

# Initial Application Part I

Received 7/29/21

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*

e-Permitting

C-108 Submittal

Attachment Category

C-108 - Main Form

RECEIVED: <b>7/29/21</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2121140697</b>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



### ADMINISTRATIVE APPLICATION CHECKLIST

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

<b>Applicant:</b> <u>Driftwood Oil Company</u>	<b>OGRID Number:</b> <u>213843</u>
<b>Well Name:</b> <u>W.F. Hannagan No.4</u>	<b>API:</b> <u>30-025-09753</u>
<b>Pool:</b> <u>SWD; Yates</u>	<b>Pool Code:</b> <u>96090</u>

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

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

A. Location – Spacing Unit – Simultaneous Dedication

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

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

[ I ] Commingling – Storage – Measurement

☐ DHC    ☐ CTB    ☐ PLC    ☐ PC    ☐ OLS    ☐ OLM

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

☐ WFX    ☐ PMX    ☒ SWD    ☐ IPI    ☐ EOR    ☐ PPR

**SWD-2441**

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

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

#### FOR OCD ONLY

- ☐ Notice Complete

☐ Application Content Complete

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

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

Ben Stone

Print or Type Name

Signature

7/26/2021

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address

July 28, 2021

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attn: Ms. Adriene Sandoval, Director

*Re: Application of Driftwood Oil Company to reinstate and otherwise permit for salt water disposal its W.F. Hannagan SWD Well No.4, located in Section 12, Township 25 South, Range 36 East, NMPM, Lea County, New Mexico.*

Dear Ms. Sandoval,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, W.F. Hannagan SWD #4. The well was previously authorized for salt water disposal by division order R-3089. During the industry slowdown, the well was inadvertently allowed to lose that authority. Driftwood's intent is to reinstate this to service their on-lease operations. It's a low rate and pressure situation and no outside water will be accepted. By reinstating the SWD, the remaining stripper wells can remain economical; it has become cost prohibitive for disposal to be trucked.

Driftwood Oil seeks to optimize efficiency, both economically and operationally, of its operations in south-east New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the June 15, 2021 edition of the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. All required information and attachments are included for a complete Form C-108. The well is located on private land and minerals.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,



Ben Stone, Partner  
SOS Consulting, LLC  
Agent for Driftwood Oil Company

Cc: Application attachment and file

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ***Salt Water Disposal – Application Meets Qualifications for Administrative Approval.***
- II. OPERATOR: ***Driftwood Oil Company***  
ADDRESS: ***P.O. Box 1224, Jal, NM 87252***
- CONTACT PARTY: ***Gregg Fulfer (575) 631-0522***  
***Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850***
- III. WELL DATA: ***All well data and applicable wellbore diagrams are attached hereto.***
- IV. ***This is not an expansion of an existing project.***
- V. ***A map is ATTACHED*** 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. ***A tabulation is ATTACHED*** of data on all wells of public record within the area of review which penetrate the proposed injection zone. ***22 AOR wells penetrate the subject interval; 12 P&A'd***. The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged wells illustrating all plugging detail.
- VII. ***The following data is ATTACHED*** on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. ***Appropriate geologic data on the injection zone is ATTACHED*** 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. ***No stimulation program is proposed at this time. Perfs may be acidized w/ up to 5,000 gals.15% HCl.***
- \*X. ***NO well logs are available for the subject well; an offset well Compensated Neutron log strip is ATTACHED.***
- \*XI. ***State Engineer's records indicate 4 water wells (PODs) within one mile the proposed salt water disposal well; analysis of one well is ATTACHED.***
- XII. ***An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found*** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. ***"Proof of Notice" section on the next page of this form has been completed. There are 4 offset lessees and/or operators within ½ mile - all have been noticed via U.S. Certified Mail.***
- 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: ***Ben Stone*** TITLE: ***SOS Consulting, LLC agent / consultant for Driftwood Oil Company***

SIGNATURE:  DATE: ***7/26/2021***

E-MAIL ADDRESS: ***ben@sosconsulting.us***

- \* 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

III. WELL DATA – *The following information and data is included:*

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 *pursuant to the following criteria is attached. Affidavit is ATTACHED.*

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.

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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.

e-Permitting

C-108 Submittal

Attachment Category

C-102

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-09753		<sup>2</sup> Pool Code 96090		<sup>3</sup> Pool Name SWD; Yates	
<sup>4</sup> Property Code 30077		<sup>5</sup> Property Name W.F. Hannagan			<sup>6</sup> Well Number 4
<sup>7</sup> OGRID No. 213843		<sup>8</sup> Operator Name Driftwood Oil Company			<sup>9</sup> Elevation 3179'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	25S	36E		2173'	FSL	2173'	FWL	Lea

<sup>11</sup> Bottom Hole Location If Different From Surface

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

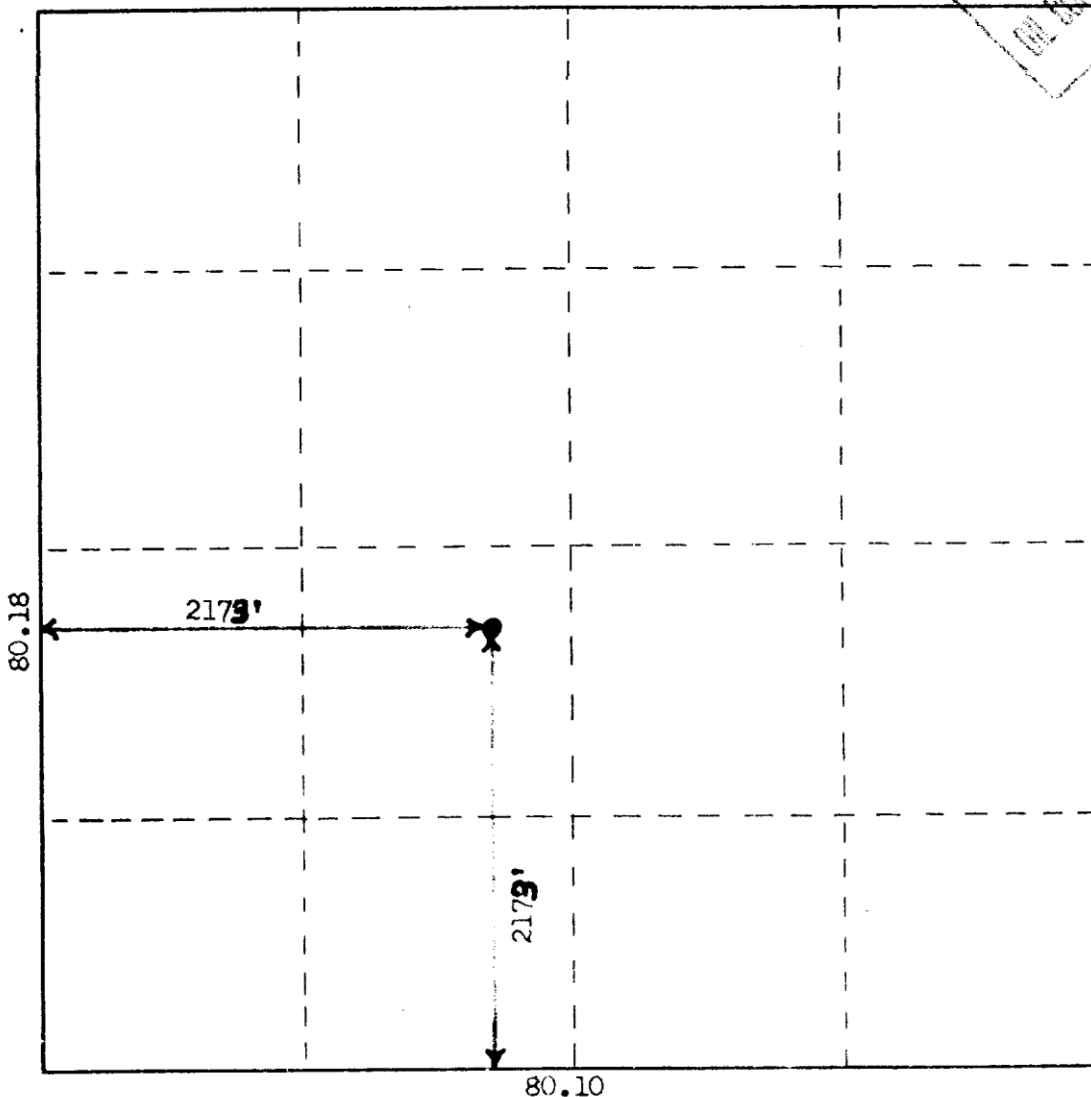
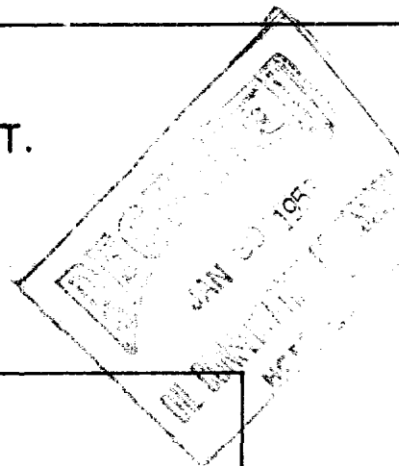
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or In fill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. (Original R-3908, terminated)
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup> 				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature <span style="float: right;">6/23/2021</span> Date Ben Stone Printed Name ben@sosconsulting.us E-mail Address
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> January 1953 Date of Survey Signature and Seal of Professional Surveyor:  Glenn Staley 423 Certificate Number

WELL LOCATION SURVEY PLAT.

COMPANY Sinclair Oil & Gas Company  
LEASE W. F. Hanagan  
WELL NO. 4



SEC. 12 TWP. 25 S. RGE. 36 E. N.M.P.M.

I CERTIFY THAT THIS SURVEY WAS MADE UNDER  
MY DIRECTION, AND THAT THE PLAT IS CORRECT  
TO THE BEST OF MY KNOWLEDGE.

*Glenn Haley*

NEW MEXICO LICENSE NO 423

e-Permitting

C-108 Submittal

Attachment Category

Wellbore Diagram

*(Well is Inactive since UIC terminated)*

**SWD; Yates (96090)**

*Annulus Monitored  
or open to atmosphere*

### Surface Casing

Annulus Loaded  
w/ Inert Packer Fluid

**2.875" IC Tubing (or smaller)**

PKR ~2792'

Note: PRK Set 100' Above Final Uppermost Perf Interval.

Intermediate Casing (orig. Prod Csg.)

7.0", 20# Csg. (8.75" Hole) @2917'  
500 sx - Circ. to Surface

### Production Casing (Liner)

5.5", 9.5# J-55 Csg. (7.875" Hole) @ 777'-3400'  
NR sx - Circ. To Lnr. Top

Drawn by: Ben Stone, 7/20/2021

**SOS Consulting, LLC**

e-Permitting

C-108 Submittal

Attachment Category

Operational Details

## C-108 ITEM VII – PROPOSED OPERATION

The W.F. Hannagan #4 will be operated as a private disposal well to service on-lease operations. Source and disposal zone is the same Yates formation water; Seven Rivers and Queen formation waters.

*Note: This C-108 application is to reinstate the previous authorization by OCD Order R-3908. This well was previously utilized for lease disposal from 1970 to 2009 at which time, the well was converted back to production. Reinstating the well to lease disposal will allow the operator to maintain other low-rated (stripper) wells as active producing wells. The well will not be open for commercial disposal from other operators' leases.*

*Approval of this well for SWD will keep the remaining lease wells active as stripper wells. The cost to dispose of produced water via trucking has become cost prohibitive and if continued, would likely render the lease uneconomical.*

The system will be closed utilizing a small tank battery facility with flowlines from the serviced wells – currently just 3 wells. The tanks and associated equipment will be inside an appropriate lined berm area.

Injection pressure will be 578 psi (0.2 psi/ft) with a maximum rate of 1000 bwpd. Average daily rate is expected to be 300 bwpd or less.

Routine maintenance will be ongoing and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.29 and 30 NMAC. Remediation would commence immediately upon assessment and planning to include all required documentation and reporting.

The facility will not be manned but will be available for inspections at any time deemed necessary by OCD.

e-Permitting

C-108 Submittal

Attachment Category

AOR Analysis

## **C-108 ITEM VI**

AOR Well Information

**Plugged Well Schematics**

# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		O-P	APINUM: 30-025-09735																																											
FORM	DEPTH		OPERATOR: AMERICAN INLAND RESOURCES CO LLC																																											
		LEASENAME: E J WELLS		WELL NO. 1																																										
		SURF LOC:	UL: F	SEC: 12	TWN: 25S	RNG: 36E																																								
		2310 FNL		2310 FWL																																										
		BH LOC:	UL: F	SEC: 12	TWN: 25S	RNG: 36E																																								
		2310 FNL		2310 FWL																																										
		TD	3051	PBD	3051	KB	DF																																							
				GL																																										
		POOL JALMAT; TAN-YATES-7 RVRS (OIL)		PERFS																																										
				Open Hole		2924-3051																																								
		POOL		PERFS																																										
		Open Hole		None																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">CASING RECORD</th> </tr> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF.</td> <td>12.5</td> <td>238</td> <td>200 sxs</td> <td>na</td> <td>0 Cal</td> </tr> <tr> <td>INT1</td> <td>9.625</td> <td>1715</td> <td>700 sxs</td> <td>na</td> <td>0 Cal</td> </tr> <tr> <td>PROD</td> <td>7</td> <td>2365</td> <td></td> <td>na</td> <td></td> </tr> <tr> <td>PROD</td> <td>5.5</td> <td>2365-2924</td> <td>100 sxs</td> <td>na</td> <td>2605 cal</td> </tr> <tr> <td>open hole</td> <td></td> <td>2924-3051</td> <td></td> <td>5</td> <td></td> </tr> </tbody> </table>					CASING RECORD							SIZE	DEPTH	CMT	HOLE SIZE	TOC	SURF.	12.5	238	200 sxs	na	0 Cal	INT1	9.625	1715	700 sxs	na	0 Cal	PROD	7	2365		na		PROD	5.5	2365-2924	100 sxs	na	2605 cal	open hole		2924-3051		5	
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open hole		2924-3051		5																																										
Rustler	1700	9 5/8 @ 1700'																																												
T. Salt		TOC @ 0'																																												
B. Salt	2700	TOC @ 2605 Cal																																												
Yates	2925	5 1/2 @ 2924'																																												
		TOC @ 2605'																																												
7 RVRS +/-	3155																																													
Queen +/-	3365																																													
		TD 3051'																																												
		SPUD: NA																																												
		P&A: 03/03/1939																																												
		RE ENTRY: 05/21/1952																																												
		COMP(2): 07/05/1952																																												
		P&A: 03/21/2003																																												
		PREPARED BY: Eddie Seay	UPDATED 05/06/11																																											

# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		O-P	APINUM: 30-025-09737			
FORM	DEPTH		OPERATOR: AMERICAN INLAND RESOURCES CO LLC			
			LEASENAME: E J WELLS			
			SURF LOC: UL: E SEC: 12		TWN: 25S	WELL NO. 3
			2320 FNL		RNG: 36E	
			BH LOC: UL: E SEC: 12		TWN: 25S	RNG: 36E
			2320 FNL		990 FWL	
			TD 3294	PBD	KB	DF
				GL		
			POOL JALMAT; TAN-YATES-7 RVRS (OIL)			PERFS
						Open Hole 2924-3051
			POOL			PERFS
						Open Hole None

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	13	265	200 sxs	na	0 Cal
INT1	9.625	1558	500 sxs	na	0 Cal
PROD	7	2316	100 sxs	na	2000 est
LINER	5.5	2241-2851	100 sxs	na	

\*\*\* ONE FORM REPORTS 7" SET @ 3294 AND ANOTHER REPORTS 7" SET @ 2316

SPUD: NA

P&A: 03/03/1939

RE ENTRY: 07/27/1952

COMP(2): 10/23/1952

P&A: 03/14/2003



# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		O-P	APINUM: 30-025-09739																																													
FORM	DEPTH		OPERATOR: CONTIENTAL OIL COMPANY																																													
		LEASENAME: E J WELLS				WELL NO. 4																																										
		SURF LOC: UL: C SEC: 12		TWN: 25S		RNG: 36E																																										
		990 FNL		1650 FWL																																												
		BH LOC: UL: C SEC: 12		TWN: 25S		RNG: 36E																																										
		990 FNL		1650 FWL																																												
		TD 3388 ??		PBD	KB	DF																																										
				GL																																												
		POOL JALMAT; TAN-YATES-7 RVRS (OIL)		PERFS		na																																										
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PROD	7	3385	na sxs	na	na																																											
<div style="text-align: right;"> SPUD: NA  P&amp;A: 1943 </div>																																																
<div style="text-align: right;"> PLUG CMNT 3165-3385 </div>																																																
<div style="text-align: right;"> TD 3385 ??? </div>																																																

PREPARED BY: Eddie Seay

UPDATED

05/06/11

# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		O-P	APINUM: 30-025-09742																																	
FORM	DEPTH		OPERATOR: TENISON OIL CO																																	
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">9 5/8" @ 565' TOC @ 0'</div> <div style="margin-bottom: 20px;">Rustler 1700</div> <div style="margin-bottom: 20px;">T. Salt</div> <div style="margin-bottom: 20px;">Tansill 2700</div> <div style="margin-bottom: 20px;">Yates 2900</div> <div style="margin-bottom: 20px;">7 RVRS +/- 3155</div> <div style="margin-bottom: 20px;">Queen +/- 3385</div> </div>			LEASENAME: E J WELLS WELL NO. 1																																	
			SURF LOC: UL: H SEC: 12		TWN: 25S RNG: 36E																															
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			TD 3059	PBD	KB	DF																														
					GL																															
			POOL JALMAT; TAN-YATES-7 RVRS (OIL)		PERFS 2762-2838																															
			POOL		Open Hole 2867-3059																															
					PERFS																															
				Open Hole None																																
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			CIBP @ 1153' circ cmnt up 9 5/8																																	
			CIBP @ 2688 Cap W/ 25 sxs cmnt																																	
			PERFS 2762-2838																																	
			CIBP @ 2850'																																	
			5 1/2 @ 2867' TOC @ 1053																																	
			TD 3059																																	
			SPUD: 02/16/1952 COMP: 04/25/1952 P&A: 08/31/1998																																	
PREPARED BY: Eddie Seay      UPDATED 05/06/11																																				

# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		O-P	APINUM: 30-025-09749																																																																					
FORM	DEPTH		OPERATOR: REPOLLO OIL COMPANY																																																																					
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">15 1/2" @ 68' TOC @ 0'</div> <div style="margin-bottom: 10px;">Rustler 1117</div> <div style="margin-bottom: 10px;">T. Salt 1292</div> <div style="margin-bottom: 10px;">10 3/4" @ 1392 TOC @ 100</div> <div style="margin-bottom: 10px;">Tansill 2778</div> <div style="margin-bottom: 10px;">Yates 2940</div> <div style="margin-bottom: 10px;">7 RVRs 3185</div> <div style="margin-bottom: 10px;">7 @ 3296' TOC @ 2237</div> <div>Queen +/- 3415</div> </div>		<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>PLUG 5 sxs</div> <div>PLUG 100 sxs</div> <div>TOC 100 est</div> <div>PLUG 50 sxs</div> <div>PLUG 125 sxs</div> <div>PLUG 250 sxs</div> <div>CUT &amp; PULL 7" @ 2450'</div> <div>TOC @ 2550 est</div> <div>PLUG 25 sxs TOC @ 3008</div> <div>PERFS 3038-3065</div> <div>PLUG 30 sxs TOC @ 3133</div> <div>PERFS 3125-3251</div> <div>PLUG 30 sxs TOC @ 3254</div> <div>TD 3332</div> </div>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4">LEASENAME: S M GLOYD</td> <td colspan="2">WELL NO. 1</td> </tr> <tr> <td>SURF LOC:</td> <td>UL: 0</td> <td>SEC: 12</td> <td>TWN: 25S</td> <td colspan="2">RNG: 36E</td> </tr> <tr> <td colspan="3">330 FSL</td> <td colspan="3">2310 FEL</td> </tr> <tr> <td>BH LOC:</td> <td>UL: 0</td> <td>SEC: 12</td> <td>TWN: 25S</td> <td colspan="2">RNG: 36E</td> </tr> <tr> <td colspan="3">330 FSL</td> <td colspan="3">2310 FEL</td> </tr> <tr> <td>TD</td> <td>3332</td> <td>PBD</td> <td>KB</td> <td colspan="2">DF</td> </tr> <tr> <td colspan="3"></td> <td>GL</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">POOL JALMAT; TAN-YATES-7 RVRs (OIL)</td> <td colspan="2">PERFS</td> </tr> <tr> <td colspan="4"></td> <td colspan="2">Open Hole None</td> </tr> <tr> <td colspan="4">POOL</td> <td colspan="2">PERFS</td> </tr> <tr> <td colspan="4"></td> <td colspan="2">Open Hole None</td> </tr> </table>				LEASENAME: S M GLOYD				WELL NO. 1		SURF LOC:	UL: 0	SEC: 12	TWN: 25S	RNG: 36E		330 FSL			2310 FEL			BH LOC:	UL: 0	SEC: 12	TWN: 25S	RNG: 36E		330 FSL			2310 FEL			TD	3332	PBD	KB	DF					GL			POOL JALMAT; TAN-YATES-7 RVRs (OIL)				PERFS						Open Hole None		POOL				PERFS						Open Hole None	
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		<div style="text-align: right;">           Spud Date 09/14/1934            Comp Date 10/31/1934         </div>																																																																						

### COMPLETION SCHEMATIC

**O-P**

APINUM: 30-025-09750

OPERATOR: REPOLLO OIL COMPANY

LEASENAME: S M GLOYD

WELL NO.	2
----------	---

SURF LOC:	UL:	J	SEC:	12	TWN:	25S	RNG:	36E
-----------	-----	---	------	----	------	-----	------	-----

	2310 FSL	2310 FEL
--	----------	----------

BH LOC:	UL: J	SEC: 12	TWN: 25S	RNG: 36E
---------	-------	---------	----------	----------

	2310 FSL	2310 FEL
--	----------	----------

TD	3325	PBD	KB	DF
----	------	-----	----	----

GL	
----	--

POOL  
JALMAT;TAN-YATES-7 RVRS (OIL)

PERFS

Open Hole	None
-----------	------

## Rustler

1165

**T. Salt**

1310

10 3/4 @  
1439  
TOC @ 0'

**PLUG 50 sxs**  
**1065-1165**

PLUG 100 sxs  
1460-1402

**CUT & PULL 7" @ 2218'**

**TOC @2237**

**Pump 75 sxs, Pump 50 sxs TAG TOC @ 2227**

**Tansill**

2700

**PLUG 50 sxs 2873-2684**

**Yates**

2848

DV TOOL @ 2860

**Spud Date**      **01/28/1935**

**Comp Date** 03/15/1935

**7" DV Tool @ 2860' Stg1: 300 sxs Stg2: 200 sxs**

## 7 RVRS

3096

## PLUG 20 sxs TOC @ 2990

**PLUG 20 sxs TOC @ 3173****PERFS 3185-3205****PLUG 25 sxs TOC @ 3275**

7 @ 3291'  
TOC @ 2237

**TD 3325**

**Queen +/-**

3440

PREPARED BY: **Eddie Seay**

UPDATED

05/06/11

# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		S-P	APINUM: 30-025-09751				
FORM	DEPTH		OPERATOR: SIDNEY LANIER				
			LEASENAME: W F HANAGAN			WELL NO. 2	
		PLUG 60 sxs	SURF LOC:	UL: K	SEC: 12	TWN: 25S	RNG: 36E
			2310 FSL			2310 FWL	
		PLUG 150 sxs	BH LOC:	UL: K	SEC: 12	TWN: 25S	RNG: 36E
		Pulled @ 150	2310 FSL			2310 FWL	
		TOC 200 est	TD	3347	PBD	KB	DF
						GL	
			POOL JALMAT; TAN-YATES-7 RVRS (OIL)				
			PERFS				
			Open Hole None				
			POOL				
			PERFS				
			Open Hole None				
Rustler	1117	PLUG 50 sxs 1050-1150					
T. Salt	1292						
		10 3/4 @ 1450					
		TOC @ 200					
		PLUG 75 sxs 1342-1500					
		PLUG 40 sxs 2138-2190					
		CUT & PULL 7" @ 2190'					
		PLUG 60 sxs 2190-2240					
		TOC @ 2154					
Tansill	2778	PLUG 40 sxs 2596-2683					
Yates	2940	PLUG 50 sxs TOC @ 2900					
		PERFS 3135-3155					
7 RVRS	3185	PLUG 25 sxs TOC @ 3182					
		PERFS 3200-3230					
		PLUG Back to 3263					
		7 @ 3323'					
		TOC @ 2154					
Queen +/-	3415	TD 3332					

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	15.5	52	100 sxs	19	0 Cir
INT1	10.75	1450	600 sxs	12.625	200 est
PROD	7	3323	375 sxs	9.875	2154 Cal

Spud Date 12/07/1934

Comp Date 01/09/1935

PREPARED BY: Eddie Seay

UPDATED

05/06/11

DISTRIBUTION		
IT AFF		
E		
G.S.		
ND OFFICE		
ERATOR		

## NEW MEXICO OIL CONSERVATION COMMISSION

Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease

State ☐ Fee ☒

5. State Oil &amp; Gas Lease No.

N/A

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)OIL WELL ☐ GAS WELL ☐ OTHER- P & A

Name of Operator

Maralo, Inc. (Atlantic) (Sinclair Repollo)

Address of Operator

P. O. Box 832, Midland, Texas 79702

Location of Well

UNIT LETTER B 330 FEET FROM THE North LINE AND 2310 FEET FROM

THE East LINE, SECTION 13 TOWNSHIP 25-S RANGE 36-E NMPM.

7. Unit Agreement Name

8. Farm or Lease Name

Stephens "A"

9. Well No.

2

10. Field and Pool, or Wildcat

Jalmat

15. Elevation (Show whether DF, RT, GR, etc.)

N.A.

12. County

Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐REMEDIAL WORK ☐ALTERING CASING ☐TEMPORARILY ABANDON ☐COMMENCE DRILLING OPNS. ☐PLUG AND ABANDONMENT ☒PULL OR ALTER CASING ☐CHANGE PLANS ☐CASING TEST AND CEMENT JOBS ☐OTHER ☐

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103.

- 12-20-79 Rigged up DA&S plugging unit. Prep to re-enter & re-plug well as required by NMOCC order approving Jalmat Yates Waterflood Unit.
- 12-21-79 Drld. surface plug from 12' to 90' - cement, paper, clay & wood. Ran tbgs. from 90' to 443' Hit plug. Picked up - secured well and shut down.
- 12-22-79 Drld. to 450'. Pmpd 200 BW w/no returns. Mixed 100 bbls. gelled mud w/lost circ. material (paper & cotton seed hulls). Unable to reverse circ. Partial returns on convential circ. Mixed 3 sx cottonseed hulls @ 450'. Pld. tbgs.
- 12-23-79 15 1/2" csg. set at 472', 10 3/4" cut off 460' below surface. Drld. on wooden plug from 450' to 453' (3') Drld. on plug @ 453' - wood & iron in returns. Pld. out of hole. No indication of running on iron.
- 12-27-79 Ran impression block - no impression. Drld. from 453-454' - fell free. Went inside of 10 3/4 to 2430. Pld. out of hole. No plug @ 1329'.
- 12-28-79 Mix 10 sx. gel. Ran in hole to 460' - circ. out. Floated out 3 - 2" x 6" boards 3' long. Ran to 1300' - circ. out. Ran to 2400'. Tag top 7" - pick up swivel-drlg on wood. Pld. out of hole. Layed down DC. Secured well. Prep to plug.
- 12-29-79 Mixed & pmpd 40 sx cmt. w/2% CaCl<sub>2</sub>. Pld. out of hole. WOC 4 hrs. Tagged top of cement @ 2580'. Sptd 40 sx plug from 2457 to 2360'.
- 12-30-79 Ran in hole w/77 jts. tbgs. Tagged top of cement @ 2360'. Layed down 30 jts. Sptd 50 sx plug @ 1410'. Pld. out of hole. WOC 4 hrs. Ran wireline - tagged top of cement @ 1315'. Sptd 50 sx plug from 1150 to 1050'. CONTINUED ON PAGE ATTACHED....

8. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Brenda CoffmanTITLE Production ClerkDATE 6-15-81APPROVED BY W. H. StettinTITLE OIL & GAS INSPECTORDATE JUN 15 1981

CONDITIONS OF APPROVAL, IF ANY:

12-30-79 Sptd 80 sx plug from 510 to 410'.

01-01-80 Tag. cement plug @ 410'. Top of plug @ 515'.

01-19-80 Loaded hole & pumped 125 sx. Neat cement to plug top 10 3/4" csg. to 460'.

01-20-80 Tagged top of plug @ 330'. Plugged top 13 3/8" csg. w/10 sx. cement.

All pits have been filled and location has been levelled and cleared of junk.

ATLANTIC (SINCLAIR REPOLLO)  
 STEPHENS A. NO. 2  
 330' FNL & 2310' FEL  
 SECTION 13 T-25-S R-36-E  
 (UNIT B)

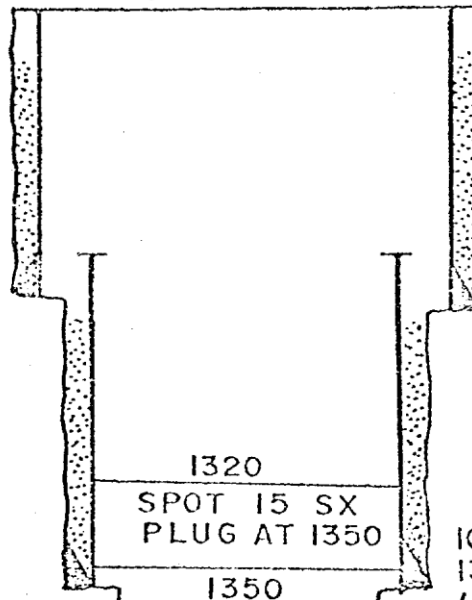
5 SXS AT SURFACE

TOP CEMENT 112' (C)

SHOT OFF 10 3/4" CSG AT 460'

15 1/2" 70# CSG. SET AT 472' CEMENTED W/250 SX. (CALC. TOP CEMENT 112')

*Reason: Plugging Drill*



1320

SPOT 15 SX PLUG AT 1350

1350

10 3/4" 45# CSG SET AT 1360' CEMENTED W/475 SX. (CEMENT CALCULATES TO CIRC.) HOWEVER SHOT OF AT 460'

SHOT OFF 7" CSG AT 2407'

TOP CEM. 2491' (CALC.)

2931

SPOT 65 SX PLUG

3015 - 3290

TOP LINER AT 3212' 7" 26# CSG. SET AT 3270' CEM. W/250 SX.

3320

P.B W/ CEM.

3345

5" LINE AT 3448' (236) CEMENT. W/32 SX.

3355

TD. 3476'

## **C-108 ITEM VI**

### **AOR Well Information**

#### **Very Old P&A Wells with NO data.**

2 wells in the subject one-half mile AOR have little or no data available. OCD records contain the API number, well name and location. There are no well file records except 30-025-09734 has an intent to drill. Both show to have been plugged and were probably done so not long after drilling.

The operations in the area have continued and include injection via waterflood and salt water disposal. Apparently, these plugged holes have not been of concern or posed any issues for operations for decades.

The wells are:

1) 30-025-09734, Pre-Ongard Well, Data: P&A, 3435' TD, Spud date: April 14, 1949. One document states well was dry and abandoned. The only other document is an intent to drill.

2) 30-025-09740, Pre-Ongard Well – NO downhole data except 3518' TD, NO documents.

The available documents for 09734 are included and follow this page.

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Roswell, New Mexico

April 4, 1949

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as \_\_\_\_\_

John H. Kelly

Company or Operator

Jal Fee

Lease

Well No. 1 in \_\_\_\_\_

of Sec. 11, T. 22-S, R. 36-E, N. M., P. M., Cooper-Jal Field, \_\_\_\_\_ County.  
N

The well is 1980 feet (N.) (S) of the \_\_\_\_\_ line and 330 feet

(W.) of the \_\_\_\_\_ line of \_\_\_\_\_ section 11

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_

If patented land the owner is E. C. Winters

Address Jal, New Mexico

If government land the permittee is \_\_\_\_\_

Address \_\_\_\_\_

The lessee is \_\_\_\_\_

Address \_\_\_\_\_

We propose to drill well with drilling equipment as follows: \_\_\_\_\_

Rotary to 3500 ft. cable tools to total depth

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Bond on file

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
12	9 5/8	39	new	1500	Cemented to surface	400
8	7	20	new	3300	Cemented	100

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3350 feet.

Additional information:

APR 14 1949

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

Sincerely yours,

By John H. Kelly  
Position Owner

Send communications regarding well to

Name John H. KellyAddress Box 5071, Roswell, N.M.

OIL CONSERVATION COMMISSION,

By Roy Yarbrough  
Title Oil & Gas Inspector

## OCD Permitting

[Home](#) [Searches](#) [Wells](#) [Well Details](#)

### 30-025-09740 PRE-ONGARD WELL #002 [30041]

#### General Well Information

Operator:	[214263] PRE-ONGARD WELL OPERATOR	Direction:	
Status:	Plugged, Site Released	Multi-Lateral:	No
Well Type:	Oil	Mineral Owner:	
Work Type:	New	Surface Owner:	
Surface Location:	B-12-25S-36E 660 FNL 1980 FEL		
Lat/Long:	32.1502304,-103.2166901 NAD83		
GL Elevation:		Sing/Mult Compl:	
KB Elevation:		Potash Waiver:	False
DF Elevation:			

#### Pre-ONGARD Information

Original Well Name:	WELLS A 12
Original Operator Name:	CONTINENTAL OIL CO

#### Proposed Formation and/or Notes

CONTINENTAL OIL CO /WELLS A 12

#### Depths

Proposed:	0	True Vertical Depth:	3518
Measured Vertical Depth:	0	Plugback Measured:	0

#### Formation Tops

Formation	Top	Producing	Method Obtained
-----------	-----	-----------	-----------------

#### Event Dates

Initial APD Approval:	01/01/1900	Current APD Expiration:	01/01/1902
Most Recent APD Approval:	01/01/1900		
APD Cancellation:			
APD Extension Approval:			
Spud:	01/01/1900	Gas Capture Plan Received:	
Approved Temporary Abandonment:		TA Expiration:	
Shut In:			
Plug and Abandoned Intent Received:		PNR Expiration:	
Well Plugged:	01/01/1900	Last MIT/BHT:	
Site Release:			
Last Inspection:	10/10/2007		

#### History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
----------------	----------	-------------	----------	-----------------	-----------	-------------	---------------	-----------

#### Quick

- [Gene](#)
- [Histor](#)
- [Comm](#)
- [Oper](#)
- [Pits](#)
- [Casin](#)
- [Well C](#)
- [Finan](#)
- [Comp](#)
- [Incide](#)
- [Order](#)
- [Produ](#)
- [Trans](#)
- [Points](#)

#### Asso

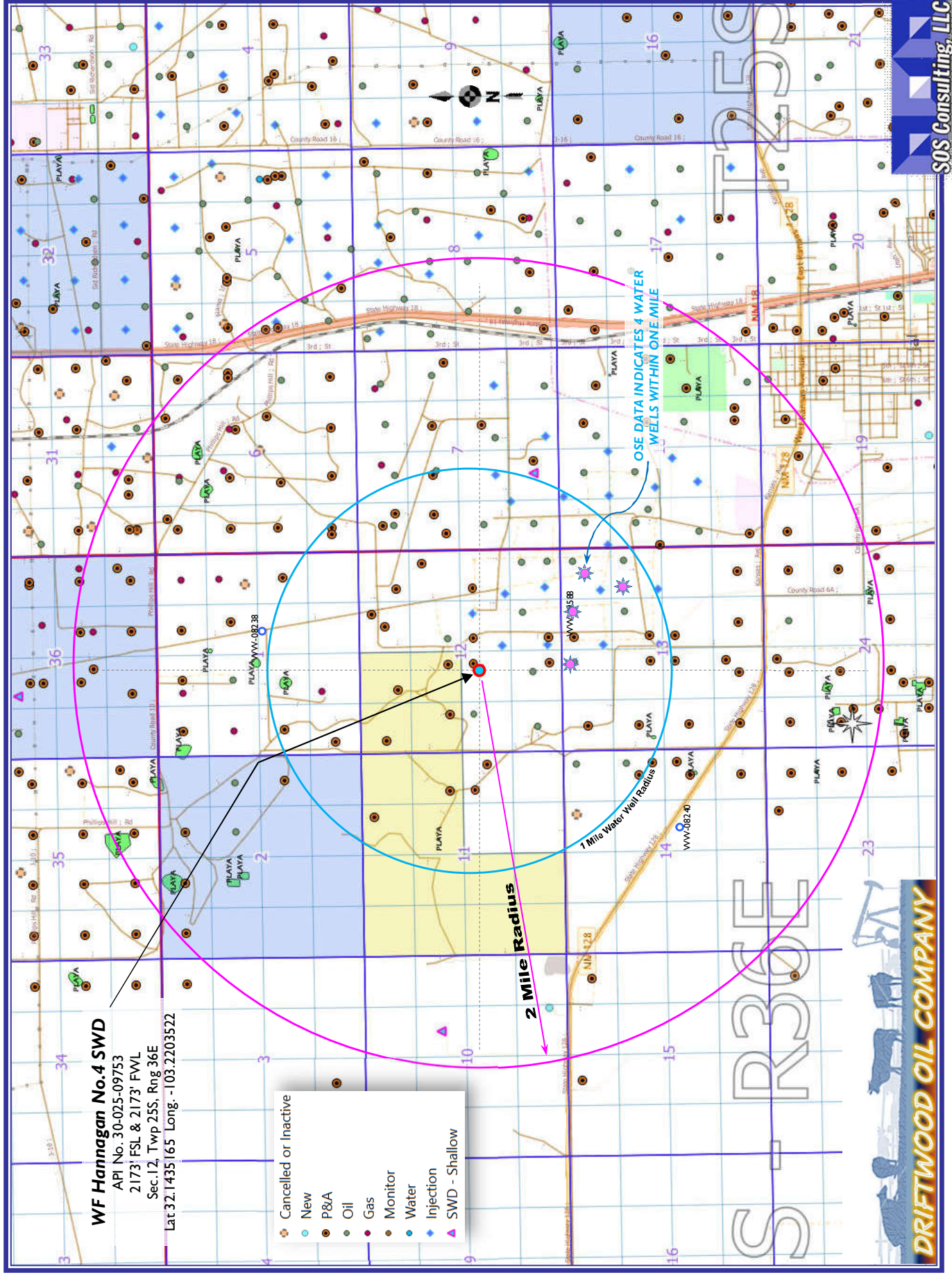
- [Well F](#)
- [Well L](#)
- [Well /](#)

#### New

- [New f](#)
- [New J](#)
- [New C](#)
- [New f](#)
- [New S](#)
- [New T](#)
- [New V](#)

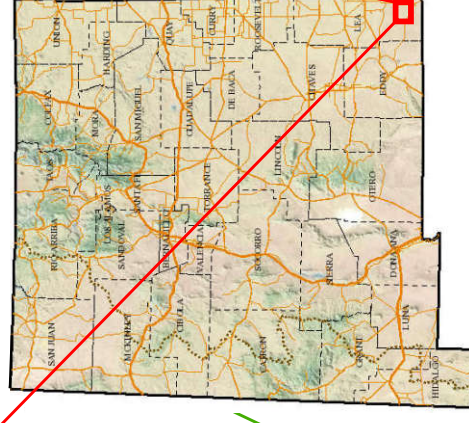
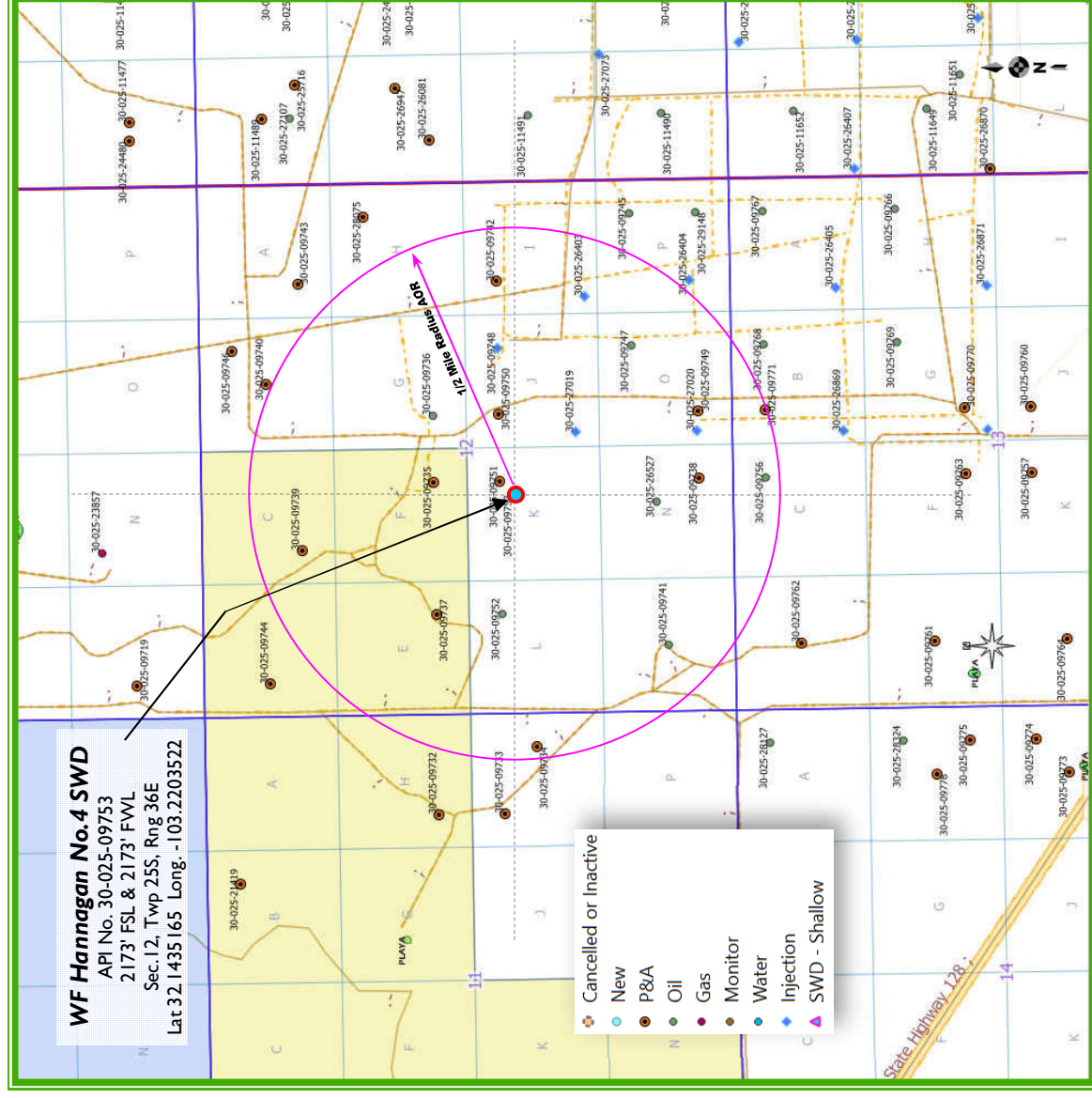
# W.F. Hannagan No.4 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-I08 - Item V)



# W.F. Hannagan No.4 SWD - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)



Lea County, New Mexico



## **C-108 ITEM X**

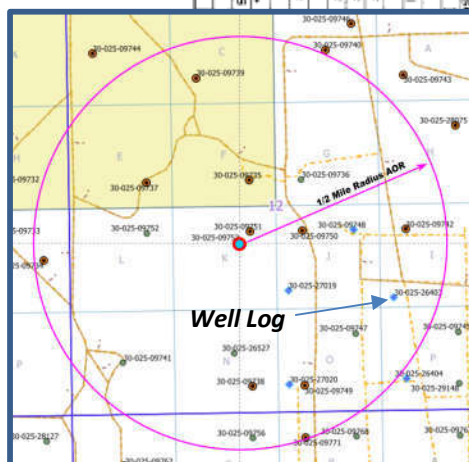
### **LOGS and AVAILABLE TEST DATA**

A log strip from the nearest offset well is attached  
With the corresponding porosity marked.

(Log: 30-025-26403, Jalmat Yates Unit #4)

**LOG STRIP FOLLOWS**

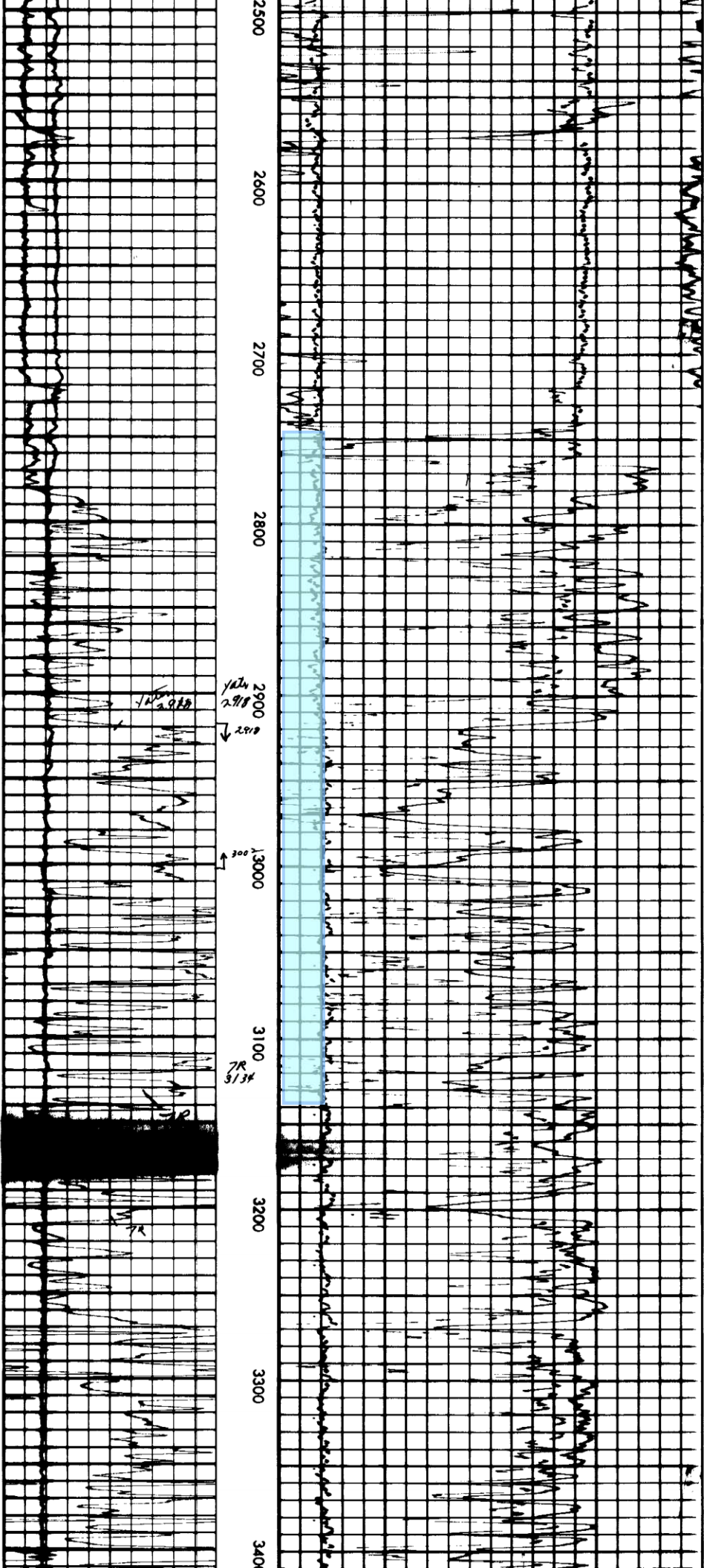
# COMPENSATED DENSITY NEUTRON LOG



NATURAL GAMMA				EQUIPMENT DATA				GAMMA DENSITY			
Run No.	- One -			Run No.	- One -		- One -				
Tool Model No.	102 A			Log Type	Density		Neutron				
Diameter	3-3/8"			Tool Model No.	127		119				
Detector Model No.	102 A			Diameter	4"		3-3/8"				
Type	Scint.			Detector Model No.	127		1-C-8				
Length	4"			Type	GM/Scint		G.M.				
Distance to Source	228"			Length	14"						
				Source Model No.	DCS		5 CU				
				Serial No.	DCS 95		GNI 200				
				Spacing			13.90"				
				Type	Cs 137		AmBe				
				Strength	500 Mc		1.0 x 10 <sup>7</sup>		N/S		
GENERAL				LOGGING DATA							
				GAMMA RAY				GAMMA DENSITY			
GENERAL				GAMMA RAY				GAMMA DENSITY			
Run No.	Depths		Speed Ft/Min	T/C Sec	Sens. Settings	Zero Div. L or R	API GR Units per Log Div	T/C Sec	Sens. Settings	Zero Div. L or R	Units per Log Div
1-	From 0	To 3501'		2	100	0	10	2			.5 GM/cc
Reference Literature											
Service Ticket No. 035933 Remarks											
<p>Worle does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Worle personnel or which may appear on the log or any other form. Any user of such data, interpretation, recommendations or recommendations shall agree that Worle is not responsible for any errors or omissions in the log or any other form, and that the user is responsible for any errors or omissions in the log or any other form.</p>											

2" 100		
<b>GAMMA</b> API Gamma Ray Units		<b>BULK DENSITY</b> Grams/cc (when $Z_A = 0.5$ )
0	100	2.0
100	200	2.5
<b>CALIPER</b> Average Diameter In.		1.5
6"	16"	
		<b>POROSITY (%) <math>P_g =</math></b> LIMESTONE
		NEUTRON CURVE
		<b>CORRECTION (gram/cc)</b>
		-0.2 0.2 0.4

Log Strip  
Nearest  
Well Log



Corresponding  
Porosity

e-Permitting

C-108 Submittal

Attachment Category

Tabulation of Wells in AOR

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed YATES Interval 2892'

ALL 22 Wells Penetrate Proposed Interval.

API	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged On
Subject Well									
30-025-09753	[213843] DRIFTWOOD OIL, LLC	W F HANAGAN	#004	Salt Water Disposal	Private	Active	K-12-25S-36E	3164'	
Section 12 Wells									
30-025-09735	[188294] AMERICAN INLAND RESOURCES COMPANY LLC	E J WELLS	#001	Oil	Federal	P&A-R	F-12-25S-36E	3346'	3/21/2003
30-025-09737	[188294] AMERICAN INLAND RESOURCES COMPANY LLC	E J WELLS	#003	Oil	Federal	P&A-R	E-12-25S-36E	3067'	3/14/2003
30-025-09741	[213843] DRIFTWOOD OIL, LLC	T M CONDITT	#001	Oil	Private	Active	M-12-25S-36E	3372'	
30-025-09752	[213843] DRIFTWOOD OIL, LLC	W F HANAGAN	#003	Oil	Private	Active	L-12-25S-36E	3387'	
30-025-26527	[213843] DRIFTWOOD OIL, LLC	W F HANAGAN	#005	Oil	Private	Active	N-12-25S-36E	3200'	
30-025-09736	[141402] FUJER OIL & CATTLE LLC	E WELLS	#002	Oil	Federal	Active	G-12-25S-36E	3372'	
30-025-09748	[330426] EXTEx OPERATING COMPANY	JALMAT YATES UNIT	#002	Injection	Private	Active	J-12-25S-36E	3064'	
30-025-27019	[330426] EXTEx OPERATING COMPANY	JALMAT YATES UNIT	#003	Injection	Private	Active	J-12-25S-36E	3496'	
30-025-26403	[330426] EXTEx OPERATING COMPANY	JALMAT YATES UNIT	#004	Injection	Private	Active	I-12-25S-36E	3500'	
30-025-09747	[330426] EXTEx OPERATING COMPANY	JALMAT YATES UNIT	#007	Oil	Private	Active	O-12-25S-36E	3079'	
30-025-27020	[330426] EXTEx OPERATING COMPANY	JALMAT YATES UNIT	#008	Injection	Private	Active	O-12-25S-36E	3550'	
30-025-09746	[14007] MARALO LLC	JALMAT YATES UNIT	#001	Oil	Private	P&A-R	I-12-25S-36E	3043'	1/16/2001
30-025-09749	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Private	P&A-R	O-12-25S-36E	3332'	1/1/1900
30-025-09738	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Private	P&A-R	N-12-25S-36E	3322'	1/1/1900
30-025-09740	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Private	P&A-R	B-12-25S-36E	3518'	1/1/1900
30-025-09750	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Private	P&A-R	J-12-25S-36E	3325'	1/1/1900
30-025-09739	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	Federal	P&A-R	C-12-25S-36E	3165'	1/1/1900
30-025-09751	[20812] SIDNEY LANIER	W F HANAGAN	#002	Salt Water Disposal	Private	P&A-R	K-12-25S-36E	3164'	2/1/1980
30-025-09742	[22247] TENISON OIL CO	E J WELLS	#001	Oil	Federal	P&A-R	H-12-25S-36E	3059'	9/1/1998
Section 11 Wells									
30-025-09734	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	Private	P&A-R	I-11-25S-36E	3435'	1/1/1900
Section 13 Wells									
30-025-09771	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	Private	P&A-R	B-13-25S-36E	3330'	1/1/1900
30-025-09756	[329326] FAE II OPERATING, LLC	SHOLES B 13	#004	Oil	Federal	Active	C-13-25S-36E	3357'	

SUMMARY: All wells (22) penetrate proposed disposal interval. 12 P&A.





e-Permitting

C-108 Submittal

Attachment Category

Fluid Analysis

Injectate and Formation

## **C-108 ITEM VII – PRODUCED WATER ANALYSES**

### **Item VII.4 – Water Analysis of Source Zone Water**

Tansil, Yates, Seven Rivers, Queen Analyses

### **Item VII.5 – Water Analysis of Disposal Zone Water**

Same

*Source and Disposal Zones are the same.*

**C-108 Item VII.5 - Produced Water Data**  
**Source Zone - Tansil, Yates, Seven Rivers, Queen**

<b>API No</b> 3002509778		<b>Lab ID</b>	
		<b>Sample ID</b> 5701	
<b>Well Name</b> FEDERAL 001		Sample No	
<b>Location</b> ULSTR 19 25.0 S 36 E		<b>Lat / Long</b> 32.12107 -103.29735	
660 N 660 E		<b>County</b> Lea	
<b>Operator (when sampled)</b>			
Field		Unit A	
Sample Date 6/6/1959		Analysis Date	
Sample Source BAILER		Depth (if known)	
Water Typ			
ph	8.3	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	42900	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	22800	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	366
iron_mgL		sulfate_mgL	3700
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



# **C-108 Item VII.5 - Produced Water Data** **Source Zone - Tansil, Yates, Seven Rivers, Queen**

**TAN-YATES-7 RVRs**

<b>API No</b>	3002509761	<b>Lab ID</b>	
<b>Well Name</b>	SHOLES B 13	<b>Sample ID</b>	4036
	001	<b>Sample No</b>	
<b>Location</b>	ULSTR 13 25.0 S 36 E	<b>Lat / Long</b>	32.13191 -103.22496
	1980 N 660 W	<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field JALMAT	<b>Unit</b>	E
<b>Sample Date</b>		<b>Analysis Date</b>	
	Sample Source UNKNOWN	<b>Depth (if known)</b>	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	9751	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	4320	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	1630
iron_mgL		sulfate_mgL	490
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



# **C-108 Item VII.5 - Produced Water Data** **Source Zone - Tansil, Yates, Seven Rivers, Queen**

**TAN-YATES-7 RVRs**

<b>API No</b>	3002509791	<b>Lab ID</b>	
<b>Well Name</b>	ASCARTA FEDERAL 001	<b>Sample ID</b>	4081
		<b>Sample No</b>	
<b>Location</b>	ULSTR 24 25.0 S 36 E	<b>Lat / Long</b>	32.12204 -103.21966
	330 N 2310 W	<b>County</b>	Lea
<b>Operator (when sampled)</b>			
	Field JALMAT	<b>Unit</b>	C
<b>Sample Date</b>		<b>Analysis Date</b>	
	Sample Source DST	<b>Depth (if known)</b>	
	Water Type		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	35753	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	18400	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	1220
iron_mgL		sulfate_mgL	3100
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
<b>Remarks</b>			

*(Produced water data courtesy of NMT Octane NM WAIDS database.)*



## C-108 – Item VIII

### Geologic Information

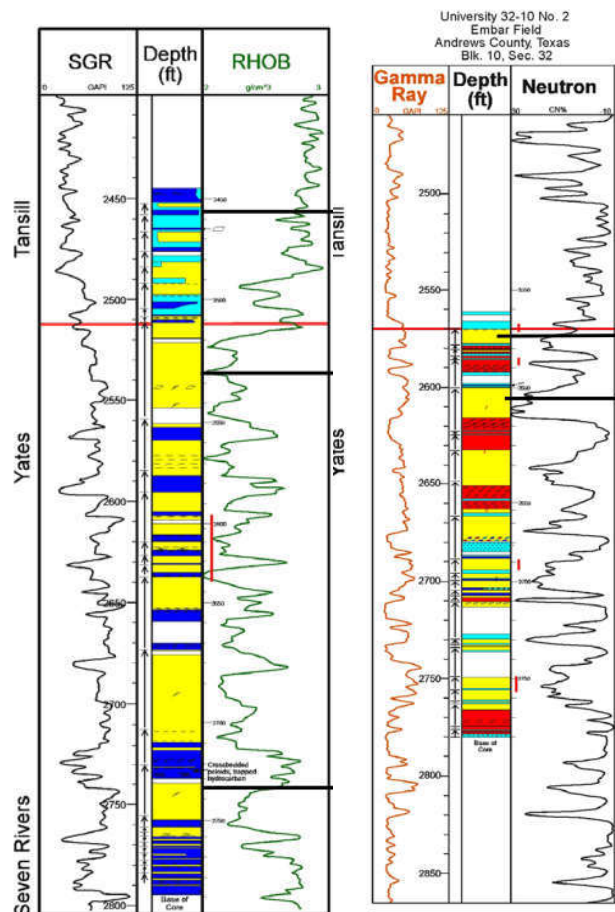
The Yates Formation is an interval of thick sandstone beds located in the Upper Guadalupian-aged Artesia Group of the Permian Basin. The formation overlies the Seven Rivers and is overlain by the Tansill Formations, both consisting of thick carbonate and evaporates. The Yates Formation is a significant hydrocarbon reservoir. Yates is one of two siliciclastic-dominated, Guadalupian-age formations in the Permian Basin shelf. The Yates Formation is very similar to the nearby Queen Formation. Frosted sand grains are a diagnostic feature of Yates facies. Most of the heterogeneity found in the Yates Formation is due to eustatic variation and the resulting alternating depositional sequences. The clastic-dominated middle shelf lithofacies are the most porous (Borer and Harris, 1991) and should be considered for evaluation for carbon dioxide injection. In general, siliciclastic deposition dominated lowstand sea level fluctuation and sand depocenters were controlled by longer duration fluctuation episodes. Carbonates, in contrast, were deposited during highstand sea levels (Borer and Harris, 1991).

The Yates Formation has been redefined since its previous classification which was originally described in a manner that was restricted to anhydritic sandstone. Many stratigraphic equivalents, facies types, and trapping mechanisms of the entire formation have been further delineated.

(From: Texas Bureau of Economic Geology, Yates formation, Permian Basin, General Setting.)

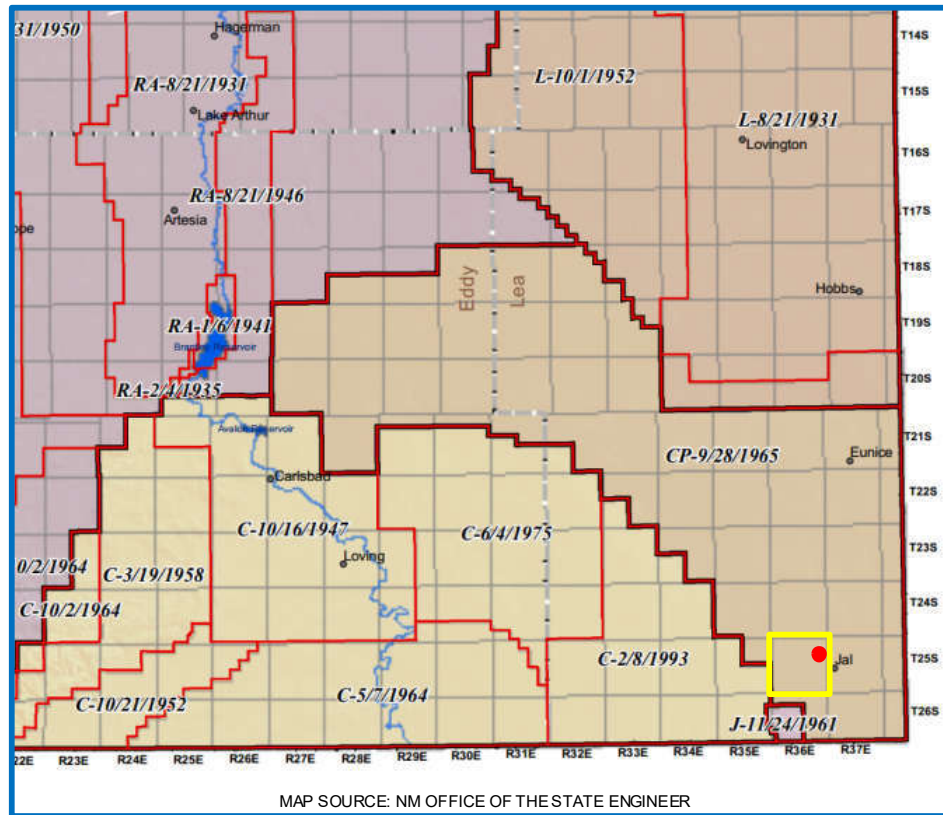
Additionally, it is noted that in the area, the formation is generally about 250 to 300 feet thick with porosity ranging from 14.4 to 19.9 percent. It is underlain by the Seven Rivers and Queen with similar characteristics.

*With waterflooding and disposal having been prevalent, particularly in the past and considering the low pressure and rate proposed for this well, it is not anticipated that there would be any negative impacts to area production. Any cross-formation leakage or communication would likely have a beneficial impact, if any effect at all.*



## C-108 - Item XI

### Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Capitan Basin, one township east of the Carlsbad Basin.

Fresh water in the area is generally available from the Ogallala; High Plains Aquifer. State Engineer's records show water wells in 25S-37E with an average depth to water at 92 feet.

There are 4 PODs/ water wells located within one mile of the proposed SWD. Analysis for one of the wells is included.

# C-108 Item XI

## Water Wells in AOR

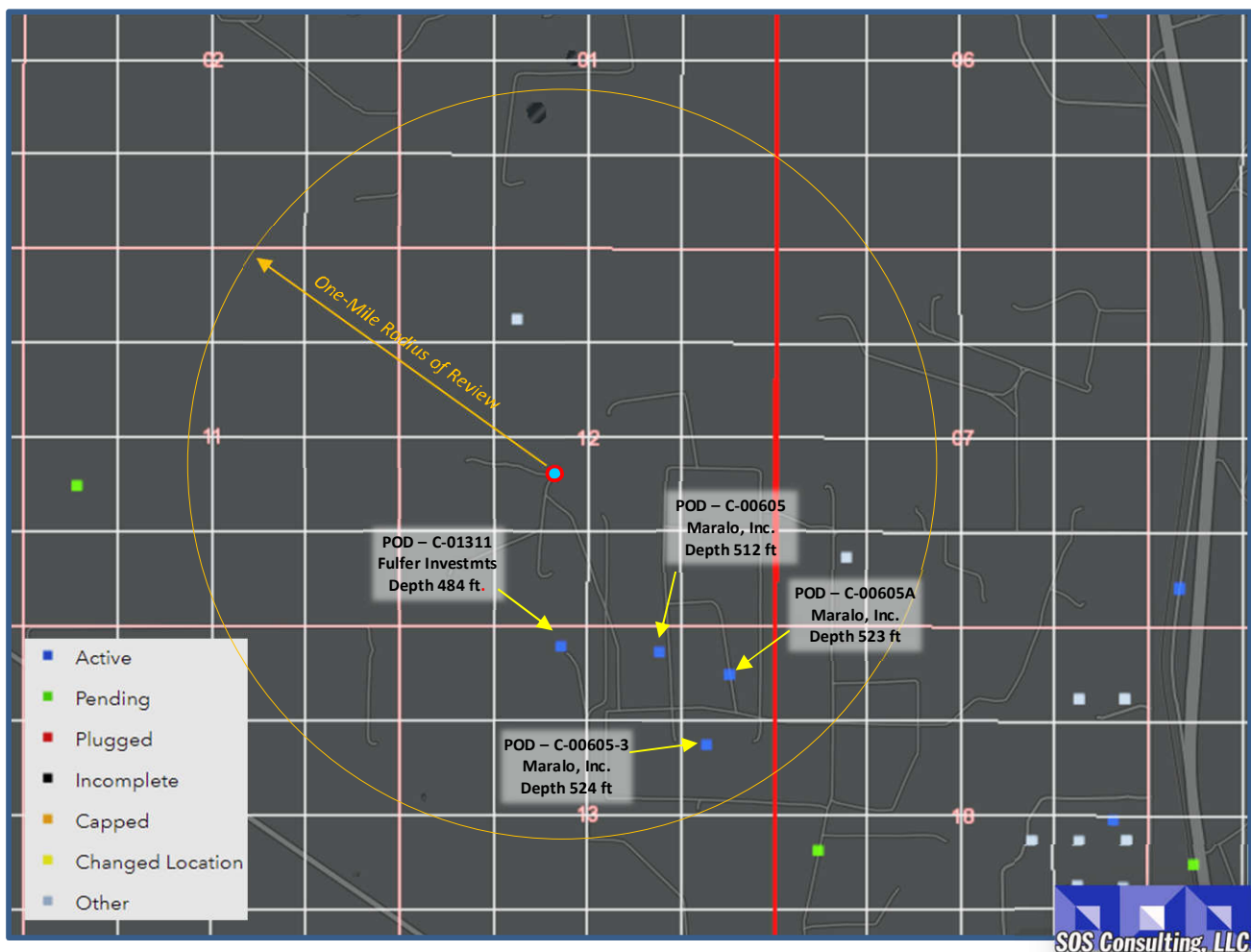
### W.F. Hannagan #4 – SWD Proposal

### Lea County, New Mexico

#### DOMESTIC or STOCK (Non-Public) WATER SUPPLY

New Mexico Office of the State Engineer reports an average depth of water at 300 feet below ground surface. 4 active PODs are shown within a one-mile radius of the well, all Santa Rosa completions.

The Santa Rosa Sandstone-Allurosa aquifer is the source of municipal supply for the cities of Barstow, Pecos, Monahans, and Kermit, Texas. Water quality is variable. For those analyses where the Santa Rosa Sandstone is a distinct entity, chloride concentrations range from 10 to 4,800 mg/L, dissolved solids concentrations range from 205 to 2,990 mg/L, and fluoride concentrations range from 0.4 to 5.0 mg/L. Water from the Cenozoic alluvium is used extensively for public water supplies, irrigation, industry, livestock watering, and rural-domestic supply throughout the Delaware Basin. The quality of water in the Cenozoic alluvium is variable. Chloride concentrations range from 5 to 7,400 mg/L, dissolved solids concentrations range from 188 to 15,000 mg/L, and fluoride concentrations range from 0.3 to 10 mg/L. The Cenozoic alluvium is hydraulically connected to Cretaceous units in parts of Reeves and Pecos Counties, Texas; in these areas, the units are considered as one aquifer, the Pecos aquifer. (USGS WRIR 84-4077, Steven Richey, Jane Wells, Kathleen Stephens, 1985)



PODs (Water Wells) within One Mile of Proposed SWD



CP-01311; Fulfer Investments  
TD 484'; Depth to water 355'

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Eddie Seay Consulting  
Eddie Seay  
601 W. Illinois  
Hobbs NM, 88242  
Fax To: (505) 392-6945

Received: 05/09/2011  
Reported: 05/11/2011  
Project Name: FULFER SWD  
Project Number: FULFER SWD  
Project Location: JAL, NM STATION 12

Sampling Date: 05/09/2011  
Sampling Type: Water  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

Sample ID: FULFER WW #1 (H100933-01)

Potassium 8049	mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium	1.84	1.00	05/10/2011	ND	7.66	95.8	8.00	5.31	
Sodium Calculated	mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sodium	24.0	1.00	05/10/2011	ND				0.154	
Sulfate 375.6	mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	73.3	10.0	05/10/2011	ND	40.1	100	40.0	4.89	
TDS 160.1	mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	334	5.00	05/09/2011	ND				3.33	
Total Alkalinity 310.1M	mg/L	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Total	160	4.00	05/10/2011	ND	790	96.3	820	28.6	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: (LTD) ... Cardinal Laboratories is not responsible for the results of any analysis performed by any other laboratory. The results of any analysis performed by any other laboratory are the responsibility of that laboratory. The results of any analysis performed by any other laboratory are the responsibility of that laboratory. The results of any analysis performed by any other laboratory are the responsibility of that laboratory.

*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



# New Mexico Office of the State Engineer

## Water Right Summary




**WR File Number:** CP 01311      **Subbasin:** CP      **Cross Reference:** -  
**Primary Purpose:** COM    COMMERCIAL  
**Primary Status:** PMT    PERMIT  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 100      **Cause/Case:** -  
**Agent:** ATKINS ENGR ASSOC INC  
**Contact:** RICHARD CIBAK  
**Owner:** FULFER INVESTMENTS LLC  
**Contact:** GREGG FULFER

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
	<a href="#">604583</a>	<a href="#">APPRO</a>	<a href="#">2016-01-21</a>	PMT	LOG CP 01311	T	0	100	100

### Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q Q				(NAD83 UTM in meters)		Other Location Desc
			64	16	4	Sec Tws Rng	X	Y	
<a href="#">CP 01311 POD1</a>		Artesian	2	2	1	13 25S 36E	667880	3556993	

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Source
03/27/2014	PMT	0	100	<a href="#">CP 01311 POD1</a>	Artesian

### Place of Use

Q Q Q Q				Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	16	4							
				0	100	100	COM	03/27/2014	PMT	NO PLACE OF USE GIVEN

### Source

Acres	Diversion	CU	Use	Priority	Source Description
0	100	100	COM	03/27/2014	GW



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">CP 00174</a>	O	CP	LE	1	1	1	15	25S	36E	664076	3556912*	147		
<a href="#">CP 00174 POD1</a>		CP	LE	1	1	1	15	25S	36E	664049	3556850	147		
<a href="#">CP 00283 POD1</a>		CP	LE	3	2	1	12	25S	36E	667674	3558379*	80		
<a href="#">CP 00605 POD1</a>		CP	LE		2	2	13	25S	36E	668605	3556883*	523		
<a href="#">CP 00605 POD2</a>		CP	LE		2	2	13	25S	36E	668605	3556883*	525		
<a href="#">CP 00605 POD3</a>		CP	LE	1	4	2	13	25S	36E	668510	3556580*	524	350	174
<a href="#">CP 00605 POD4</a>		CP	LE	2	1	2	13	25S	36E	668301	3556976*	512	390	122
<a href="#">CP 00858 POD1</a>		CP	LE		1	4	29	25S	36E	661828	3552752			
<a href="#">CP 00858 POD2</a>		CP	LE	1	1	4	29	25S	36E	661690	3552765	600	282	318
<a href="#">CP 00938 POD1</a>		CP	LE	4	4	4	33	25S	36E	663938	3550580	360	80	280
<a href="#">CP 01170 POD5</a>		CP	LE	2	2	2	19	25S	36E	660687	3555164	505	270	235
<a href="#">CP 01310 POD1</a>		CP	LE	4	4	3	25	25S	36E	668570	3552439	420	340	80
<a href="#">CP 01311 POD1</a>		CP	LE	2	2	1	13	25S	36E	667880	3556993	484	355	129
<a href="#">CP 01752 POD1</a>		CP	LE	1	1	1	15	25S	36E	664094	3556820	650	278	372

Average Depth to Water: **293 feet**

Minimum Depth: **80 feet**

Maximum Depth: **390 feet**

**Record Count:** 14

**PLSS Search:**

**Township:** 25S

**Range:** 36E

\*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.

## C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



---

Ben Stone, Partner  
SOS Consulting, LLC

Project: Driftwood Oil Company  
W.F. Hannagan #4  
Reviewed 6/18/2021

e-Permitting  
C-108 Submittal

Attachment Category

Seismicity Analysis

For High Volume Devonian Wells

NOT REQUIRED FOR PROPOSED SWD  
SHALLOW YATES FORMATION  
LOW RATE AND PRESSURE

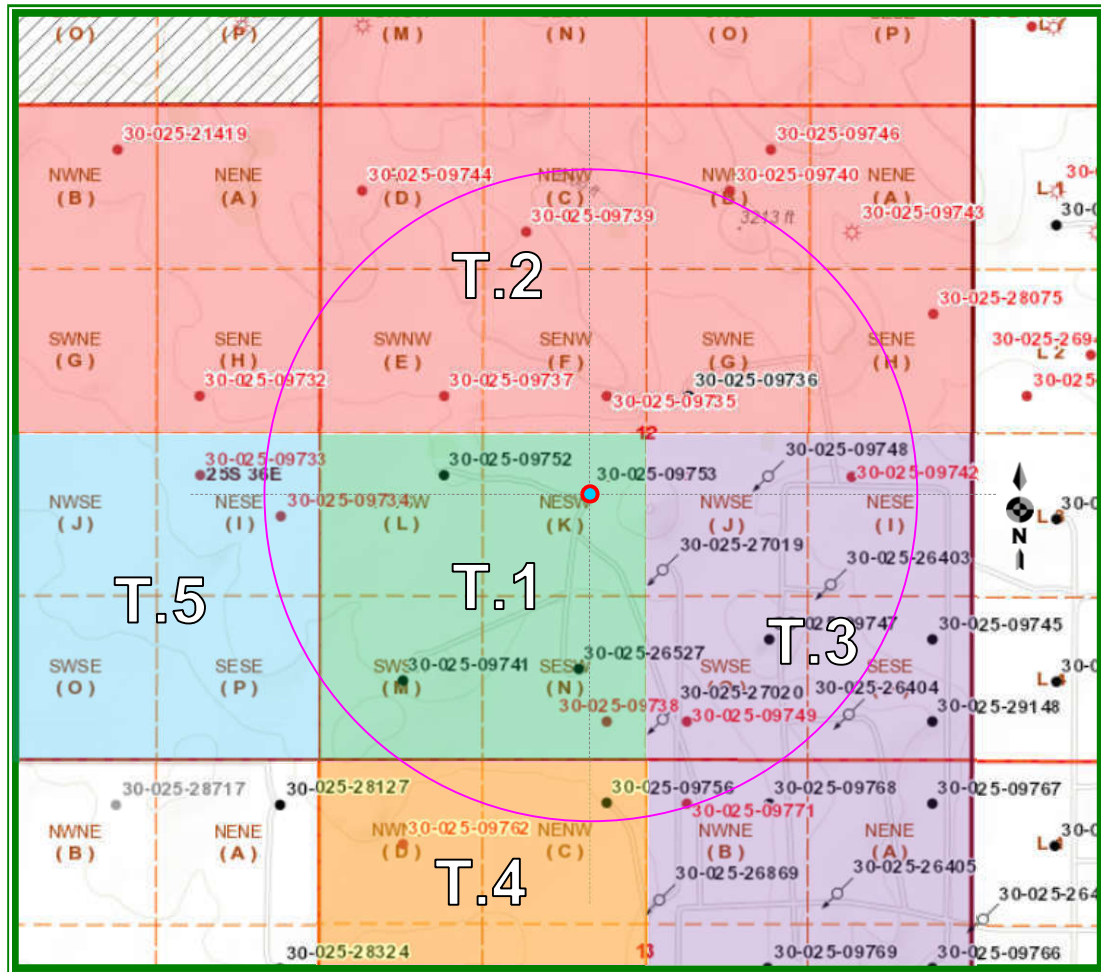
e-Permitting

C-108 Submittal

Attachment Category

Proof of Notice

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



## LEGEND

- T.1 – Fee – Driftwood Oil Company (Op)
- T.2 – BLM – NMLC-032582A / Fulfer Oil & Cattle, LLC. (Op)
- T.3 – Fee - Extex Operating Company (Op)
- T.4 – BLM - NMLC-0032581B / FAE II Operating, LLC. (Op)
- T.5 – Fee – Mountain Lion Oil & Gas, LLC

# **C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST**

**SOS Consulting is providing hard copy delivery of C-108 applications.  
ALL APPLICABLE AFFECTED PARTIES ARE NOTICED BY LETTER VIA USPS CERTIFIED MAIL.  
A FULL COPY OF THE SUBJECT C-108 APPLICATION WILL BE SENT VIA FedEx.**

*"AFFECTED PERSON" MEANS THE DIVISION DESIGNATED OPERATOR; IN THE ABSENCE OF AN OPERATOR, A LESSEE WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILES THE APPLICATION; OR IN THE ABSENCE OF AN OPERATOR OR LESSEE, A MINERAL INTEREST OWNER WHOSE INTEREST IS EVIDENCED BY A WRITTEN CONVEYANCE DOCUMENT EITHER OF RECORD OR KNOWN TO THE APPLICANT AS OF THE DATE THE APPLICANT FILED THE APPLICATION FOR PERMIT TO INJECT.; PER OCD RULES NMAC 19.15.26.7, A. AND 19.15.26.8, B.2.*

## **SURFACE OWNER**

- 1 FULFER LAND & CATTLE, LLC.  
P.O. Box 1224  
Jal, NM 87252  
Certified: 7018 2290 0001 2038 7213

## **OFFSET MINERALS INTERESTS – OPERATORS or LESSEES (Notified via USPS Certified Mail)**

### **Private Lease (T.1 Affected Parties Plat)**

#### ***Operator***

DRIFTWOOD OIL, LLC (Applicant)  
1008 West Broadway  
Hobbs, NM 88240

### **BLM Lease NMLC-003258A (T.2 on Affected Parties Plat)**

#### ***Operator***

FULFER OIL & CATTLE  
P.O. Box 1224  
Jal, NM 87252

### **Private Lease (T.3 on Affected Parties Plat)**

#### ***Operator***

- 2 EXTEX OPERATING COMPANY, LLC  
5065 Westheimer Road, Ste. 625  
Houston, TX 77056  
Certified: 7018 2290 0001 2038 7206

### **BLM Lease NMLC-0032581B (T.4 on Affected Parties Plat)**

#### ***Lessee***

- 3 FAE II OPERATING, LLC  
11757 Katy Freeway, Ste. 1000  
Houston, TX 77079  
Certified: 7018 2290 0001 2038 7190

### **Private Lease (T.5 on Affected Parties Plat)**

#### ***Lessee (no active wells on lease)***

- 4 MOUNTAIN LION OIL & GAS, LLC  
941 Katy Freeway, Ste. 117  
Houston, TX 77024  
Certified: 7018 2290 0001 2038 7183

**C-108 ITEM XIII – PROOF OF NOTIFICATION**  
**AFFECTED PARTIES LIST (cont.)**

**REGULATORY**

NEW MEXICO OIL CONSERVATION DIVISION (Filed thru OCD Online e-Permitting)  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (OCD Online e-Permitting)  
1625 N. French Dr.  
Hobbs, NM 88240

- 5 BUREAU OF LAND MANAGEMENT  
CFO – Oil and Gas Division  
620 E. Greene Street  
Carlsbad, NM 88220-6296  
Certified: 7018 2290 0001 2038 7176

July 1, 2021

**NOTIFICATION TO INTERESTED PARTIES**  
**via U.S. Certified Mail – Return Receipt Requested**

To Whom It May Concern:

Driftwood Oil Company, Hobbs, New Mexico, has made application to the New Mexico Oil Conservation Division to reinstate for salt water disposal its W.F. Hannagan Well No.4. The previously authorized SWD operation will be for private water disposal from on-lease operations. As indicated in the notice below, the well is located in Section 12, Township 25 South, Range 36 East in Lea County, New Mexico.

The published notice states that the interval will be from 2,892 feet to 3,164 feet into the Yates formation.

Following is the notice published in the Hobbs Daily News-Sun, Hobbs, New Mexico on or about June 15, 2021.

**LEGAL NOTICE**

Driftwood Oil Company, P.O. Box 1224, Jal, NM 88252, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in its W.F. Hannagan Well #4. The well, API No.30-025-09753 is located 2173' FSL & 2173' FWL in Section 12, Township 25 South, Range 36 East in Lea County, New Mexico. Produced water from Driftwood leases production will be PRIVATELY disposed into the YATES formation through selected perforated intervals from 2892 feet to maximum depth of 3164 feet. Maximum injection pressure will be 578 psi with a maximum rate of 1000 bwpd. Average daily rate is expected to be 300 bwpd.

*Note: This well was previously utilized for lease disposal from 1970 to 2009 at which time, the well was converted back to production. Reinstating the well to lease disposal will allow the operator to maintain other low-rated (stripper) wells as active producing wells. The well will not be open for commercial disposal from other operators' leases.*

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505) 476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903) 488-9850 or, email [info@sosconsulting.us](mailto:info@sosconsulting.us).

***You have been identified as a party who may be interested as an offset lessee or operator.***

You are entitled to a full copy of the application. A full printed copy will be send via FedEx, when the C-108 is completed in a few days. PLEASE WATCH FOR THIS TO ARRIVE.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC  
Agent Driftwood Oil Company

Cc: Application File

# C-108 – Item XIV

## Proof of Notice - Certified Mail Receipts

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FAE II OPERATING, LLC  
11757 Katy Freeway, Ste. 1000  
Houston, TX 77079

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MOUNTAIN LION OIL & GAS, LLC  
941 Katy Freeway, Ste. 117  
Houston, TX 77024

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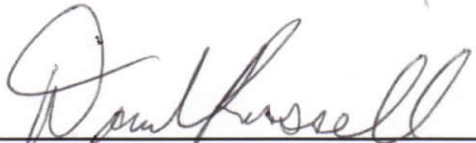
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620 E. Greene Street  
Carlsbad, NM 88220-6296

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

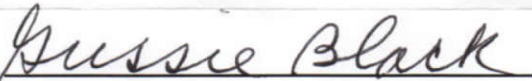
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
June 15, 2021  
and ending with the issue dated  
June 15, 2021.



Publisher

Sworn and subscribed to before me this  
15th day of June 2021.



Business Manager

My commission expires  
January 29, 2023

(Seal)



**OFFICIAL SEAL**  
**GUSSIE BLACK**  
Notary Public  
State of New Mexico  
My Commission Expires 1-29-23

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL

LEGAL

## LEGAL NOTICE June 15, 2021

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#36566

67104420

00255237

BEN STONE  
SOS CONSULTING, LLC.  
P.O. BOX 300  
COMO, TX 75431