

Initial Application Part I

Received: 06/27/2022

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

RECEIVED: 06/27/2022	REVIEWER:	TYPE: SWD	APP NO: pJZT2218747480
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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: Big George State SWD No.1 **API:** 30-015-28759
Pool: SWD; Cisco **Pool Code:** 96099

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 SWD-2497
 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

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

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

~~5/02/2022~~ 6/27/2022
 Date

903-488-9850
 Phone Number

ben@sosconsulting.us
 e-mail Address

June 27, 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 Big George State #3 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 12, Township 17 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the interval will be from 8,377 feet to 8,409 feet into the Cisco formation.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about April 21, 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 previously permitted well, Big George Well No.3 (API No.30-015-28759) located 1650 feet from the South line and 1650 feet from the East line (Unit J) of Section 12, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. Produced water from Spur's area production will be privately disposed (not open to commercial disposal) into the Cisco formation at depths between 8377' to 8409' at a maximum surface pressure of 1675 psi, maximum daily rate of 10,000 bwpd and an average rate of 7500 bwpd. The subject SWD well is located approximately 8.7 miles west/ northwest 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.

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/kqn41hmgjxp9uru/AABppZXAomE479VeGXQkxsYma?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

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

¹ API Number 30-015-28759	² Pool Code 96099	³ Pool Name SWD; Cisco
⁴ Property Code TBD	⁵ Property Name Big George State SWD	
⁷ OGRID No. 328947	⁸ Operator Name Spur Energy Partners, LLC	
⁶ Well Number 3		
⁹ Elevation 3710'		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	12	17S	28E		1650'	FSL	1650'	FEL	Eddy

¹¹ 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									

¹² Dedicated Acres n/a	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. SWD-611
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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.

<div style="text-align: center;"> <p style="margin-left: 100px;">1650'</p> <p style="margin-left: 100px;">1650'</p> </div>	<p style="text-align: center;">¹⁷ OPERATOR CERTIFICATION</p> <p><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></p> <p style="text-align: right;"> 4/23/2022 Signature Date </p> <p>Ben Stone Printed Name</p> <p>ben@sosconsulting.us E-mail Address</p>
<div style="text-align: center;"> <p style="margin-left: 100px;">1650'</p> <p style="margin-left: 100px;">1650'</p> </div>	<p style="text-align: center;">¹⁸ SURVEYOR CERTIFICATION</p> <p><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></p> <p style="text-align: center;">October 13, 1994 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p style="text-align: center;">Ronald Eidson 3239 Certificate Number</p>

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; NO (0) 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 NO water wells within one mile the proposed SWD.***
- 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 are 4 offset operators plus state and federal minerals within one mile – ALL 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: ***6/27/2022***

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.

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.

C-108 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram – PROPOSED

Item IV – Tabulation of AOR Wells

3 Wells Penetrate the Proposed Injection Interval, 0 P&A

Item V – Area of Review Maps

1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
2. One-Half Mile AOR Map

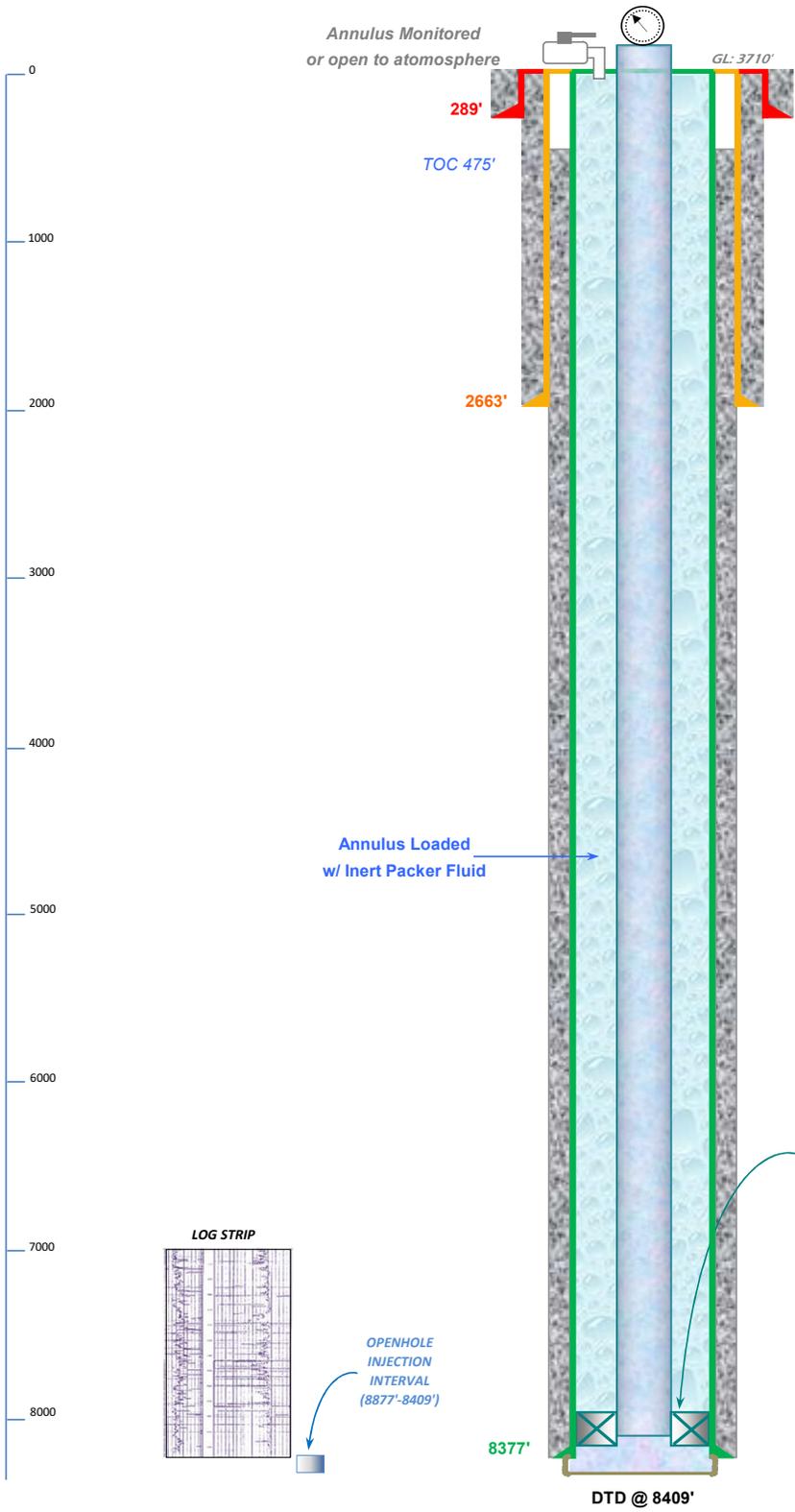
All Above Exhibits follow this page.

WELL SCHEMATIC - PROPOSED
Big George State Well No.3 SWD

API 30-015-28759
1650' FSL & 1650' FEL, SEC. 12-T17S-R28E
EDDY COUNTY, NEW MEXICO

SWD; Cisco (96099)

Spud Date: 1/2304/2000
SWD-611 Config SWD Dt: Converted 2005
Reinstate: **ASAP 6/01/2022**



*Injection Pressure Regulated
and Volumes Reported*
1675 psi Max. Surface (0.2 psi/ft)

Surface Casing
13.375", 54.0# J-55 STC Csg. (17.5" Hole) @ 289'
350 sx - Circulated to Surface

Intermediate Casing
8.625", 32.0# J-55 Csg. (11.0" Hole) @ 2663'
900 sx - Circulated to Surface

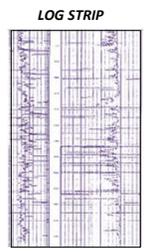
SPUR ENERGY PARTNERS, LLC

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 ~8277'+
Note: PRK Set 100' Above Final Uppermost Perf Interval.

Production Casing
5.5", 17.0# J-55 Csg. (7.875" Hole) @ 8377';
DV @ 4487'; 1st 600 sx, 2nd 550 sx - TOC 475' by Temp.

Cisco OH Interval - 8377'-8409'



OPENHOLE
INJECTION
INTERVAL
(8877'-8409')

Form C-108 Item VI - Tabulation of AOR Wells

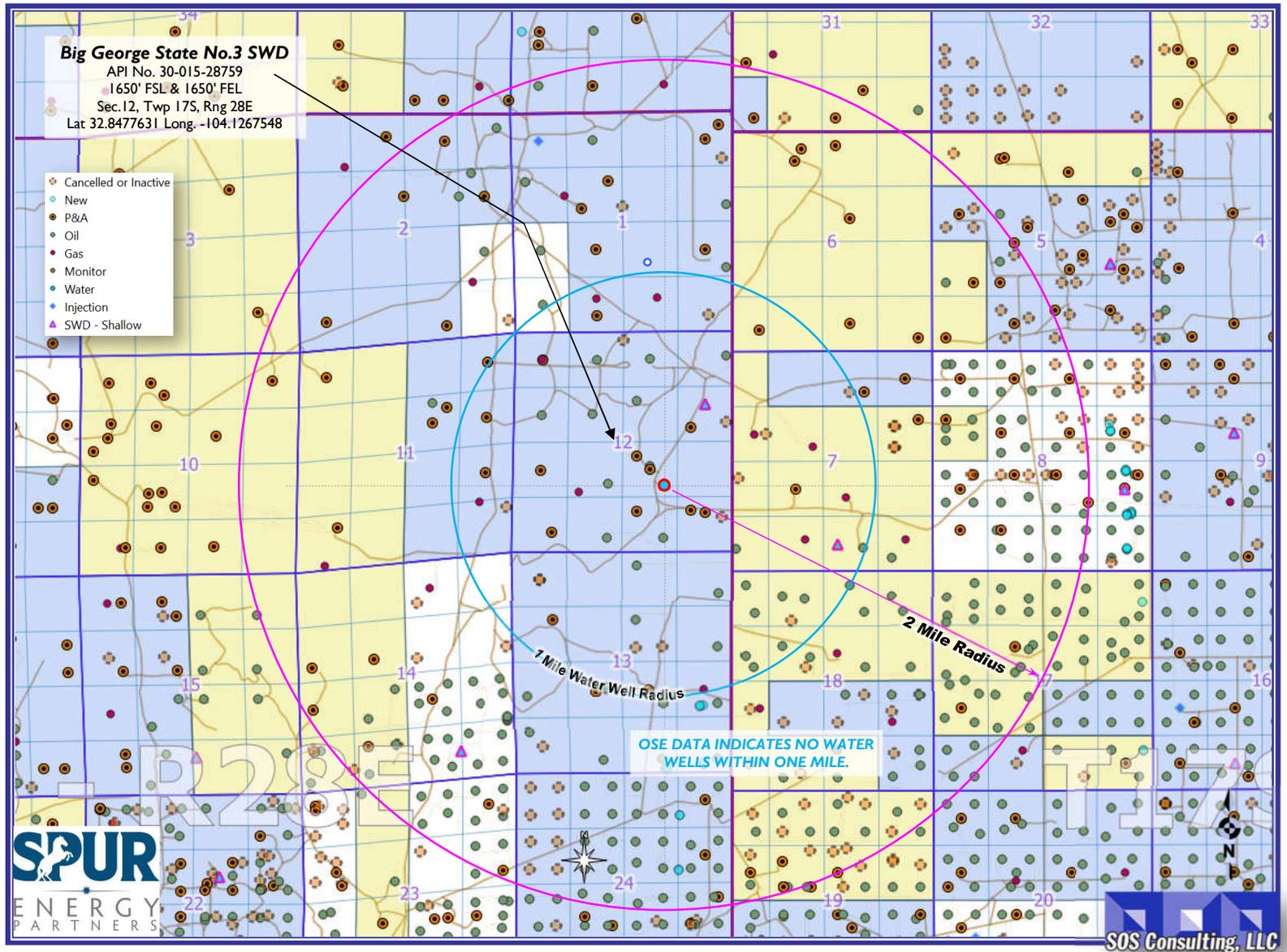
Top of Proposed CISCO Interval 8377'			3 Wells Penetrate Proposed Interval.						
API	Current Operator	Well Name	Well Number	Type	Lease	Status	ULSTR	Depth	Plugged On
<u>Subject Well</u>									
30-015-28759	[328947] Spur Energy Partners LLC	BIG GEORGE STATE	#003	SWD	State	Active	J-12-17S-28E	8409'	
<u>Section 12 Wells</u>									
30-015-32216	[15363] Murchison Oil and Gas, LLC	YOGI BEAR SWD	#001	SWD	State	Active	H-12-17S-28E	10620'	
<i>SWD-Cisco/Canyon 8664'-8794'; 5.5" csg set 10620' w/ 1425 sx - Calc'd to Circulate.</i>									
30-015-01361	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	State	P&A-R	H-12-17S-28E	2506'	1/1/1900
30-015-26340	[240974] LEGACY RESERVES OPERATING, LP	BIG GEORGE STATE	#002	Oil	State	Active	J-12-17S-28E	7920'	
30-015-25386	[13837] MACK ENERGY CORP	BIG GEORGE STATE	#001	Oil	State	P&A-R	J-12-17S-28E	1175'	1/11/2001
30-015-01352	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	State	P&A-R	J-12-17S-28E	2492'	1/1/1900
30-015-34062	[328947] Spur Energy Partners LLC	CARRINGTON STATE	#001	Gas	State	Active	K-12-17S-28E	10460'	
<i>MORROW Gas; 5.5" csg set 10450' w/ 1580 sx - Calc'd >250' into INT Csg., Perf 10152'-158'; 10172'-198'</i>									
30-015-39250	[328947] Spur Energy Partners LLC	CARRINGTON STATE	#007	Oil	State	Active	K-12-17S-28E	5260'	
30-015-38567	[328947] Spur Energy Partners LLC	CARRINGTON STATE	#003	Oil	State	Active	N-12-17S-28E	5350'	
30-015-01362	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	State	P&A-R	O-12-17S-28E	2488'	1/1/1900
30-015-38596	[328947] Spur Energy Partners LLC	CARRINGTON STATE	#004	Oil	State	Active	O-12-17S-28E	5400'	
30-015-01353	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	P-12-17S-28E	2488'	1/1/1900
30-015-10384	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-R	P-12-17S-28E	2485'	1/1/1900
<u>Section 13 Wells</u>									
30-015-38374	[372210] LONGFELLOW ENERGY, LP	AID STATE	#009	Oil	State	Active	B-13-17S-28E	5450'	
<u>Section 7 Wells</u>									
30-015-25628	[328565] BAM Permian Operating, LLC	WARP SPEED 7 FEDERAL COM	#002	Gas	Federal	Active	E-7-17S-29E	10621'	
<i>MORROW Gas; 5.5" csg set 10621' w/ 1520 sx - Calc'd >250' into INT Csg., Perf 10421'-432'</i>									
30-015-39805	[14744] MEWBOURNE OIL CO	EMPIRE 7 MP FEDERAL	#001H	Oil	Federal	Active	P-7-17S-29E	4087'	

SUMMARY: 3 wells penetrate the proposed disposal interval, 0 (No) P&As.



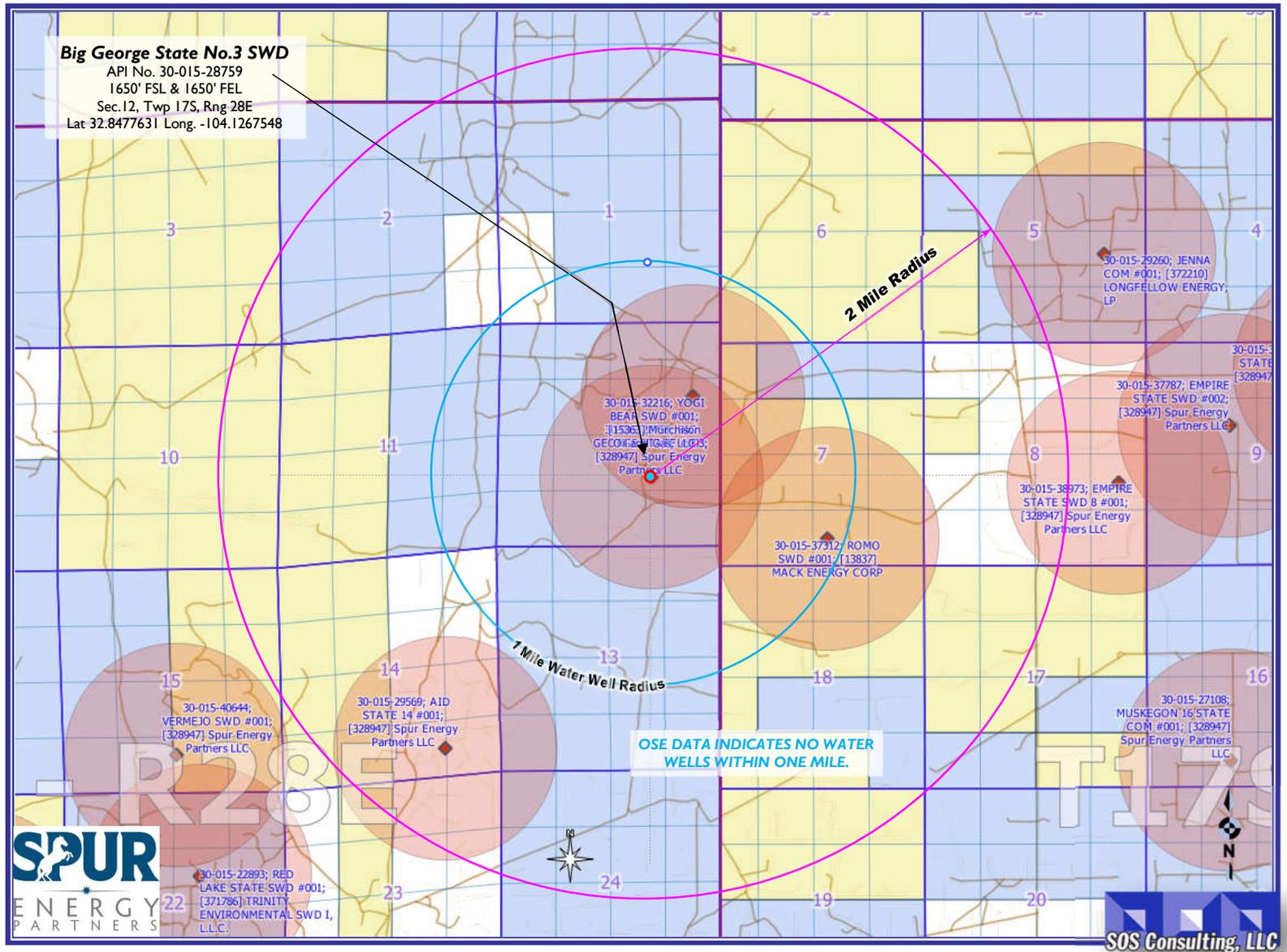
Big George State No.3 SWD - Area of Review / 2 Miles

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



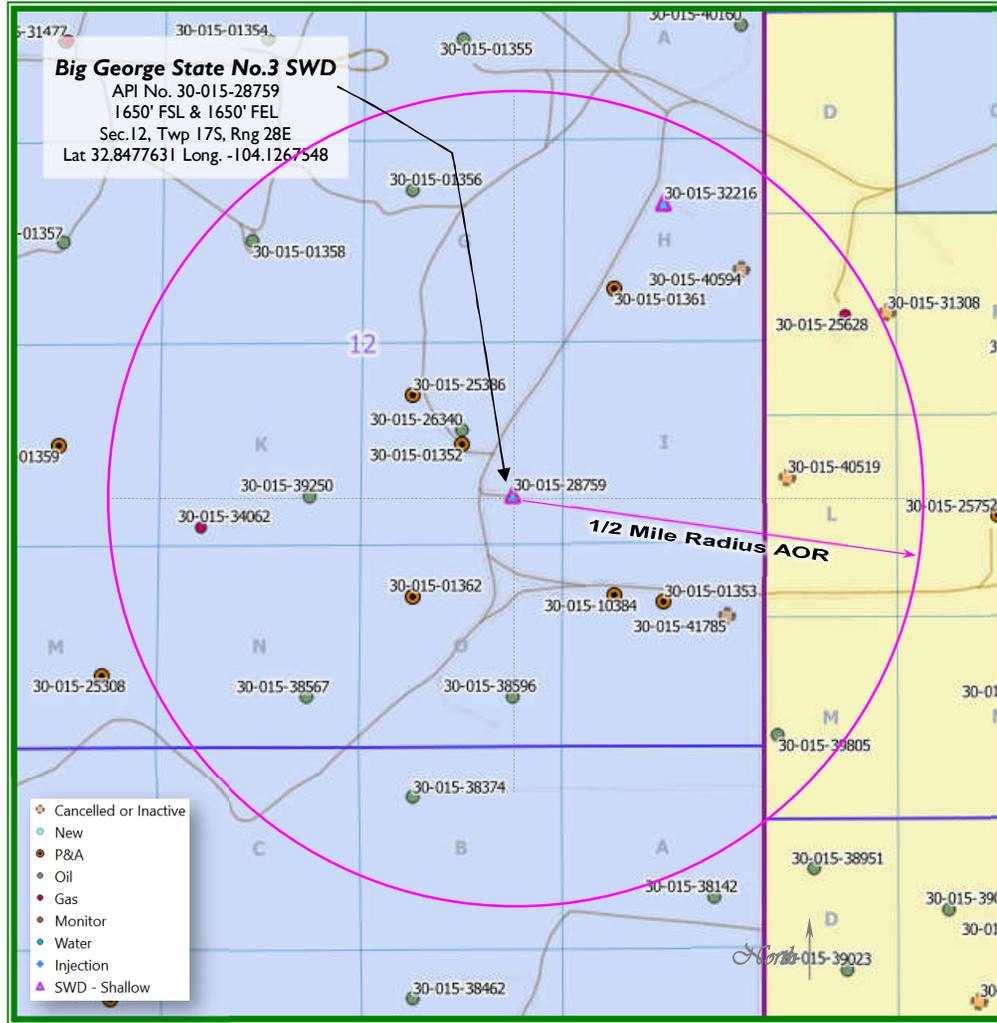
Big George State No.3 SWD - Area of Review / 2 Miles / SWDs in Area

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



Big George State No.3 SWD - Area of Review / Overview Map

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



~8.4 miles West/ Northwest of Loco Hills, NM



Eddy County, New Mexico



C-108 ITEM X – LOGS and AVAILABLE TEST DATA

A Log Strip from the Subject Well is Attached

*Note: Injection Interval is just below
Logged Total Depth of the well. The short Openhole Interval
was taken by the length of the logging tools.*

Log Strip Follows this page...

COMPANY: MACK ENERGY CORPORATION
WELL: BIG GEORGE # 3
FIELD: GRAYBERG JACKSON
COUNTY: EDDY STATE: NEW MEXICO

COMPENSATED NEUTRON
GAMMA RAY C.C.L. LOG

Schlumberger

Location: 1650 FSE & 1650 FEL
 Well: BIG GEORGE # 3
 Company: MACK ENERGY CORPORATION

Permanent Datum: GROUND LEVEL Elev: 5710 F
 Log Measured From: KELLY BUSHING Elev: 140 F above Perm Datum
 Drilling Measured From: KELLY BUSHING

API Serial No: 50-025020-1
 Run Number: 1
 Logging Date: 10 MAY 1997

Logging Date: 10 MAY 1997
 Run Number: 1
 Depth Driller: 8360 F
 Schlumberger Depth: 8354 F
 Bottom Log Interval: 8354 F
 Top Log Interval: 100 F
 Casing Fluid Type: WATER

Fluid Level: 7.875 IN
 BIT CASING TUBING STRING
 Bit Size: 5 7/8 IN
 Casing Tubing Size: 5 7/8 IN
 Weight Grade: 17.18 LB/FT
 From: To:
 Casing Tubing Size: 5 7/8 IN
 Weight Grade: 17.18 LB/FT
 From: To:
 Maximum Recorded Temperatures: 8264
 Logger On Bottom: CLARKE ROSWELL
 Unit Number: TONY HALL
 Recorded By: TONY HALL

Run 1	Run 2	Run 3	Run 4
Oil Density			
Water Salinity			
Casr Gravity			
API Gravity			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviator			
CEMENTING DATA			
Porting Square			
Logging String No			
Fluid Level			
Volume			
Density			
Water Loss			
Additives			
Expected Cement Top			

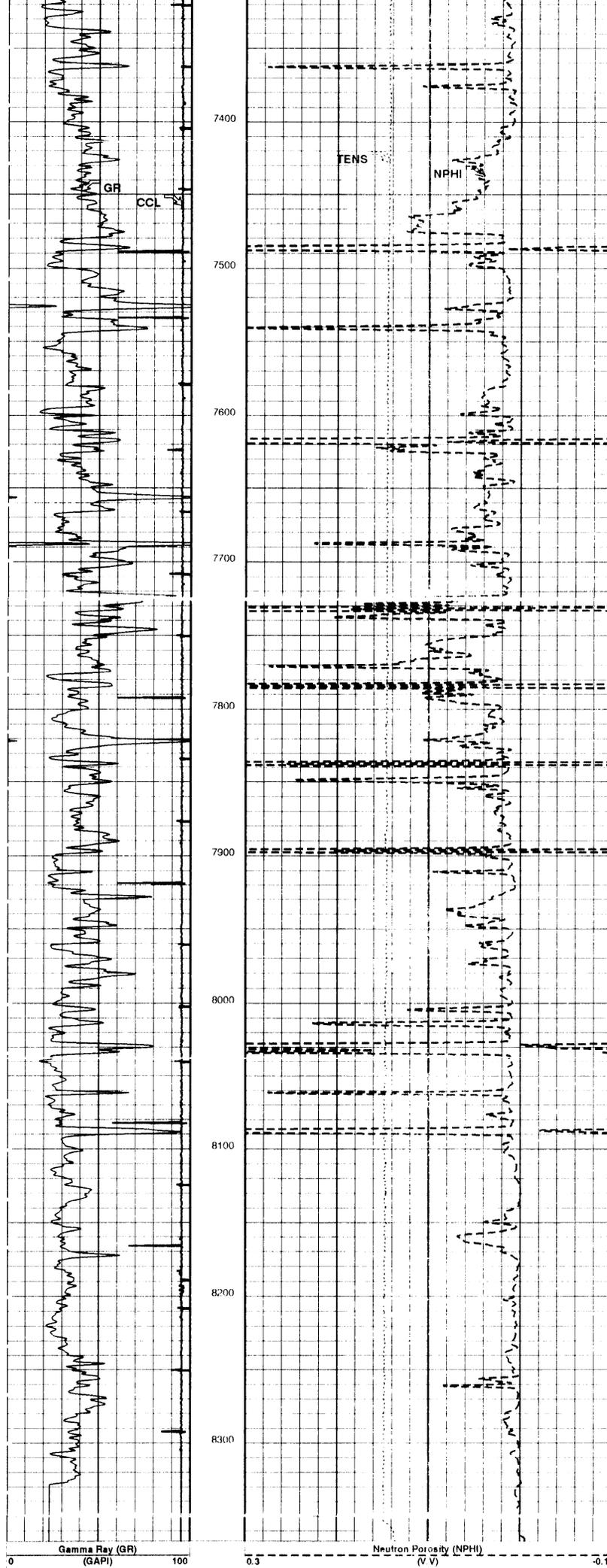
Logging Date: 10 MAY 1997
 Run Number: 1
 Depth Driller: 8360 F
 Schlumberger Depth: 8354 F
 Bottom Log Interval: 8354 F
 Top Log Interval: 100 F
 Casing Fluid Type: WATER

Fluid Level: 7.875 IN
 BIT CASING TUBING STRING
 Bit Size: 5 7/8 IN
 Casing Tubing Size: 5 7/8 IN
 Weight Grade: 17.18 LB/FT
 From: To:
 Casing Tubing Size: 5 7/8 IN
 Weight Grade: 17.18 LB/FT
 From: To:
 Maximum Recorded Temperatures: 8264
 Logger On Bottom: CLARKE ROSWELL
 Unit Number: TONY HALL
 Recorded By: TONY HALL

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

OTHER SERVICES 1
 OS1: CBT
 OS2:
 OS3:
 OS4:
 OS5:
 REMARKS: RUN NUMBER 1
 THIS IS A PRIMARY DEPTH LOG

OTHER SERVICES 2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:
 REMARKS: RUN NUMBER 2



INJECTION
INTERVAL
8377' - 8409'
BELOW
LOGGED TOTAL
DEPTH



C-108 ITEM VII – PROPOSED OPERATION

The Big George No.3 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-611. 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 1675 psi (0.2 psi/ft) with a maximum rate of 10,000 bwpd. Average daily rate is expected to be 7500 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 - Big George State No.3 SWD

SOURCE ZONE

ARTESIA GROUP - TNSL-YTS-7RVRS

API No	3001502891	Lab ID	
Well Name	CAVE POOL UNIT 030	Sample ID	5128
		Sample No	
Location	ULSTR 04 17 S 29 E	Lat / Long	32.85900 -104.07829
	990 S 2310 E	County	Eddy
Operator (when sampled)			
	Field GRAYBURG JACKSON	Unit	O
Sample Date		Analysis Date	
	Sample Source TANK	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	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 - Big George State No.3 SWD

SOURCE ZONE

GRAYBURG-SAN ANDRES

API No	3001502873	Lab ID	
Well Name	GULF STATE	Sample ID	5366
	002	Sample No	
Location	ULSTR 03 17 S 29 E	Lat / Long	32.86987 -104.06746
	330 N 990 W	County	Eddy
Operator (when sampled)			
	Field SQUARE LAKE		Unit 4
Sample Date		Analysis Date	
	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	
Remarks			

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



C-108 Item VII.5 - Produced Water Data

Spur Energy Partners, LLC - Big George State No.3 SWD

SOURCE ZONE

YESO

API No	3001530307	Lab ID	
Well Name	SCHLEY FEDERAL 008	Sample ID	5901
		Sample No	
Location	ULSTR 29 17 S 29 E 1580 N 1650 W	Lat / Long	32.80836 -104.09972
		County	Eddy
Operator (when sampled)	MACK ENERGY		
	Field EMPIRE EAST	Unit	F
Sample Date	8/7/2000	Analysis Date	8/14/2000
	Sample Source	Depth (if known)	
	Water Typ		
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 - Big George State No.3 SWD

DISPOSAL ZONE

CISCO

API No.	3001500129	Lab ID	
Well Name	SPRINGS SWD 001	Sample ID	5353
		Sample No	
Location	ULSTR 04 21 S 25 E 660 N 830 E	Lat / Long	32.52054 -104.39423
		County	Eddy
Operator (when sampled)			
	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 Cisco Formation (Upper Penn) 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 600 to 650 feet in the area. The upper portion becomes very shaley and is not proposed for injection.

As evidenced by good injection rates into the well since 2005, the Cisco openhole interval in this well apparently offers some very good porosity, especially considering the relatively short interval.

The Cisco is overlain by the Wolf Camp 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.

There are NO water wells located within one mile of the proposed SWD.

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
 Big George State No.3 SWD
 Reviewed 4/12/2021

C-108 ITEM XI – WATER WELLS IN AOR

There are no fresh water wells within one mile of the proposed SWD.



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 1, 12, 13 **Township:** 17S **Range:** 28E

No PODs found.

PLSS Search:

Section(s): 6, 7, 18 **Township:** 17S **Range:** 29E

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

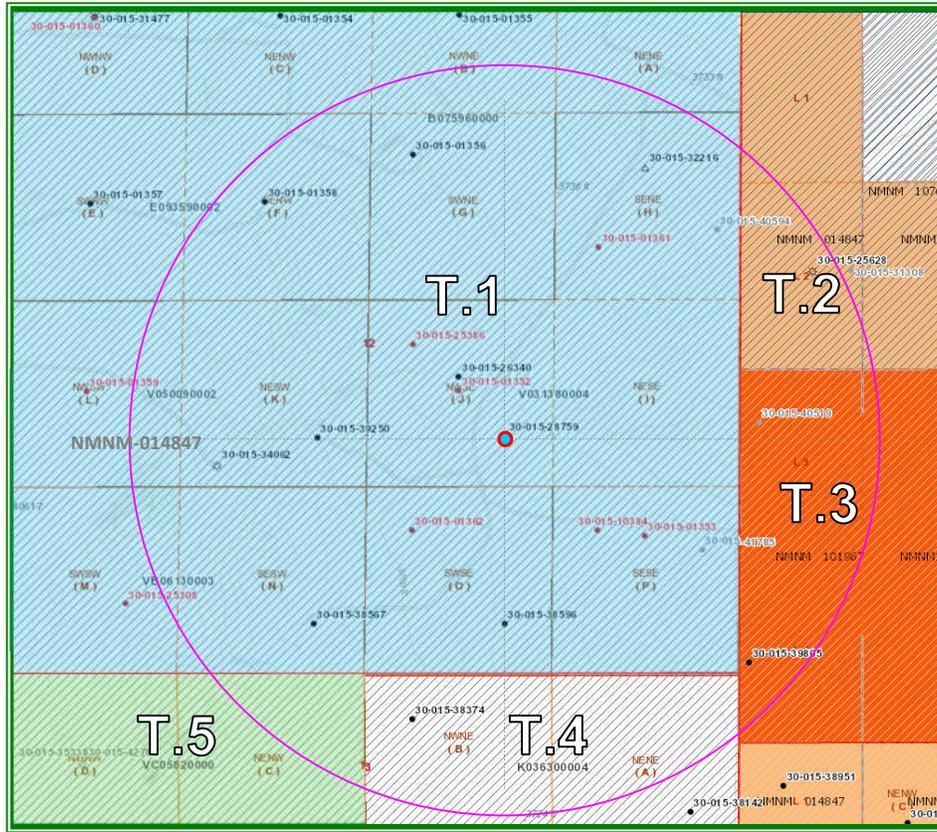
Proof of Certified Mailing

Proof of Return Receipts

Affidavit Published Legal Notice

Big George State No.3 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 – State Leases; Spur Energy Partners
- T.2 – BLM – NMNM-014847; ConocoPhillips
Mewbourne Oil Company (Op), Sellers & Fulton (Op)
- T.3 – BLM – NMNM-101967; Ray Westall Operating, Inc.
Spur Energy Partners (Op)
- T.4 – State – K0-3630-0004; Longfellow LH, LLC (L/Op)
- T.5 – State – VC-0582-0000; St. Devote, LLC



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

**ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL AND
A FULL PRINTED COPY OF THE SUBJECT C-108 APPLICATION 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 STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504
Certified: 7018 1130 0000 8738 2278

OFFSET OPERATORS (All Notified via USPS Certified Mail)

State Leases (T.1 on Map)

Lessee & Operator

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

BLM Lease NMNM-014847 (T.2 on Map)

Lessee

CONOCO PHILLIPS
P.O. Box 2197
Houston, TX 77252-2197

Operators

- 2 MEWBOURNE OIL COMPANY
P.O. Box 7698
Tyler, TX 75711
Certified: 7018 1130 0000 8738 2285
- 3 SELLERS & FULTON, LLC
422 W Main Suite 5
Artesia, NM 88210
Certified: 7018 1130 0000 8738 2292

State Lease K0-3630-0004 (T.4 on Map)

Lessee & Operator

- 4 LONGFELLOW ENERGY, LP
8115 Preston Rd., Suite 800
Dallas, Texas 75225
Certified: 7018 1130 0000 8738 2308

State Lease VC-0582-0000 (T.5 on Map)

- 5 ***Lessee***
ST. DEVOTE, LLC
PO Box 823085
Dallas, Texas 75382
Certified: 7018 1130 0000 8738 2315

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

OFFSET MINERALS OWNERS (Notified via USPS Certified Mail)

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

6 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 1130 0000 8738 2333

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 - BIG GEORGE
<https://www.dropbox.com/sh/kqn41hmgjxp9uru/ABppZXaomE479VeGXQkxsYma?dl=0>

USPS Certified Tracking:
7018 1130 0000 8738 2278,
7018 1130 0000 8738 2285,
7018 1130 0000 8738 2292,
7018 1130 0000 8738 2308,
7018 1130 0000 8738 2315,
7018 1130 0000 8738 2322,

C-108 – Item XIV

Proof of Notice - Certified Mail Receipts

7018 1130 0000 8738 2278

**U.S. Postal Service™
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Domestic Mail Only

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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
Total Postage and Fees	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 2019



5822 9828 8738 2285

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Extra Services & Fees (check box, add fee as appropriate)	
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<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
Total Postage and Fees	7.38

Sent To
Street and
City, State

MEWBOURNE OIL COMPANY
P.O. Box 7698
Tyler, TX 75711

PS Form 3800, October 2019



2692 9828 8738 2292

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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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
Total Postage and Fees	7.38

Sent To
Street and
City, State

SELLERS & FULTON, LLC
422 W Main Suite 5
Artesia, NM 88210

PS Form 3800, October 2019



C-108 - Item XIV

Proof of Notice - Certified Mail Receipts (cont.)

7018 1130 0000 8738 2315

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Certified Mail Fee	\$ 3.75
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	.58
Total Postage and Fees	7.38

Sent To
 Street and
 City, State

PS Form 3800, October 2015

Postmark Here
 COMO TX 75437
 APR 10 2022
 USPS

ST. DEVOTE, LLC
 PO Box 823085
 Dallas, Texas 75382

7018 1130 0000 8738 2308

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CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$ 3.75
Extra Services & Fees (check box, add fee as appropriate)	
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
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Postage	.58
Total Postage and Fees	7.38

Sent To
 Street and
 City, State

PS Form 3800, October 2015

Postmark Here
 COMO TX 75437
 APR 10 2022
 USPS

LONGFELLOW ENERGY, LP
 8115 Preston Rd., Suite 800
 Dallas, Texas 75225

7018 1130 0000 8738 2322

U.S. Postal Service™
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Domestic Mail Only

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Total Postage and Fees	7.38

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 Street and
 City, State

PS Form 3800, October 2015

Postmark Here
 COMO TX 75437
 APR 10 2022
 USPS

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

Affidavit of Publication

No. 26110

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	<u>April 21, 2022</u>
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this 21st day of April 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:

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 previously permitted well, Big George Well No.3 (API No.30-015-28759) located 1650 feet from the South line and 1650 feet from the East line (Unit J) of Section 12, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. Produced water from Spur's area production will be privately disposed (not open to commercial disposal) into the Cisco formation at depths between 8377' to 8409' at a maximum surface pressure of 1675 psi, maximum daily rate of 10,000 bwpd and an average rate of 7500 bwpd. The subject SWD well is located approximately 8.7 miles west/ northwest 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.

Published in the Artesia Daily Press, Artesia, N.M., April 21, 2022 Legal No. 26110.