727569.29   E = 644477.49       me or under my supervision, and that the same is true and correct to the best of my belief.         0       NMNM 066483       E = 644477.49       NMNM 127444         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0	t			(NAD83)	— 1930' — — <b>—</b>	t	was plotted from field notes of actual surveys made by		
W       Image: Construction of Survey       Image: Construction of Survey       Image: Construction of Survey         SW       CORNER SEC. 23       S/4 CORNER SEC. 23       SE CORNER SEC. 23       Image: Construction of Survey         LAT. = 32.9942030'N       LAT. = 32!9942016'N       LAT. = 32.9942011'N       Image: Construction of Survey         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)       Signature and Seal of Professional Survey         N = 725581.88       N = 725589.58       N = 725597.82       Certificate Number:       Certificate Number:         E = 641180.36       E = 643795.24       E = 646414.78       Certificate Number:       Certificate Number:				6°W		00	me or under my supervision, and that the same is true		
W       Image: Construction of Survey       Image: Construction of Survey       Image: Construction of Survey         SW       CORNER SEC. 23       S/4 CORNER SEC. 23       SE CORNER SEC. 23       Image: Construction of Survey         LAT. = 32.9942030'N       LAT. = 32!9942016'N       LAT. = 32.9942011'N       Image: Construction of Survey         NMSP EAST (FT)       NMSP EAST (FT)       NMSP EAST (FT)       Signature and Seal of Professional Survey         N = 725581.88       N = 725589.58       N = 725597.82       Certificate Number:       Certificate Number:         E = 641180.36       E = 643795.24       E = 646414.78       Certificate Number:       Certificate Number:	80.4					50.6			
Main         Main <th< td=""><td>265</td><td>NMNM 066483</td><td></td><td></td><td>NMNM 127444</td><td>265</td><td></td></th<>	265	NMNM 066483			NMNM 127444	265			
Z         LAT.         =         32.9942016'N         LAT.         =         32.9942016'N         LAT.         =         32.9942011'N         01           LONG.         =         104.0076851'W         LONG.         =         103.9991564'W         LONG.         =         103.9991564'W         LONG.         =         103.9906126'W         Signature and Seal of Protectional Surveyor:         Signature and Seal of Protectional	$\geq$								
Z         LAT.         =         32.9942016'N         LAT.         =         32.9942016'N         LAT.         =         32.9942011'N         01           LONG.         =         104.0076851'W         LONG.         =         103.9991564'W         LONG.         =         103.9991564'W         LONG.         =         103.9906126'W         Signature and Seal of Protectional Surveyor:         Signature and Seal of Protectional	44			-19			Date of Survey		
Z         LAT.         =         32.9942016'N         LAT.         =         32.9942016'N         LAT.         =         32.9942011'N         01           LONG.         =         104.0076851'W         LONG.         =         103.9991564'W         LONG.         =         103.9991564'W         LONG.         =         103.9906126'W         Signature and Seal of Protectional Surveyor:         Signature and Seal of Protectional	90			78'		<u>-</u>			
LONG.         104.0076851*W         LONG.         103.9991564*W         LONG.         103.9991564*W         LONG.         103.9991564*W         Signature and Seal of Professional Surveyor.           NMSP EAST (FT)         NMSP EAST (FT)         NMSP EAST (FT)         Signature and Seal of Professional Surveyor.         Signature and Seal of Professional Surveyor.           N = 725581.88         N = 725589.58         N = 725597.82         Certificate Number:         Directificate Number:	00					200	ANNE BOX X		
NMSP         EAST         FT         NMSP         EAST         FT           N MSP         EAST         FT         NMSP         EAST         FT           N =         725581.88         N         =         725581.88         N         =         725581.88         Criticate Number:         Description           E         =         641180.36         E         =         643795.24         E         =         646414.78         Certificate Number:         Description         Description	2					0,			
N = 725581.88         N = 725589.58         N = 725597.82         Certificate Number:         Description         Description <thdescription< th="">         Description         Descript</thdescription<>							Signature and Seal of Protectional Surveyor:		
		N = 725581.88	N = 72 55	589.58			Certificate Number: DERMONS LAB AMULLO, LS 12797		
363 49 55 W 2015.57 FT 369 49 FT W 2020.23 FT						I	POOLEOD ION		



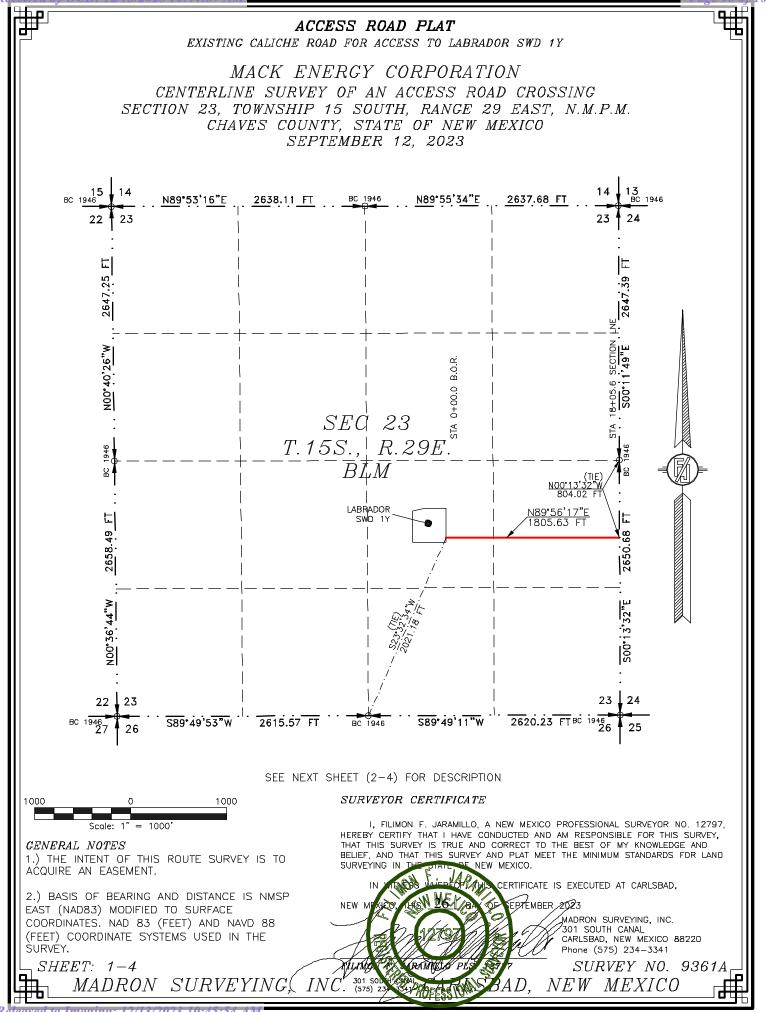








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#### ACCESS ROAD PLAT

EXISTING CALICHE ROAD FOR ACCESS TO LABRADOR SWD 1Y

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 23, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. CHAVES COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2023

#### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 23, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES 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 23, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 23, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S23'32'34"W, A DISTANCE OF 2021.18 FEET; THENCE N89'56'17"E A DISTANCE OF 1805.63 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 23, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS NOO'13'32"W, A DISTANCE OF 804.02 FEET;

SAID STRIP OF LAND BEING 1805.63 FEET OR 109.43 RODS IN LENGTH, CONTAINING 1.244 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SE/4 492.92 L.F. 29.87 RODS 0.339 ACRES NE/4 SE/4 1312.71 L.F. 79.56 RODS 0.904 ACRES

#### SURVEYOR CERTIFICATE

GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO AĆQUIRE 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.

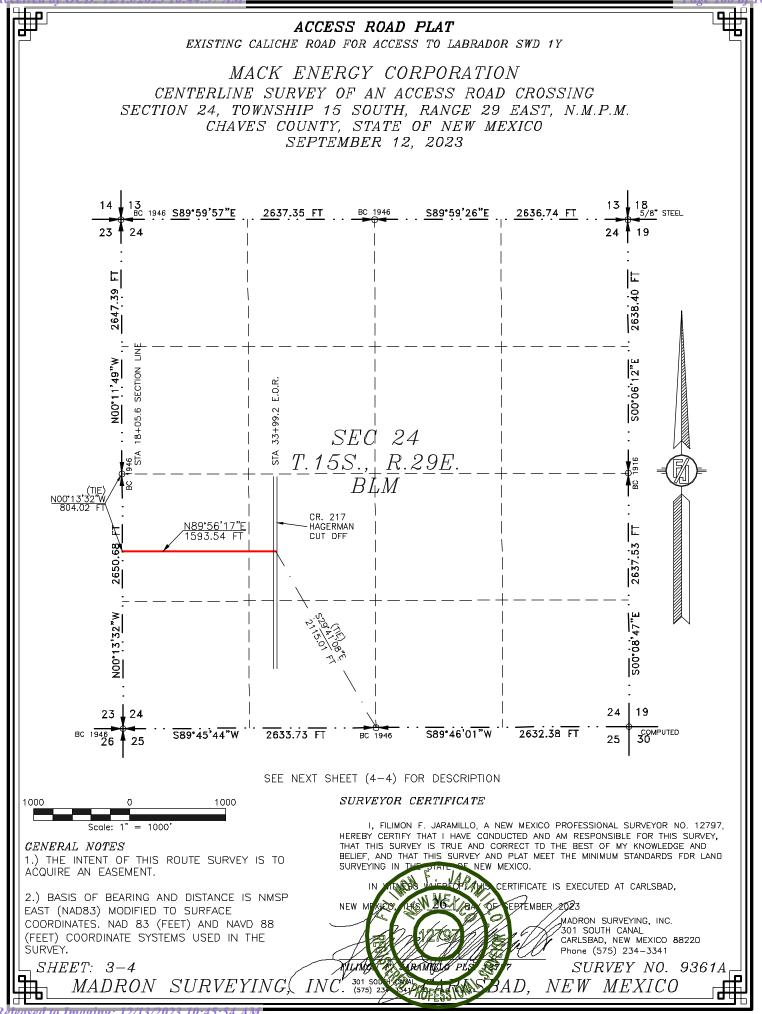
SHEET: 2-4 MADRON SURVEYING (INC. 301 S

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. IN CERTIFICATE IS EXECUTED AT CARLSBAD, NEW M PZÉMBER 2023 MADRON SURVEYING, INC. 7301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 SURVEY NO. 9361A NEW MEXICO ADReleased to Imaging: 12/13/2023 10:45:54 AM

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY,

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#### ACCESS ROAD PLAT

EXISTING CALICHE ROAD FOR ACCESS TO LABRADOR SWD 1Y

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 24, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. CHAVES COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2023

#### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 24, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 24, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 24, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS NOD'13'32"W, A DISTANCE OF 804.02 FEET; THENCE N89'56'17"E A DISTANCE OF 1593.54 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 24, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S29'41'08"E, A DISTANCE OF 2115.01 FEET;

SAID STRIP OF LAND BEING 1593.54 FEET OR 96.58 RODS IN LENGTH, CONTAINING 1.097 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4 1317.95 L.F. 79.88 RODS 0.908 ACRES NE/4 SW/4 275.58 L.F. 16.70 RODS 0.190 ACRES

#### SURVEYOR CERTIFICATE

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NEW M

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

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

SHEET: 4-4 MADRON SURVEYING, INC. (575)

#### 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.

AD

MUCEPOPULAL CERTIFICATE IS EXECUTED AT CARLSBAD, MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 SURVEY NO. 9361A

NEW MEXICO

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## Labrador SWD #1 1980 FSL 1980 FEL Sec. 23 T15S R29E Formation Tops

Quaternary	Surface
Top Salt	462'
Base Salt	1023'
Yates	1187'
San Andres	2605'
Glorieta	4060'
Tubb	5382'
Abo	6155'
Wolfcamp	7495'
Atoka	9689'
U. Miss	10,200'
L. Miss	10,435'
Devonian	10,985'
Montoya	11,525'
Simpson	11,725'
Ellenburger	11,992'

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

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	294126
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)
CONDITIONS	

Created By	Condition	Condition Date
mgebremichael	None	12/13/2023

CONDITIONS

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Action 294126

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