

# Initial Application Part I

Received: 06/15/2022

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

0YU8Q-220615-C-1080

RECEIVED: 06/15/2022	REVIEWER:	TYPE: SWD	APP NO: pJZT2218639777
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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

**Applicant:** Spur Energy Partners, LLC **OGRID Number:** 328947  
**Well Name:** Delta Wing Federal SWD No.1 **API:** 30-015-26309  
**Pool:** SWD; Upper Penn **Pool Code:** 96134

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A] SWD-2491  
 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

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

- 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

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

6/15/2022  
 Date

903-488-9850  
 Phone Number

ben@sosconsulting.us  
 e-mail Address

June 15, 2022

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

Attn: Ms. Adriene Sandoval, Director

*Re: Application of Spur Energy Partners, LLC to reinstate and otherwise permit for salt water disposal its Delta Wing Federal Well No.1 SWD, located in Section 15, Township 17 South, Range 29 East, NMPM, Eddy 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 the Delta Wing Federal No.1. The well was previously authorized by another operator for salt water disposal by division order SWD-643. The subject well is one of hundreds acquired in the last few years and the previous operator had let this well go inactive. By reinstating the SWD, the applicant's area production and leases will remain economic. The well will only take Spur's water from area operations.

Spur Energy Partners, LLC seeks to optimize efficiency, both economically and operationally, of all its operations in southeast 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 May 12, 2022, edition of the Artesia Daily Press and offset operators and other affected parties have been notified individually. All required information and attachments are included for a complete Form C-108. The well is located on state 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 Spur Energy Partners, LLC

Cc: Application attachment and file

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ***SWD Reinstatement*** and the application ***qualifies*** for administrative approval.
- II. OPERATOR: ***Spur Energy Partners, LLC (Ogrid – 328947)***  
ADDRESS: ***9655 Katy Freeway, Ste.500, Houston, Texas 77024***
- CONTACT PARTY: ***Sarah Chapman, Spur Regulatory Director (832) 930-8502***  
***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. ***(3 AOR wells penetrate the subject interval; 1 P&A.)*** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well 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. ***The well may be acidized to clean perforations and formation w/ approximately 2500 gals 15% HCl.***
- \*X. ***A log strip of the subject well is annotated and is ATTACHED.***
- \*XI. ***State Engineer's records indicate there are 2 water wells within one mile the proposed SWD. 1 analysis 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 and ATTACHED.***  
***There is 1 offset operators; unitized federal minerals operated by applicant – BLM and SLO have been noticed.***
- 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 Spur Energy Partners, LLC***

SIGNATURE:  DATE: ***6/15/2022***

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:

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

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.*

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.

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 30-015-26309	<sup>2</sup> Pool Code 96134	<sup>3</sup> Pool Name SWD; Upper Penn
<sup>4</sup> Property Code TBD	<sup>5</sup> Property Name Delta Wing Federal SWD	
<sup>7</sup> OGRID No. 328947	<sup>8</sup> Operator Name Spur Energy Partners, LLC	<sup>6</sup> Well Number 1
<sup>9</sup> Elevation 3590.8'		

<sup>10</sup> Surface Location

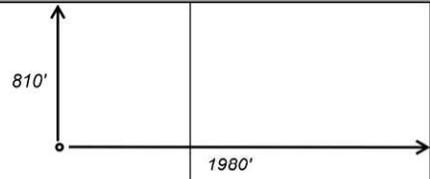
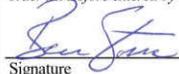
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	15	17S	29E		810'	FNL	1980'	FEL	Eddy

<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 n/a	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. SWD-643 (original)
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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>  	<b><sup>17</sup> 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	6/01/2022 Date
	Ben Stone Printed Name  ben@sosconsulting.us E-mail Address	
<b><sup>18</sup> 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 12, 1990 Date of Survey		
Signature and Seal of Professional Surveyor:		
John West 676 Certificate Number		

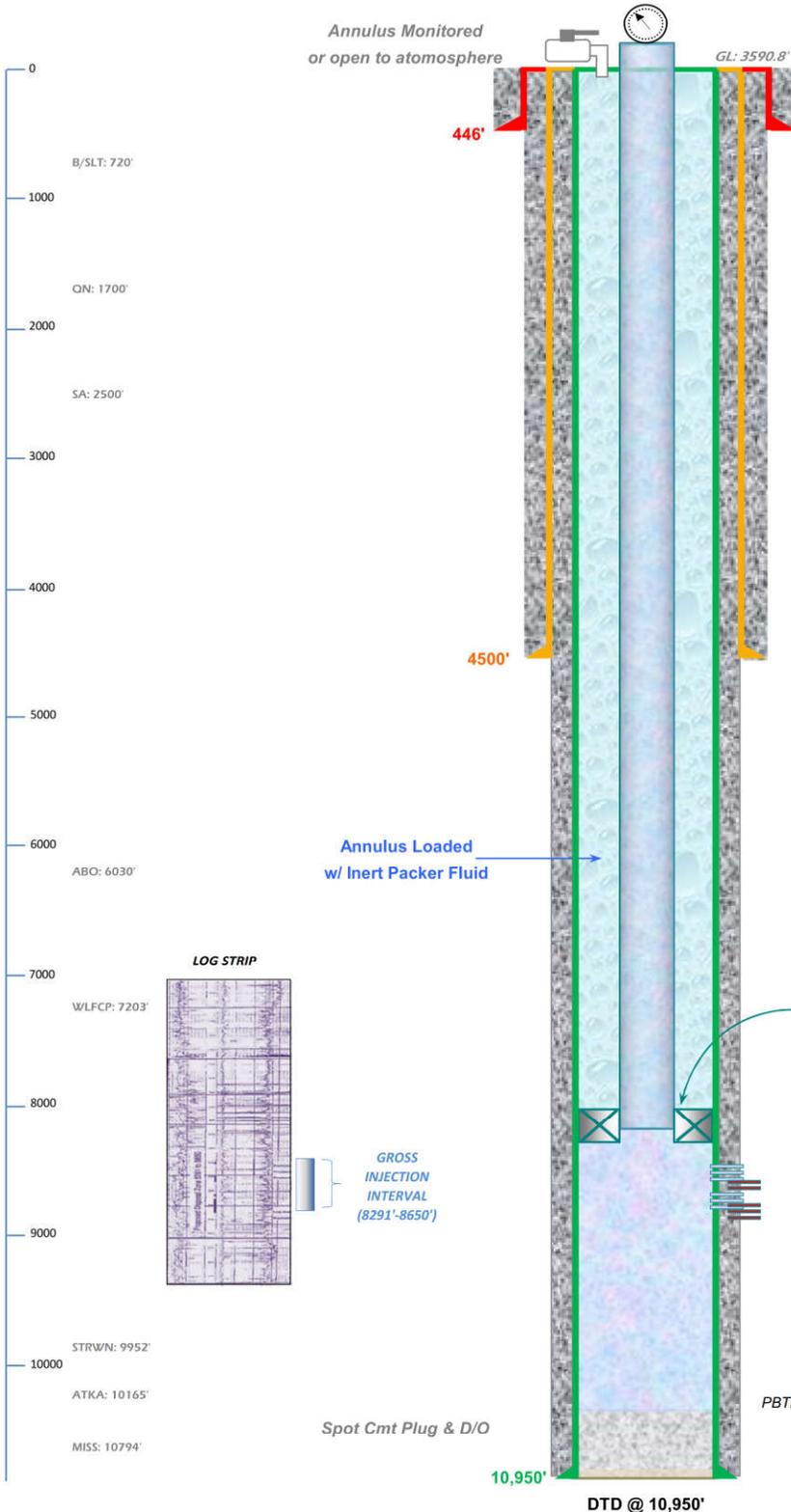


**WELL SCHEMATIC - PROPOSED**  
**Delta Wing Federal Well No.1 SWD**

**API 30-015-26309**  
 810' FNL & 1980' FEL, SEC. 15-T17S-R29E  
 EDDY COUNTY, NEW MEXICO

**SWD; Upper Penn (96134)**

Spud Date: 4/30/1990  
 Config SWD Dt: Converted 1996  
 Reinstate: **ASAP 7/15/2022**



*Injection Pressure Regulated  
 and Volumes Reported  
 1658 psi Max. Surface (0.2 psi/ft)*

**Surface Casing**

13.375", 54.5# K-55 STC Csg. (17.5" Hole) @ 446'  
 425 sx - Circulated 30 sx to Surface

**Intermediate Casing**

8.625", 32.0# K-55 Csg. (11.0" Hole) @ 4500'  
 2300 sx - TOC @ 45' by Temp.



**Reinstate SWD Status:**  
 Acidize w/ up to ~2500 gals 15% HCl  
 Run PC Tubing and PKR - Conduct Witnessed MIT.  
 Commence Disposal Operations.

**3.5" IC Tubing (or smaller)**  
**PKR ~8191'**  
 Note: PKR Set 100' Above Final Uppermost Perf Interval.

**Upper Penn Perfs - 8291'-8650'**  
 Wolfcamp test perfs: 8390'-8802' (Sqz'd)

**Production Casing**

5.5", 17.0# N-80/K-55 Csg. (7.875" Hole) @ 10,950';  
 950 sx 'C' - TOC 6400' by Temp.

Spot Cmt Plug & D/O

PBTD @ 10,950'

DTD @ 10,950'

Drawn by: Ben Stone, 6/02/2022



# Form C-108 Item VI - Tabulation of AOR Wells

## Top of Proposed CISCO Interval 8291'

## 3 Wells Penetrate Proposed Interval.

API	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged On
30-015-26309	[328947] Spur Energy Partners LLC	DELTA WING FEDERAL	#001	SWD	Federal	Active	B-15-17S-29E	10950'	

### Section 15 Wells

30-015-02993	[14049] MARBOB ENERGY CORP	M DODD B	#011	Oil	Federal	P&A-R	A-15-17S-29E	2475'	1/10/2002
30-015-25341	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#022	Inj.	Federal	P&A-R	A-15-17S-29E	4580'	4/21/2022
30-015-35854	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#119	Oil	Federal	Active	A-15-17S-29E	4467'	
30-015-39664	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#597	Oil	Federal	Active	A-15-17S-29E	4573'	
30-015-44128	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#917H	Oil	Federal	Active	A-15-17S-29E	4780'	
30-015-02994	[14049] MARBOB ENERGY CORP	DODD FEDERAL UNIT	#021	Inj.	Federal	P&A-R	B-15-17S-29E	2490'	5/12/2005
30-015-26309	[328947] Spur Energy Partners LLC	DELTA WING FEDERAL	#001	SWD	Federal	Active	B-15-17S-29E	10950'	
30-015-40600	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#592	Oil	Federal	Active	B-15-17S-29E	4490'	
30-015-40001	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#594	Oil	Federal	Active	B-15-17S-29E	4558'	
30-015-39279	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#595	Oil	Federal	Active	B-15-17S-29E	4470'	
30-015-02982	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	State	P&A-R	C-15-17S-29E	2690'	1/1/1900
30-015-39095	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#004	Oil	State	Active	C-15-17S-29E	5612'	
30-015-38369	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#007	Oil	State	Active	C-15-17S-29E	5510'	
30-015-39096	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#008	Oil	State	Active	C-15-17S-29E	5630'	
30-015-39101	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#018	Oil	State	Active	C-15-17S-29E	5545'	
30-015-02983	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	D-15-17S-29E	2618'	1/1/1900
30-015-39094	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#002	Oil	State	Active	D-15-17S-29E	5640'	
30-015-39135	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#006	Oil	State	Active	D-15-17S-29E	5635'	
30-015-31557	[328947] Spur Energy Partners LLC	DURANGO 15 STATE COM	#001	SWD	State	Active	D-15-17S-29E	10900'	
SWD; CISCO; perfs 8770'-8900'; 5.5" csg set 10,900' w/ 1685 sx, Circ. 20 bbis; 9.625" csg set 2684' w/ 1050 sx, Circ. 100 sx.									
30-015-39113	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#010	Oil	State	Active	E-15-17S-29E	5634'	
30-015-20161	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	State	P&A-R	F-15-17S-29E	2700'	1/1/1900
30-015-39114	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#011	Oil	State	Active	F-15-17S-29E	5630'	
30-015-39115	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#012	Oil	State	Active	F-15-17S-29E	5620'	
30-015-38370	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#015	Oil	State	Active	F-15-17S-29E	5523'	
30-015-39116	[328947] Spur Energy Partners LLC	CONTINENTAL STATE	#016	Oil	State	Active	F-15-17S-29E	5610'	
30-015-41026	[229137] COG OPERATING LLC	DODD FEDERAL UNIT	#604	Oil	Federal	New	G-15-17S-29E	0'	Not Drilled
30-015-20079	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#038	Oil	Federal	Active	G-15-17S-29E	2700'	
30-015-39665	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#605	Oil	Federal	Active	G-15-17S-29E	4584'	
30-015-39280	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#606	Oil	Federal	Active	G-15-17S-29E	4480'	
30-015-39281	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#607	Oil	Federal	Active	G-15-17S-29E	4481'	

## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

30-015-43329	[229137] COG OPERATING LLC	DODD FEDERAL UNIT	#610	Oil	Federal	New	H-15-17S-29E	0'	Not Drilled
30-015-02992	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#009	Oil	Federal	P&A-R	H-15-17S-29E	2999'	1/1/1900
30-015-35457	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#117	Oil	Federal	Active	H-15-17S-29E	4480'	
30-015-40892	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#609	Oil	Federal	Active	H-15-17S-29E	4565'	
30-015-42940	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#918H	Oil	Federal	Active	H-15-17S-29E	4805'	
30-015-41302	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#670	Oil	Federal	Active	I-15-17S-29E	4570'	
30-015-36267	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#130	Oil	Federal	Active	J-15-17S-29E	5020'	
30-015-39903	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#667	Oil	Federal	Active	J-15-17S-29E	4593'	
<b>30-015-20715</b>	<b>[229137] COG OPERATING LLC</b>	<b>CONOCO STATE</b>	<b>#001</b>	<b>Oil</b>	<b>State</b>	<b>P&amp;A-R</b>	<b>K-15-17S-29E</b>	<b>11110'</b>	<b>2/14/2018</b>
<i>P&amp;A Diagram Attached...</i>									
30-015-02985	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	K-15-17S-29E	2510'	1/1/1900
30-015-40924	[328947] Spur Energy Partners LLC	CADILLAC STATE	#001	Oil	State	Active	K-15-17S-29E	5410'	

### Section 14 Wells

30-015-02980	[14049] MARBOB ENERGY CORP	DODD FEDERAL UNIT	#024	Inj.	Federal	P&A-R	D-14-17S-29E	3380'	11/3/2006
30-015-25456	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#025	Inj.	Federal	P&A-R	D-14-17S-29E	4560'	5/2/2022
30-015-35622	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#114	Oil	Federal	Active	D-14-17S-29E	5000'	
30-015-39666	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#611	Oil	Federal	Active	D-14-17S-29E	4565'	
30-015-40474	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#675	Oil	Federal	Active	D-14-17S-29E	4576'	
30-015-25175	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#037	Inj.	Federal	Active	E-14-17S-29E	4545'	

## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

Section 10 Wells

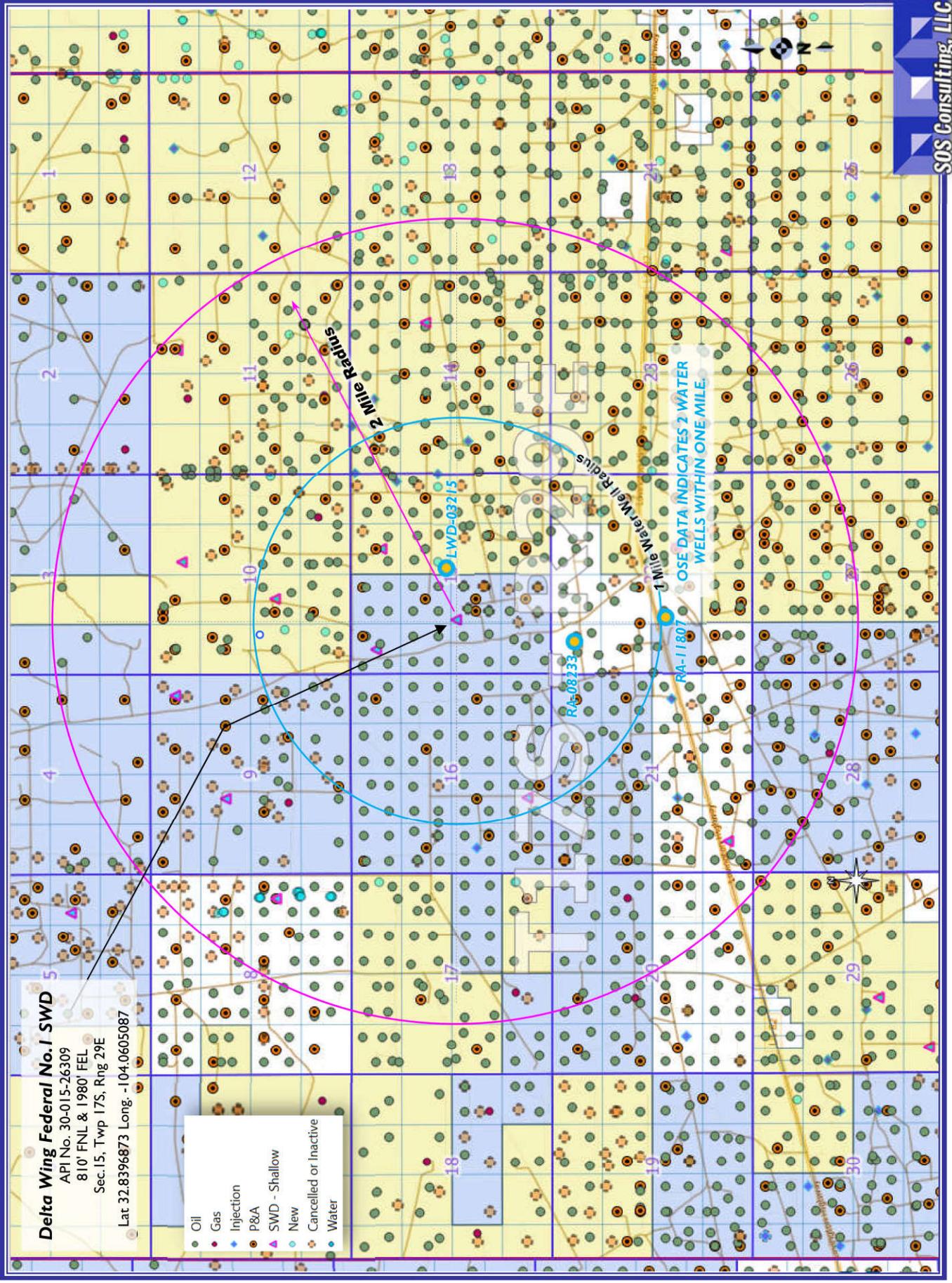
30-015-36154	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#124	Oil	Federal	Active	I-10-17S-29E	5000'
30-015-36153	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#125	Oil	Federal	Active	J-10-17S-29E	5000'
30-015-40352	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#556	Oil	Federal	Active	J-10-17S-29E	4403'
30-015-40350	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#554	Oil	Federal	Active	K-10-17S-29E	4416'
30-015-02945	[14049] MARBOB ENERGY CORP	M DODD B	#014	Oil	Federal	P&A-R	N-10-17S-29E	2476'
30-015-36266	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#121	Oil	Federal	Active	N-10-17S-29E	5000'
30-015-40353	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#571	Oil	Federal	Active	N-10-17S-29E	4440'
30-015-40354	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#572	Oil	Federal	Active	N-10-17S-29E	4445'
30-015-40355	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#573	Oil	Federal	Active	N-10-17S-29E	4449'
30-015-02946	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#020	Oil	Federal	Active	O-10-17S-29E	2456'
30-015-36265	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#132	Oil	Federal	Active	O-10-17S-29E	5010'
30-015-39904	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#575	Oil	Federal	Active	O-10-17S-29E	4598'
30-015-39337	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#576	Oil	Federal	Active	O-10-17S-29E	4545'
30-015-40000	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#577	Oil	Federal	Active	O-10-17S-29E	4430'
30-015-40751	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#578	Oil	Federal	Active	O-10-17S-29E	4411'
30-015-20028	[14049] MARBOB ENERGY CORP	DODD FEDERAL UNIT	#019	Inj.	Federal	P&A-R	P-10-17S-29E	2688'
30-015-39277	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#579	Oil	Federal	Active	P-10-17S-29E	4492'
30-015-39278	[328947] Spur Energy Partners LLC	DODD FEDERAL UNIT	#580	Oil	Federal	Active	P-10-17S-29E	4482'
<b>30-015-31974</b>	<b>[246289] WPX Energy Permian, LLC</b>	<b>DURANGO 10 FEDERAL</b>	<b>#001</b>	<b>Gas</b>	<b>Federal</b>	<b>Active</b>	<b>P-10-17S-29E</b>	<b>10925'</b>
<i>ATOKA Gas well; perfs 10,220'-10,710'; 5.5" csg set 10,924' w/ 1950 sx, Calc'd to Circ, N/R; 9.625" csg set 2698' w/ 1025 sx, Circulated.</i>								

**SUMMARY: 3 wells penetrate the proposed disposal interval, 1 P&A.**



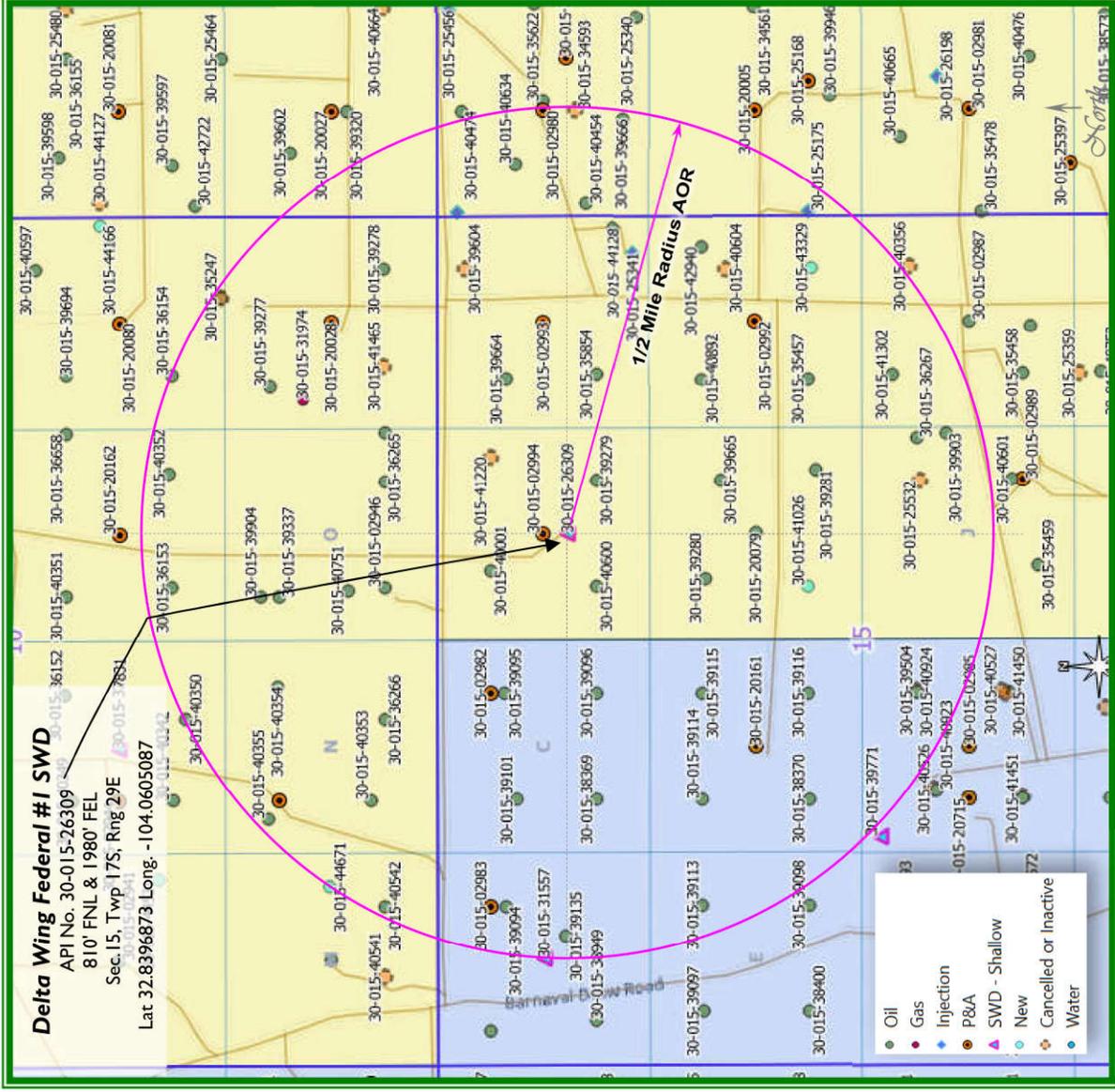
# Delta Wing Federal No.1 SWD - Area of Review / 2 Miles

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



# Delta Wing Federal #1 SWD - Area of Review / Overview Map

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



~4.4 miles West  
of Loco Hills, NM



Eddy County, New Mexico



## **C-108 ITEM VI**

AOR Well Information

### **Plugged Well Schematics**

There is 1 P&A'd Well Within the AOR Which  
Penetrates the Proposed Injection Zone.

30-015-20715

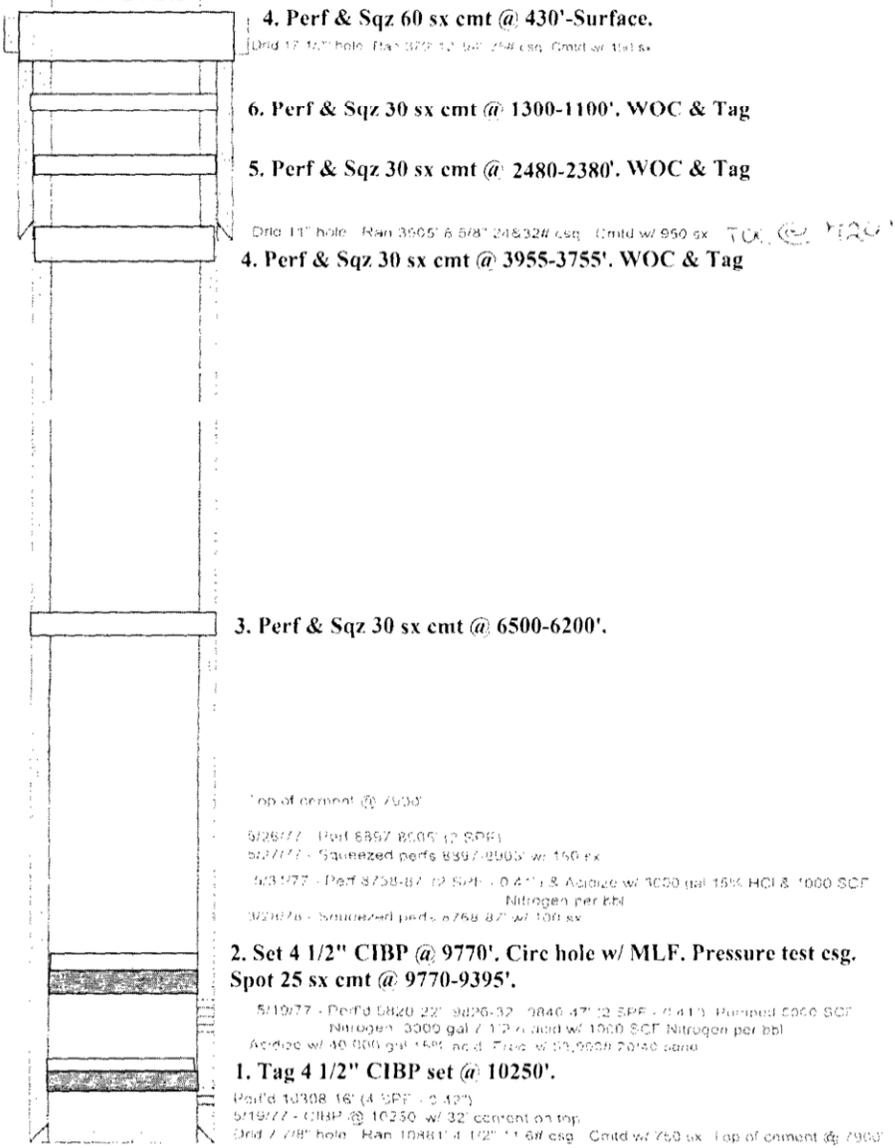
*Well Diagrams and Sundries (as applicable) follow this page...*

COG Operating LLC

Lease & Well #  
API:

Conoco State #1  
30-015-20715

Elevation - 3562  
KB -



PBTD - 10151'

TD - 11110'

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-103  
 Revised July 18, 2013

FEB 22 2018  
 RECEIVED

WELL API NO. <b>30-015-20715</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. <b>E 4200</b>
7. Lease Name or Unit Agreement Name <b>Conoco State</b>
8. Well Number 1
9. OGRID Number <b>229137</b>
10. Pool name or Wildcat <b>Grayburg Upper- Penn</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3562' GR</b>

**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.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
**COG Operating, LLC**

3. Address of Operator  
**600 W. Illinois Ave, Midland, TX 79701**

4. Well Location  
 Unit Letter **K** : **1980** feet from the **S** line and **1650** feet from the **W** line  
 Section **15** Township **17S** Range **29E** NMPM County **EDDY**

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL. <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

01/25/18 MIRU plugging equipment. Dug out cellar, RU pump. 01/26/18 ND well head NU BOP. Worked on unseating TAC. 01/29/18-01/30/18 Cont. freeing TAC. POH w/ 319 jts of 2 3/8" tbg. RIH w/ 4 1/2" scraper & drill bit, tag'd out @ 5100'. Worked tbg down, tag'd out w/ 168 jts in hole. POH. 01/31/18 POH w/ drill bit & scraper. Worked tbg down to 7685', tbg dragged below 5100'. POH. 02/01/18 RIH w/ drill collars & bit, tagged out @ 4200'. Worked down to 9820'. POH. 02/02/18 Set 4 1/2" CIBP @ 9770' (Per Gilbert Cordero w/ NM OCD approval). Circulated hole w/ MLF. Spot'd 25 sx class H cmt @ 9770-9457'. WOC. 02/05/18 Tag'd plug @ 9465'. Set packer @ 4500', hole would not load. RIH to perf @ 6500' (per Gilbert Cordero's request) tag'd out @ 4619'. 02/06/18 Worked wireline down & perf'd csg @ 6500'. Pressured up on perms. Spot'd 30 sx class C cmt w/ 2% CACL @ 6550-6104'. WOC. No tag. Pump'd 1 sx LCM @ 6550'. Waited for 30 mins. Spot'd 30 sx class C cmt @ 6550-6104'. WOC. 02/07/18 Tag'd plug @ 6425'. Pump'd 1 sx LCM @ 6425', waited for 30 mins. Spot'd 30 sx class C cmt w/ 2% CACL @ 6425-5972'. WOC. Tag'd plug @ 6328'. Pump'd 1 sx LCM @ 6328', waited 30 mins. Spotted 6328-5860'. WOC. 02/08/18 Tag'd plug @ 6070'. Perf'd csg @ 3955'. Sqz'd 30 sx class C cmt w/ 2% CACL @ 3955-3755'. WOC. Pressure tested plug, held 500 psi. Tag'd plug @ 3746'. Perf'd csg @ 2480'. Spot'd 30 sx class C cmt @ 2480-2380'. WOC. 02/09/18 Tag'd plug @ 2325'. Perf'd csg @ 1300'. Sqz'd 30 sx class C cmt w/ 2% CACL @ 1300-1100'. WOC. Tag'd plug @ 1048'. Perf'd csg @ 430'. Sqz'd 30 sx class C cmt @ 430-300' (Per Gilbert Cordero's approval). WOC. 02/12/18 Tag'd plug @ 265'.

Spud Date:  Rig Release Date:

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

SIGNATURE K Castillo TITLE Regulatory Advisor DATE 2/19/18  
 Type or print name Kanicia Castillo E-mail address: KCastillo@concho.com PHONE: 432-685-4332  
**For State Use Only**

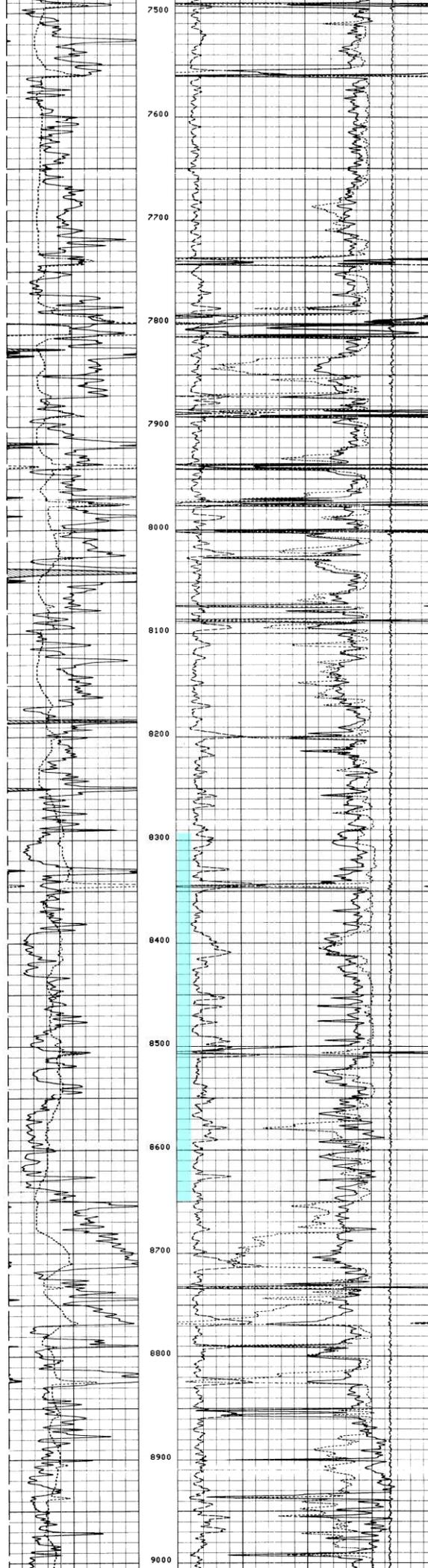
APPROVED BY: [Signature] TITLE Staff Mgr DATE 2-22-18  
 Conditions of Approval (if any):

**C-108 ITEM X – LOGS  
and AVAILABLE TEST DATA**

A Log Strip from the Subject Well is Attached and  
A Cross-Section presentation with an offsetting well  
To identify the Penn Interval.

**LOG STRIP and CROSS-SECTION FOLLOW...**



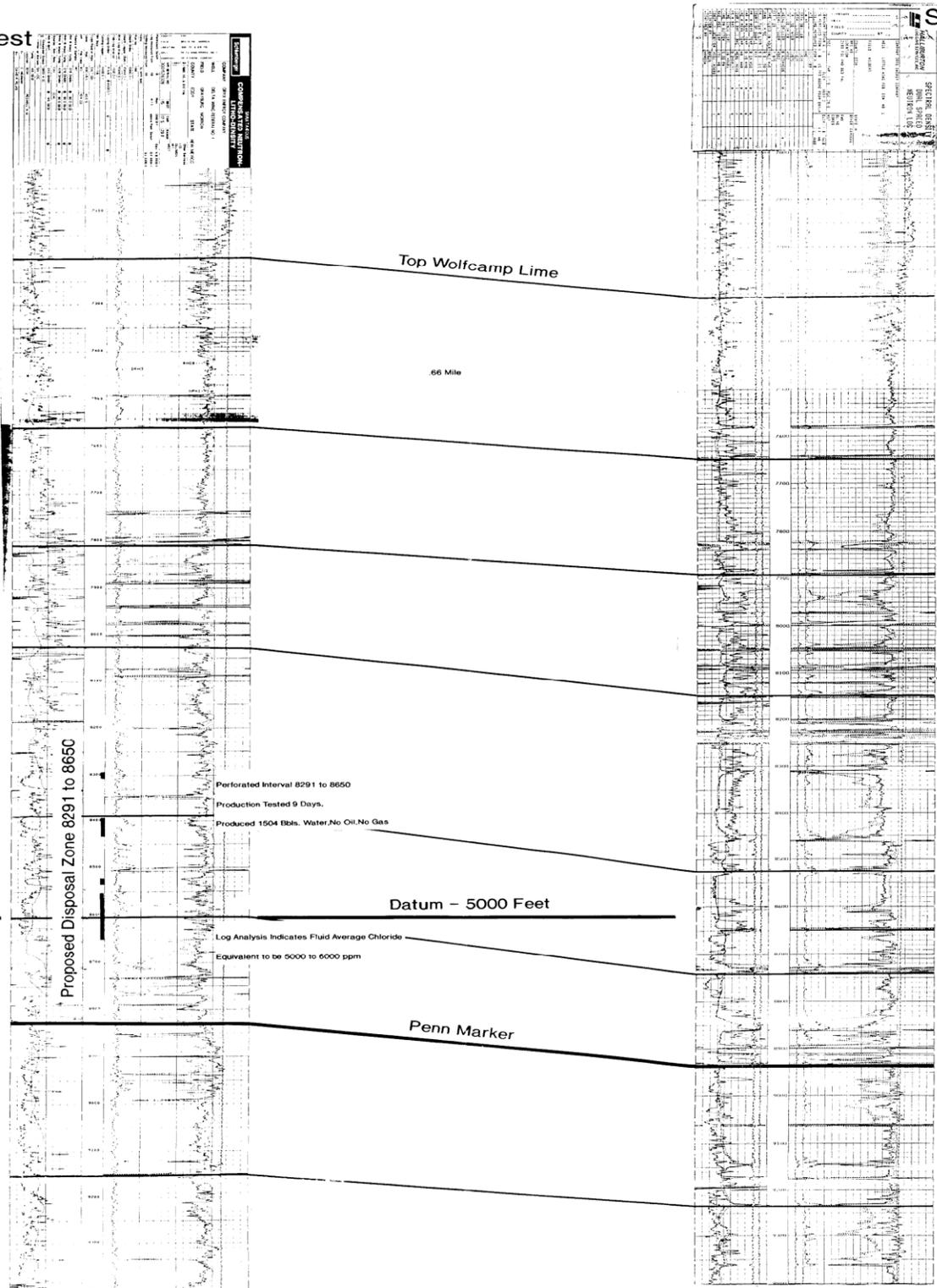


**Injection  
Interval**

**8291 feet  
to  
8650 feet**

Northwest

Southeast



Structure Cross Section Delta Wing Fed # 1 to Little Wing Fed # 1

Upper Pennsylvanian Correlations

1 Inch equals 100feet Vert. Hor. as Indicated

Jack Ahlen 15 Aug 1996

## **C-108 ITEM VII – PROPOSED OPERATION**

The Delta Wing Federal #1 SWD will be operated as a private disposal well to service Spur Energy Partners area operations. Source and disposal zone formation waters are compatible (*representative analyses of several zones are included herein*).

*Note: This C-108 application is to reinstate the previous authorization by OCD Order SWD-643. Spur Energy Partners has acquired hundreds of wells since 2019. As operations are evaluated and assets assessed, this particular SWD had already lost focus by the previous operator. Spur Energy Partners believes reinstatement of this SWD will protect the environment and prevent waste.*

*The cost to dispose of produced water via trucking has become cost prohibitive and if continued, would certainly reduce lease economics and create waste by unnecessary trucking costs including fuel.* *The average daily rate of this SWD would eliminate approximately three dozen transport truck trips per day. Reinstating the well to lease disposal will allow the operator to maintain sufficient in-house disposal volume and continue economic viability for their operated wells in the area. The well will not be open for commercial disposal from other operators' leases.*

The system will be closed utilizing a small tank battery and injection pump facility on site with flowlines from the serviced wells. The tanks and associated equipment are inside an appropriate lined berm area to contain 150% of the largest tank volume.

Injection pressure will be 1658 psi (0.2 psi/ft) with a maximum rate of 7500 bwpd. Average daily rate is expected to be 3000 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

Seismicity Analysis

For High Volume Devonian Wells

**(NOT APPLICABLE TO THIS APPLICATION)**

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

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

Tansil-Yates-Seven Rivers  
Grayburg-San Andres  
Yeso

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

Cisco

**Water Analyses follow this page.**

**C-108 Item VII.5 - Produced Water Data**  
**Spur Energy Partners, LLC - Delta Wing Federal No.1 SWD**  
**SOURCE ZONE**

**ARTESIA GROUP - TNSL-YTS-7RVRS**

<b>API No</b>	3001502891	<b>Lab ID</b>	
<b>Well Name</b>	CAVE POOL UNIT 030	<b>Sample ID</b>	5128
		<b>Sample No</b>	
<b>Location</b>	ULSTR 04 17 S 29 E	<b>Lat / Long</b>	32.85900 -104.07829
	990 S 2310 E	<b>County</b>	Eddy
<b>Operator (when sampled)</b>			
	Field GRAYBURG JACKSON	<b>Unit</b>	O
<b>Sample Date</b>		<b>Analysis Date</b>	
	<b>Sample Source</b> TANK	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	227185	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	140700	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	47
iron_mgL		sulfate_mgL	900
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  
 Spur Energy Partners, LLC - Delta Wing Federal No.1 SWD**

**SOURCE ZONE**

**GRAYBURG-SAN ANDRES**

<b>API No</b>	3001502873	<b>Lab ID</b>	
<b>Well Name</b>	GULF STATE	<b>Sample ID</b>	5366
	002	<b>Sample No</b>	
<b>Location</b>	ULSTR 03 17 S 29 E	<b>Lat / Long</b>	32.86987 -104.06746
	330 N 990 W	<b>County</b>	Eddy
<b>Operator (when sampled)</b>			
	Field SQUARE LAKE		Unit 4
<b>Sample Date</b>		<b>Analysis Date</b>	
	Sample Source WELLHEAD		Depth (if known)
	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	109000	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	63070	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	339
iron_mgL		sulfate_mgL	3538
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  
 Spur Energy Partners, LLC - Delta Wing Federal No.1 SWD**

**SOURCE ZONE**

**YESO**

<b>API No</b>	3001530307	<b>Lab ID</b>	
<b>Well Name</b>	SCHLEY FEDERAL 008	<b>Sample ID</b>	5901
		<b>Sample No</b>	
<b>Location</b>	ULSTR 29 17 S 29 E 1580 N 1650 W	<b>Lat / Long</b>	32.80836 -104.09972
		<b>County</b>	Eddy
<b>Operator (when sampled)</b>	MACK ENERGY		
	Field EMPIRE EAST	<b>Unit</b>	F
<b>Sample Date</b>	8/7/2000	<b>Analysis Date</b>	8/14/2000
	<b>Sample Source</b>	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.135	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	208172	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	140286	conductivity_temp_F	
sodium_mgL	87396.1	carbonate_mgL	0
calcium_mgL	3103.09	bicarbonate_mgL	611.765
iron_mgL	3.405	sulfate_mgL	3456.07
barium_mgL	0.1135	hydroxide_mgL	
magnesium_mgL	817.2	h2s_mgL	79.45
potassium_mgL	545.935	co2_mgL	
strontium_mgL	55.615	o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



**C-108 Item VII.5 - Produced Water Data**  
**Spur Energy Partners, LLC - Delta Wing Federal No.1 SWD**  
**DISPOSAL ZONE**

**CISCO (UPPER PENN)**

<b>API No.</b>	3001500129	<b>Lab ID</b>	
<b>Well Name</b>	SPRINGS SWD 001	<b>Sample ID</b>	5353
		<b>Sample No</b>	
<b>Location</b>	ULSTR 04 21 S 25 E 660 N 830 E	<b>Lat / Long</b>	32.52054 -104.39423
		<b>County</b>	Eddy
<b>Operator (when sampled)</b>			
	Field SEVEN RIVERS HILLS	Unit	1
Sample Date		Analysis Date	
	Sample Source SWAB	Depth (if known)	
	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	31485	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	17000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	635
iron_mgL		sulfate_mgL	2500
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 VIII**

### **GEOLOGIC INFORMATION**

The Upper Penn formation (includes Cisco, Canyon, etc.) is a gray micritic (fine grained) fossiliferous limestone with vugular porosity as well as dolomite. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up; overall thickness averages 500 to 600 feet in the area. The upper portion becomes very shaley and is not proposed for injection.

The Upper Penn interval offers some good porosity in the proposed injection interval located from 8291 feet to 8650 feet with some very good porosity interspersed throughout the overall interval.

The Upper Penn is overlain by the Wolfcamp and then Bone Spring and underlain by the Strawn and Atoka.

There are no known domestic water wells within one mile of the proposed SWD well. There is a potential source of drinking water in the overlying sands occurring at a depth from surface of up to 250 feet. The upper part of the section on average consists of 200 ft of Holocene alluvial deposits of caliche, sand, gravel, and clay. Included in this interval are red sandstone and shale of the Chinle formation and Santa Rosa sandstone and similar deposits of the Dewey Lake formation. These formations are underlain by the Rustler and Salado formations.

There are no known sources of water <10,000 mg/l TDS which underlie the injection zones.

Production in the area is generally from Glorieta and Yeso, then shallower and more widely from the Artesia Group formations. The AOR wells largely are completed in the GJ [Grayburg Jackson]; 7Rrvs-Qn-GB-Glorieta-Yeso Pool, Pool ID 97558 and from the Granburg Jackson; SR-Q-G-SA Pool, Pool ID 28509.

Fresh water in the area is generally available from the Santa Rosa formation (Capitan Basin). Based on State Engineer's records for water wells in Township 17S and Ranges 28-29E, groundwater depth was 76 to 80 feet. *(Note: only 1 water well depth was reported although other wells exist in the township.)*

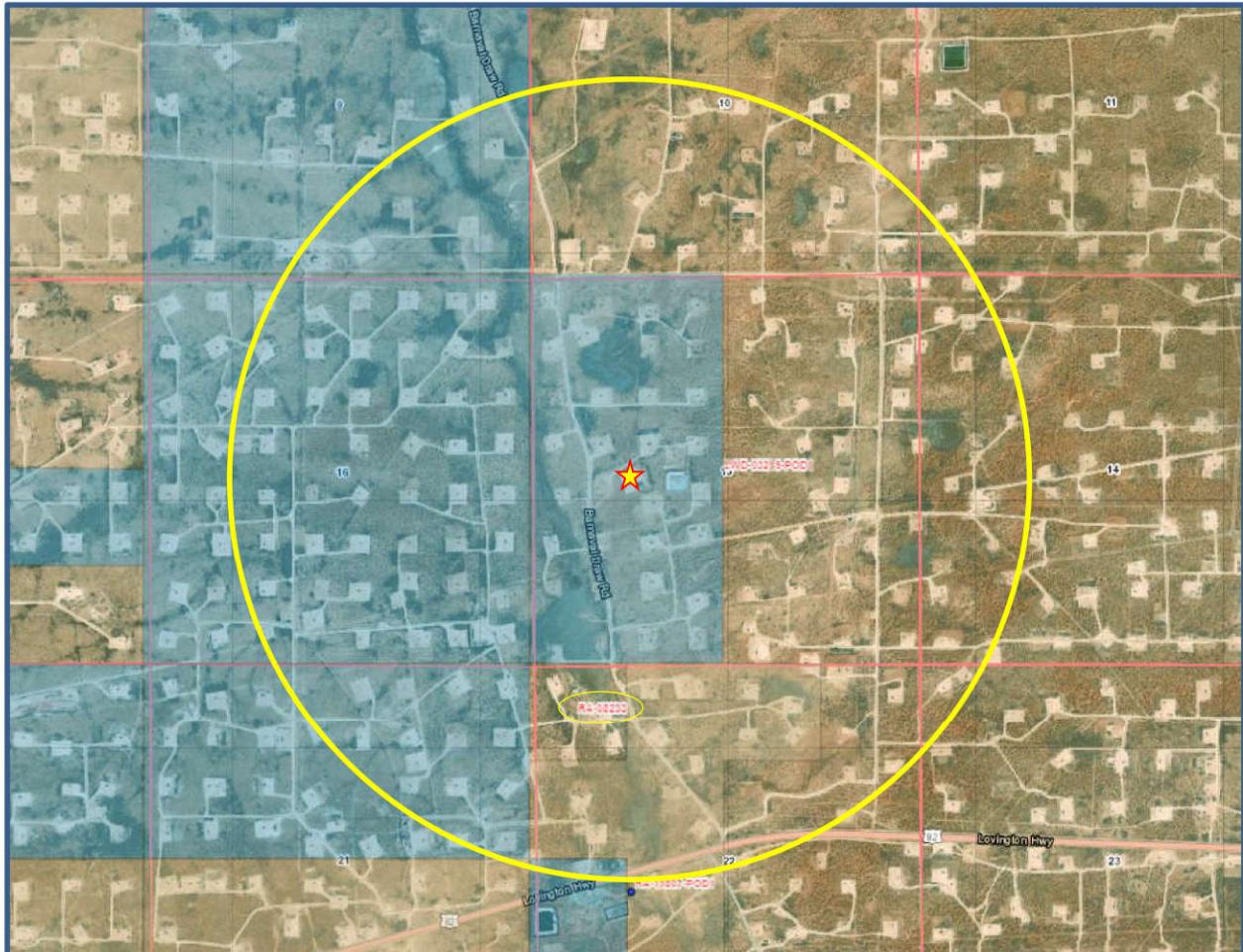
There are 2 water wells located within one mile of the proposed SWD. The analysis of a previously collected sample is include in the application.

# C-108 Item XI

## Water Wells Within One Mile

### Delta Wing Federal #1 SWD - Water Well Locator Map

*NM State Engineer's records indicate 2 water wells located approximately within one mile of the proposed SWD. An existing analysis of the RA-08233 well is included herein.*





# 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="#">RA 11807 POD1</a>	RA	ED		1	2	3	22	17S	29E	587360	3631585	131	76	55

Average Depth to Water: **76 feet**

Minimum Depth: **76 feet**

Maximum Depth: **76 feet**

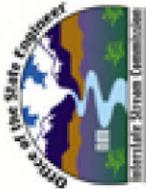
**Record Count:** 1

**PLSS Search:**

**Township:** 17S

**Range:** 29E

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



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q	q	q	q	X	Y
JTR File Nbr	PLS	STK	RA	CH	LWD 03215 POD1				6416	4	Sec	Tws	Rng		
<a href="#">WD 03215</a>	RA	PLS	2.56 BOGLE FARMS	CH	<a href="#">LWD 03215 POD1</a>				587729	15	17S	29E	587729	36333333*	Y
<a href="#">A 08233</a>	RA	STK	1.54 BOGLE FARMS	ED	<a href="#">RA 08233</a>				587130	1	1	22	17S 29E	3632327*	Y
<a href="#">A 11807</a>	RA	GAN	<del>1 MITCHEL JOHNSON</del>	ED	<del>RA 11807 POD1</del>			Shallow	587359	1	2	3	17S 29E	3631585	Y

**NOT IN AOR**

Record Count: 3

**PLSS Search:**

**Section(s):** 9, 10, 15, 16, **Township:** 17S **Range:** 29E  
21, 22

**Sorted by:** File Number

JTM 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.

HALLIBURTON DIVISION LABORATORY

EXHIBIT A

HALLIBURTON SERVICES

(Section XI, Form C-108)

ARTESIA DISTRICT

MAY 25 1993

LABORATORY REPORT

No. W171-93

TO Marbob Energy Corporation
P. O. Box 304
Artesia, NM 88210

Date May 23, 1993

This report is the property of Halliburton Services and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management, it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Services

Submitted by Date Rec. May 22, 1993

Well No. Water Well Depth Formation

Field Barnesville Draw Road County Source

Table with 3 columns: Parameter, Value, and empty column. Rows include Resistivity (7.03 @ 70°), Specific Gravity (1.0015 @ 70°), pH (7.8), Calcium (2,761), Magnesium (983), Chlorides (500), Sulfates (200), Bicarbonates (488), Soluble Iron (0).

Remarks:

Respectfully submitted

Analyst: Eric Jacobson - Operations Engineer

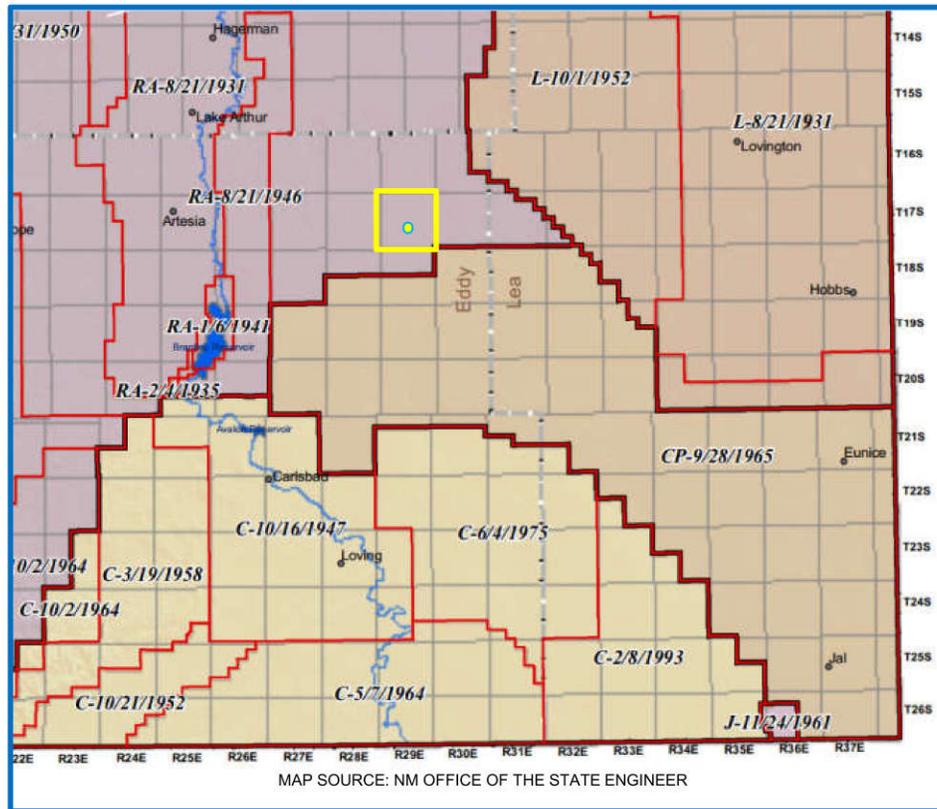
HALLIBURTON SERVICES

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use hereof

# C-108 - Item XI

## Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Roswell Artesian Basin.

The Roswell Artesian Basin consists of an eastward-dipping carbonate aquifer overlain by a leaky evaporitic confining unit, overlain in turn by an unconfined alluvial aquifer. The carbonate aquifer is artesian to the east but under water-table conditions in the western outcrop area.

Water-producing zones in the carbonate aquifer rise stratigraphically from north to south and from west to east. Some wells may penetrate as many as five water-producing zones. Secondary porosity is developed in vuggy and cavernous limestone, solution-collapse breccia, and solution-enlarged fractures. Recharge occurs by direct infiltration of precipitation and by runoff from intermittent losing streams flowing eastward across a broad area east of the Sacramento Mountains. (USGS)

State Engineer's records show water wells in 17S-29E with an average depth to water at 76 feet, based on ONE well record in the township.

There are 2 water wells located within one mile of the proposed SWD, 1 analysis is included.

## **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: Spur Energy Partners, LLC  
Delta Wing Fed and Durango 15 State SWDs  
Reviewed 5/21/2021

# **C-108 ITEM XIII – PROOF OF NOTIFICATION**

## IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

### **Exhibits for Section**

Affected Parties Map

List of Affected Parties

Notification Letter to Affected Parties

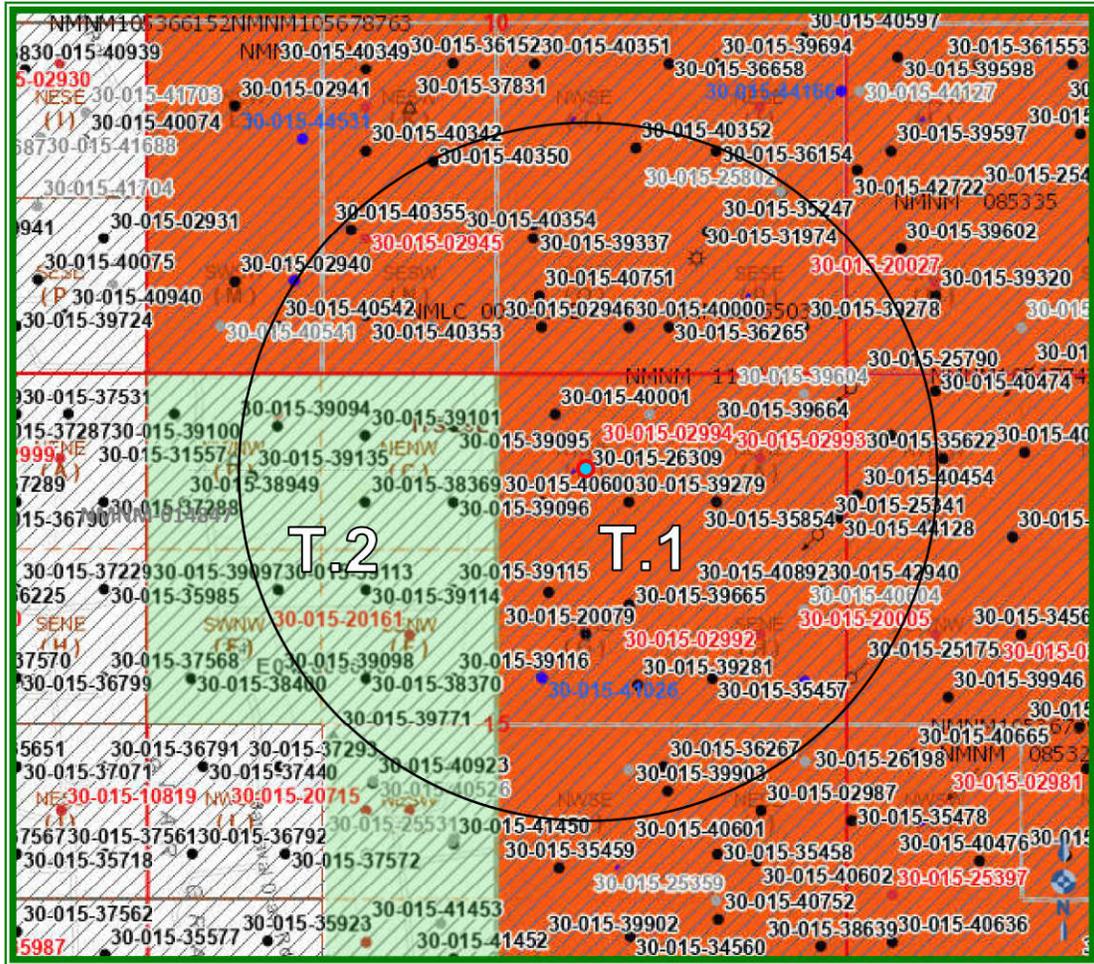
Proof of Certified Mailing

Proof of Return Receipts

Affidavit Published Legal Notice

# Delta Wing Federal No.1 SWD- Affected Parties Plat

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



**LEGEND**

(Note: All leases have active operators, shown below.)

T.1 – Com Agrmt; BLM; Spur Energy Partners (L/Op)  
 WPX Energy Permian (Op-1 well)

T.2 – State E0-4200-0000; Spur Energy Partners (Op),  
 ConocoPhillips (L)

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

**ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL AND LINKS TO DOWNLOAD A PDF COPY OF THE SUBJECT C-108 APPLICATION OR EMAIL REQUEST.**

"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 U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220  
Certified: 7018 1130 0000 8738 2438

## OFFSET OPERATORS (All Notified via USPS Certified Mail)

### **Com Agrmt - BLM Leases (T.1 on Map)**

#### ***Lessee & Operator***

SPUR ENERGY PARTNERS, LLC (Applicant)  
9655 Katy Freeway, Ste.500  
Houston, Texas 77024

### **State Com Agrmt Lease E0-42000-0000 (T.1 on Map)**

#### ***Lessee***

CONOCOPHILLIPS  
P.O. Box 2197  
Houston, TX 77252-2197

#### ***Operator***

SPUR ENERGY PARTNERS, LLC (Applicant)  
9655 Katy Freeway, Ste.500  
Houston, Texas 77024

#### ***Operator (1 well)***

- 3 WPX ENERGY PERMIAN, LLC  
3500 One Williams Center  
Tulsa, OK 74172  
Certified: 7018 1130 0000 8738 2605

## OFFSET MINERALS OWNERS (Notified via USPS Certified Mail)

- 2 STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504  
Certified: 7018 1130 0000 8738 2445

U.S. DEPARTMENT OF INTERIOR  
Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

## REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION  
811 South First St.  
Artesia, NM 88210

### **FILED VIA OCD ONLINE E-PERMITTING**

STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504

SPUR DELTA WING FEDERAL #1  
<https://www.dropbox.com/sh/npustkijol1lbyr/AADotHV3URXumbIVLBK7N0FOa?dl=0>

USPS Certified Tracking:  
7018 1130 0000 8738 2438,  
7018 1130 0000 8738 2445.  
7018 1130 0000 8738 2605

May 22, 2022

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

To Whom It May Concern:

Spur Energy Partners, Houston, Texas, has made application to the New Mexico Oil Conservation Division to reinstate for salt water disposal its Delta Wing Federal #1 SWD. The previously authorized SWD operation will be for private water disposal from Spur's area operations. As indicated in the notice below, the well is located in Section 15, Township 17 South, Range 29 East in Eddy County, New Mexico.

The published notice states that the interval will be from 8,291 feet to 8,650 feet into the Cisco formation.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about May 12, 2022.

**LEGAL NOTICE**

Spur Energy Partners, LLC, 9655 Katy Freeway, Ste.500, Houston, TX 77024, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to REINSTATE a salt water disposal well. The well is the Delta Wing Federal No.1 (API No.30-015-26309) and is located 810 feet from the North line and 1980 feet from the East line (Unit B) of Section 15, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. Produced water from Spur's area production will be privately disposed (not open to commercial disposal) into the Upper Pennsylvanian formation at depths between 8291' to 8650' at a maximum surface pressure of 1658 psi, maximum daily rate of 7500 bwpd and an average rate of 3000 bwpd. The subject SWD well is located approximately 4.9 miles west of Loco Hills, NM.

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. You may call or email SOS Consulting or, the PDF can be downloaded using the link: <https://www.dropbox.com/sh/npustkljoi1lbyr/AADotHV3URXumbVLBK7N0FOa?dl=0>

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC  
Agent for Spur Energy Partners, LLC  
Cc: Application File

# C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7018 1130 0000 8738 2438

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**OFFICIAL USE**

Certified Mail Fee \$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
<b>Total Postage and Fees</b> \$	7.38

Sent To  
Street and  
City, State

Bureau of Land Management  
Oil & Gas Division  
620 E. Greene St.  
Carlsbad, NM 88220

PS Form 3800, October 2015



7018 1130 0000 8738 2605

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**OFFICIAL USE**

Certified Mail Fee \$	3.75
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	3.05
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	.58
<b>Total Postage and Fees</b> \$	7.38

Sent To  
Street and  
City, State

WPX ENERGY PERMIAN, LLC  
3500 One Williams Center  
Tulsa, OK 74172

PS Form 3800, October 2015



7018 1130 0000 8738 2445

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

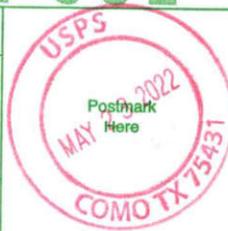
**OFFICIAL USE**

Certified Mail Fee \$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
<b>Total Postage and Fees</b> \$	7.38

Sent To  
Street and  
City, State

STATE OF NEW MEXICO  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504

PS Form 3800, October 2015



**Track Another Package +**

[BLM - Carlsbad Field Office](#)

**Tracking Number:** 70181130000087382438

[Remove X](#)

Your item was delivered to an individual at the address at 3:59 pm on May 31, 2022 in CARLSBAD, NM 88220.

**USPS Tracking Plus<sup>®</sup> Available** 

 **Delivered, Left with Individual**

May 31, 2022 at 3:59 pm  
CARLSBAD, NM 88220

**Get Updates** 

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[State Land Office](#)

**Tracking Number:** 70181130000087382445

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Your item was picked up at a postal facility at 6:48 am on May 27, 2022 in SANTA FE, NM 87501.

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 **Delivered, Individual Picked Up at Postal Facility**

May 27, 2022 at 6:48 am  
SANTA FE, NM 87501

**Get Updates** 

**See More** ✓

[WPX Energy Permian, LLC](#)

**Tracking Number:** 70181130000087382605

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Your item was delivered to an individual at the address at 3:57 pm on June 14, 2022 in TULSA, OK, 74172

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 **Delivered, Left with Individual**

June 14, 2022 at 3:57 pm  
TULSA, OK, 74172

**Get Updates** ✓

**See More** ✓

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Go to our FAQs section to find answers to your tracking questions.

**FAQs**

# Affidavit of Publication

No. 26141

State of New Mexico

County of Eddy:

**Danny Scott**

being duly sworn says that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

### Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication May 12, 2022

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

Sixth Publication \_\_\_\_\_

Seventh Publication \_\_\_\_\_

Subscribed and sworn before me this

12th day of May 2022

STATE OF NEW MEXICO  
NOTARY PUBLIC  
Latisha Romine  
Commission Number 1076338  
My Commission Expires May 12, 2023

Latisha Romine

Notary Public, Eddy County, New Mexico

# Copy of Publication:

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Published in the Artesia Daily Press, Artesia, N.M., May 12, 2022 Legal No. 26141.