RECEIVED:	REVIEWER:	TYPE:	APP NO:	
RECEIVED.				
	- Geologic 1220 South St. Fra	above this table for ocd div O OIL CONSERVA cal & Engineering ancis Drive, Santa	TION DIVISION Bureau – Fe, NM 87505	REPARTOR SHERE
THIS CH	ECKLIST IS MANDATORY FOR AL	ATIVE APPLICATION LADMINISTRATIVE APPLICA QUIRE PROCESSING AT THE I	TIONS FOR EXCEPTIONS TO	
Well Name:			API:	D Number:
				THE TYPE OF APPLICATION
A. Location – NS B. Check one [1] Comm	e only for [I] or [II] ingling – Storage – Me	aneous Dedication DJECT AREA) NSF	ו	SD
∐ [[] nje <u>c</u> ti	DHC CTB PL on – Disposal – Pressu WFX PMX SV	.C LPC LO re Increase – Enha	nced Oil Recove	FOR OCD ONLY
A. Offset of B. Royalty C. Applica D. Notifica E. Notifica F. Surface G. For all o	REQUIRED TO: Check to perators or lease hold , overriding royalty over ation requires published ation and/or concurrent e owner of the above, proof of ce required	ders vners, revenue ow ed notice ent approval by SLC ent approval by BLI	ners D M	 Notice Complete Application Content Complete
administrative a understand that	I hereby certify that t approval is accurate a t no action will be tak e submitted to the Div	and complete to th en on this applica	ne best of my kno	wledge. I also
Note	e: Statement must be complet	ted by an individual with	managerial and/or sup	ervisory capacity.

Print or Type Name

Deana Weaver

Signature

Date

Phone Number

e-mail Address

.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

	ATTLICATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance XXXDisposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Mack Energy Corporation
	ADDRESS: P.O. Box 960 Artesia, NM 88210
	CONTACT PARTY: Deana WeaverPHONE: 575-748-1288
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project?Yes _XXXXNo If yes, give the Division order number authorizing the project:No
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
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:
	SIGNATURE: DATE: DATE:
	E-MAIL ADDRESS: _dweaver@mec,com
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy Corporation

WELL NAME & NUMBER: Rooster SWD #1 F 34 T14S WELL LOCATION: 1650 FNL 1650 FWL R31E UNIT LETTER FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing Hole Size: <u>17 1/2</u>" Casing Size: <u>13 3/8</u>" Rooster SWD #1 Operator: Maok Energy Corpora Cemented with: 925 sx. or _____ ft^3 Location: Sec. 34 T143 R81E 1850 FNL 1850 FWL Objective: SWD; Devo OI Elevation: 4491-1 Top of Cement: 0 Method Determined: Circ Depth Casing Detail Cement 13 3/8" LCC C4 C8 Intermediate Casing 925sx CMT 1400 Sinc to Sunta 12.14° ho 958 L-80 40# 3900 Hole Size: <u>12 1/4"</u> Casing Size: <u>9 5/8"</u> 1255x CM Circ to Surfa Cemented with: 1125 sx. or _____ ft³ 3900 Top of Cement: 0 Method Determined: Circ 834"Hole 1750sx CMT Circ to Surface **Production Casing** 12,905 HCL-80 29# 12,905 Hole Size: <u>8 3/4</u>" Casing Size: <u>7</u>" Cemented with: <u>1750</u> sx. or _____ ft³ 3 10° 9 3 L-80 Te 0-12,905 IPC Top of Cement: 0 Method Determined: Circ K Nickle Plate Set 2.31 profile Nips 12,905 Total Depth: 13,600' Open Hole 12,900-13,600 **Injection Interval** TD-13,600 feet to 13,600' Open Hole 12,900'

(Perforated or Open Hole; indicate which)

.

Side 2

INJECTION WELL DATA SHEET

Tub	ing Size: <u>3 1/2"</u> Lining Material: <u>IPC</u>							
Type of Packer: 10K Arrowset Nickel Coated								
Pac	Packer Setting Depth: 12,905'							
Oth	er Type of Tubing/Casing Seal (if applicable):							
	Additional Data							
1.	Is this a new well drilled for injection? XXX YesNo							
	If no, for what purpose was the well originally drilled?							
2.	Name of the Injection Formation: Devonian							
3.	Name of Field or Pool (if applicable): SWD; Devonian 96101							
4.	Has the well ever been perforated in any other zone(s)? List all such perforated N/A intervals and give plugging detail, i.e. sacks of cement or plug(s) used.							
5.	5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:							
	Overlying- Woodford Oil/Gas @ 12,835', Underlying- Montoya @ 13,600'							
	Tops- Yates @ 2330', Sever Rivers @ 2545', Queen @ 3080', Grayburg @ 3455', San Andres @ 3775'							
	Glorieta @ 5300', Tubb @ 6615', Abo @ 7390', Wolfcamp @ 8710', Cisco @ 9590', Atoka @ 11,150', Miss @ 11,840'							

VII. DATA SHEET: PROPOSED OPERATIONS

- 1. Proposed average and maximum daily rate and volume of fluids to be injected; Respectively, 15,000 BWPD and 20,000 BWPD
- 2. The system is closed or open;

Closed

3. Proposed average and maximum injection pressure;

1,000psi average-2,580psi 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

- 6. List of Aquifers- Artesian, wells on POD are Shut-In unable to test fresh water.
- 7. Well Procedures- See attached
- 8. Seismic- Attached

VIII. GEOLOGICAL DATA

- 1. Lithologic Detail; Dolomite
- 2. Geological Name; SWD; Devonian
- 3. Thickness; 700' Openhole Completion (12,900-13,600')
- 4. Depth; TD 13,600'

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 10000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data will be filed with the OCD.

XI. ANALYSIS OF FRESHWATER WELLS

See attached Additional Information Waters Injected: San Andres

XII. AFFIRMATIVE STATEMENT

RE: Rooster 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: 4/9/2024

Charles Sadler, Geologist

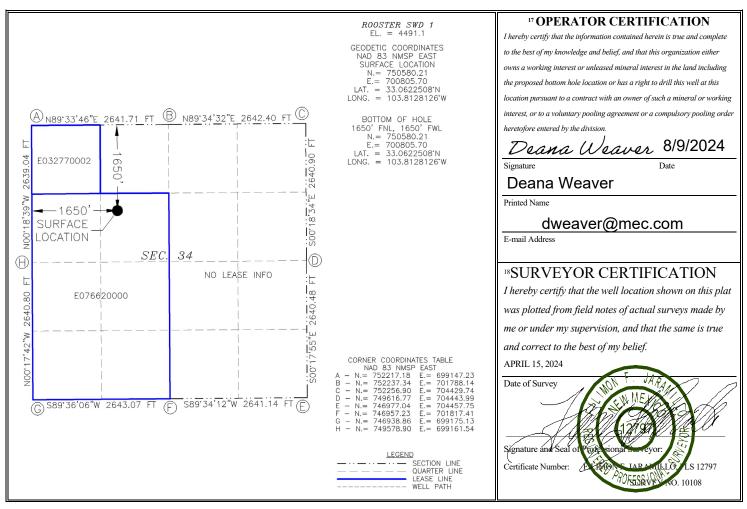
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

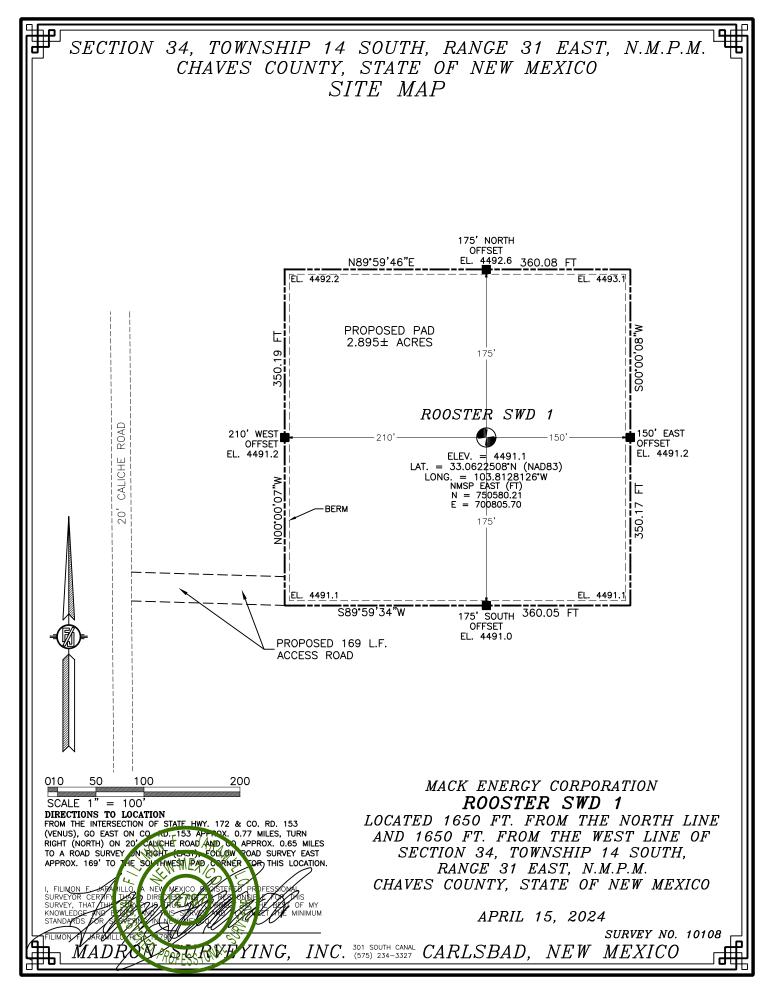
AMENDED REPORT

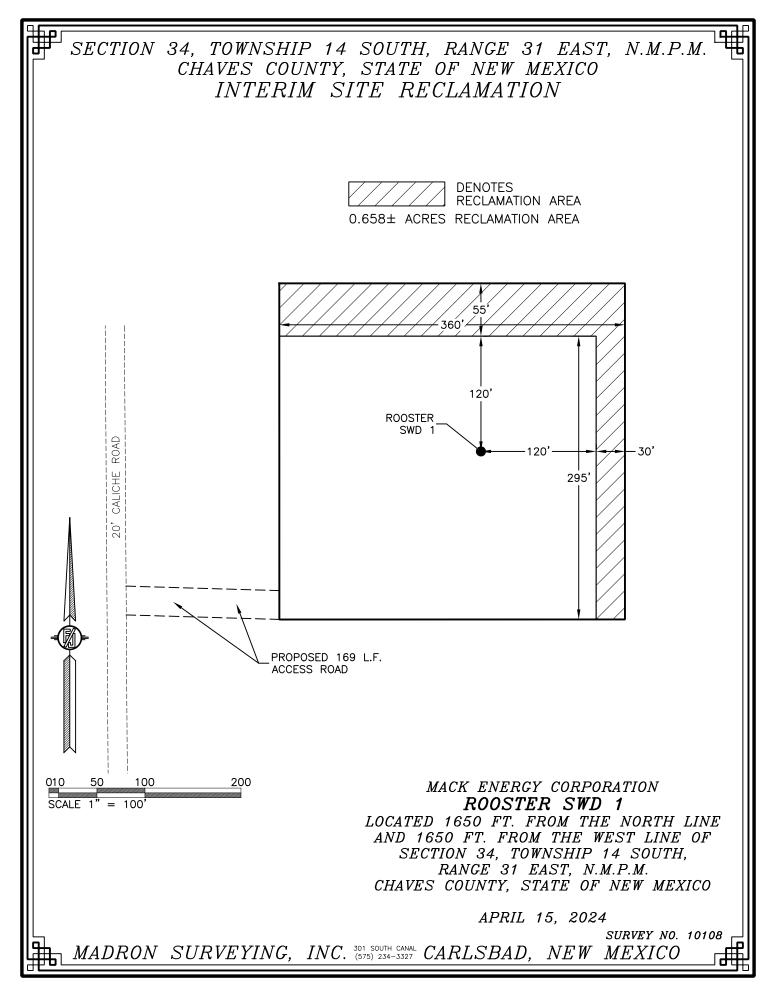
Page 8 of 132

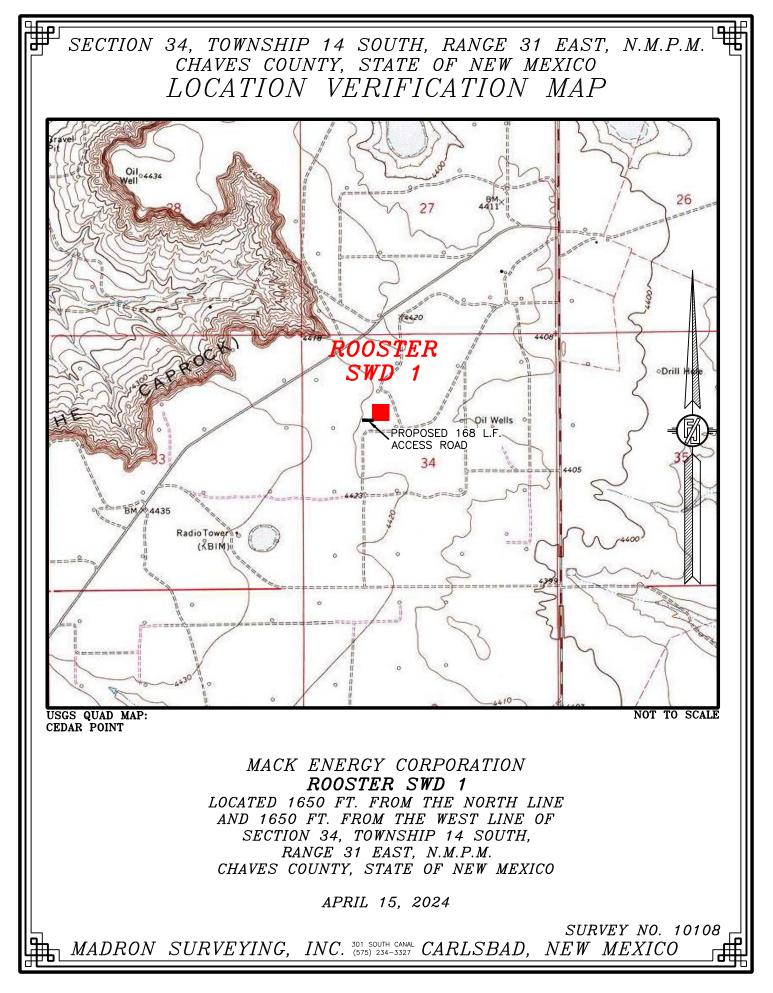
		W	ELL LC	DCATIO	N AND ACH	REAGE DEDIC	CATION PLA	Т		
				² Pool Code 96101	SM/D: Dovenion					
⁴ Property Code					⁵ Property	Name			⁶ Well Number	
					ROOSTE	R SWD			1	
⁷ OGRID	No.				⁸ Operator	Name				⁹ Elevation
13837	,			MAC	K ENERGY (CORPORATION				4491.1
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
F	34	14 S	31 E		1650	NORTH	1650	WES	ST	CHAVES
			пF	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/We	st line	County
F	34	14 S	31 E		1650	NORTH	1650	WES	ST	CHAVES
¹² Dedicated Acre	s ¹³ Joint	or Infill ¹⁴	Consolidation	n Code			¹⁵ Order No.			
40										

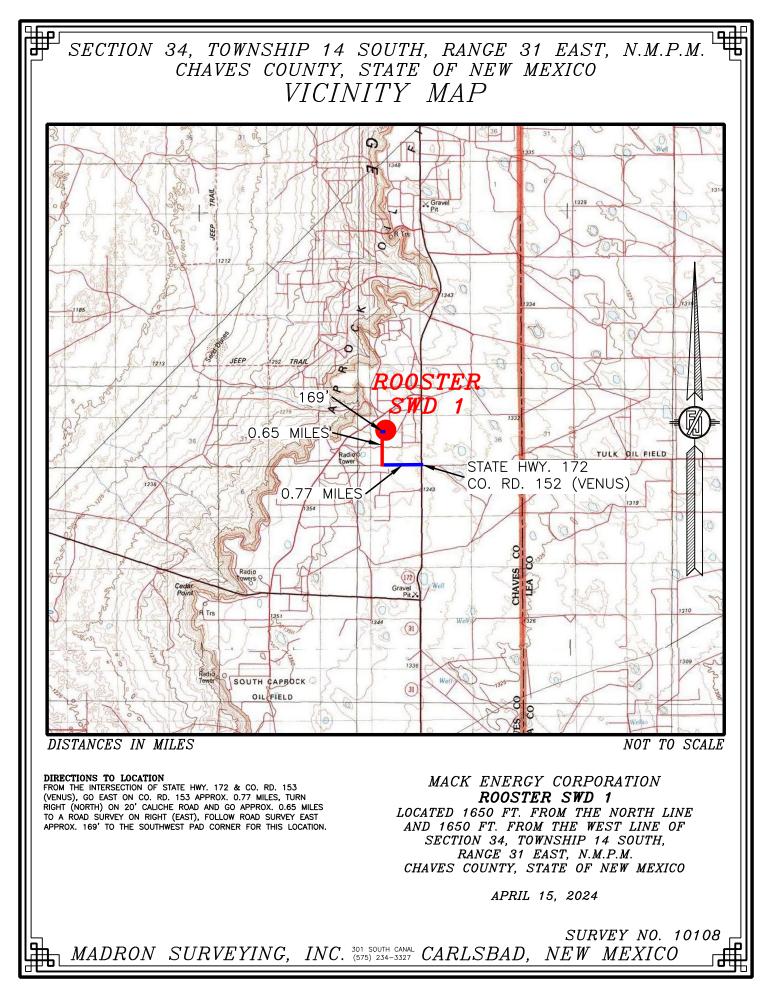
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

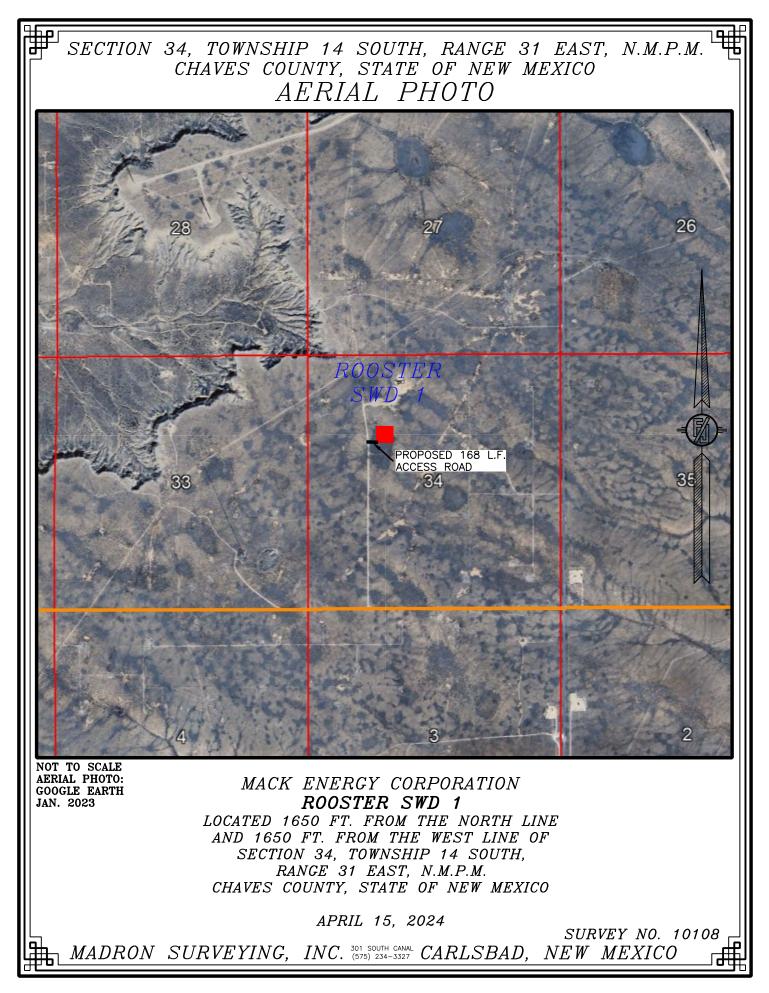


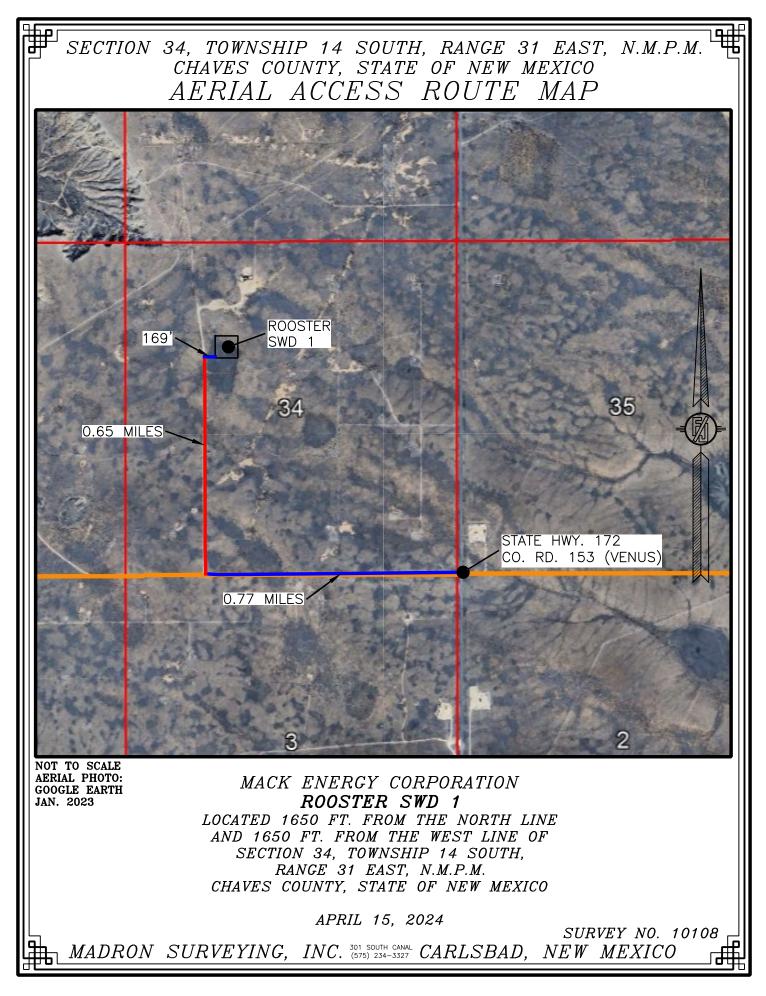


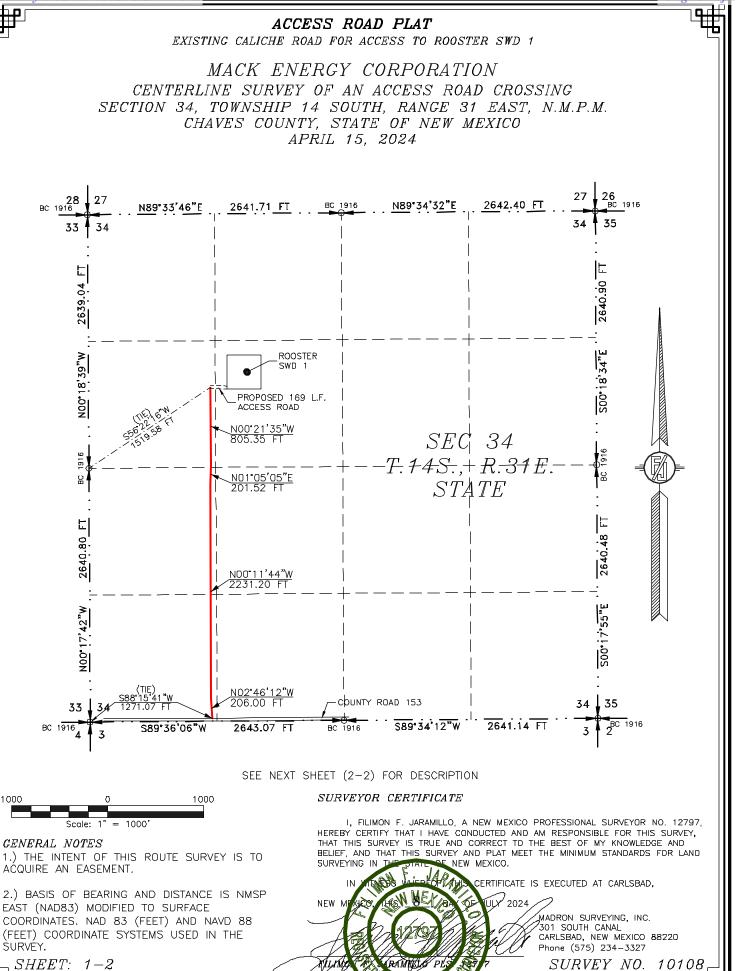












NEW MEXICO

AD

of 132

Released to Imaging: 9/16/2024 2:08:16 PM

MADRON SURVEYING (INC. 301 S.

1000

ACCESS ROAD PLAT

EXISTING CALICHE ROAD FOR ACCESS TO ROOSTER SWD 1

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. CHAVES COUNTY, STATE OF NEW MEXICO APRIL 15, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

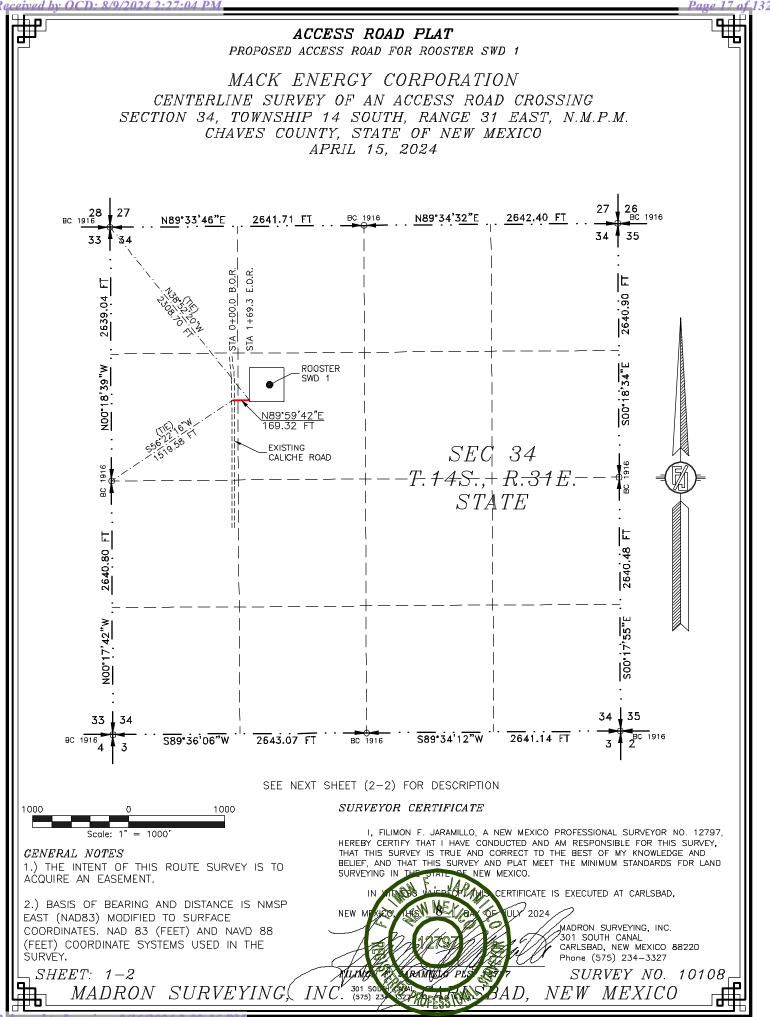
BEGINNING AT A POINT WITHIN THE SW/4 SW/4 OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S88'15'41"W, A DISTANCE OF 1271.07 FEET; THENCE N02'46'12"W A DISTANCE OF 206.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00'11'44"W A DISTANCE OF 2231.20 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N01'05'05"E A DISTANCE OF 201.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00'21'35"W A DISTANCE OF 805.35 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S56'22'16"W, A DISTANCE OF 1519.58 FEET;

SAID STRIP OF LAND BEING 3444.07 FEET OR 208.73 RODS IN LENGTH, CONTAINING 2.372 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4	1291.16 L.F.	78.25 RODS	0.889 ACRES
NW/4 SW/4	1320.43 L.F.	80.03 RODS	0.909 ACRES
SW/4 NW/4	832.48 L.F.	50.45 RODS	0.574 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, GENERAL NOTES 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 1.) THE INTENT OF THIS ROUTE SURVEY IS TO SURVEYING IN NEW MEXICO. ACQUIRE AN EASEMENT. CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP NEW M 2024 EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY. Phone (575) 234-3327 SHEET: 2-2 SURVEY NO. 10108 MADRON SURVEYING (INC. (575) NEW MEXICO AD



Released to Imaging: 9/16/2024 2:08:16 PM

PROPOSED ACCESS ROAD FOR ROOSTER SWD 1

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. CHAVES COUNTY, STATE OF NEW MEXICO APRIL 15, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 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 NW/4 OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S56'22'16"W, A DISTANCE OF 1519.58 FEET; THENCE N89'59'42"E A DISTANCE OF 169.32 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 34, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N38'52'20"W, A DISTANCE OF 2308.70 FEET;

SAID STRIP OF LAND BEING 169.32 FEET OR 10.26 RODS IN LENGTH, CONTAINING 0.117 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 NW/4	51.02 L.F.	3.09 RODS	0.036 ACRES
SE/4 NW/4	118.30 L.F.	7.17 RODS	0.081 ACRES

SURVEYOR CERTIFICATE

IN

NEW M

 CENERAL NOTES
 HER

 1.) THE INTENT OF THIS ROUTE SURVEY IS TO
 BELI

 ACQUIRE AN EASEMENT.
 SUR

MADRON SURVEYING (INC. 301 S.

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.

Released to Imaging: 9/10/2024 2:08:10 PM

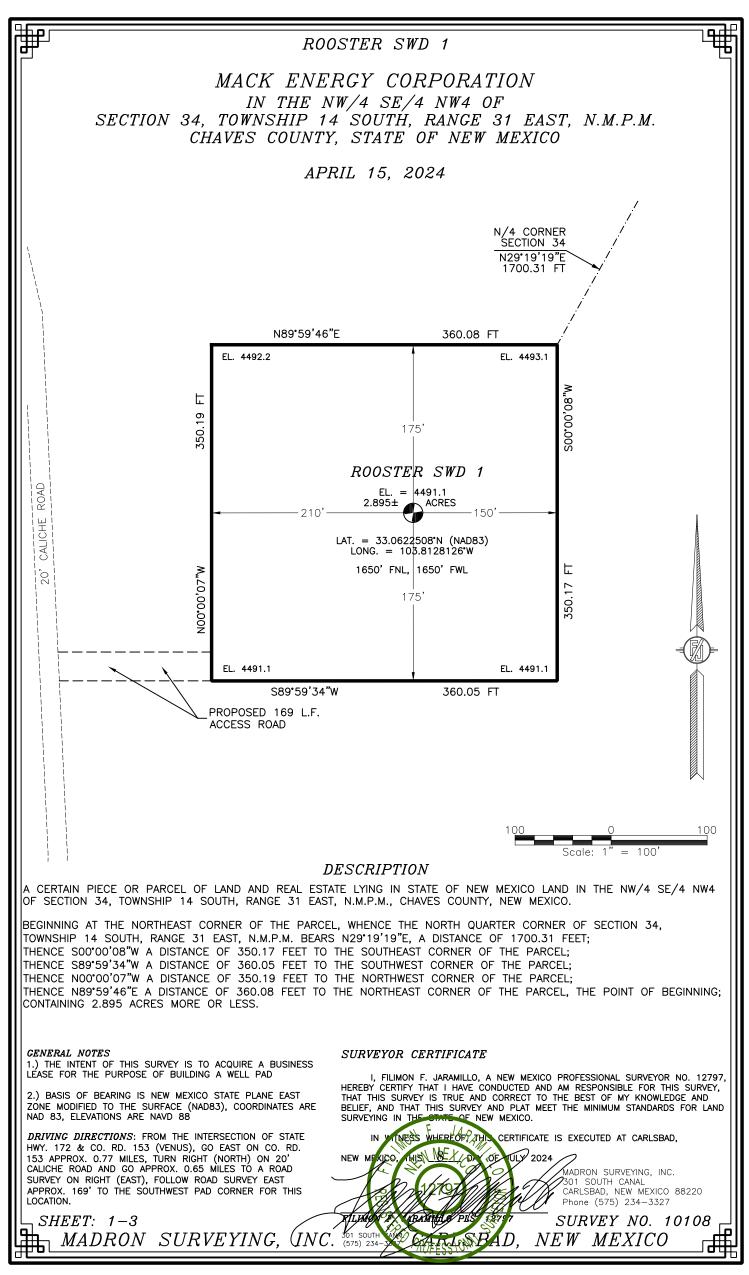
SHEET: 2-2

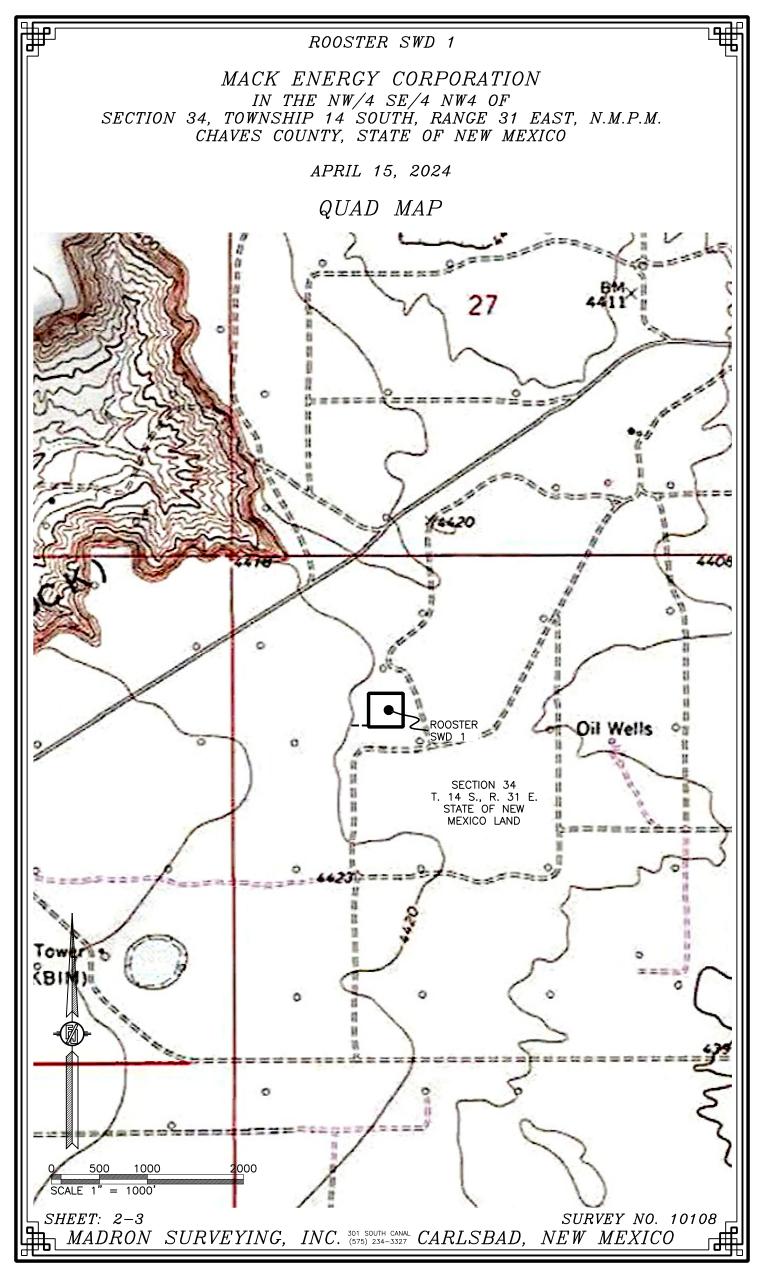
I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

AD

CERTIFICATE IS EXECUTED AT CARLSBAD, 5 JULY 2024 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3327 SURVEY NO. 10108

NEW MEXICO

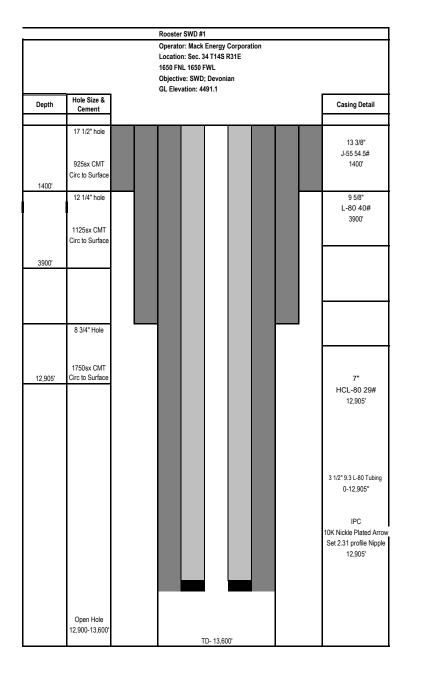




Released to Imaging: 9/16/2024 2:08:16 PM

Page 21 of 132





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

July 14th, 2023

Clérk

Sworn and subscribed to before me

this 1/8 th day of July, 2024

Notary Public



Public Notice ...

Publish July 14, 2024

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Rooster SWD #1 1650 FNL 1650 FWL of Section 34, T14S, R31E, NMPM, Chaves County, New Mexico. The water will be injected into the Devonian at a disposal depth of 12,900-13,600'. Water will be injected at a maximum surface pressure of 2,580# and a maximum injection rate of 15,000-20,000 BWPD. Any interest party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960 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. Received PublicDN8 Page 24 of 132 PM

Publish July 14, 2024

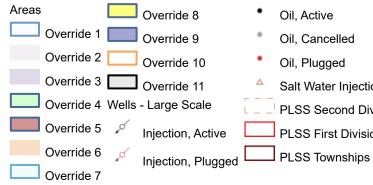
Mack Energy Corporation, Post Office Box 960 Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Rooster SWD #1 1650 FNL 1650 FWL of Section 34, T14S R31E, NMPM, Chaves County, New Mexico. The water will be injected into the Devonian at a disposal depth of 12,900-13,600'. Water will be injected at a maximum surface pressure of 2,580# and a maximum injection rate of 15,000-20,000 BWPD. Any interest party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960 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, Willmeilleen days of the date of Bublication of this notice.

Received \$145 SWD9#1024 2:27:04 PM Sec. 34 114S R31E 1650 FNL 1650 FWL

OCD Well Locations

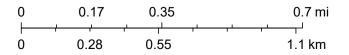
	ace Owener Map									
20	SWSW SESU30-005-0 (M) 30-005-01112) 2	01110 30-005-0 1 SWSE (O)	1118 SESE (P)	SWSW (M)	SESW 22 (N) 22	swse 30-0 (0)	SESE 005-01128)	01131 _{SWSW} 30:005-011	3723 SESW (N)	\$WSI (0)
VENE (A)	30-005-01157 NWNW NENW (-D) (C)	1156 _{NWNE} (B) Union Oil Co.	NENE (A) of California	NWNW (D)	NENW (C)	NWNE (B)	NENE 30≩005-011	30-005-0114 NWNW 54 (D)	1 NENW (C)	NWN (B)
SENE (H)	4436 ft 30-005 (E) 4436 ft 30-005 SENW (F) 4 30-005 SENW 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	01159 SWNE (G)	SENE (H)	SWNW (E) 30	SENW -005-01152 30-00 Chevron USA	30-005 SWNE 15-01151) Minc	-01144 SENE 30-005-0114	SWNW 3 (E)	SENW (F)	SWN (G)
29 - VESE (1)	NWSW (L) 30-005-01160 (K) 30-005-01165	8 (J) Kevin Butler	NESE (1) 30-005	-0116430-005-011	Chevroi	NWSE 30:005-011 n ÚSA Inc	NESE 47 30-005-211	72 NWSW 3 (L) BLM- F	01140 NESW 4404 JK) Roswell	Urs NWSE (J)
SESE (P)	SWSW SESW	(evin Butler SWSE (0)30-005	SESE 01161 (P)	\$305005-011 (M) 145	30-005-01146	30-005 SWSE (-O) evron USA Inc	SESE (P)	30-005-1041 • (M) BLM- Ro	(N)	swsi (O)
VENE (A)	30-005-01190 30-0 30-005-01191 NWNW NENW (Kevin Butler (C)	NWNE (B)	.0	Kevin Butler 005-01187	30-005-01 30-005-01209	71	01198 00-005 NEME (A) e Land		00544 _{NENW} Corpo ra tion	NWNI (B)
SENE (H) 32 -	SWNW SENW 30-0 (E) 30-005-10193 (F) 4438	Ø		05-01 <u>186 30-005</u> (/E)		1206 30-005 SWNE VD #4)	-01195 SENC (H)	usan Maunder (E) Ch	45 (F) ase Oil Corpo	SWNI (G) pratior
NESE (I)	Kovin Butler	01192 NWS20-005-0 (J) EOG		01185 30-005 NWSW (°L)	-01204 NESW (K)	(J)	01207 00-005 NESE (1) te Land	(L)	NESW (K) Dil Corporatior	NWSI (J)
SESE (P)	30-005-01179 SWSW SESW (-M) (N)	30-005 01193 swse (O)	01183 30-005 SESE (P)	01184 30-005 Chevron U	-01203 JSA Ines <mark>30-005-</mark> 01			8 120130-005-2911 (M)	4 SESW (N)	swsi (O)
	30-005-29069 30-005-00553 Le4 Le4	30-005-0055 -00555 Kevin I L 2	30-005 J¢1				30-	marex Energy L 4 005-29199	L 3	L2
SENE (H) 05	30-005-00554 SWNW SENW (E) (F) 0	4	SENE (H30-005-	SWMW 0569 (*E)	30-005-00 -00552 SENKevin Bi (F)	utler(G)	(H) •	0-005-29195 (E)	4395 ft SENW (F) 02	SWNI (G)
VESE (1)	30-005-00558 30-005 NWSW NESW (*L) (*K)	-00561 NWSE (J)	30-005-005 Souther States (1)	30-005-0054 65 △ NWSW (L)	8 NES ³⁰⁻⁰⁰⁵⁻¹⁰ (K)	30-005-1015 1152 _{NWSE} (J)	4 NESE ³⁰⁻⁰ (1)	05-29120 _{VSW} VWSW (L)	NESW (K)	NWSI (J)
SESE (P)	SWSW SESW (M) ³⁰⁻⁰⁰⁵⁻⁰⁰⁵⁶⁰ (N) 30-005-00560	30-005-005 SWSE 00562 (O)	53 SESE (P)	0564 30-005-1015 (M)	SESW (N <u>30-005-1</u> 0	SWSE 153 (O)	SESE (P) 30-0	SWSW 05-29119 ^M)	SESW (N)	swsi (0)

4/23/2024, 2:26:32 PM



- Oil, Cancelled
- Oil, Plugged
- Salt Water Injection, Plugged
- L _ _ PLSS Second Division
 - PLSS First Division

1:18,056



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

New Mexico Oil Conservation Division

Released to Imaging: 9/16/2024 2:08:16 RM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Rooster SWD #1 Sec. 34 T14S R31E 1650 FNL 1650 FWL Chaves, NM

Proof of Notice

Mineral / Surface Owner List

Name		Address	City	State	Zip	Certified Mail Id
New Mexico State Land Office	Mineral / Surface Owner	310 Old Santa Fe Trail	Santa Fe	NM	87501	<u>9589 0710 5270 0175 5638 95</u>
Bureau Of Land Management	Mineral / Surface Owner	2909 W. Second Street	Roswell	NM	88201	9589 0710 5270 0175 5639 01
Union of California	Surface Owner	6301 Deauville Blvd	Midland	TX	79706-2964	9589 0710 5270 0175 5639 18
Chevron USA Inc	Surface Owner	6301 Deauville Blvd	Midland	TX	79706-2964	9589 0710 5270 0175 5639 25
Kevin Butler & Asso. Inc	Surface Owner	P.O. Box 1171	Midland	TX	79702	9589 0710 5270 0175 5639 32
Susan Maunder	Surface Owner	600 W. Illinois Ave	Midland	TX	79701	9589 0710 5270 0175 5638 33
Cimarex Energy Co.	Surface Owner	6001 Deauville Suite 300	Midland	TX	79701	9589 0710 5270 0175 5638 40
EOG Resouces Inc	Surface Owner	1111 Bagby St. Sky Lobby 2	Houston	TX	77002	9589 0710 5270 0175 5638 57





August 9, 2024

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

<u>Via Certified Mail 9589 0710 5270 0175 5639 01</u> Return Receipt Requested

Bureau of Land Management 2909 W. Second Street Roswell, NM 88201

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/





August 9, 2024

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

Via Certified Mail 9589 0710 5270 0175 5638 95 Return Receipt Requested

Commissioner of Public Lands New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504-1148

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/



August 9, 2024

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

Page 29 of 132

Via Certified Mail 9589 0710 5270 0175 5639 18 Return Receipt Requested

Union of California 6301 Deauville Blvd Midland, TX 79706-2964

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/





August 9, 2024

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

<u>Via Certified Mail 9589 0710 5270 0175 5639 25</u> Return Receipt Requested

Chevron USA INC 6301 Deauville Blvd Midland, TX 79706-2964

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/





August 9, 2024

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

<u>Via Certified Mail 9589 0710 5270 0175 5639 32</u> Return Receipt Requested

Kevin Butler & Associates Inc. P.O. Box 1171 Midland, TX 79702

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/



August 9, 2024

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

Page 32 of 132

Via Certified Mail 9589 0710 5270 0175 5638 33 Return Receipt Requested

Susan Maunder 600 W. Illinois Ave Midland, TX 79701

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/





August 9, 2024

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

Via Certified Mail 9589 0710 5270 0175 5638 40 Return Receipt Requested

Cimarex Energy Co. 6001 Deauville Suite 300 Midland, TX 79701

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eana Weaver

Deana Weaver Regulatory Technician II

DW/





August 9, 2024

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

Via Certified Mail 9589 0710 5270 0175 5638 57 Return Receipt Requested

EGO Resources INC 1111 Bagby St. Sky Lobby 2 Houston, TX 77002

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 12,900-13,600'. The Rooster SWD #1 located 1650 FNL & 1650 FWL, Sec. 34 T14S R31E, 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

eanaWeaver

Deana Weaver Regulatory Technician II

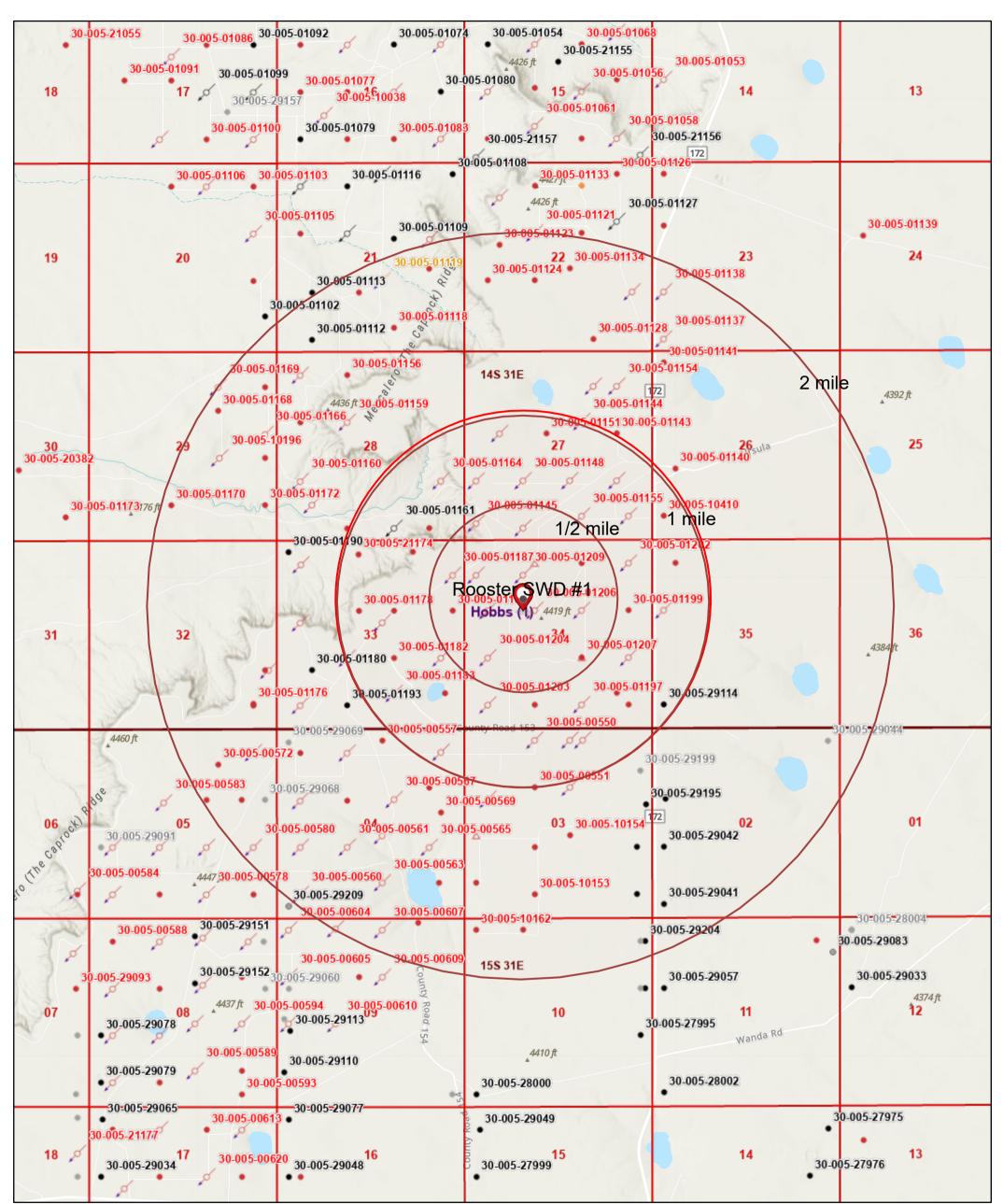
DW/

•

Rooster SWD #1 1650 FNL 1650 FWL Sec. 34 T14S R31E Formation Tops

Quaternary	Surface
Rustler	1360'
Top Salt	1450'
Base Salt	2020'
Yates	2330'
Seven Rivers	2545'
Queen	3080'
Grayburg	3455'
San Andres	3775'
Glorieta	5300'
Tubb	6615'
Abo	7390'
Wolfcamp	8710'
Cisco	9590'
Atoka	11,150'
Miss	11,840'
Woodford	12,835
Devonian	12,900'
Montoya	13,600'

OCD Well Locations



7/9/2024, 9:19:55 AM

Override 1

ŗ

Wells - Large Scale

- Injection, Active
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
 - Oil, Cancelled
- Oil, Plugged

Oil, Temporarily Abandoned

- Salt Water Injection, Plugged
- **OCD** Districts
- **PLSS First Division**
- **PLSS** Townships

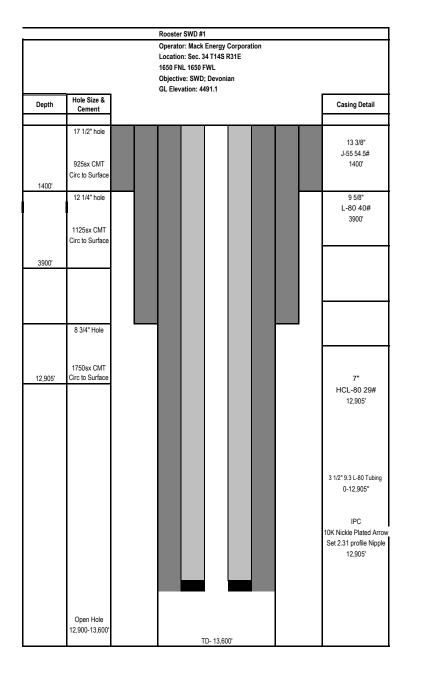
1:36,112

1.4 mi 0.35 0.7 0 0 0.5 2 km 1

Esri, NASA, NGA, USGS, FEMA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, BLM, Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/ NASA, USGS, EPA, NPS, US Census Bureau, USDA,

New Mexico Oil Conservation Division

Released to Imaging: 9/16/2024 2:08:16 RM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division



Rooster SWD #1

Bit Size

17 1/2"Surface- 1400' 13 3/8" 54.5# J55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	Class C +4%PF20+1% PF1+ 0.125#/skPF29+.4%PF45	13.5	2.31	9.166	725	100	Surface
Tail	Class C+1%PF1	14.8	1.32	6.307	200	100	200′

Comments	20bbls Gelled Water.	Cu./Ft	
	50 sacks of 11# Scavenger	Per	973
	cement.	Lin./ Ft.	

Bit Size

12 ¼"	Intermediate- 3,900' 9 5/	8 <mark>40</mark> # J55	5				
				Mix H2O	# of Sacks	% Excess	Slurry Top
Stage 1	Slurry	Density	Yield	Gals./sk			
Lead	Class C +4%PF20+1% PF1+			9.123	925	50	Surface
	0.125#/skPF29+.4%PF45	13.5	1.72				
Tail	Class C + 1% PF1	14.8	1.34	6.307	200	50	200′

Comments		Cu./Ft
	20bbls Gelled Water.	Per
	50 sacks of 11# Scavenger	Lin./ Ft.
	cement.	1222

Bit size

Production- 12,905'

8 ¾″	7"- <mark>29</mark> # HCL-80						
				Mix H2O	# of Sacks	% Excess	Slurry Top
Stage 1	Slurry	Density	Yield	Gals./sk			
Lead	Class "C" 4% PF20+4 pps			9.914	350	0	Surface
	PF45+125pps PF29	13.2	1.84				
Tail	PVL+1.3 (BWOW) PF44+5%			7.577	1400	50	3800'
	PF174+.5%PF606+.1%PF153+.4						
	ppsPF44	13	1.48				

Comments	20bbls Gelled Water.
	20bbls Gelled Water. 20bbls Chemical wash.
	50 sacks of 11# Scavenger
	cement.

Rooster SWD #1

Stage 2	Slurry	Density	Yield	# of sacks	% Excess	Slurry Top
Lead						
Tail						
		Cu./Ft Per Lin./ Ft. 1940				
Comments	:					

Prior to any cement job it is Mack Energy policy to circulate bottoms up 1 time before commencing with cement operations. On wells where hole conditions have been an issue during the drilling and reaming process the number or circulations needs to increase to a minimum of 2 times around.

All production cement figured with an additional 10% for washout unless otherwise noted. Flush is figured with a 40' shoe joint. Do not displace more than 2bbls over calculated flush without prior approval.

Received by OCD: 8/9/2024 2:27:04 PM

73	10		c .	2.0
Page	40	0	11	34

Casing Design	Well: Roo	ster SWD #1						
String Size & Function		13 3/8 in	surface	x	ir	- ntermediate		
-		<u>13 3/0</u>	Jundee	~		iterineulate		
Total Depth:	<u>1400</u> ft							
Pressure Gradient for	Calculations			(While drill	ing)			
Mud weight, <u>collapse</u> :		9.6 #/gal		Safety Facto	r Collapse:	1.125		
Mud weight, <u>burst</u> :		9.6 #/gal		Safety Facto	or Burst:	1.25		
Mud weight for joint s	trength:	9.6 #/gal	Safety	/ Factor Joint	Strength	1.8		
BHP @ TD for:	collapse:	698.88 psi	Burst	698.88	nci ioin	t strength:	698.88 g	aci
		<u></u>	Durst		poi, join	t strongth.		51
Partially evacuated h	ole? Pres	ssure gradient re	maining:	10	#/gal			
Max. Shut in surface	pressure:	50	00 psi					
1st segment O.D.	1400 ft Weight	to Grade	0 ft Threads	-	up Torque min.	e ft-lbs mx.	Total ft =	1400
13.375 inches Collapse Resistance	54.5 #/ft Internal Yie	J-55	Strength	5,140 Body `	3,860	6,430 Drift		
1,130	2,730 psi	333313331333133313333	4 ,000 #		,000 #	12.459		
				-	_			
O.D.	0 ft Weight	to Grade	0 ft Threads		up Torque min.	e ft-lbs mx.	Total ft =	0
inches Collapse Resistance	#/ft Internal Yie	eld Joint S	Strength	Body	Yield	Drift		
psi	psi		,000 #	ataaataaaataaaataaataa	,000 #			
3rd segment	0 ft	to	0 ft	Make	up Torque	e ft-lbs	Total ft =	0
0.D.	Weight	Grade	Threads		min.	mx.		0
inches Collapse Resistance	#/ft Internal Yie	eld Joint S	Strength	Body `	Yield	Drift		
psi	psi		,000 #		,000 #			
4th segment	0 ft	to	0 ft	Make	up Torque	off lbs	Total ft =	0
O.D.	Weight	Grade	Threads		min.	mx.		0
inches	#/ft	alal laint (Otwo w with	De du i V	Viold	Drift		
Collapse Resistance psi	Internal Yie psi	Joint 3	Strength ,000 #	Body	,000 #	Drift		
				_				
5th segment O.D.	0 ft Weight	to Grade	0 ft Threads		up Torque min.	e ft-lbs mx.	Total ft =	0
inches	#/ft							
Collapse Resistance psi	Internal Yie psi	ad Joint 3	Strength ,000 #	Body	,000 #	Drift		
				1	_			
6th segment O.D.	0 ft Weight	to Grade	0 ft Threads		up Torque min.	e ft-lbs mx.	Total ft =	0
inches	#/ft	laint (Ctuc u ath	Deduk	Viold	Drift		
Collapse Resistance psi	Internal Yie psi		Strength ,000 #	Body	,000 #	Drift		
Select 1st segme	nt bottom		1400		S.F.	Actual		Desire
1400 ft to	0 ft				collapse burst-b	1.616873 5.15951	>= >=	1.125 1.25
	J-55 ST8				burst-t	5.46		
Select 2nd segme	Top of segment ent from bottom	L I (IĽ)	C	_	S.F. collapse	Actual #DIV/0!	>=	Desire 1.125
0 ft to	0 ft				burst-b burst-t	0 0	>=	1.25
0 0		0				7.896388	>=	1.8

Received by OCD: 8/9/2024 2:27:04 PM

Casing Design	Well:	Roo	ster SV	VD #1				_		
String Size & Function	1:		9 5/8	in	surface		. i	ntermediate	x	
Total Depth:	3900) ft			TVD:		3900	<u>)</u> ft		
Pressure Gradient for	Calculation	ns				(While dril	ling)			
Mud weight, <u>collapse</u> :			10.3	#/gal		Safety Facto	or Collapse:	1.125	-	
Mud weight, <u>burst</u> :			10.3	#/gal		Safety Fact	or Burst:	1.25	-	
Mud weight for joint s	strength:		10.3	#/gal	Safety	Factor Join	t Strength	1.8		
BHP @ TD for:	collapse:	2	088.84	psi	Burst	2088.84	psi, join	t strength:	2088.84	osi
Partially evacuated h	ole?	Pres	ssure gi	radient rem	aining:	10	#/gal			
Max. Shut in surface	pressure:			500	psi					
1st segment	3900) ft	to	0	ft	Make	e up Torque	e ft-lbs	Total ft =	3900
O.D.	Wei	ight		Grade	Threads	opt.	min.	mx.		
9.625 inches Collapse Resistance	Intern		eld	L-80 Joint St	-	7,270 Body		9,090 Drift		
3,090 psi	5,750	psi		727	,000 #	916	,000 #	8.75-SD		
2nd segment	<u> </u>	ft	to		ft	Make	e up Torque	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yie	eld	Joint St	-	Body		Drift		
psi		psi			,000 #		,000 #			
3rd segment	C) ft	to	0	ft	Make	e up Torque	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yie	eld	Joint St	-	Body		Drift		
psi		psi			,000 #		,000 #			
4th segment	C) ft	to	0	ft	Make	e up Torque	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yie	eld	Joint St	-	Body		Drift		
psi		psi			,000 #		,000 #			
5th segment	C) ft	to	0	ft	Make	e up Torque	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yie psi	eld	Joint St	rength ,000 #	Body	Yield ,000 #	Drift		
psi		psi			,000 #		,000 #]	
6th segment	C) ft	to	0	ft	Make	e up Torque	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yie	eld	Joint St	-	Body		Drift		
psi		psi			,000 #		,000 #		1	
Select 1st segme	nt bottom				1200		S.F.	Actual 1.47929	<u> </u>	Desire
3900 ft to) ft		1			collapse burst-b	13.09318	>= >=	1.125 1.25
9.625 0	L-80 Top of seg	LT& gment			0		burst-t S.F.	11.5 Actual		Desire
Select 2nd segme	ent from bot	ttom				_	collapse burst-b	#DIV/0! 0	>= >=	1.125 1.25
0 ft to 0 0) ft)	0				burst-t jnt strngth	0	>=	1.8
U U		•	0	1			Jurgangar	0.002000		1.0

Received by OCD: 8/9/2024 2:27:04 PM

Casing Design	Well:	Rooster SV	VD #1						
String Size & Function	n:	7	in	Production	x	_			
Total Depth:	12905	ft		TVD:		1290	95_ft		
Pressure Gradient for	⁻ Calculatior	ıs			(While dri	lling)			
Mud weight, collapse	:	10.3	#/gal	:	Safety Facto	or Collapse	2: 1.125	80000	
Mud weight, <u>burst</u> :		10.3	#/gal		Safety Fac	tor Burst:	1.25		
Mud weight for joint s	strength:	10.3	#/gal	Safety	Factor Join	it Strength	1.8		
			•						
BHP @ TD for:	collapse:	6911.918	psi	Burst:	6911.918	psi, joi	nt strength:	6911.918 ps	i
Partially evacuated h	ole?	Pressure gr	radient rem	aining:	10	#/gal			
Max. Shut in surface	pressure:		3000	psi					
					-				
O.D.	12905 Wei		0 Grade	ft Threads	Mak opt.	e up Torqu min.	ue ft-lbs mx.	Total ft =	12905
7 inches) #/ft	HCL-80	Buttress	5970	4480	7460		
Collapse Resistance 9,200 psi	Intern 8,160	al Yield psi	Joint St 780	trength ,000 #		Yield ,000 #	Drift 6.059		
		ai -							
2nd segment) ft to	0	ft	Mak	e up Torqu	ie ft-lbs	Total ft =	0
O.D. 7 inches	Wei 26	ght ; #/ft	Grade HCP-110	Threads Buttress	opt. 6,930	min. 5,200	mx. D 8,660		
Collapse Resistance 7,800 psi	Intern 9,950	al Yield psi-Ircr	Joint St			Yield ,000 #	Drift 6.151		
P0.		pornor		,000 //		,000 //		1	
3rd segment	0	ft to	0	ft	Mak	e up Torqu	ıe ft-lbs	Total ft =	0
O.D.	Wei		Grade HCP-110	Threads	opt.	min.	mx.		
7 inches Collapse Resistance		i #/ft al Yield	Joint St		6930 Body	5200 Yield	8660 Drift		
7,800 psi	9,950	psi	693	,000 #	830	,000 #	6.151		
4th segment) ft to	0) ft	Mak	e up Torqu	io ft lbc	Total ft =	0
O.D.	Wei		Grade	Threads	opt.	min.	mx.	TOLAL IL -	0
inches		#/ft							
Collapse Resistance psi	Intern	al Yield psi	Joint St	trength ,000 #	Body	Yield ,000 #	Drift		
por		Poi		,000 //		,000 #		1	
5th segment	0) ft to	0	ft	Mak	e up Torqu	le ft-lbs	Total ft =	0
O.D. inches	Wei	ght #/ft	Grade	Threads	opt.	min.	mx.		
Collapse Resistance	Intern	al Yield	Joint St		Body	Yield	Drift		
psi		psi		,000 #		,000 #		1	
6th segment	0) ft to	0	ft	Mak	e up Torqu	ue ft-Ibs	Total ft =	0
0.D.	Wei		Grade	Threads	opt.	min.	mx.		
inches		#/ft			. .	<u></u>			
Collapse Resistance psi	Intern	al Yield psi	Joint St	,000 #	Body	Yield ,000 #	Drift		
Select 1st seame	unt hottom			10005		S.F.	A 0411-1		Decirc
Select 1st segme	m DOLLOM		-	12905	1	S.F. collapse	Actual 1.331034	>=	Desire 1.125
12905 ft to 7 0	0 HCL-80) ft Buttress				burst-b burst-t	2.915658 2.72	>=	1.25
	Top of seg	ment 1 (ft)		0		S.F.	Actual		Desire
Select 2nd segme	ent from bot	tom				collapse	#DIV/0!	>=	1.125

3.316667

3.316667

jnt strngth 2.474088

burst-b

burst-t

>=

>=

1.25

1.8

0 ft to 0 ft 7 26 HCP-110 Buttress

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

Operator Well Name	API #	County		Sec	TWN	RNG	Туре	Status	Spud Date	Comp Date	TD	PBTD	Comp Zone	Comp Interval	Hole Size	Casing Prog	Cement	Cmt Plug
ck Energy Corporation Rooster SWD #1		Chaves	1650 FNL 1650 FWL	34	14S	31W	SWD	New			13600	13600	SWD; Devonian	12,900-13600' Open Hole	17 1/2"	13 3/8" @ 1,400'	925sx	
															12 1/4"	9 5/8" @ 3,900'	1125sx	
															8 3/4"	7" @ 12,905'	1750sx	
			<u> </u>	+		+	+	+							+			
Ongard Well Operator Pre-Ongard Well #3	30-005-01152	Chaves	2310 FNL 990 FWL	27	14S	31E	Oil	P&A	5/31/1957	6/11/1957	3125	3125	Caprock Queen	3114-3125' Open Hole	11"	8 5/8" @ 268'	175sx	CIBP @ 3010' w/ 35' cmt cap
Burleson Inc State D #3	30-003-01132	CildVe3	2310111123301711	21	140	JIL .	01	5/15/1986	3/31/133/	0/11/1337	5125	5125	Capitock Queen	3114-3123 Open Hole	7 7/8"	4 1/2" @ 3114'	75sx	CIBP @ 280'
							1	0/10/1000							1 110	4 1/2 @ 0114	105X	Perf @ 268' w/ 55sx
																		95sx @ 0-268'
Ongard Well Operator Pre-Ongard Well #2	30-005-01151	Chaves	2310 FNL 2310 FWL	27	14S	31E	Oil	P&A	5/15/1957	5/24/1957	3100'	3093'	Caprock Queen	3093-3112' Open Hole	11"	8 5/8" @ 258'	175sx	CIBP @ 2985' w/ 35' cmt cap
s Burleson Inc State D #2								9/9/1987							7 7/8"	4 1/2" @ 3093'	75sx	CIBP @ 260'
																		Perf Sqz @ 252'
																		Circ Cmt w/ 128sx in & out of pipe
ngard Well Operator Pre-Ongard Well #8	30-005-01144	Chaves	1980 FNL 1980 FEL	27	14S	31E	Oil		1/21/1957	1/29/1957	3111'		Caprock Queen	3094-3096'	10 3/4"	8 5/8" @ 328'	175sx	CIBP @ 3094' w/ 35' cmt cap
& Miller Auctioneers Inc Eastcap Queen #8								2/4/1975							7 7/8"	5 1/2" @ 3111'	100sx	Perf @ 245'
																		100' Cmt Plug w/ 10sx
ngard Well Operator Pre-Ongard Well #7	30-005-01143	Chaves	2310 FNL 990 FEL	27	14S	31E	Oil		8/21/1957	8/28/1957	3124'		Caprock Queen	3097-3100'	11"	8 5/8" @ 313'	175sx	CIBP @ 3097' w/ 35' cmt cap
& Miller Auctioneers Inc Eastcap Queen #7								2/4/1975						_	7 7/8"	5 1/2" @ 3124'	100sx	Perf @ 1134' w/ 100' cmt plug
					_													100' cmt @ 313'
					_													Cap w/ 10sx Cmt
	00.000		4050 50: 01:	0.0	4.00		0.1		0/0/10/10	0/0// 077	0.00							
Dil Company of Californ South Caprock Queen Unit #9	30-005-01164	Chaves	1650 FSL 660 FEL	28	14S	31E	Oil		6/3/1957	6/8/1957	3037'		Caprock Queen	3013-3016'	11"	8 5/8" @ 199'	125sx	50sx cmt ply @ 2832-3016'
			<u> </u>			+	+	2/28/1969	 			I			7 7/8"	5 1/2" @ 3037'	175sx	150sx cmt plug @0-1300'
			<u> </u>			+	+	+	 			I						5sx cmt plug @ 0-20'
	00.005.0005	~	4050 501 555 555	1	1.10	0.15	0.1	-	0/0//	0/1 / / 0	0.405	I				0.5100.00.00		
Ingard Well Operator Pre-Ongard Well #11	30-005-01150	Chaves	1650 FSL 330 FWL	27	14S	31E	OI		2/6/1957	2/14/1957	3125'	I	Caprock Queen	3106-3125'	11"	8 5/8" @ 242'	150sx	CIBP @ 3008' w/ 5sx cmt cap
& Miller Auctioneers Inc Eastcap Queen Pool Unit #11			<u> </u>			+	-	1/24/1974			-				7 7/8"	4 1/2" @ 3113'	75sx	40sx cmt plug @ 792'
			<u> </u>			+	-	+			-							40sx cmt plug @ 280'
			<u> </u>			+	-	+			-							10sx cmt plug @ surface
agard Wall Operator	20.005.04440	Chevre -	1650 501 4650 514	27	140	21	01	D0 4	10/7/4050	10/14/1050	21001		Fast Carreek Origin	2106 2112	44"	0 5/01 @ 0501	450	
gard Well Operator Pre-Ongard Well #4	30-005-01148	unaves	1650 FSL 1650 FWL	21	14S	31E	Oil			12/14/1956	3120'		East Caprock Queen	3106-3113'	11"	8 5/8" @ 253'	150sx	CIBP @ 3010' w/ 35' cmt cap
Burleson Inc State D #4			<u> </u>		+			5/15/1986	-					-	7 7/8"	4 1/2" @ 3120'	75sx	CIBP @ 268'
	-			-	-	-								-	+			Perf @ 258' Cmt 25sx 100sx cmt to surface
				-	+									-	+			100sx cmt to surface
gard Well Operator Pre-Ongard Well #13	20.005.01147	Chaves	1650 FSL 2310 FEL	27	14S	31E	Oil	P&A	10/20/1056	11/11/1956	3110'		Canrack Queen	3086-3110'	11"	8 5/8" @ 271'	150av	
gard Well Operator Pre-Ongard Well #13 Miller Auctioneers Inc Eastcap Queen Pool Unit #13	30-005-01147	Chaves	1000 FSL 2010 FEL	21	145	SIE	OII	1/17/1974	10/30/1950	11/11/1950	3110		Caprock Queen	5066-3110	7 7/8"	4 1/2" @ 3094'	150sx 75sx	CIBP @ 3006' w/5sx cmt cap
& Miller Auctioneers inc Eastcap Queen Pool Onit #13			<u> </u>		+			1/1/19/4						-	1 1/0	4 1/2 @ 3094	735X	50sx cmt plug @ 1514'
				-	-	-									1			40sx cmt plug @ 290'
			<u> </u>		+									-	+			10sx cmt plug @ surface
ngard Well Operator Pro Operat Well #14	20.005.01102	Chaves		27	14S	31E	Oil	P&A	1/25/1957	0/0/1057	3106'		Canrack Queen	-	11"	8 5/8" @ 256'	150ev	25av amt plug @ 2106 2959'
ngard Well Operator Pre-Ongard Well #14 Dil Corporation Eastcap Queen Pool Unit #14	30-005-21163	Chaves	1650 FSL 990 FEL	21	145	SIE	OII	10/16/1968		2/3/1957	3100		Caprock Queen		7 7/8"	4 1/2" @ 3088'	150sx 75sx	25sx cmt plug @ 3106-2858' 75sx cmt plug @ 0-400'
Eastcap Queen Poor Onit #14								10/10/1908							1 1/8	4 1/2 (@ 3088	7,55	75sx cmt plug (b) 0-400
Ongard Well Operator Pre-Ongard Well #1	30-005-01140	Chaves	1980 FSL 660 FWL	26	14S	31E	Oil	P&A	10/19/1956	10/26/1957	3123'		Undesignated	3107-3112'	11"	8 5/8" @ 323'	175sx	Cmt plug @ 3126-2700'
elly Drilling Company Inc. Medlin #1	00-000-01140	Onaves	10001020001112	20	140		01	11/4/1956	10/10/1000	10/20/100/	0120		ondesignated	0101-0112	7 7/8"	5 1/2" @ 3123'	100sx	20sx Cmt plug @ 2260'
								11/1/1000							1 110	0 1/2 (0 0 120	1000	20sx Cmt plug @ 1600'
																		10sx Cmt plug @ Surface
O Butler & Assoc Inc South Caprock Queen Unit #14	30-005-01163	Chaves	330 FSL 1980 FWL	28	14S	31E	Oil	P&A	6/10/1957	6/15/1957	2980'	2979'	Caprock Queen	2930-2936'	11"	8 5/8" @ 323'	100sx	NO plugging Information
								3/1/2006							7 7/8"	5 1/2" @ 3123'	200sx	
O Butler & Assoc Inc South Caprock Queen Unit #15	30-005-01161	Chaves	330 FSL 1980 FEL	28	14S	31E	Oil		5/31/1956				Caprock Queen					
gard Well Operator Pre-Ongard Well #5	30-005-01145	Chaves	460 FSL 330 FWL	27	14S	31E	Oil	P&A	8/9/1956	8/17/1956	3108'		Caprock Queen	3085-3092'	11"	8 5/8" @ 262'	175sx	30sx cmt plug @ 300-550'
B Burleson Inc. State D #5								5/20/1986							7 7/8"	4 1/2" @ 3100'	75sx	102sx cmt plug @ 0-320'
ngard Well Operator Pre-Ongard Well #17	30-005-01146	Chaves	330 FSL 1650 FWL	27	14S	31E	Oil		8/25/1956	9/2/1956	3108'		Caprock Queen	3080-3108'	11"	8 5/8" @ 252'	175sx	CIBP @ 3080 w/ 35' Cmt
& Miller Auctioneers Inc Eastcap Queen Pool Unit #17			<u> </u>					2/4/1975							7 7/8"	4 1/2" @ 3072'	75sx	100' cmt plug @ 252'
				1	_	1		1	L									10sx cmt cap to surface
		1	<u> </u>		_						-							
	_		660 ESI 1090 EEI	27	14S	31E	Oil		6/9/1956	7/8/1956	3120'		Caprock Queen	3096-3101'	11"	8 5/8" @ 203'	150sx	CIBP @ 3096 w/ 35' Cmt
	30-005-01155	Chaves	000 F3L 1980 FEL					2/4/1975	L				1		7 7/8"	5 1/2" @ 3120'	100sx	100' cmt plug @ 465'
	30-005-01155	Chaves	000 FSL 1960 FEL									1	1	1	1	1	1	100' cmt plug @ 203'
	30-005-01155	Chaves																
	30-005-01155	Chaves																10sx cmt cap to surface
Miller Auctioneers Inc Eastcap Queen #16																		10sx cmt cap to surface
Miller Auctioneers Inc Eastcap Queen #16			660 FSL 330 FWL	26	14S	31E	Oil	P&A	12/18/1965	1/27/1966	3150'		Caprock Queen	3102-3110'	11"	8 5/8" @ 307'	100sx	10sx cmt cap to surface 15sx Cmt plug @ 3136'
Miller Auctioneers Inc Eastcap Queen #16				26	14S	31E	Oil	P&A 6/17/1966	12/18/1965	1/27/1966	3150'		Caprock Queen	3102-3110'	11" 7 7/8"	8 5/8" @ 307' 4 1/2" @ 3136'	100sx 100sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below)
Miller Auctioneers Inc Eastcap Queen #16 gard Well Operator Pre-Ongard Well #1				26	14S	31E	Oil		12/18/1965	1/27/1966	3150'		Caprock Queen	3102-3110'				10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above)
Miller Auctioneers Inc Eastcap Queen #16				26	14S	31E	Oil		12/18/1965	1/27/1966	3150'		Caprock Queen	3102-3110'				10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below)
Miller Auctioneers Inc Eastcap Queen #16 Ingard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil	6/17/1966		1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136'	100sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307'
& Miller Auctioneers Inc Eastcap Queen #16 ngard Well Operator Pre-Ongard Well #1	30-005-10410	Chaves		26	14S	31E 31E	Oil	6/17/1966 P&A	7/27/2002	1/27/1966	3150' 5200'		Caprock Queen Wildcat; Paddock	3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170'	100sx 175sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 3346' tag @ 3150'
Miller Auctioneers Inc Eastcap Queen #16 igard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil	6/17/1966	7/27/2002	1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970'	100sx 175sx 500sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 307' 15sx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3110'
Miller Auctioneers Inc Eastcap Queen #16 igard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil Oil	6/17/1966 P&A	7/27/2002	1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170'	100sx 175sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3110' 25sx Cmt plug @ 2988'. Tag @ 2988'
A Miller Auctioneers Inc Eastcap Queen #16 ngard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil Oil Oil	6/17/1966 P&A	7/27/2002	1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970'	100sx 175sx 500sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 105x Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3346' tag @ 2938' 25sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2300, tag @ 2087'
Miller Auctioneers Inc Eastcap Queen #16 Ingard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil Oil Oil Oil	6/17/1966 P&A	7/27/2002	1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970'	100sx 175sx 500sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 307' 15sx Cmt plug @ 3146' tag @ 3150' 35sx Cmt plug @ 3110' 25sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2300, tag @ 2087' 30sx Cmt plug @ 229', tag TOC @ 72'
Miller Auctioneers Inc Eastcap Queen #16 ngard Well Operator Pre-Ongard Well #1 / & Grandberry Federal C #1	30-005-10410	Chaves	660 FSL 330 FWL	26			Oil Oil	6/17/1966 P&A	7/27/2002	1/27/1966				3102-3110'	7 7/8"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970'	100sx 175sx 500sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 105x Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3346' tag @ 2938' 25sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2300, tag @ 2087'
A Miller Auctioneers Inc Eastcap Queen #16 Ingard Well Operator Pre-Ongard Well #1 Ingard Well Operator Federal C #1 Ingard Well Williams #1 Ingard Williams #1 Ingar	30-005-10410 30-005-21174	Chaves	660 FSL 330 FWL 400 FNL 2300 FWL	26	14S	31E		6/17/1966 P&A 3/10/2004	7/27/2002		5200'		Wildcat; Paddock		7 7/8" 11" 8 3/4" 6"	4 1/2" @ 3136' 9.5/8" @ 170' 7.5/8" @ 2970' 4 1/2" @ 5200'	100sx 175sx 500sx 1000sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 5xx Cmt plug @ 307' 5xx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 2306, tag @ 2938' 30sx Cmt plug @ 2300, tag @ 2087' 30sx Cmt plug @ 229', tag TOC @ 72' 10sx Surface Plug
Miller Auctioneers Inc Eastcap Queen #16 gard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1 ainer Williams #1	30-005-10410 30-005-21174	Chaves	660 FSL 330 FWL	26			Oil Oil Oil Oil	6/17/1966 P&A 3/10/2004 P&A	7/27/2002		5200'	3115'		3102-3110' 3102-3110' 3102-3110' 3099-3112'	7 7/8" 11" 8 3/4" 6" 12 1/4"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970' 4 1/2" @ 5200' 8 5/8" @ 316'	100sx 175sx 500sx 1000sx 150sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3346' tag @ 2150' 35sx Cmt plug @ 2304' tag @ 2087' 25sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2200, tag @ 2087' 30sx Cmt plug @ 229', tag TOC @ 72' 10sx Surface Plug 25sx Cmt Plug @ 3000'
Miller Auctioneers Inc Eastcap Queen #16 igard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1 iainer Williams #1	30-005-10410 30-005-21174	Chaves	660 FSL 330 FWL 400 FNL 2300 FWL	26	14S	31E		6/17/1966 P&A 3/10/2004	7/27/2002		5200'	3115'	Wildcat; Paddock		7 7/8" 11" 8 3/4" 6"	4 1/2" @ 3136' 9.5/8" @ 170' 7.5/8" @ 2970' 4 1/2" @ 5200'	100sx 175sx 500sx 1000sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 5xx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2300, tag @ 2087' 30sx Cmt plug @ 229', tag TOC @ 72' 10sx Surface Plug
Miller Auctioneers Inc Eastcap Queen #16 gard Well Operator Pre-Ongard Well #1 & Grandberry Federal C #1 ainer Williams #1	30-005-10410 30-005-21174 30-005-21174 30-005-01189	Chaves Chaves Chaves	660 FSL 330 FWL 400 FNL 2300 FWL 330FNL 1450 FEL	26	14S	31E		6/17/1966 P&A 3/10/2004 P&A	7/27/2002	1/21/1956	5200' 5200' 3123'	3115'	Wildcat; Paddock		7 7/8" 11" 8 3/4" 6" 12 1/4"	4 1/2" @ 3136' 9 5/8" @ 170' 7 5/8" @ 2970' 4 1/2" @ 5200' 8 5/8" @ 316'	100sx 175sx 500sx 1000sx 150sx	10sx cmt cap to surface 15sx Cmt plug @ 3136' 100' cmt plug @ 1400' (below) 100' cmt plug @ 1400' (above) 100' cmt plug @ 307' 15sx Cmt plug @ 3346' tag @ 3150' 35sx Cmt plug @ 3346' tag @ 2150' 35sx Cmt plug @ 2988'. Tag @ 2938' 30sx Cmt plug @ 2988'. Tag @ 2988' 30sx Cmt plug @ 229, tag TOC @ 72' 10sx Surface Plug 25sx Cmt Plug @ 3000'

																			100' cmt plug @ 305'
				<u> </u>															20' cmt plug @ surface
Crain Hot Oil Service, LLC	Gulf Deep #1	30-005-01210	Chaves	660 FNL 1980 FWL	34	14S	31E	Oil	P&A	11/7/1958	4/3/1959	13,258'		SWD; San Andres	13,221-13,246'	17 1/2"	13 3/8" @ 428'	550sx	CIBP @ 12,150' w/ 25sx 12,150-11,952'
Clain Hol Oil Service, LLC	Guil Deep #1	30-003-01210	Chaves	000 FINL 1900 FWL	34	145	SIE	01	3/11/2024	11///1956	4/3/1939	13,230		SWD; Devonian	13,221-13,240	12 1/4"	9 5/8" @ 3817'	1950sx	25sx cmt plug @ 9700-9502'
				+					5/11/2024					SWD, Devolian		7 7/8"	5 1/2" @ 13,258'	1900sx	50sx cmt plug @ 8660-8263'
																			25sx cmt plug @ 7450-7203'
																			25sx cmt plug @ 5400-5153'
												_							Perf @ 4210' Sqz 25sx @ 4210-4090'
				<u> </u>															Tag 4075'
		-		<u> </u>	+		+					+							Perf @ 3870' Sqz 125sx @ 3870-3400 Tag 3350'
												-							Perf @ 3130' Sqz 25sx @ 3130-2980'
																			Tag @ 2940'
								1					1						Perf @ 2380' Sqz 25sx @ 2380-2230
																			Tag @ 2190'
																			Perf @ 500' Sqz 180sx @ 500', Circ to Surface
														-					
	Pre-Ongard Well #19	30-005-01209	Chaves	990 FNL 1650 FWL	34	4 14S	31E	Water Injection	2/4/1975	5/17/1956	6/7/1956	3089'		Eastcap Queen	3077-3089' open hole	17" 11"	13 3/8" @ 300' 8 5/8" @ 1370'	300sx	CIBP @ 3077 w/ 35' cmt cap
Miller & Miller Auctioneers Inc	Eastcap Queen #19								2/4/19/3	, 		-				7"	5 1/2" @ 3077'	100sx	100' cmt plug @ 335' Cap w/ 10sx cmt
																	0 112 (@ 0011	1003	
								1					1						
Pre-Ongard Well Operator	Pre-Ongard Well #1	30-005-01198	Chaves	660 FNL 1980 FEL	34	4 14S	31E	Oil	P&A	6/21/1956	6/28/1956	3110'		Caprock; Queen	3090-3105'	12 1/4"	7 5/8" @ 305'	175sx	CIBP @ 2950' w/ 35' cmt cap
Rapid Company Inc	State C #1								7/17/1975	5		_				7 7/8"	4 1/2" @ 3084'	800sx	Cut 4 1/2"csg from 700'
																			35sx cmt plug @ 750'-650'
	1			<u> </u>								_							40sx cmt plug @ 375-275'
	1	-	1	<u> </u>	1	1	1	-	1	1			-			+			10sx cmt plug @ 20-0'
Pre-Ongard Well Operator	Pre-Ongard Well #21	30-005-01202	Chaves	660 FNL 660 FEL	.34	4 14S	31E	Water Injection	P&A	7/20/1956	7/27/1956	3115		Caprock; Queen	3102-3115'	12 1/4"	7 5/8" @ 323'	150sx	CIBP @ 3102' w/ 35' cmt cap
Miller & Miller Auctioneers Inc									2/4/1975	0						7 7/8"	4 1/2" @ 3097'	800sx	100' cmt plug @ 221'
				1															Cap w/ 10sx cmt
	Pre-Ongard Well #1	30-005-00544	Chaves	660 FNL 660 FWL	35	5 14S	31E	Oil	P&A		10/6/1956	3142'	3124'	Caprock; Queen	3105-3115'	12 1/4"	8 5/8" @ 311'	175sx	CIBP @ 2950' w/ 35' cmt cap
Rapid Company Inc	State B#1	_		<u> </u>					7/1/1974	1		-				7 7/8"	5 1/2: @ 3137'	200sx	Pulled 5 1/2" csg from 370'
		-			+	-	+					+							100' cmt plug 320-420' 100' cmt plug 220-320'
												-							10sx cmt plug to Surface
																			Took on play to bundle
Union Oil Co Of California	South Caprock Queen Unit #6	30-005-01178	Chaves	1980 FNL 2310 FWL	. 33	3 14S	31E	Oil	P&A	1/8/1955	1/25/1955	3100'		Caprock; Queen	3086-3100'	15"	10 3/4" @ 315'	200sx	30sx cmt plug @ 3100'
									5/8/1972	2						8 3/4"	7" @ 3087'	100sx	5sx cmt plug @ surface
Union of Co of California	South Caprock Queen Unit #7	30-005-01188	Chaves	2310 FNL 2310 FEL	33	3 14S	31E	Water Injection		9/1/1955	9/8/1955	3113'	3106'	Caprock; Queen	3093-3098'	12 1/4"	8 5/8" @ 340'	140sx	125sx cmt plug @ 0-800'
									2/26/1969			-				7 7/8"	5 1/2: @ 3112'	100sx	75sx ccmt plug @ 2750-3098'
												-							5sx cmt plug @ 0-30'
Pre-Ongard Well Operator	Pre-Ongard Well #1	30-005-01181	Chaves	1980 FNL 1980 FEL	33	3 14S	31E		P&A					Caprock; Queen	3063.5-3079'		9 5/8" @ 318'	175sx	25sx cmt plug @ 3084'
Morris R Antweil	Yates Bros #1							1	9/10/1955	5			1				6" @ 3084"	100sx	20sx cmt plug @ 2284
																	4 1/2" @ 3097'	20sx	15sx cmt plug @ 2145'
												_							10sx cmt plug @ 318'
																			10sx cmt plug @ surface
	Courth Commonly Over an Ulait #0	20.005.04400	Ohavaa	4000 FNIL 000 FFL		140	045	01	D.0.A	0/40/4055	7/4/4055	0444		O	2004 2400	40.4/4	0 0 0 5/01 @ 204	440	450
Union of Co of California	South Caprock Queen Unit #8	30-005-01186	Chaves	1980 FNL 330 FEL	33	3 14S	31E	Oil	P&A 2/28/1969	6/10/1955	7/1/1955	3114'		Caprock; Queen	3094-3100'	12 1/4" 7 7/8"	9 & 9 5/8" @ 304' 5 1/2" @ 3114'	140sx 100sx	150sx cmt @ 0-1300' 50sx cmt plug @ 2816-3094'
				+					2/20/1303							1110	5 1/2 (0, 51 14	1003	5sx cmt plug @ 0-30'
								1					1						
Pre-Ongard Well Operator	PreOngard Well #27	30-005-01205	Chaves	1980 FNL 660 FWL	34	4 14S	31E	Water Injection	P&A	11/8/1955	11/17/1955	3113'		Caprock; Queen	3092-3113'	11"	8 5/8" @ 295'	175sx	CIBP @ 547' w/ 35' cmt cap
Miller & Miller Auctioneers Inc	Eastcap Queen #27								2/4/1975	i						7 7/8"	5 1/2" @ 3092'	75sx	100' cmt plug @ 295'
												_							Cap with 10sx Cmt
Dec Or and Wall Or and a	Des Operand Mail #00	20.005.04000	Ohanna	1980 FNL 1980 FWL		4 14S	31E	Water Injection	- D ⁰ A	0/00/4050	3/10/1956	04001		Caprock; Queen	2000 2402	11"	0 5/01 @ 0001	450	
Pre-Ongard Well Operator Miller & Miller Auctioneers Inc		30-003-01206	Chaves	1900 FINE 1900 FVVL	. 34	+ 145	SIE	water injectio	2/4/4975		3/10/1930	3103'		Caprock, Queen	3082-3103'	7 7/8"	8 5/8" @ 263' 4 1/2" @ 3082'	150sx 75sx	CIBP @ 3082' w/ 35' cmt cap 100' cmt plug @ 221'
									2/ 1/ 10/ 0								1 1/2 (0) 0002	TOON	Cap w/ 10sx cmt
	PreOngard Well #25	30-005-01195	Chaves	1980 FNL 1980 FEL	33	3 14S	31E	Water Injection			5/27/1956	3108'		Caprock; Queen	3094-3108'	12 1/4"	7 5/8" @ 307'	200sx	CIBP @ 3094' w/ 35' cmt cap
Miller & Miller Auctioneers Inc	Eastcap Queen #25				+				2/4/1975							7 7/8"	4 1/2" @ 3090'	710 sx	100' cmt plug @ 934'
		-	+	<u> </u>					+			-							100' cmt plug @ 307'
	1	+	+	<u> </u>	+			<u> </u>	+	 			<u> </u>			+			Cap w/ 10sx cmt
Pre-Ongard Well Operator	PreOngard Well #24	30-005-01199	Chaves	1980 FNL 660 FEL	.34	4 14S	31E	Oil	P&A	6/29/1956	7/6/1956	3113'	1	Caprock; Queen	3090-3113'	12 1/4"	7 5/8" @ 300'	150sx	CIBP @ 3090' w/ 35' cmt cap
Miller & Miller Auctioneers Inc						L			2/4/1975							7 7/8"	4 1/2" @ 3090'	800sx	100' cmt plug @ 623'
																			100' cmt plug @ 300'
				<u> </u>															Cap w/ 10sx cmt
			1	1	1	-	0.15	01		0/45/15	0/00/45	0.455	0.4001					450	
		00.007.017.7	0	1000 51		5 14S	31E	Oil	P&A	8/15/1957	8/23/1957	3128'	3120'	Caprock; Queen	3106-3109'	11"	8 5/8" @ 322'	150sx	CIBP @ 3000' w/ 35" cmt cap
Pre-Ongard Well Operator		30-005-00545	Chaves	1980 FNL 330 FWL	35	140			2/20/1975			_	+			7 7/8"	5 1/2" @ 3128'	125sx	100' cmt plug @ 1276'
Pre-Ongard Well Operator Rapid Company, Inc	PreOngard Well #23 East Cap Queen Unit #23	30-005-00545	Chaves	1980 FNL 330 FWL	35	140							1						100' cmt plug @ 322'
		30-005-00545	Chaves	1980 FNL 330 FWL	35							-							100' cmt plug @ 322' Cap w/ 10sx cmt
		30-005-00545	Chaves	1980 FNL 330 FWL	35														100' cmt plug @ 322' Cap w/ 10sx cmt
Rapid Company, Inc		30-005-00545 30-005-01192		1980 FNL 330 FWL		3 145	31E	Oil	P&A	3/25/1955	4/2/1955	3120'		Caprock; Queen	3104-3116'	11"	8 5/8" @ 313'	275sx	
Rapid Company, Inc	East Cap Queen Unit #23						31E	Oil		3/25/1955	4/2/1955	3120'		Caprock; Queen	3104-3116'	11" 7 7/8"	8 5/8" @ 313' 5 1/2" @ 3130'	275sx 175sx	Cap w/ 10sx cmt
Rapid Company, Inc	East Cap Queen Unit #23 South Caprock Queen Unit #11	30-005-01192	Chaves	1980 FSL 1980 FWL	33	3 14S			P&A 5/8/1972	2						7 7/8"	5 1/2" @ 3130'	175sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface
Rapid Company, Inc	East Cap Queen Unit #23	30-005-01192	Chaves		33	3 14S		Oil	P&A 5/8/1972 P&A	4/7/1955	4/2/1955 4/24/1955		3120'	Caprock; Queen Caprock; Queen	3104-3116' 3104-3109'	7 7/8"	5 1/2" @ 3130' 9 1/2" @ 314'	175sx 150sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027'
Rapid Company, Inc	East Cap Queen Unit #23 South Caprock Queen Unit #11	30-005-01192	Chaves	1980 FSL 1980 FWL	33	3 14S			P&A 5/8/1972	4/7/1955			3120'			7 7/8"	5 1/2" @ 3130'	175sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface
Rapid Company, Inc Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11	30-005-01192	Chaves	1980 FSL 1980 FWL	33	3 14S			P&A 5/8/1972 P&A	4/7/1955			3120'			7 7/8"	5 1/2" @ 3130' 9 1/2" @ 314'	175sx 150sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027'
Rapid Company, Inc Union Oil Co of California Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11 South Caprock Queen Unit #10	30-005-01192 30-005-01182	Chaves	1980 FSL 1980 FWL 1980 FSL 1980 FWL	33	3 14S 3 14S		Oil	P&A 5/8/1972 P&A 2/27/1969	4/7/1955	4/24/1955	3122'	3120'	Caprock; Queen	3104-3109'	7 7/8"	5 1/2" @ 3130' 9 1/2" @ 314' 5 1/2" @ 3122'	175sx 150sx 100sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt plug @ 0-30'
Rapid Company, Inc Union Oil Co of California Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11	30-005-01192	Chaves	1980 FSL 1980 FWL	33	3 14S	31E		P&A 5/8/1972 P&A 2/27/1969	4/7/1955			3120'			7 7/8" 12 1/4" 7 7/8"	5 1/2" @ 3130' 9 1/2" @ 314' 5 1/2" @ 3122' 8 5/8" @ 317	175sx 150sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt plug @ 0-30' 25sx cmt plug @ 0-30' 25sx cmt plug @ 3100'
Rapid Company, Inc Union Oil Co of California Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11 South Caprock Queen Unit #10	30-005-01192 30-005-01182	Chaves	1980 FSL 1980 FWL 1980 FSL 1980 FWL	33	3 14S 3 14S	31E	Oil	P&A 5/8/1972 P&A 2/27/1969	4/7/1955	4/24/1955	3122'	3120'	Caprock; Queen	3104-3109'	7 7/8" 12 1/4" 7 7/8" 11"	5 1/2" @ 3130' 9 1/2" @ 314' 5 1/2" @ 3122'	175sx 150sx 100sx 140sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt plug @ 0-30'
Rapid Company, Inc Union Oil Co of California Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11 South Caprock Queen Unit #10	30-005-01192 30-005-01182	Chaves Chaves Chaves	1980 FSL 1980 FWL 1980 FSL 1980 FWL	33	3 14S 3 14S	31E	Oil	P&A 5/8/1972 P&A 2/27/1969 0/P&A 8/12/1971	4/7/1955 5/21/1955	4/24/1955	3122'	3120'	Caprock; Queen	3104-3109'	7 7/8" 12 1/4" 7 7/8" 11" 7 7/8" 11"	5 1/2" @ 3130' 9 1/2" @ 314' 5 1/2" @ 3122' 8 5/8" @ 317 5 1/2" @ 3125' 8 5/8" @ 280'	175sx 150sx 100sx 140sx 140sx 150sx 150sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt plug @ 0-30' 25sx cmt plug @ 0-30' 25sx cmt plug @ 3010' 5sx cmt plug @ 3010' ClBP @ 2994' w/ 35sx cmt cap
Rapid Company, Inc Union Oil Co of California Union Oil Co of California Union Oil Co of California	East Cap Queen Unit #23 South Caprock Queen Unit #11 South Caprock Queen Unit #10 South Caprock Queen Unit #10 South Caprock Queen Unit #9	30-005-01192 30-005-01182 30-005-01182	Chaves Chaves Chaves	1980 FSL 1980 FWL 1980 FSL 1980 Fel 1980 FSL 660 FEL	33	3 14S 3 14S 3 14S	31E 31E	Oil Water Injectio	P&A 5/8/1972 P&A 2/27/1969 0/P&A 8/12/1971	4/7/1955 5/21/1955	4/24/1955 6/4/1955	3122' 3125'	3120'	Caprock; Queen Caprock; Queen	3104-3109' 3099-3104'	7 7/8" 12 1/4" 7 7/8" 11" 7 7/8"	5 1/2" @ 3130' 9 1/2" @ 314' 5 1/2" @ 3122' 8 5/8" @ 317 5 1/2" @ 3125'	175sx 150sx 100sx 140sx 150sx	Cap w/ 10sx cmt 25sx cmt plug @ 3100' 5sx cmt plug @ surface 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt plug @ 0.30' 25sx cmt plug @ 3100' 5sx cmt plug @ 3100' 5sx cmt plug @ 3100'

Burleson Petroleum, Inc	State A #3	30-005-01207	Chaves	1980 FSL 1980 FEL	3	4 14S	31E	Water Injection	P&A	3/24/1956	4/1/1956	3101'		SWD; San Andres	3075-3101	11"	8 5/8" @ 269'	150sx	CIBP @ 2975' w/ 35' cmt cap
									9/9/1987							7 7/8"	5 1/2" @ 3084"	75sx	CIBP @ 260'
																			Perf 267' w/ 72sx cmp plug
												_							Circ 64sx in and out
Pre-Ongard Well Operator Miller & Miller Auctioneers Inc	Pre-Ongard Well #31	30-005-01200	Chaves	1980 FSL 660 FEL	3	4 14S	31E	Water Injection	2/4/1975	7/8/1956	7/22/1956	3122'		Caprock Queen	3108-3122'	12 1/4" 7 7/8"	7 5/8" @ 310' 4 1/2" @ 3107'	200sx 800sx	CIBP @ 3092' w/ 35' cmt cap
Willer & Willer Adctioneers Inc	Eastcap Queen #31								2/4/19/3							1 110	4 1/2 (@ 3107	OUUSX	100' cmt plug @ 354' Cap w/ 10sx cmt
																			Cap w/ rosx cm
Union Oil Co of Califormia	South Caprock Queen Unit #15	30-005-01183	Chaves	990 FSL 1980 FEL	3	3 14S	31E	Oil	P&A	5/11/1955	5/22/1955	3128'		Caprock Queen	3110-3116'	11"	8 5/8" @ 330'	145sx	25sx cmt plug @ 3100'
									8/12/1971							7 7/8"	5 1/2" @ 3128'	100sx	6sx cmt plug @ surface
Union Oil Co of Califormia	South Caprock Queen Unit #16	30-005-01184	Chaves	990 FSL 545 FEL	3	3 14S	31E	Oil	P&A	5/28/1955	6/4/1955	3124'		Caprock Queen	3100-3106'	12 1/4"	9 5/8" @ 338'	145sx	100' cmt plug @ 3100'
			-			-	-		7/8/1971			_				7 7/8"	5 1/2" @ 3124'	100sx	100' cmt plug @ 3124'
		-				+	+	-					1					-	100' cmt plug in and out surface 20' cmt plug @ surface
																			20 chit plug (@ surface
Pre-Ongard Well Operator	Pre-Ongard Well #35	30-005-01203	Chaves	660 FSL 660 FWL	3	4 14S	31E	Water Injectio	P&A	10/20/1955	10/27/1955	3119'		Caprock Queen	3097-3119' Open hole	11"	8 5/8" @ 281'	150sx	CIBP @ 3097' w/ 35' Cmt Cap
Miller & Miller Auctioneers Inc									2/4/1975							7 7/8"	5 1/2" @ 3097'	75sx	100' cmt plug @ 500'
																			100' cmt plug @ 281'
																			Cap w/ 10sx cmt
		00.005.01000	0		-	1.40	0.15	0.1					+		0007.0444			450	
Burleson Petroleum Inc	State A #2	30-005-01208	Chaves	660 FSL 1980 FWL	3	4 14S	31E	01	P&A 9/9/1987	4/5/1956	4/14/1956	3114'		Caprock Queen	3097-3114'	11"	8 5/8" @ 265' 4 1/2" @ 3097'	150sx 75sx	25sx cmt plug @ 3077' CIBP @ 270'
		1	-		-			1	9/9/1987							/ //0	4 1/2 (W 3097	7358	Sqz Perfs @ 265'
		1	1	1		1	1	1					1	1				1	131sx cmt plug in and out
			1		İ	1	1		İ	İ	İ	1	1						
Pre-Ongard Well Operator	Pre-Ongard Well #33	30-005-01197	Chaves	660 FSL 1980 FEL	3	4 14S	31E	Water Injection	P&A	6/9/1956	6/18/1956	3122'		Caprock Queen	3091-3122' Open Hole	11"	7 5/8" @ 325'	150sx	CIBP @ 3091' w/ 35' Cmt cap
Miller & Miller Auctioneers Inc	Eastcap Queen #33								2/4/1975							7 7/8"	4 1/2" @ 3090'	800sx	100' cmt plug @ 225'
																			10sx cmt cap @ surface
					-								-						
	Pre-Ongard Well #2	30-005-20278	Chaves	990 FSL 990 FEL	3	4 14S	31E	Oil	P&A 7/14/1975	1/24/1969	1/27/1969	3160'		Caprock Queen	3114.5-3118.5'	12 1/4" 7 7/8"	8 5/8" @ 325'	150sx 610sx	CIBP @ 3000' w/ 35' cmt cap
Rapid Company Inc	State C #2								//14/19/5							/ //8	5 1/2" @ 3160'	biusx	30sx cmt plug 1330-1230' 40sx cmt plug 375-275'
																			10sx cmt plug 10'-0
								1											
Pre-Ongard Well Operator	Pre-Ongard Well #32	30-005-01201	Chaves	660 FSL 660 FEL	3	4 14S	31E	Dry Hole	P&A	7/28/1956	8/5/1956	3133'		Caprock Queen	3107-3193" Open Hole	11"	7 5/8" @ 313'	150sx	12sx cmt plug @ 3012-3133'
Continental Oil Company	Eastcap Queen #32								4/21/1957							7 7/8"	4 1/2" @ 3107'	800sx	20sx cmt plug @ 800-900'
																			30sx Cmt Plug 263-363'
												_							15sx cmt plug 0-50'
Mack Energy Corp	Caprock 35 State #1H	30-005-29114	Chavas	660 FSL 330 FWL	2	5 14S	31E	Oil	Producing	12/18/2011	2/14/2012	14301	13950	ABO Wolfcamp	9015-13940'	17 1/2"	13 3/8" @ 358'	500sx	
Mack Energy corp		30-003-23114	Cilaves	0001023001742		5 145	512	01	Troducing	12/10/2011	2/14/2012	14301	13330	Abo Wolicallip	3013-13340	12 1/4"	9 5/8" @ 3878'	1095sx	
																8 3/4"	7" @ 9105'	1050sx	
																	4 1/2" Liner @ 7751-14054'	975sx	
Union Oil Co of California	South Caprock Queen Unit #1	30-005-00559	Chaves	660 FNL 660 FEL		4 15S	31E	Oil	P&A	6/27/1955	7/6/1955	3153'		Caprock Queen	3132-3153'	12 1/4"	8 5/8" @ 339'	275sx	100' cmt plug @ 3132'
		_				_		-	6/22/1971			_	-			7 7/8"	5 1/2" @ 3132'	300sx	100' cmt plug stub of 5 1/2"
		-						-				_							100' cmt plug in and out of surface
																			20' cmt plug @ surface
Union Oil Co of California	South Caprock Queen Unit #3	30-005-00550	Chaves	330 FNL 1980 FWL		3 15S	31E	Oil	P&A	6/27/1956	7/1/1956	3140'	3138'	Caprock Queen	3102-3127'	12 1/4"	8 5/8" @ 306'	175sx	Cant Read P&A Paperwork on OCD
danionia									6/14/1971					a doon		7 7/8"	5 1/2" @ 3139'	200sx	
	Pre-Ongard Well #2	30-005-00546	Chaves	330 FNL 2310 FEL		3 15S	31E	Water Injection		8/3/1956	8/8/1956	3233'	3131'	Caprock Queen	3114-3133'	12 1/4"	9 5/8" @ 306'	300sx	CIBP @ 3114' w/ 35' cmt cap
Miller & Miller Auctioneers Inc	Eastcap Queen #2		I		I				2/4/1975			_	L			7 7/8"	7" @ 3131'	175sx	100' cmt plug @ 940'
												_							100' cmt plug 306'
					<u> </u>														10sx cmt cap
Kevin O Butler & Assoc Inc	South Caprock Queen Unit #14X	30-005-01193	Chaves	660 FSL 1980 FWL		3 14S	31E	Oil	Producing	4/4/1955	4/10/1055	3145'		Caprock Queen	3108-3118'	11"	8 5/8" @ 320'	250sx	
ASSULTIO DUILOL & ASSULTING	Court Caprook Queen Onic #14A	30-003-01183	Gliaves	500 F GE 1900 F WL			JIL .	5	roudeing		-110/1800	5140	1	Saproux Queen	3100-3110	7 7/8"	5 1/2" @ 3144'	175sx	
			1		İ	1	1		İ	İ	İ	1	1						
Union Oil Co of California	South Caprock Queen Unit #2	30-005-00557	Chaves	330 FNL 2310 FEL		4 15S	31E	Oil	P&A	4/13/1955	4/21/1955	3180'		Caprock Queen	3126-3133'	11"	8 5/8" @ 320'	225sx	100' cmt plug @ 3126'
									6/7/1971							7 7/8"	5 1/2" @ 3180'	175sx	20' cmt plug @ Surface
								<u> </u>											
Union Oil Co of California	South Caprock Queen Unit #6	30-005-00551	Chaves	1650 FNL 1980 FEL	-	3 15S	31E	Oil	P&A	11/1/1956	11/18/1956	3162'	3161'	Caprock Queen	3140-3143'	11"	8 5/8" @ 286'	175sx	Cant Read P&A Paperwork on OCD
								+	6/17/1971			_	+			7 7/8"	5 1/2" @ 3149'	400sx	
Union Oil Co of California	South Caprock Queen Unit #7	30-005-00547	Chaves	1650 FNL 2310 FEL		3 15S	31E	Oil	P&A	8/27/1056	9/2/1956	3158'	+	Caprock Queen	3140-3148'	12 1/4"	9 5/8" @ 294'	200sx	100' cmt plug @ 3140'
UNION ON CO OF CAMOTINA	Gouin Caprock Queen Unit #1	30-003-00347	Gliaves	TUDU FINE ZOTU FEL	<u> </u>	5 103	JIE	01	6/22/1971		31211330	3130		Capitors Queen	5140-5140	7 7/8"	9 5/8 @ 294 7" @ 3155'	200sx 175sx	20' cmt plug @ Surface

30-005-00547		South Caprock Queen Unit #7					
P&A 6/22/1971		Operator: Union Oil Co of California Location: Sec. 3 T15S R31E 1650 FNL 2310 FEL Objective: Caprock Queen					
Depth	Hole Size & Cement		Casing Detail				
200sx	12 1/4"		9 5/8" @ 294'				
294'							
175sx	7 7/8"		7" @ 3155' 100' cmt plug @ 3140' 20' cmt plug @ Surface				
3155' Perfs 314(0-3148'	~~~~~ TD-3180'					

30-005-01207		State A #3			
P&A 9/9/1987		Operator: Burlesc Location: Sec. 34 1980 FSL 1980 FE Objective: Caproc	T14S R31E L	2	
Depth	Hole Size & Cement				Casing Detail
	11"				8 5/8" @ 269'
150sx					
		~~~~	XXXX ~~~~		
269'					
	7 7/8"				5 1/2" @ 3084'
75sx					CIBP @ 2975' w/ 35' cmt cap
					CIBP @ 260'
					Perf 267' w/ 72sx cmp plug
					Circ 64sx in and out
3084'		~~~~	XXX ~~~~		
Perfs 3075	-3101'	T	D-3101'		

30-005-01185		South Caprock Queen Unit #9					
P&A 8/12/1971		Operator: Union Oil CO of California Location: Sec. 33 T14S R31E 1980 FSL 660 FEL Objective: Caprock Queen					
Depth	Hole Size & Cement		Casing Detail				
140sx	11"		8 5/8" @ 317'				
317'							
150sx	7 7/8"		5 1/2" @ 3125' 25sx cmt plug @ 3100'				
3125'		~~~~~	5sx cmt plug @ surface				
Perfs 309	9-3104'	TD-3125'					

30-005-01182		South C	aprock (	Queen U	nit #10		
P&A 2/27/1969		Location 1980 FS	or: Union n: Sec. 3 L 1980 F ve: Capro	3 T14S F El	R31E	rnia	
Depth	Hole Size & Cement						Casing Detail
	12 1/4"						9 1/2" @ 314'
150sx							
314'	7.7/01						
100sx	7 7/8"						5 1/2" @ 3122' 50sx cmt plug @ 2607-3027' 150sx cmt plug @ 1000' to surface 5sx cmt pluh @ 0-30'
^{3122'} Perfs 3104	4-3109'		~~~~	TD-3122	~~~~		

30-005-01192		South Caprock Queen Unit #11	
P&A 5/8/1972		Operator: Union Oil CO of California Location: Sec. 33 T14S R31E 1980 FSL 1980 FWL Objective: Caprock Queen	
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 313'
275sx			_
313'			
	7 7/8"		5 1/2" @ 3130'
175sx			25sx cmt plug @ 3100'
			5sx cmt plug @ surface
3130'		~~~~	
Perfs 3104	-3116'	TD-3130'	

30-005-01183		South Caprock Queen Unit #15				
P&A 8/12/1971		Operator: Union Oil CO of California Location: Sec. 33 T14S R31E 900 FSL 1980 FEL Objective: Caprock Queen				
Depth	Hole Size & Cement		Casing Detail			
	11"		8 5/8" @ 330'			
145sx						
330'						
	7 7/8"		5 1/2" @ 3128'			
100sx	I		25sx cmt plug @ 3100'			
			6sx cmt plug @ surface			
3128'		~~~~				
Perfs 311	0-3116'	TD-3128'				

30-005-01184		South Caprock	Queen Unit #16		
P&A 7/8/1971		Operator: Union Location: Sec. 3 900 FSL 545 FEI Objective: Capro	L	rnia	
Depth	Hole Size & Cement				Casing Detail
	12 1/4"				8 5/8" @ 338'
145sx					
338'					
	7 7/8"				5 1/2" @ 3124'
100sx					100' cmt plug @ 3100'
					100' cmt plug @ 3124'
					100' cmt plug in and out surface
0.40.41					20' cmt plug @ surface
3124'		~~~~~	~~~~~		
Perfs 3100	0-3106		TD-3124'		

30-005-00545		Pre-Ongard Well #1 (Eastcap Queen #23)						
P&A 2/20/1975		Operator: Pre-Ongard Well Operator (Rapid Company Inc) Location: Sec. 35 T14S R31E 1980 FNL 330 FWL Objective: Caprock Queen						
Depth	Hole Size & Cement		Casing Detail					
	11"		8 5/8" @ 322'					
150sx								
322'								
	7 7/8"		5 1/2" @ 3128'					
125sx			CIBP @ 3000' w/ 35' cmt cap					
			100' cmt plug @ 1276'					
			100' cmt plug @ 322'					
			Cap w/ 10sx cmt					
3128'		~~~~~ XXXXX ~~~~~						
Perfs 3106	5-3109'	TD-3128'						

30-005-01199		Pre-Ongard Well #1 (Eastcap Queen #24)	
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 34 T14S R31E 1980 FNL 660 FEL Objective: Caprock Queen	er Miller Auctioneers)
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		7 5/8" @ 300'
150sx			
300'			
300	7 7 (0)		
	7 7/8"		4 1/2" @ 3090'
800sx			CIBP @ 3090' w/ 35' cmt cap
			100' cmt plug @ 623'
			100' cmt plug @ 300'
			Cap w/ 10sx cmt
3090'		~~~~~ XXXXX ~~~~~	
Perfs 3094	-3108'	TD-3113'	

30-005-01195		Pre-Ongard Well #1 (Eastcap Queen #25)	
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 33 T14S R31E 1980 FNL 1980 FEL Objective: Caprock Queen	er Miller Auctioneers)
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		7 5/8" @ 307'
200sx			
307'			
	7 7/8"		4 1/2" @ 3090'
710sx			CIBP @ 3094' w/ 35' cmt cap
			100' cmt plug @ 934'
			100' cmt plug @ 307'
			Cap w/ 10sx cmt
3090'		~~~~~ XXXXX ~~~~~	
Perfs 3094	-3108'	TD-3108'	

30-005-01205		Pre-Ongard Well #1 (Eastcap Queen #27)				
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mil Location: Sec. 34 T14S R31E 1980 FNL 660 FWL Objective: Caprock Queen	ler Miller Auctioneers)			
Depth	Hole Size & Cement		Casing Detail			
	11"		8 5/8" @ 295'			
175sx						
295'						
	7 7/8"	XXXX	5 1/2" @ 3092'			
75sx			CIBP @ 547' w/ 35' cmt cap			
			100' cmt plug @ 295'			
			Cap w/ 10sx cmt			
3092'		~~~~				
Perfs 3092	2-3113'	TD- 3115'				

30-005-01200		Pre-Ongard Well #31 (Eastcap Queen #31	)			
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Miller Miller Auctioneer) Location: Sec. 34 T14S R31E 1980 FSL 660 FEL Objective: Caprock Queen				
Depth	Hole Size & Cement		Casing Detail			
	12 1/4"		7 5/8" @ 310			
200sx						
310'						
	7 7/8"		4 1/2" @ 3107'			
800sx			CIBP @ 3092' w/ 35' cmt cap			
			100' cmt plug @ 354'			
			Cap w/ 10sx cmt			
3107'		~~~~ XXXXX ~~~~~				
Perfs 3108	3-3122'	TD-3122'				

30-005-01203		Pre-Ongard Well #35 (Eastcap Queen #35	5)
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 34 T14S R31E 660 FSL 660 FWL Objective: Caprock Queen	ler Miller Auctioneer)
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 281'
150sx			
281'			
	7 7/8"		5 1/2" @ 3097'
75sx			CIBP @ 3097' w/ 35' Cmt Cap
			100' cmt plug @ 500'
			100' cmt plug @ 281'
			Cap w/ 10sx cmt
3097'		XXXXX	
Open Hole	3097-311	9' TD-3119'	

30-005-01204		State A #1	
P&A 9/9/1987		Operator: Burleson Petroleum Inc Location: Sec. 34 T14S R31E 1980 FSL 660 FWL Objective: Caprock Queen	
Depth	Hole Size & Cement	]	Casing Detail
	11"		8 5/8" @ 280'
150sx		XXXX	- 1
280'			
75sx	7 7/8"		5 1/2" @ 3092' CIBP @ 2994' w/ 35sx cmt cap
1000			CIBP @ 285'
			Perf Sqz @ 280', 25sx cmt plug Circ 115sx in and out
3092' Perfs 3092	2-3103'	TD-3103'	

30-005-20278		Pre-Ongard Well #2 (State C #2)			
P&A 7/14/1975		Operator: Pre-Ongard Well Operator (Raj Location: Sec. 34 T14S R31E 9900 FSL 990 FEL Objective: Caprock Queen	oid Company Inc)		
Depth	Hole Size & Cement		Casing Detail		
	12 1/4"		8 5/8" @ 325'		
150sx			_		
325'					
	7 7/8"		5 1/2" @ 3160'		
610sx			CIBP @ 3000' w/ 35' cmt cap		
			30sx cmt plug 1330-1230'		
			40sx cmt plug 375-275'		
			10sx cmt plug 10'-0		
3160'		~~~~ XXXX ~~~~~			
Perfs 3114	.5-3118.5	TD-3160'			

30-005-29114		Caprock 35 Stat	e #1H		
		Operator: Mack Location: Sec. 3 660 FSL 330 FW Objective: ABO	85 T14S R31E ″L	oration	
Depth	Hole Size & Cement	]			Casing Detail
	17 1/2" 500sx				13 3/8" @ 358'
358'					9 5/8" @ 3878'
3878'	12 1/4" 1095sx				7" @ 9105'
9105'	8 3/4" 1050sx				4 1/2" Liner @ 7751-14054' w/ 975sx
Perfs- 9,0	15-13,940'	1	TD- 14	,301'	

30-005-00546		Pre-Ongard Well #2 (Eastcap Queen #2)	
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 3 T15S R31E 330 FNL 2310 FEL Objective: Caprock Queen	er Miller Auctioneers)
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		9 5/8" @ 306'
300sx			
306'			
	7 7/8"		7" @ 3131'
175sx			CIBP @ 3114' w/ 35' cmt cap
			100' cmt plug @ 940'
			100' cmt plug 306'
			10sx cmt cap
3131'		~~~~ XXXX ~~~~	
Perfs 3114	-3133'	TD-3233'	

30-005-01201		Pre-Ongard Well #32 (Eastcap Queen #32)			
P&A 4/21/1957		Operator: Pre-Ongard Well Operator (Co Location: Sec. 34 T14S R31E 660 FSL 660 FEL Objective: Caprock Queen	ntinental Oil Company)		
Depth	Hole Size & Cement		Casing Detail		
	11"		7 5/8" @ 313'		
150sx					
			]		
313'					
	7 7/8"		4 1/2" @ 3107'		
800sx			12sx cmt plug @ 3012-3133'		
			20sx cmt plug @ 800-900'		
			30sx Cmt Plug 263-363'		
			15sx cmt plug 0-50'		
3107'					
Open Hole	3107-319	<b>3'</b> TD-3133'			

30-005-01197		Pre-Ongard Well #33 (Eastcap Queen #33)				
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 34 T14S R31E 660 FSL 1980 FEL Objective: Caprock Queen	er Miller Auctioneer)			
Depth	Hole Size & Cement		Casing Detail			
	11"		7 5/8" @ 325			
150sx						
325'						
	7 7/8"		4 1/2" @ 3090'			
800sx			CIBP @ 3091' w/ 35' Cmt cap			
			100' cmt plug @ 225'			
			10sx cmt cap @ surface			
3090'		XXXXX				
Open Hole	3091-312	2' TD-3122'				

30-005-00559		South Ca	prock C	ueen U	nit #1		
P&A 6/27/1971		Operator: Location: 660 FNL 6 Objective	: Sec. 4 660 FEL	T15S R3	81E	rnia	
Depth	Hole Size & Cement						Casing Detail
	12 1/4"						8 5/8" @ 339'
275sx							
339'							
	7 7/8"						5 1/2" @ 3132'
300sx							100' cmt plug @ 3132'
							100' cmt plug stub of 5 1/2"
							100' cmt plug in and out of surfac 20' cmt plug @ surface
3132'			~~~~		~~~~~		
Perfs 3132	2-3153'		1	D-3153			

30-005-00557		South Caprock Queen Unit #2				
P&A 6/7/1971		Operator: Union Oil Co of California Location: Sec. 4 T15S R31E 330 FNL 2310 FEL Objective: Caprock Queen				
Depth	Hole Size & Cement		Casing Detail			
225sx	11"		8 5/8" @ 320'			
320'						
175sx	7 7/8"		5 1/2" @ 3180' 100' cmt plug @ 3126' 20' cmt plug @ Surface			
3180'		~~~~~				
Perfs 3126	5-3133	TD-3180'				

30-005-01193	30-005-01193 South Caprock Queen Unit #14X					
		Operator: Kevin O Butler & Assoc Inc Location: Sec. 3 T15S R31E 660 FSL 1980 FWL Objective: Caprock Queen				
Depth	Hole Size & Cement		Casing Detail			
	11"		8 5/8" @ 320'			
250sx						
320'						
	7 7/8"		5 1/2" @ 3144'			
175sx						
3144'		~~~~				
Perfs 3108	3-3118'	TD-3145'				

30-005-01208		State A #2				
P&A 9/9/1987		Operator: Burleson Petroleum Inc Location: Sec. 34 T14S R31E 660 FSL 1980 FWL Objective: Caprock Queen				
Depth	Hole Size & Cement					Casing Detail
	11"					
150sx						8 5/8" @ 265'
1505x		~~~~	XXXX	~~~~		
265'						
	7 7/8"					5 1/2" @ 3097'
75sx						25sx cmt plug @ 3077'
						CIBP @ 270'
						Sqz Perfs @ 265'
						131sx cmt plug in and out
3097'		~~~~	~	~~~~		
Perfs 3097-3114'		TD-3114'				

30-005-01206	_ 18	Pre-Ongard Well #1 (Eastcap Queen #26)			
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Miller Miller Auctioneers) Location: Sec. 34 T14S R31E 1980 FNL 1980 FWL Objective: Caprock Queen			
Depth	Hole Size & Cement		Casing Detail		
1. 1. A. A. A. A. A. A. A. A. A. A. A. A. A.					
	11"		8 5/8" @ 263'		
150sx					
263'					
	7 7/8"		4 1/2" @ 3082'		
75sx		and the second	CIBP @ 3082' w/ 35' cmt cap		
			100' cmt plug @ 221'		
			Cap w/ 10sx cmt		
3082'		~~~~ XXXXX ~~~~~			
Perfs 3082	2-3103'	TD- 3103'			

30-005-01181	1	Pre-Ongard Well #1 (Yates Bros #1)		
P&A 9/10/1955		Operator: Pre-Ongard Well Operator (Morris R Antwell) Location: Sec. 33 T14S R31E 1980 FNL 1980 FEL Objective: Caprock Queen		
Depth	Hole Size & Cement		Casing Detail	
	175sx		9 5/8" @ 318'	
	100sx		6" @ 3084'	
	20sx		4 1/2" @ 3097'	
			25sx cmt plug @ 3084' 20sx cmt plug @ 2284	
			15sx cmt plug @ 2145'	
			10sx cmt plug @ 318' 10sx cmt plug @ surface	
Perfs 3063	3.5-3079'	TD- 3089'		

30-005-01186	. C	South Caprock Queen Unit #8	
P&A 2/28/1969		Operator: Union Oil Co of California Location: Sec. 33 T14S R31E 1980 FNL 330 FEL Objective: Caprock Queen	
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		9 5/8" @ 304'
140sx			0.010 @ 004
304'			
	7 7/8"		5 1/2" @ 3114'
100sx			150sx cmt plug @ 0-1300' 50sx cmt plug @ 2816-3094'
			5sx cmt plug @ 0-30'
3114'			
Perfs 3094-3100'		TD- 3114'	

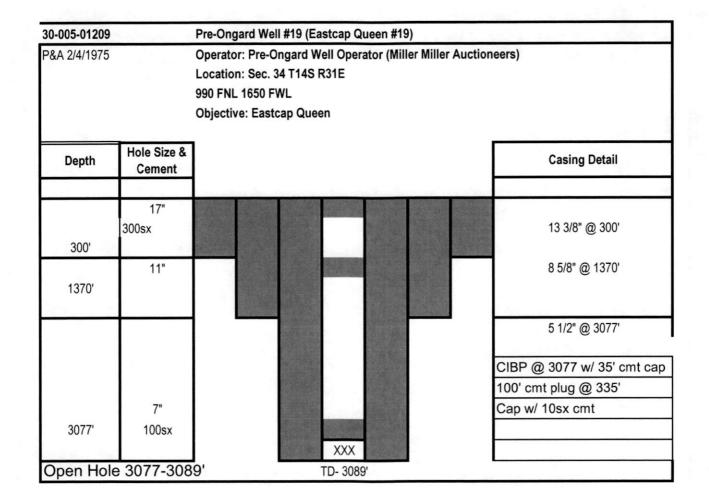
30-005-01188 South Caprock Queen Unit #7			
P&A 2/26/1969	)	Operator: Union Oil Co of California Location: Sec. 33 T14S R31E 2310 FNL 2310 FeL Objective: Caprock Queen	
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		8 5/8" @ 340'
140sx			
340'			
	7 7/8"		5 1/2" @ 3112'
100sx	1		125sx cmt plug @ 0-800'
			75sx cmt plug @ 2750-3098'
			5sx cmt plug @ 0-30'
3112'		~~~~~	
Perfs 3093-3098'		TD- 3113'	

30-005-01178		South Caprock Queen Unit #6	
P&A 5/8/1972		Operator: Union Oil Co of California Location: Sec. 33 T14S R31E 1980 FNL 2310 FWL Objective: Caprock Queen	n S
Depth	Hole Size & Cement		Casing Detail
	15'		10 3/4" @ 315'
200sx			
315'			
	8 3/4"		7" @ 3087
100sx			30sx cmt plug @ 3100' 5sx cmt plug @ surface
3087'			
Perfs 3086	5-3100'	TD- 3100'	

30-005-00544		Pre-Ongard Well #1 (State B #1)		
P&A 7/1/1974				
Depth	Hole Size & Cement		Casing Detail	
	12 1/4"		8 5/8" @ 311'	
175sx				
311'				
	7 7/8"		5 1/2" @ 3137'	
200sx	ľ		CIBP @ 2950' w/ 35' cmt cap	
			Pulled 5 1/2" csg from 370'	
			100' cmt plug 320-420'	
			100' cmt plug 220-320'	
3137'	Н. 11 ж.	xxxxx XXXX xxxxx	10sx cmt plug to Surface	
Perfs 3105	5-3115"	TD- 3142'		

30-005-01202	1202 Pre-Ongard Well #1 (Eastcap Queen #21)		
P&A 2/4/1975 Operator: Pre-Ongard Well Operator (Mill Location: Sec. 34 T14S R31E 660 FNL 1980 FEL Objective: Caprock Queen			er Miller Auctioneers)
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		7 5/8" @ 323'
150sx			
323'			
	7 7/8"		4 1/2" @ 3097'
800sx			CIBP @ 3102' w/ 35' cmt cap 100' cmt plug @ 221'
		inder States	Cap w/ 10sx cmt
3097'			
Perfs 3102-3115'		TD- 3115'	

30-005-01198	Subselia - H	Pre-Ongard Well #1 (State C #1)		
P&A 7/17/1975 Operator: Pre-Ongard Well Operator (Rapid Company Inc) Location: Sec. 34 T14S R31E 660 FNL 1980 FEL Objective: Caprock Queen			pid Company Inc)	
Depth	Hole Size & Cement	]	Casing Detail	
	See .			
150sx	12 1/4"		7 5/8" @ 305'	
305'	1			
	7 7/8"		4 1/2" @ 3084'	
800sx			CIBP @ 2950' w/ 35' cmt cap	
			Cut 4 1/2"csg from 700'	
			35sx cmt plug @ 750'-650'	
			40sx cmt plug @ 375-275'	
3084'		~~~~ XXXX ~~~~	10sx cmt plug @ 20-0'	
Perfs 3090-3105'		TD- 3110'	· · · · · · · · · · · · · · · · · · ·	



30-005-01210		Gulf Deep #1	
P&A 3/11/2004		Operator: Crain Hot Oil Service LLC Location: Sec. 34 T14S R31E 660 FNL 1980 FWL Objective: SWD; San Andres & Devonian	
Depth	Hole Size & Cement	]	Casing Detail
428'	17 1/2 550sx		13 3/8" @ 428'
3817'	12 1/4" 1950sx		9 5/8" @ 3817'
	7 7/0"		5 1/2" @ 13,258'
13,258'	7 7/8" 1900sx	XXXX	
Perfs 13,2	21-13,246	TD- 13,258"	

 CIBP @ 12,150' w/ 25sx 12,150-11,952'

 25sx cmt plug @ 9700-9502'

 50sx cmt plug @ 8660-8263'

 25sx cmt plug @ 7450-7203'

 25sx cmt plug @ 5400-5153'

 Perf @ 4210' Sqz 25sx @ 4210-4090'

 Tag 4075'

 Perf @ 3870' Sqz 125sx @ 3870-3400

 Tag 3350'

 Perf @ 3130' Sqz 25sx @ 3130-2980'

 Tag @ 2940'

 Perf @ 2380' Sqz 25sx @ 2380-2230

 Tag @ 2190'

 Perf @ 500' Sqz 180sx @ 500', Circ to Surface

30-005-01187 South Caprock Queen Unit #1			
P&A 8/12/1971			
Depth	Hole Size & Cement	]	Casing Detail
	12 1/4"		8 5/8" @ 305'
140sx			
305'			
	7 7/8"		5 1/2" @ 3120'
100sx			100' cmt plug @ 3097'
			100' cmt plug @
			100' cmt plug @ 305'
			20' cmt plug @ surface
3120'	1		
Perfs 3097	7-3102'	TD- 3120'	

30-005-01145		Pre-Ongard Well #5 (State D #5)	a a App
P&A 5/20/1986		Operator: Pre-Ongard Well Operator (Lev Location: Sec. 27 T14S R31E 460 FSL 330 FWL Objective: Caprock Queen	vis Burleson Inc)
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 262'
175sx			
262'	7 7/8"		4 1/01 @ 2110/
75sx	7 7/8		4 1/2" @ 3110'
			30sx cmt plug @ 300-550
3100'			102sx cmt plug @ 0-320'
Perfs 3085	-3092	TD- 3108'	

30-005-01146	0-005-01146 Pre-Ongard Well #17 (Eastcap Queen Pool Unit #17)		
P&A 2/4/1975		Operator: Pre-Ongard Well Operator (Mill Location: Sec. 27 T14S R31E 330 FSL 1650 FWL Objective: Caprock Queen	er Miller Auctioneers)
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 252'
175sx			
252'			
	7 7/8"		4 1/2" @ 3072'
75sx			CIBP @ 3080 w/ 35' Cmt
			100' cmt plug @ 252'
3072		XXXXX	10sx cmt cap to surface
Perfs 3080	-3108'	TD- 3108'	

30-005-01155		Pre-Ongard Well #16 (Eastcap Queen Pool Unit #16)		
P&A 2/4/1975	Operator: Pre-Ongard Well Operator (Miller Miller Auctio Location: Sec. 27 T14S R31E 660 FSL 1980 FEL Objective: Caprock Queen			
Depth	Hole Size & Cement		Casing Detail	
	11"		8 5/8" @ 203'	
150sx				
203'				
	7 7/8"		5 1/2" @ 3120'	
100sx			CIBP @ 3096 w/ 35' Cmt	
			100' cmt plug @ 465'	
		1000	100' cmt plug @ 203'	
3120' Perfs 3096	-3101'	TD- 3120'	10sx cmt cap to surface	

30-005-10410		Pre-Ongard Well #1 (Federal C #1)		
P&A 6/17/1966	6 Operator: Pre-Ongard Well Operator (Kersey Grandberry) Location: Sec. 26 T14S R31E 660 FSL 330 FWL Objective: Caprock Queen			
Depth	Hole Size & Cement	]	Casing Detail	
	11"		8 5/8" @ 307'	
100sx				
307'				
	7 7/8"		5 1/2" @ 3120'	
100sx			15sx Cmt plug @ 3136'	
			100' cmt plug @ 1400' (below)	
			100' cmt plug @ 1400' (above)	
3136'		~~~~~	100' cmt plug @ 307'	
Perfs 3102	-3110'	TD- 3150'	1	

30-005-21174	E dian	Williams #1	
P&A 3/10/2004	l	Operator: CW Trainer Location: Sec. 33 T14S R31E 400 FNL 2300 FWL Objective: Wildcat; Paddock	
Depth	Hole Size & Cement		Casing Detail
170'	11" 175sx		9 5/8" @ 170'
			7 5/8" @ 2970'
2970'	8 3/4" 500sx		4 1/2" @ 5200"
	6"		15sx Cmt plug @ 3346' tag @ 315 35sx Cmt plug @ 3110'
5200'	1000sx		25sx Cmt plug @ 2988'. Tag @ 29 30sx Cmt plug @ 2300, tag @ 208
		TD- 5200'	30sx Cmt plug @ 229', tag TOC @ 10sx Surface Plug

30-005-01189		South Caprock Queen Unit #2	
P&A 8/11/1971	2	Operator: Union Oil Co of California Location: Sec. 33 T14S R31E 330 FNL 1450 FEL Objective: Caprock Queen	
Depth	Hole Size & Cement		Casing Detail
	12 1/4"		8 5/8" @ 316'
150sx			
316'			
100sx	8 3/4""		6" @ 3123' 25sx Cmt Plug @ 3000'
			5sx Cmt Plug @ 0'
3123'		~~~~~	
Perfs 3099	-3112'	TD- 3123'	

30-005-01152	=	Pre-Ongard Well #3 (State D #3)
P&A 5/15/1986		Operator: Pre-Ongard Well Operator (Lewis Burleson Inc) Location: Sec. 27 T14S R31E 2310 FNL 990 FWL Objective: Caprock Queen
Depth	Hole Size & Cement	Casing Detail
	11"	8 5/8" @ 268'
175sx		
268'	7 7/8"	4 1/2" @ 3114'
75sx		CIBP @ 3010' w/ 35' cm cap
		CIBP @ 280' Perf @ 268' w/ 55sx
3114'		XXXX 95sx @ 0-268'
<b>Open Hole</b>	3114-312	25' TD- 3125'

30-005-01151		Pre-Ong	ard Wel	l #2 (State	D #2)		
P&A 9/9/1987		Location 2310 FN	n: Sec. 2 L 2310 F	7 T14S R	31E	tor (Lev	wis Burleson Inc)
Depth	Hole Size & Cement	]					Casing Detail
	11"						8 5/8" @ 258'
175sx			~~~~		~~~~		
				XXXXX			
258'							
2	7 7/8"	1					4 1/2" @ 3093'
75sx	1						CIBP @ 2985' w/ 35' cmt cap
							CIBP @ 260'
				1.1.1			Perf Sqz @ 252'
				XXXX			Circ Cmt w/ 128sx in & out of pipe
3093'	· Maria State						
Open Hole	e 3093-311	2'	8	TD- 3100'			

30-005-01144	- Eliza - L	Pre-Ongard We	ell #8 (Eastcap Qu	een #8)	
P&A 2/4/1975		Operator: Pre- Location: Sec. 1980 FNL 1980 Objective: Cap	27 T14S R31E FEL	ator (Mil	ler Miller Auctioneers Inc)
Depth	Hole Size & Cement	]			Casing Detail
	10 3/4"	~~~~			8 5/8" @ 328'
175sx					
328'	5.1				
	7 7/8"				5 1/2" @ 3111'
100sx	I			1	CIBP @ 3094' w/ 35' cmt cap
					Perf @ 245'
		E-mail			100' Cmt Plug w/ 10sx
3111'		~~~~~	XXXX		
Perfs 3094	4-3096'		TD- 3111'		

30-005-01143		Pre-Ongard We	Pre-Ongard Well #7 (Eastcap Queen #7)					
P&A 2/4/1975		Operator: Pre-C Location: Sec. 2 2310 FNL 990 F Objective: Capr	27 T14S R31E EL	rator (Mil	ler Miller Auctioneers Inc)			
Depth	Hole Size & Cement	]			Casing Detail			
	11"				8 5/8" @ 313'			
175sx								
313'								
	7 7/8"				5 1/2" @ 3124'			
100sx		~~~~			CIBP @ 3097' w/ 35' cmt cap			
					Perf @ 1134' w/ 100' cmt plug			
					100' cmt @ 313'			
3124'		~~~	XXXX		Cap w/ 10sx Cmt			
Perfs 3097	7-3100'		TD- 3124'	-				

30-005-01164		South Caprock Queen Unit #9	
P&A 2/28/1969		Operator: Union Oil Company of Calif Location: Sec. 28 T14S R31E 1650 FSL 660 FEL Objective: Caprock Queen	fornia
Depth	Hole Size & Cement	]	Casing Detail
	11"		8 5/8" @ 199'
125sx			
199'			
5	7 7/8"		5 1/2" @ 3037'
175sx			50sx cmt ply @ 2832-3016'
			150sx cmt plug @0-1300'
			5sx cmt plug @ 0-20'
3037'			
Perfs 3013	3-3016'	TD- 3037'	

30-005-01150	-	Pre-Ongard Well #11 (Eastcap Queen Po	ool Unit #11)
P&A 1/24/1974		Operator: Pre-Ongard Well Operator (Mi Location: Sec. 27 T14S R31E 1650 FSL 330 FWL Objective: Caprock Queen	ller Miller Auctioneers Inc)
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 242'
150sx			
242'			
	7 7/8"		5 1/2" @ 3113'
75sx		a second second	CIBP @ 3008' w/ 5sx cmt cap
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	40sx cmt plug @ 792'
÷		and the second second second second	40sx cmt plug @ 280'
		XXXXX	10sx cmt plug @ surface
3113'			
Perfs 3106	-3125'	TD- 3125'	

30-005-01148		Pre-Ongard Well	#4 (State D #4)				
P&A 5/15/1986	5	Operator: Pre-Ongard Well Operator (Lewis Burleson Inc) Location: Sec. 27 T14S R31E 1650 FSL 1650 FWL Objective: Caprock Queen					
Depth	Hole Size & Cement			Casing Detail			
	11"			8 5/8" @ 242'			
150sx			XXXXX				
253'	7 7/8"			4 1/2" @ 3113'			
75sx	7 770			CIBP @ 3010' w/ 35' cmt cap			
				CIBP @ 268'			
				Perf @ 258' Cmt 25sx			
04001				100sx cmt to surface			
3120'	2112	~~~~~	XXXX ~~~~~				
Perf 3106	-3113'	-	TD- 3120'				

30-005-01147		Pre-Ongard Well #13 (Eastcap Queen Pool Unit #13)
P&A 1/17/1974		Operator: Pre-Ongard Well Operator (Miller Miller Auctioneers) Location: Sec. 27 T14S R31E 1650 FSL 2310 FEL Objective: Caprock Queen
Depth	Hole Size & Cement	Casing Detail
	11"	8 5/8" @ 271'
150sx		
256'		
	7 7/8"	4 1/2" @ 3094'
75sx		CIBP @ 3006' w/5sx cmt cap
		50sx cmt plug @ 1514'
		40sx cmt plug @ 290'
3094'		10sx cmt plug @ surface
Perf 3086-	3110'	TD- 3110'

Hole Size & Cement	Operator: Pre-Ongar Location: Sec. 27 T1 1650 FSL 990 FEL Objective: Caprock	4S R31E	ulf Oil Corporation)
			Casing Detail
11"			8 5/8" @ 256'
			d an un aballa
7 7/8"			4 1/2" @ 3088'
			25sx cmt plug @ 3106-2858'
			75sx cmt plug @ 0-400'
		7 7/8"	

30-005-01140		Pre-Ongard Well #1 (Medlin #1)					
P&A 11/4/1956	3	Operator: Pre-Ongard Well Operator (Do Location: Sec. 26 T14S R31E 1980 FSL 660 FWL Objective: Undesignated	nnelly Drilling Company Inc)				
Depth	Hole Size & Cement	]	Casing Detail				
	11"		8 5/8" @ 323"				
175sx							
323'							
100	7 7/8"		4 1/2" @ 3123'				
100sx			Cmt plug @ 3126-2700' 20sx Cmt plug @ 2260'				
			20sx Cmt plug @ 1600'				
3123'			10sx Cmt plug @ Surface				
Perfs 310	7-3112'	TD- 3123'					

30-005-01163		South Caprock Queen Unit #14	
P&A 3/1/2006		Operator: Kevin O Butler & Assoc, Inc Location: Sec. 28 T14S R31E 330 FSL 1980 FWL Objective: Caprock Queen	
Depth	Hole Size & Cement		Casing Detail
	11"		8 5/8" @ 323"
100sx			
323'	7 7/8"		5 1/2" @ 3123'
200sx			No Plugging Information on OCD
2 2	,		
^{3123'} Perfs 2930	)-2936'	TD- 3123'	

Receiredos (CIS) & D2#24 2:27:04 PM Page 97 of 132 **OCD Well Locations** Sec. 34 T14S R31E 1650 FNL 1650 FWL POD MAP NWSW NWSE NESW NWSE NESE NWSW NESW NWSE NESE NWSW NESW (L) (L) (K) (J) (1) (K) (J) (1)(L) (K) (J) 21 22 23 SESW SESW SWSE SESE SWSW SWSE SWSW SWSE SWSW SESW SESE (N) (P) (0) (M) (0) (P) (M) (N) (0)(M) (N) NWNE NWNW NENW NWNW NENW NWNE NENE NWNW NENW NWNE NENE (B) (B) (A) (D) (C) (B) (C) (A) (D) (C) (D) 3 Lat 0 RA-09984 4436 ft 0 RA-12802 (F) 60° SWNE SWNW SENW SWNE SWNW SENE SWNW SENW SENE (G) (F) (G) (F) (H) (E) (G) (王) (E) (E) 26 Ursula 72 4404 TK) NWSW WSE NESE NWSW NESW NWSE NESE NWSW NWSE (L) (J) (K) (J)(1) (L) (J) (1)(L) ______4422 ft 14S 31E SWSW SWSE SESE SWSW SESW SWSE SESE SWSW SESV SWSE SESW •(P) (N) (M) (N (0)(M) (N) (0)(P) (M) (0) RA-12804 NWNE NENE NWNW NENW NENW NWNE NWNW NENW NWNE NENE NWNW (D) (C) (B) (A) (D) (C) (B) (C) (B) (A) (D) 4435 ft Q SENW SWNE SWNE SENE SWNW SWNE SENE SWNW SENW SWNW SENW (E) (F) (G) (F) 4419 ft (G) (H) (F) (H) (E) (E) (G) 4438 **3**3 35 NWSW NESW NWSE NESE NWSW NESW NWSE NWSW NESW NWSE NESE (K) (J) (L) (K) (1)(L) **( )** (J) (1)(L) (J)72 SESW SWSE SWSW SESW SWSE SESE SWS SWSW SESW SWSE SESE (P) (0) (N) (0) (M) (N) (0) (P) (M) (N)  $\mathbf{U}$ L-03075 0 L-06389 L 3 L 2 L 4 L4 L 3 L 2 L1 L4 L 3 L 2 SEA395 ft (F) SWNE SENE SWNW SWNW SENW SENE SWNW SENW 02 04 03 (G) (F) (H) (E) (E) (F) (H) (E)

	15S 31E	(G)				(G)				
					4416 ft					+
NWSW	NESW	NWSE	NESE	NWSW	NESW	NWSE	NESE	NWSW	NESW	NWSE
(L)	(K)	(1)	(1)	(L)	(K)	(J)	(1)	(L)	(K)	(J)
SWSW	SESW	SWSE	SESE	SWSW	SESW	SWSE	SESE	SWSW	SESW	SWSE
(M)		(-0)	(-P)	(-M )	(-N )	(-0)	(-P)	(M)	(N)	$+ -(\sigma) -$

4/24/2024, 10:06:09 AM

#### **OSE Water PODs**

0 Active

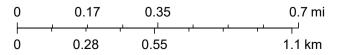
#### 0 Pending

### PLSS Second Division

**PLSS** First Division



1:18,056



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

New Mexico Oil Conservation Division

Released to Imaging: 9/16/2024 2:08:16 RM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Received by OCD: 8/9/2024r2:25e04a@Mn.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"% 74" jac 9'8/3f 132



								-		1.1							
			(acre ft per a	nnum)			(	=the file is	closed)	(quarter	's are st	nallest	to larg	est)	(NAD83 UTM	in meters)	
	Sub						Well				qq	q					
WR File Nbr	basin	Use	Diversion	Owner	County	POD Numb	er Tag	Code Gr	ant	Source	6416	4 Sec			х	Y	
L 03075	L	DOM	3	JOSEPH I O'NEILL	LE	L03075				Shallow	3 3	3 34	14S	31E	610436	3657805*	9
L.03204	L	PRO	0	CYNTHIA E MEDLIN	LE	L 03204				Shallow	3	2 34	14S	31E	611333	3652772	9
L 06389	L	DOL	3	MEDLIN-TAYLOR	CH	L 06389					44	4 34	14S	31E	611843	3657822*	0
<u>L 12445</u>	L	PRO	0	M & W INC	LE	L03204				Shallow	3	2 34	14S	31E	611333	3652772	9
Record Count:																	
PLSS Searc	<u>h:</u>																
Section(s)	: 34		1	ownship: 14S	Range: 31E												
Sorted by:	File Nu	umber															
*UTM location was	derive	d from	PLSS - see	Help													

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/24/24 9:18 AM

ACTIVE & INACTIVE POINTS OF DIVERSION

Redetivet by OCD: 8/9/2024 2:25 (Hale Mn.us/nmwrrs/ReportDispatcher?type=TRANSHTML&name=TransactionSummaryHTML.jrxml&basipriger095 132

ram Committuien		-	ransaction	Jamma	
			UWL Update Well Location	on	
ansaction Nu	<b>mber:</b> 68593	33	Transaction Desc: L 03075	File	Date: 12/11/20
Primary S Secondary Person As	Status: ACC	-	late Well Location epted		
Events					
get images	<b>Date</b> 12/11/2020	<b>Туре</b> АРР	Description Application Received	Comment *	Processed By ******
	12/11/2020	UWL	Update Well Location	WELL NOT FOUND	*****
	02/02/2021	QAT	Quality Assurance Completed	DATA	*****
	03/04/2021	QAT	Quality Assurance Completed	IMAGE	*****
	03/09/2021	ARW	WRAB Main File Rm Arch Sect	L 03075 Archived	*****
Change T					
WR Fi		Acr		ive Purpose of Use DOM 72-12-1 DOM	JESTIC ONE
L 0307		-	0	HOUSEHOLD	VIESTIC ONE
	int of Diversion	n	610436 3657805*	8	
		hing value	indicates UTM location was derived fro	m PLSS - see Help	

ABSTRACTOR NOTE: PER LORI GREEN & ANDY MORLEY ON 12/11/20 NO WELL WAS FOUND. FIELD INVESTIGATION COMPLETED ON SAID WELL. WELL NOT FOUND IN SECTION

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.

4/24/24 9:17 AM

TRANSACTION SUMMARY

Reversed by OCD: 8/9/2024/2:23e04a@Mn.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=19/19/20/06/132

1	WR File	Numbe	r: L 03204	4		Subbasin: L	Cross Re	ference:	-	
-	Primary	Purpos	e: PRO	72-12	-1 PR	OSPECTING OR DEVE	LOPMENT O	F NATUF	RAL RESOU	URCE
image list	Primary	Status:	PMT	PERM	ЛIТ					
	Total Ac	res:				Subfile: -			Header:	-
	Total Di	version:	0			Cause/Case: -				
		Owner	CYNTH	HIAEN	MEDL	IN				
uments	on File									
				Sta	atus		From/			<b>a</b>
			ile/Act	1	2	Transaction Desc.	То	Acres		Consumptive
images	487566 C	LW 200	9-11-09	APP	WDR	L-7157 INTO L-3204	T	0	0	
get images	487502 C	OWNF	1960-06-13	CHG	PRC	L 03204	Т		3	
get images	487501 72	2121 19	<u>56-06-01</u>	PMT	LOG	L-3204	Т		3	
	10/201 /1	-1-1 17	00 00 01		200					

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.

4/24/24 9:20 AM

Retiewed by 200D: 8/9/2024/2:25:04 PMn.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=18026-96388f 132

late Stream (				ico Offic <b>er Rig</b>				0	
2	WR File Num	ber: L 0638	39	Subbasin:	L	Cross Ref	erence:	-	
	<b>Primary Purp</b>	ose: DOL	72-12-1 DO	DMESTIC AND L	IVESTO	CK WATERIN	٧G		
age list	Primary Statu	IS: PMT	PERMIT						
	<b>Total Acres:</b>			Subfile:	-			Header: -	- C
	<b>Total Diversio</b>	<b>n:</b> 3		Cause/Case	: -				
	Own	er: MEDL	IN-TAYLOR						
ments	s on File								
			Status			From/			
	Trn # Doc	File/Act	1 2	Transaction Des	с.	То	Acres		Consumptive
g <u>et</u> images	507865 72121	1968-10-17	PMT APR	L 06389		Т		3	
ent Po	oints of Diversio	n		0	NAD83 UTI	M in meters)			
			Q			,			
		Well Tag So	•	Q4Sec Tws Rng	X	Y	Other I	Location Des	sc
<u>L 0638</u>	<u>19</u>		. 4 4	4 34 14S 31E	611843	3657822*	9		
	*An (*) after	northing value	indicates UTM	location was derived	from PLSS	- see Help			

4/24/24 9:23 AM

Reversed by OCD: 8/9/2024 12:25 (Male Min.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=

		Λ			ico Offic er Rig				eer
get image list	WR File Nur Primary Pur Primary Stat	pose: PRO	0 72-12-		Subbasin: DSPECTING O		Cross Refe		SOURCE
	Total Acres: Total Diversi	<b>on:</b> 0			Subfile: Cause/Cas	- e: -		Header	r: -
	Ow Cont		& W INC CE STAPLE	ETON					
get get	s on File Trn # Doc 487792 72121	<b>File/Act</b> 2009-07-13	Sta 1 PMT	2	Transaction De L 12445	sc.	From/ To T	Acres Divers	ion Consumptive
Current Po	oints of Divers			4Q16Q	<b>Q4Sec Tws Rng</b> 2 34 14S 31E	(NAD83 UTM <b>X</b> 611333	1 in meters) Y 3652772	Other Location	Desc

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.

4/24/24 9:24 AM

Redelwed by OCD: 8/9/2024/2:25elda Mn.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv" Pargia #03/0f 132

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

(with Ownership Information)

									R=POD has been replaced and to longer serves this file,	(quarter	rs are 1=N	W 2=	NE 3	SW 4-5	SE)	
		(	acre ft per a	nnum)				C	=the file is closed)	(quarte	ers are sm	allest t	to large	est) (	NAD83 UTM	in meters)
	Sub							Well			<b>q q q</b>					
R File Nbr	basin	Use	Diversion	Owner		County	POD Number	Tag	Code Grant	Source	64164				х	Y
A 09984	RA	STK	0	BOGLE LTD.		CH	<u>RA 09984</u>				4 2 2	28	14S	31E	610201	3660615*
A 12802	RA	STK	3	BOGLE LTD CO		СН	RA 12802 POD1	2249B		Shallow	2 3 2	28	14S	31E	609751	3660474
A 12804	RA	STK	3	BOGLE LTD CO		CH	RA 12804 POD1	2249C		Shallow	344	28	14S	31E	610042	3659452
ecord Count:	3															
PLSS Searc	<u>h:</u>															
Section(s)	: 28		Т	ownship: 14S	Range: 31E											
Sorted by:	File Nu	mber														
UTM location was	derived	from l	PLSS - see H	lelp												

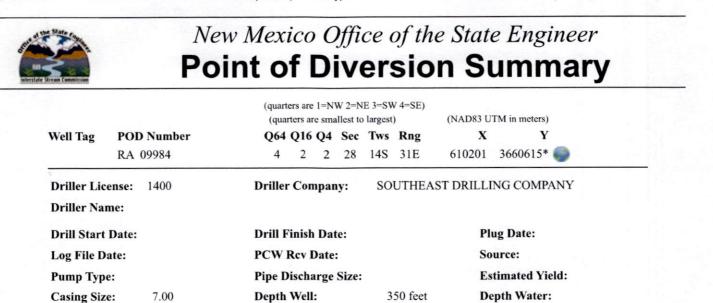
4/24/24 9:31 AM

ACTIVE & INACTIVE POINTS OF DIVERSION

Redewed By3 OCD: 8/9/2024/23:23:044 PMn.us/nmwrrs/ReportDispatcher?type=TRANSHTML&name=TransactionSummaryHTML.jrxml&bapageAf04rof 132

# New Mexico Office of the State Engineer **Transaction Summary**

insaction 1	Number: 19478	81	Transaction Desc: RA 09984	File Date: 10/25/2000
Person A	ry Status: EX Assigned: *** Applicant: BO	P Exj		
Events				
	Date 10/25/2000	<b>Type</b> APP	DescriptionCommentApplication Received	Processed By ******
	10/26/2000	FIN	Final Action on application	*****
	10/26/2000	WAP	General Approval Letter	*****
	10/26/2001	EXP	Expired Permit (well log late)	*****
RA (	File Nbr 09984 Point of Diversio RA 09984			12-1 LIVESTOCK WATER
<b>WR</b> RA ( **]	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions	n hing valu	3 STK 72- 610201 3660615* 🌑	12-1 LIVESTOCK WATER
WR RA ( **] H Condit	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v	n hing valu well shal	3 STK 72- 610201 3660615* ate indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill.	12-1 LIVESTOCK WATER
WR RA( **j H Conditi 1A 4	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1	n hing valu well shal timited t tre and/c	3 STK 72- 610201 3660615* ate indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill.	12-1 LIVESTOCK WATER
WR RA( **j H Conditi 1A 4	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1 exceed one ac of the State Eng	n hing valu well shal imited t re and/c ineer	3 STK 72- 610201 3660615* ate indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill.	12-1 LIVESTOCK WATER Help garden not to
WR RA( **j H Conditi 1A 4	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1 exceed one ac of the State Eng ** So Approval Co	n hing valu well shal limited t tre and/o ineer ee Imag de: A	3 STK 72- 610201 3660615* te indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill. to household, non-commercial trees, lawn and or stock use. ge For Any Additional Conditions of Approv - Approved	12-1 LIVESTOCK WATER Help garden not to
WR RA( **j H Conditi 1A 4	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1 exceed one ac of the State Eng ** So Approval Co Action Date:	hing valu well shal imited t re and/c ineer ee Imag de: A 10	3 STK 72- 610201 3660615* te indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill. to household, non-commercial trees, lawn and or stock use. ge For Any Additional Conditions of Approv - Approved 0/26/2000	12-1 LIVESTOCK WATER Help garden not to
WR RA( **j H Conditi 1A 4	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1 exceed one ac of the State Eng ** So Approval Co	hing valu well shal imited t irre and/o ineer ee Imag de: A 10 e: 10	3 STK 72- 610201 3660615* te indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill. to household, non-commercial trees, lawn and or stock use. ge For Any Additional Conditions of Approv - Approved	12-1 LIVESTOCK WATER Help garden not to
WR RA( **J F Conditi 1A 4 Action	File Nbr 09984 Point of Diversio RA 09984 *An (*) after nort ions Depth of the v Use shall be 1 exceed one ac of the State Eng ** So Approval Co Action Date: Log Due Date State Engined	n hing valu well shal imited t re and/c ineer ee Imag de: A 10 e: 10 er: Th is accepte	3 STK 72- 610201 3660615* te indicates UTM location was derived from PLSS - see Il not exceed the thickness of the valley fill. to household, non-commercial trees, lawn and or stock use. ge For Any Additional Conditions of Approv - Approved 0/26/2000 0/26/2001	12-1 LIVESTOCK WATER Help garden not to al **



*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/24/24 9:31 AM

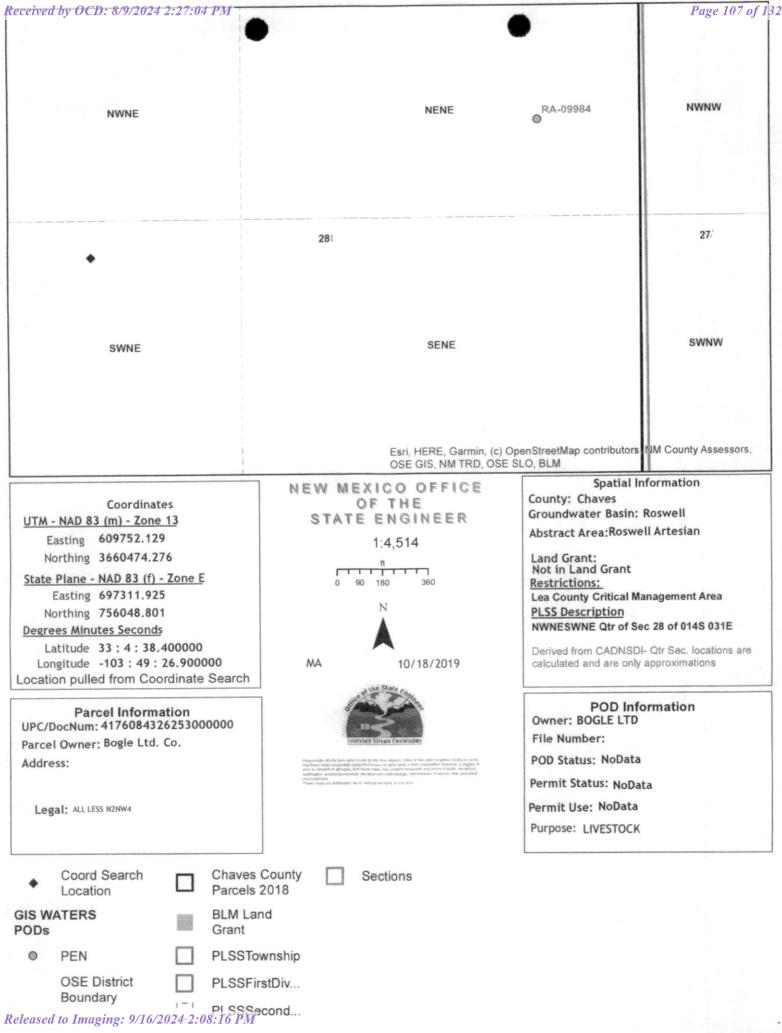
POINT OF DIVERSION SUMMARY

Received by QGD: 8/9/2024 2:23:04aRMm.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=Pageo100.00 132

mage list	Primary Purpose:	RA 128 STK		Subbasin: VESTOCK WATE	RA RING	Cross Refe	erence:	-	
	Primary Status: Total Acres:	PMT	PERMIT	Subfile:	-			Header: -	• ,
	<b>Total Diversion:</b>	3		Cause/Case	: -				
	Owner:	BOGLE	E LTD CO						
	Contact:	CHRIS	CORTEZ						
uments	on File		Status			From/			
т	Frn # Doc File	Act	Status 1 2	Transaction Des		То	Acres	Diversion	Consumptive
get 6 images	561034 72121 2019-	<u>10-18</u>	PMT LOG	RA 12802 POD1		Т		3	

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.

4/24/24 9:32 AM

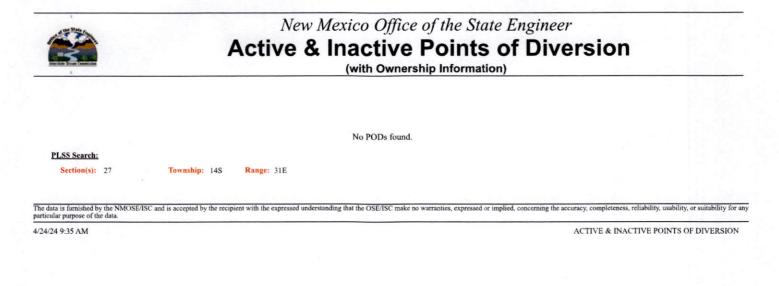


Received by OVD: 8/9/2024 12:29:04 PMn.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=PAgebT0889 132

5	WR File Nu Primary Pu	mber: RA l rpose: STK		Subbasin: LIVESTOCK WAT		Cross Re	ference:	-	
image list	Primary Sta								
	<b>Total Acres:</b>			Subfile:	-			Header:	
	<b>Total Divers</b>	sion: 3		Cause/Cas	se: -				
	Ov	vner: BOG	LE LTD CO						
	Con	tact: CHR	IS CORTEZ						<u>.</u>
cuments	s on File								
			Statu			From/ To	A	Diversion	Consumptive
	Trn # Doc	File/Act	1	2 Transaction De			Acres	Diversion 3	Consumptive
	661041 72121	2019-10-18	PMT L	OG RA 12804 POD	1	Т		3	

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.

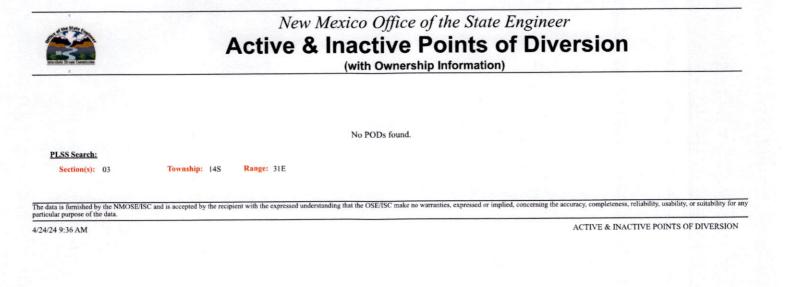
4/24/24 9:34 AM



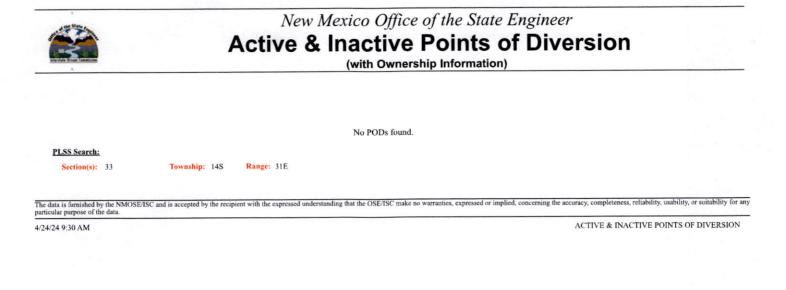
Recetived \$3000D: 8/9/2024r2:25% (#a)PMn.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"%AggaIst 132

	New Mexico Office of the State Engineer Active & Inactive Points of Diversion (with Ownership Information)								
	No PODs found.								
PLSS Search:									
Section(s): 26	Township: 14S Range: 31E								
ne data is furnished by the NMOSE/ISC rticular purpose of the data.	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 a							
	ACTIVE & INACTIVE POINTS OF	NUEDSION							

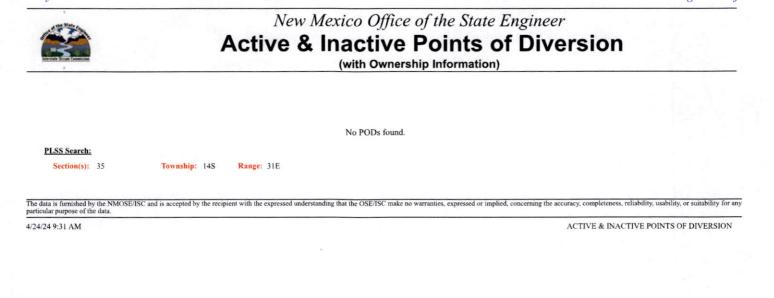
Required by OGD: 8/9/2424 2:23:04ale Am.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv" Putyte 12 132



Received by Ocd: 8/9/2024 3:23:04 BMn.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv" Ragia 1:22% 1.32



Redetived By 30CD: 8/9/2024 23:27:04 appm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"%3A"false "%2 132





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/l
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 (mg/l or g/m3):	150968.6	Carbonate:			Calcium:	2725.0	135.98
Density (g/cm3):	1.102	Sulfate:	2800.0	58.3	Potassium:	644.4	16.48
Density (g/cilis).	1.102	Borate*:	190.4	1.2	Strontium:	55.6	1.27
	9	Phosphate*			Barium:	0.9	0.01
Hydrogen Sulfide:	5				Iron:	9.0	0.32
Carbon Dioxide:	97		ised on measured on and phosphore	-	Manganese:	0.857	0.03
0		pH at time of sampl	ling:	6.65			
Comments:		pH at time of analys	sis:				
		pH used in Calcula	ation:	6.65	Quarter of the fact		000070
		Temperature @ lal	b conditions (F):	75	Conductivity (micro-ohms/cm): Resistivity (ohm meter):		200079 .0500

		Values Calculated at the Given Conditions - Autounts of Scale in Ib/1000 bbl										
Temp	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Calcite CaCO ₃		Gypsum CaSO₄2H ₂ 0		Anhydri`e CaSO 4		Celestite SrSO ₄		Barite BaSO 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		



Mack Energy Corporation		Sample #:	78595
Artesia		Analysis ID #:	76096
Chilliwack			
Fed Com 1H	0		
Wellhead			
	Artesia Chilliwack Fed Com 1H	Artesia Chilliwack Fed Com 1H 0	Artesia     Analysis ID #:       Chilliwack     0

				1			
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 (gronis).	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 measure on and phosphor	-	Manganese:	0.189	0.01
<b>.</b>		pH at time of samp	ling:	6.95			
Comments:		pH at time of analy	sis:				
		pH used in Calcul	ation:	6.95			
		Temperature @ la	b conditions (F):	75	Conductivity (mi Resistivity (ohm		200381 .0499

		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl											
Temp °F		Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		rite ISO ₄			
	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			2011 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 -	
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 (mall or a/m2);	151377.2	Carbonate:			Calcium:	2767.0	138.07
TDS (mg/l or g/m3): Density (g/cm3):	1.105	Sulfate:	700.0	14.57	Potassium:	647.0	16.55
Density (g/cilis).	1.105	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		sed on measured on and phosphor	-	Manganese:	0.416	0.02
		pH at time of sampl	ing:	7.23			
Comments:		pH at time of analys	is:	0			
	8	pH used in Calcula	ation:	7.23			
		Temperature @ lat	conditions (F):	75	Conductivity (mi Resistivity (ohm		197210 .0507

		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl											
Тетр		Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		rite aSO ₄			
°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			



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	meq/l	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 (	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
Carbon Dioxide:	102		ased on measured on and phosphore		Manganese:	0.550	0.02
		pH at time of samp	ling:	7.14			
Comments:	State State	pH at time of analy	sis:				
		pH used in Calcul	ation:	7.14	Our day to the day		
		Temperature @ la	b conditions (F):	75	Conductivity (mic Resistivity (ohm		199270 .0502

	and and	Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO 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
TDE /	144232	Carbonate:			Calcium:	2566.0	128.04
TDS (mg/l or g/m3):	1.097	Sulfate:	3300.0	68.71	Potassium:	564.2	14.43
Density (g/cm3):	1.097	Borate*:	173.9	1.1	Strontium:	53.5	1.22
		Phosphate*			Barium:	1.5	0.02
Hydrogen Sulfide:	14				Iron:	1.5	0.05
Construction of the second			sed on measured	The second second second second second second second second second second second second second second second s	Manganese:	0.460	0.02
Carbon Dioxide:	162.8	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	and the second		
		Temperature @ lat	conditions (F):	75	Conductivity (min Resistivity (ohm	and the second second second second	194536 .0514

		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄			
°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
TDC (mall or alm3):	161820.5	Carbonate:			Calcium:	2737.0	136.58
TDS (mg/l or g/m3):	1.107	Sulfate:	5000.0	104.1	Potassium:	571.6	14.62
Density (g/cm3):	1.107	Borate*:	229.5	1.45	Strontium:	66.0	1.51
a to the		Phosphate*			Barium:	0.0	0.
Hydrogen Sulfide:	11				Iron:	3.8	0.14
Second States		*Calculated ba	ased on measure	d l	Manganese:	0.000	0.
Carbon Dioxide:	242	elemental bord	on and phosphor	us.			
	2	pH at time of sample	ling:	6.9			
Comments:		pH at time of analys	sis:				
		pH used in Calcula	ation:	6.9			
		Temperature @ lal	b conditions (F):	75	Conductivity (min		176042

		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO 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		



July 19, 2024

PN 1904.SEIS.00

Mr. Phillip Goetze, P.G. NM EMNRD – Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

#### Subject: Mack Energy Corporation Rooster SWD #1 - Seismic Potential Letter

Dear Mr. Goetze,

At the request of Mack Energy Corporation (Mack Energy), ALL Consulting, LLC (ALL) has assessed the potential injection-induced seismicity risks in the vicinity of Mack Energy's Rooster SWD #1, a proposed saltwater disposal (SWD) facility in Chaves County, New Mexico, and summarized the findings in this letter. This assessment used publicly available data to identify the proximity and characteristics of seismic events and known faults to evaluate the potential for the operation of the Rooster SWD #1 to contribute to seismic activity in the area.

### **Geologic Evaluation**

The Rooster SWD #1 is requesting a permit to inject into the Devonian Formation at a depth of 12,900-13,600 feet below ground surface (bgs). The Devonian Formation consists of cherty limestone and dolomites and is overlain by approximately 28 feet of low porosity and permeability Mississippian Lime, which would prevent the upward migration of injection fluid and serve as the upper confining layer (see **Attachment 1**). Additionally, the Devonian Formation is underlain by various low porosity and permeability zones within the Silurian and Montoya Groups, both of which consist of limestones, dolomites, and interbedded shale zones. No geophysical logs penetrating the Silurian and Montoya Groups were available within 10 miles of the Rooster SWD #1. A stratigraphic chart depicting the geologic setting is included as **Figure 1**.¹

### **Seismic Events and Fault Data**

A review of United States Geological Survey (USGS) and New Mexico Tech Seismological Observatory (NMTSO) earthquake catalogues determined that four (4) seismic events have been recorded within a 100 square mile area [9.08-kilometer (km) radius] around the Rooster SWD

ALL Consulting 1 Phone 918.382.7581

1718 South Cheyenne Ave. Fax 918.382.7582

¹ Yang, K.-M., & Dorobek, S. L. (1995). The Permian Basin of west Texas and New Mexico: Tectonic history of a "composite" Foreland Basin and its effects on stratigraphic development. *Stratigraphic Evolution of Foreland Basins*, 149–174. https://doi.org/10.2110/pec.95.52.0149

#1. The closest recorded seismic event was a M1.44 that occurred on May 16, 2021, and was located approximately 3.52 miles southeast of the Rooster SWD #1 (see **Attachment 2**).

Fault data from United States Geological Survey (USGS) and the Texas Bureau of Economic Geology (BEG)² indicates that the closest known fault is located approximately 7.13 miles southeast of the Rooster SWD #1 (see **Attachment 2**). This identified fault is within the Precambrian basement, which is approximately 2,400 feet below the proposed injection interval.³ A map of the seismic events and faults within 9.08 km of the Rooster SWD #1 is included as **Attachment 2**.

### **Seismic Potential Evaluation**

Experience in evaluating induced seismic events indicates that most injection-induced seismicity throughout the U.S. (e.g., Oklahoma, Ohio, Texas, New Mexico, and Colorado) occurs as a result of injection into Precambrian basement rock, into overlying formations that are in hydraulic communication with the Precambrian basement rock, or as a result of injection near

SYSTEM	SERIES/ STAGE	CENTRAL BASIN PLATFORM	DELAWARE BASIN
	OCHOAN	DEWEY LAKE RUSTLER SALADO	DEWEY LAKE RUSTLER SALADO CASTILE
PERMIAN	GUADALUPIAN	TANSILL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETA	DELAWARE MT GROUP BELL CANYON CHERRY CANYON BRUSHY CANYON
	LEONARDIAN	CLEAR FORK	BONE SPRING
	WOLFCAMPIAN	WOLFCAMP	WOLFCAMP
	VIRGILIAN	CISCO	CISCO
	MISSOURIAN	CANYON	CANYON
PENNSYLVANIAN	DESMOINESIAN	STRAWN	STRAWN
	ATOKAN	ATOKA BEND	ATOKA
	MORROWAN	(ABSENT)	MORROW
MISSISSIPPIAN	CHESTERIAN MERAMECIAN OSAGEAN	CHESTER BARNET	CHESTER BARMET
	KINDERHOOKIAN	KINDERHOOK	KINDERHOOK
DEVONIAN			WOODFORD
SILURIAN		SILURIAN SHALE FUSSELMAN	MIDDLE SILURIAN FUSSELMAN
	UPPER	MONTOYA	SYLVAN MONTOYA
ORDOVICIAN	MIDDLE	SIMPSON	SIMPSON
	LOWER	ELLENBURGER	ELLENBURGER
CAMBRIAN	UPPER	CAMBRIAN	CAMBRIAN
PRECAMBRIAN			

#### Figure 1 – Delaware Basin Stratigraphic Chart (Adapted from Yang and Dorobek 1995)

critically stressed and optimally oriented faults. Seismicity at basement depths occurs because critically stressed faults generally originate in crystalline basement rock and may also extend into overlying sedimentary formations.⁴

Injection into either the Precambrian basement rock or its overlying formations that are hydraulically connected to the basement rock through faulting or fracture networks can increase the pore pressure and may lead to the fault slipping, resulting in a seismic event.⁴ As such, the vertical distance between the injection formation and Precambrian basement rock and the presence or lack of faulting within the injection interval are major considerations when determining the risk of injection-induced seismicity.

² Horne E. A. Hennings P. H., and Zahm C. K. 2021. Basement structure of the Delaware Basin, in The Geologic Basement of Texas: A Volume in Honor of Peter Flawn, Callahan O. A., and Eichubl P., The University of Texas at Austin, Bureau of Economic Geology.

³ G. Randy Keller, J. M. Hills &; Rabah Djeddi, A regional geological and geophysical study of the Delaware Basin, New Mexico and West Texas, Trans Pecos Region (West Texas) (1980).

⁴ Ground Water Protection Council and Interstate Oil and Gas Compact Commission.

Potential Injection-Induced Seismicity Associated with Oil & Gas Development: A Primer on Technical and

Regulatory Considerations Informing Risk Management and Mitigation. 2015. 141 pages.

Geophysical data from nearby well records, aeromagnetic surveys, and gravity surveys indicates the top of the Precambrian basement to be approximately 16,000 feet bgs at the Rooster SWD #1, or approximately 2,400 feet below the proposed injection interval.³ In addition, publicly available fault data does not indicate any transmissive faulting is present above the Precambrian basement around the Rooster SWD #1.

Class II SWDs in New Mexico are permitted with a maximum pressure gradient of 0.2 psi/ft. Review of New Mexico Oil Conservation Division (OCD) Order IP-537 from the Mack Energy Round Tank SWD #1, which is located approximately 15.5 miles southwest of the Rooster SWD #1, determined the maximum allowable surface pressure for a Devonian SWD in the region is 0.41 psi/ft from an approved step-rate test. Typical SWD permitting standards in New Mexico would indicate that formation parting pressure would not be exceeded by the Rooster SWD #1.

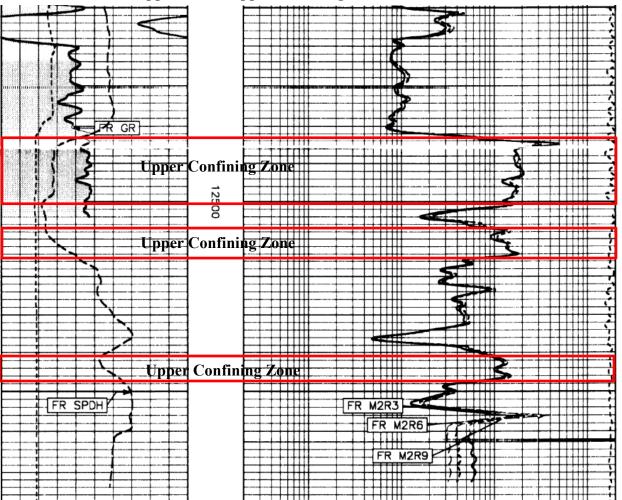
### Conclusion

As an expert on the issue of induced seismicity, seismic monitoring, and mitigation, it is my opinion that the potential for the Rooster SWD #1 to cause injection-induced seismicity is expected to be minimal, at best. This conclusion assumes the Rooster SWD #1 will be operated at or under the maximum allowable surface injection pressure based on the regulatory requirement of 0.2 psi/ft and is based on (1) the presence of numerous confining layers above and below the injection interval, (2) the significant vertical distance between the injection zone and Precambrian basement rock in which the nearest fault has been identified, and (3) the lack of mapped faults in the vicinity of the Rooster SWD #1.

Sincerely, ALL Consulting

Reed Davis Geophysicist

> Attachment 1 Mississippian Lime Upper Confining Zone

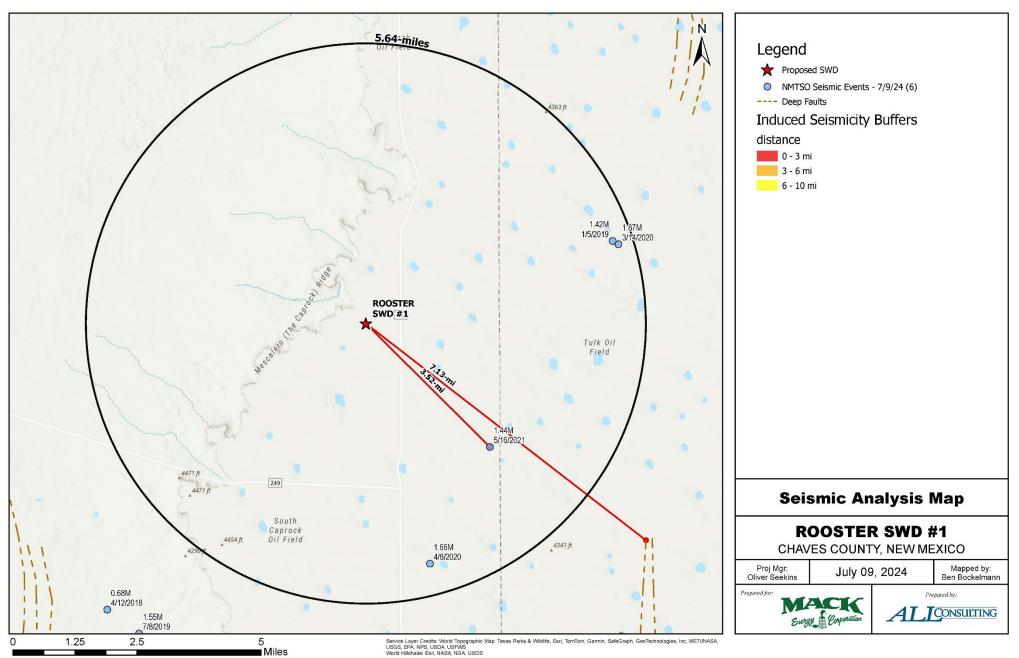


#### Mississippian Lime Upper Confining Zone from API No. 025-36220

.

Mack Energy Corporation Rooster SWD #1 Seismic Information July 19, 2024

> Attachment 2 Seismic Event Map



#### **Rooster SWD #1 Nearby Seismic Events and Faults**

Released to Imaging: 9/16/2024 2:08:16 PM

## Rooster SWD #1

Bit Size

17 1/2"Surface- 1400' 13 3/8" 54.5# J55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	Class C +4%PF20+1% PF1+ 0.125#/skPF29+.4%PF45	13.5	2.31	9.166	725	100	Surface
Tail	Class C+1%PF1	14.8	1.32	6.307	200	100	200'

Comments	20bbls Gelled Water.	Cu./Ft	
	50 sacks of 11# Scavenger	Per	973
	cement.	Lin./ Ft.	

Bit Size

12 ¼"	Intermediate- 3,900' 9 5/	8 <mark>40</mark> # J55	5				
				Mix H2O	# of Sacks	% Excess	Slurry Top
Stage 1	Slurry	Density	Yield	Gals./sk			
Lead	Class C +4%PF20+1% PF1+			9.123	925	50	Surface
	0.125#/skPF29+.4%PF45	13.5	1.72				
Tail	Class C + 1% PF1	14.8	1.34	6.307	200	50	200′

Comments		Cu./Ft
	20bbls Gelled Water.	Per
	50 sacks of 11# Scavenger	Lin./ Ft.
	cement.	1222

#### Bit size

## Production- 12,905'

8 ¾″	7"- <mark>29</mark> # HCL-80						
				Mix H2O	# of Sacks	% Excess	Slurry Top
Stage 1	Slurry	Density	Yield	Gals./sk			
Lead	Class "C" 4% PF20+4 pps			9.914	350	0	Surface
	PF45+125pps PF29	13.2	1.84				
Tail	PVL+1.3 (BWOW) PF44+5%			7.577	1400	50	3800'
	PF174+.5%PF606+.1%PF153+.4						
	ppsPF44	13	1.48				

Comments	20bbls Gelled Water.
	20bbls Gelled Water. 20bbls Chemical wash.
	50 sacks of 11# Scavenger
	cement.

## Rooster SWD #1

Stage 2	Slurry	Density	Yield	# of sacks	% Excess	Slurry Top
Lead						
Tail						
		Cu./Ft Per Lin./ Ft. 1940				
Comments	5:					

Prior to any cement job it is Mack Energy policy to circulate bottoms up 1 time before commencing with cement operations. On wells where hole conditions have been an issue during the drilling and reaming process the number or circulations needs to increase to a minimum of 2 times around.

All production cement figured with an additional 10% for washout unless otherwise noted. Flush is figured with a 40' shoe joint. Do not displace more than 2bbls over calculated flush without prior approval.

#### Received

ived by OCD: 8/9/.	2024 2:2	7:04 PM					Page 129 oj	f 132
Casing Design	Well:	Rooster SWD #1						
String Size & Function	1:	13 3/8 in	surface	×	intermediate			
Total Depth:	1400	<u>)</u> ft						
Pressure Gradient for	Calculatio	ns		(While drilling)				
Mud weight, <u>collapse</u> :		9.6 #/gal		Safety Factor Collag	ose: 1.125			
Mud weight, <u>burst</u> :		9.6 #/gal		Safety Factor Burs	t: 1.25			
Mud weight for joint s	trength:	9.6 #/gal	Safet	y Factor Joint Streng	th <u>1.8</u>			
BHP @ TD for:	collapse:	698.88 psi	Burst	:: <u>698.88</u> psi,	joint strength:6	98.88 psi		
Partially evacuated ho	ole?	Pressure gradient re	maining:	10 #/gal				
Max. Shut in surface p	pressure:	50	00_psi					
1st segment	1400	) ft to	0 ft	Make up To	que ft-lbs Total	ft = 1400		
O.D. 13.375 inches	We 54.5	ight Grade 5 #/ft J-55	Threads ST&C	opt. min. 5,140 3,8	mx. 360 6,430			
Collapse Resistance 1,130	Intern 2,730	31 033333333333333333333333333333333333	Strength 14 ,000 #	Body Yield <b>853</b> ,000 #	Drift 12.459			

2nd segment	0 ft to	0 ft		Make up Torque ft-lbs			Total ft =	
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint S	Strength	E	ody Yield	Drift		
psi	psi		,000 #		,000 #			

rd segment	0 ft to	0 ft		Make up Torque ft-lbs	
O.D.	Weight	Grade Threa	ds op	t. min.	mx.
inches	#/ft				
Collapse Resistance	Internal Yield	Joint Strength		Body Yield	Drift
psi	psi	,000 #		,000 #	

4th segment	0 ft to	0 ft	Make up Torque ft-lbs		Total ft
O.D.	Weight	Grade Threads	opt. min.	mx.	
inches	#/ft				
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift	
psi	psi	,000 #	,000 #		

5th segment	0 ft to	0 ft		Ν	Make up Torque ft-lbs			
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint S	Strength	B	ody Yield	Drift		
psi	psi		,000 #		,000 #			

6th segment	0 ft to	0 ft	Make up Torque ft-lbs		Total
O.D.	Weight	Grade Threads	opt. min.	mx.	
inches	#/ft				
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift	
psi	psi	,000 #	,000 #		

Select 1st segment bottom	1400	S.F.	Actual		Desire
		collapse	1.616873	>=	1.125
1400 ft to 0 ft		burst-b	5.15951	>=	1.25
13.375 0 J-55 ST&C		burst-t	5.46		
Top of segment 1 (ft)	0	S.F.	Actual		Desire
Select 2nd segment from bottom		collapse	#DIV/0!	>=	1.125
		burst-b	0	>=	1.25
0 ft to 0 ft		burst-t	0		
0 0 0 0		jnt strngth	7.896388	>=	1.8

#### *Received by OCD: 8/9/2024 2:27:04 PM*

Casing Design	Well:	Roc	oster SV	VD #1						
String Size & Function	1:		9 5/8	in	surface		i	ntermediate	x	
Total Depth:	3900	) ft			TVD:		390(	0 ft		
Pressure Gradient for	Calculation	ns				(While dr	illing)			
Mud weight, <u>collapse</u> :			10.3	#/gal		Safety Fact	or Collapse	1.125	-	
Mud weight, <u>burst</u> :			10.3	#/gal		Safety Fac	tor Burst:	1.25	_	
Mud weight for joint s	strength:		10.3	#/gal	Safety	y Factor Joii	nt Strength	1.8	-	
BHP @ TD for:	collapse:	2	088.84	psi	Burst	: 2088.84	<u>1</u> psi, joir	nt strength:	2088.84 ps	i
Partially evacuated h	ole?	Pre	ssure g	radient rem	aining:	10	) #/gal			
Max. Shut in surface	pressure:			500	psi					
1st segment	3900	) ft	to	0	• ft	Mak	ke up Torqu	e ft-lbs	Total ft =	3900
O.D.	Wei	ight		Grade	Threads	opt.	min.	mx.		0000
9.625 inches Collapse Resistance 3,090 psi	40 Intern 5,750	) #/ft al Yie psi		L-80 Joint St	LT&C trength ,000 #		<b>5,450</b> Yield <b>3</b> ,000 #	9,090 Drift 8.75-SD		
<b>0,000</b> poi	0,100	por			,000 #		,000 //	0.10 02	1	
2nd segment		ft	to		ft	Mał	e up Torqu	e ft-lbs	Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance psi	Intern	al Yie psi	eld	Joint St	trength ,000 #	Body	/ Yield ,000 #	Drift		
									-	
3rd segment		) ft	to		ft		e up Torqu		Total ft =	0
O.D. inches	Wei	ight #/ft		Grade	Threads	opt.	min.	mx.		
Collapse Resistance psi	Intern	al Yie psi	eld	Joint St	trength ,000 #	Body	/ Yield ,000 #	Drift		
4th segment O.D.	C Wei	) ft iaht	to	0 Grade	ft Threads	Mak opt.	e up Torqu min.	e ft-lbs mx.	Total ft =	0
inches		ਁ#/ft								
Collapse Resistance psi	Intern	al Yie psi	eld	Joint St	trength ,000 #	Body	/ Yield ,000 #	Drift		
5th segment O.D.	C Wei	) ft iaht	to	0 Grade	ft Threads	Mak opt.	e up Torqu min.	e ft-lbs mx.	Total ft =	0
inches		#/ft								
Collapse Resistance psi	Intern	al Yi psi	eld	Joint St	trength ,000 #	Body	/ Yield ,000 #	Drift		
6th cogmont		) ft	to	0	) ft		e up Torqu	o ft lbo	Total ft =	0
6th segment O.D.	Wei	ight		Grade	Threads	opt.	min.	mx.		0
inches Collapse Resistance	Intern	#/ft al Yie		Joint St		Body	v Yield	Drift		
psi		psi			,000 #		,000 #			
Select 1st segme	nt bottom				1200	)	S.F.	Actual		Desire
3900 ft to	C	) ft		]			collapse burst-b	1.47929 13.09318	>= >=	1.125 1.25
9.625 0	L-80 Top of sec	LT8			0	'n	burst-t S.F.	11.5 Actual		Desire
Select 2nd segme	ent from bot		ι ι (iι)		Y	4	o.r. collapse burst-b	#DIV/0! 0	>= >=	1.125 1.25
0 ft to 0 0		) ft	0	]			burst-t jnt strngth	0	>=	1.23
0 0	, L	,	0	1			ງກະຈະກາງທີ	0.002003		1.0

jnt strngth 5.532053 >= 1.8

#### Received by OCD: 8/9/2024 2:27:04 PM

Casing Design	Well:	Rooster SV	VD #1					
String Size & Functior	1:	7	in	Production	X			
Total Depth:	12905	ft		TVD:	1	2905 ft		
Pressure Gradient for	⁻ Calculatior	ıs			(While drilling)			
Mud weight, collapse:		10.3	#/gal	:	Safety Factor Colla	apse: 1.125		
Mud weight, <u>burst</u> :		10.3	#/gal		Safety Factor Bur	st: 1.25	<u>.</u>	
Mud weight for joint s	strength:	10.3	#/gal	Safety	Factor Joint Stren	igth 1.8	<u>.</u>	
BHP @ TD for:	collapse:	6911.918	psi	Burst:	<u>6911.918</u> psi,	joint strength:	6911.918	psi
Partially evacuated h		Pressure g	radient rem	aining:	<u>10</u> #/gal			
Max. Shut in surface	pressure:		3000	psi				
1st segment	12905	ft to	0	ft	Make up To	orque ft-lbs	Total ft =	12905
O.D.	Wei		Grade	Threads	opt. min.	mx.		
7 inches Collapse Resistance		#/ft al Yield	HCL-80 Joint St	Buttress	5970 44 Body Yield	80 7460 Drift		
9,200 psi	8,160	psi	000010001000010000100	,000 #	<b>676</b> ,000 #			
	·				1	6 U	<b>T</b> ( ) (	
2nd segment O.D.	Wei	ft to aht	0 Grade	ft Threads	Make up To opt. min.	orque ft-lbs mx.	Total ft =	0
7 inches	100100001000100001000	; #/ft	HCP-110			,200 8,660		
Collapse Resistance <b>7,800</b> psi	Intern 9,950	al Yield psi-lrcr	Joint St 853	rength ,000 #	Body Yield 830 ,000 #	Drift # 6.151		
112000012000012000110001100		***				<b>D</b> 2122221222222222222222222222222222222	-	
3rd segment	0	ft to	0	ft	Make up To	orque ft-lbs	Total ft =	0
O.D.	Wei		Grade	Threads	opt. min.	mx.		
7 inches Collapse Resistance		#/ft al Yield	HCP-110 Joint St		6930 52 Body Yield	00 8660 Drift		
<b>7,800</b> psi	9,950	psi	693		<b>830</b> ,000 #			
		£4 4.5	0	4	1 Maka up T	annua ft llaa	Total # -	0
4th segment O.D.		ft to ght		ft Threads	opt. min.	orque ft-lbs mx.	Total ft =	0
inches		#/ft						
Collapse Resistance	Intern	al Yield	Joint St	trength ,000 #	Body Yield	Drift		
psi		psi		,000 #	,000 4	+		
5th segment	0	ft to	0	ft	Make up Te	orque ft-lbs	Total ft =	0
O.D.	Wei	ght	Grade	Threads	opt. min.	mx.		<u> </u>
inches Collapse Resistance	Intern	#/ft al Yield	Joint St	trength	Body Yield	Drift		
psi		psi		,000 #	,000 7	4		
6th accment		ft to	0	ft	Make up To	orque ft lbe	Total ft =	0
6th segment O.D.	Wei		Grade	Threads	opt. min.	mx.	Total It -	0
inches		#/ft			•			
Collapse Resistance psi	Intern	al Yield psi	Joint St	rength ,000 #	Body Yield			
		•		8 *			-	
Select 1st segme	nt bottom			12905	S.	F. Actual		Desire
10005 # 1		<i>f</i> t	1		collap			1.125
12905 ft to 7 0	0 HCL-80	ft Buttress			burst- burst-		>=	1.25
	Top of seg	ment 1 (ft)		0		F. Actual		Desire
Select 2nd segme	ent from bot	tom			collap	se #DIV/0!	>=	1.125

3.316667

3.316667

jnt strngth 2.474088

burst-b

burst-t

>=

>=

1.25

1.8

0 ft to

7

0 ft 26 HCP-110 Buttress 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: 0	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	372182
	Action Type:
	[C-108] Fluid Injection Well (C-108)
CONDITIONS	

Created By		Condition Date
mgebremichael	None	9/16/2024

CONDITIONS

Page 132 of 132

Action 372182