

Initial Application Part I

Received 10/28/21

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

e-Permitting

C-108 Submittal

Attachment Category

C-108 - Main Form

PLEASE NOTE

The recent activation and requirement of C-108 submissions to OCD via its e-Permitting application contained in OCD Online has altered the usual order of categories and does not necessarily correspond to the classic Form C-108 ordering of topics.

Category Separation Pages are included however, the C-108 Item Pages may also be included as they have long been a part of the assembly process.

The resulting application package is a less than appealing compilation of required parts and pieces as shown below in the online structure.

Description		Required to		Note
Tag	Attachment Type	Submit	Approve	
C-108	Main Form	True	True	
C-102	C-102	True	True	
Wellbore Diagram	Wellbore Diagram	True	True	
Proof of Notice	Proof of Notice	True	True	
AOR Analysis	Area Of Review Analysis	True	True	
Tabulation of Wells	Tabulation of wells in Area Of Review	True	True	* Including diagrams for penetrating wells
Fluid Analysis	Injectate and Formation Fluid Analysis	True	True	
Seismicity Analysis	Seismicity Analysis	True	True	* For high volume Devonian wells , especially near faults
Operational Details	Operational Details	True	True	

RECEIVED: 10/28/21	REVIEWER:	TYPE: SWD	APP NO: pBL2130232329
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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: Muskegon 16 State SWD No.1 **API:** 30-015-27108
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

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD**SWD-2463**

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 holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐

Notice Complete

☐Application
Content
Complete

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

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

Ben Stone

Print or Type Name

Signature

10/27/2021

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



October 27, 2021

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 Muskegon 16 State Well No.1 SWD, located in Section 16, 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 Muskegon 16 State No.1. The well was previously authorized by another operator for salt water disposal by division order SWD-624. 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 October 21, 2021, 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,

A handwritten signature in blue ink, appearing to read "Ben Stone".

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. ***(2 AOR wells penetrate the subject interval – 1 P&A'd.)*** 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 7500 gals 15% HCl.***
- *X. ***There is no applicable test data on the well however, any previous well logs have been filed with the Division and they need not be resubmitted. An offsetting well log strip of subject interval 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 is 1 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: ***10/27/2021***

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

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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.

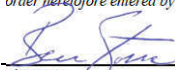
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

e-Permitting

C-108 Submittal

Attachment Category

C-102

16				<p>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> 10/13/2021</p> <p>Signature Date</p> <p>Ben Stone</p> <p>Printed Name</p> <p>ben@sosconsulting.us</p> <p>E-mail Address</p>
				<p>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>August 19, 1992</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
				<p>Richard B. Duniven</p> <p>4882</p> <p>Certificate Number</p>

e-Permitting

C-108 Submittal

Attachment Category

Wellbore Diagram

C-108 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram – PROPOSED

Item IV – Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile radius.
2 wells penetrate the proposed injection interval - 1 is plugged back and 1 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.



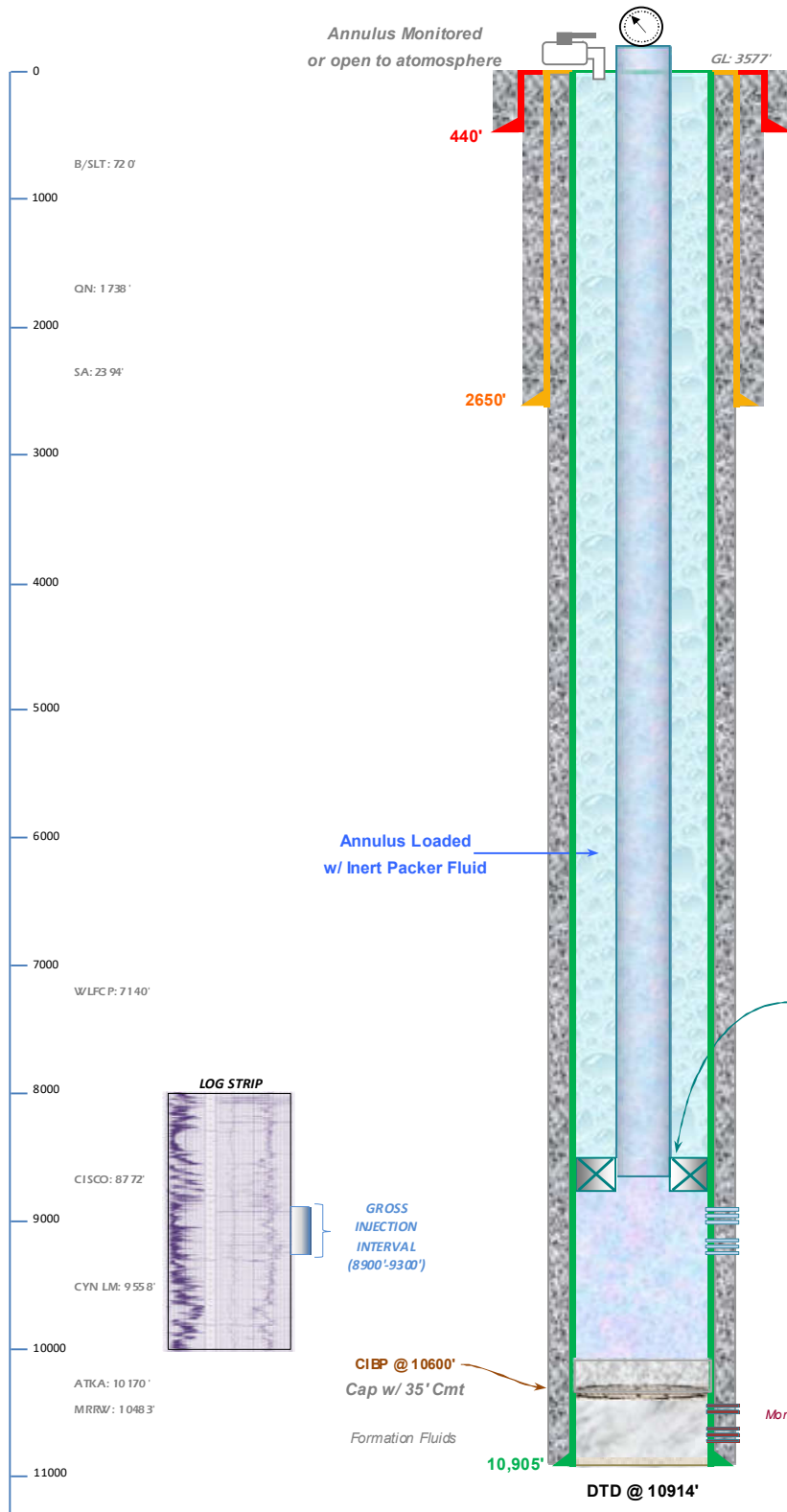
WELL SCHEMATIC - PROPOSED Muskegon 16 State Well No.1 SWD

API 30-015-27108

660' FSL & 1980' FWL, SEC. 16-T17S-R29E
EDDY COUNTY, NEW MEXICO

SWD; Cisco (96099)

Spud Date: 10/04/1992
Config SWD Dt (Est): ~1/15/2022



Injection Pressure Regulated
and Volumes Reported
1780 psi Max. Surface (0.2 psi/ft)

Surface Casing

13.375", 48.0/ 54.5# H-40/ J-55 STC Csg. (17.5" Hole) @ 440'
500 sx - Circulated to Surface

Intermediate Casing

9.625", 40.0# J-55 Csg. (12.25" Hole) @ 2650'
1100 sx - Circulated to Surface

SPUR ENERGY PARTNERS, LLC

Reinstate SWD Status:

Spot / Dump 35' Cement on Existing CIBP.
Perforate Additional Specific Intervals TBD
between 8900' and 9300'.
Acidize w/ ~7500 gals 15% HCl
Run PC Tubing and PKR - Conduct Witnessed MIT.
Commence Disposal Operations.

3.5" IC Tubing (or smaller)

PKR ~8800'

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

Cisco Perfs - may shoot additional within permitted interval.

Specific Additional Perf Intervals To Be Determined

Between Max Top 8900' and Max Bottom 9300'

Current Intervals: 8914-18', 8924-34', 8943-47', 8978-82', 9030-32', 9180-91' and 9217-31'.

Production Casing

5.5", 15.5/17.0# J-55/ K-55 Csg. (8.75" Hole) @ 10,905';
DV @ 8800'w/ 1st 730 sx; 2nd 1870 sx - Circulated to Surface

Morrow test perfs: 10,645'-10,812'

Drawn by: Ben Stone, 10/26/2021



e-Permitting

C-108 Submittal

Attachment Category

Operational Details

C-108 ITEM VII – PROPOSED OPERATION

The Muskegon 16 State No.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-624. 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 1780 psi (0.2 psi/ft) with and maximum rate of 7500 bwpd. Average daily rate is expected to be 5000 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.

C-108 ITEM VII – PROPOSED OPERATION

Operations – Aerial View

This view shows a portion of Spur Energy Partners operated wells that will be serviced by the Muskegon 16 State #1 SWD.



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 appropriately lined berm area to contain 150% of the largest tank volume.



e-Permitting

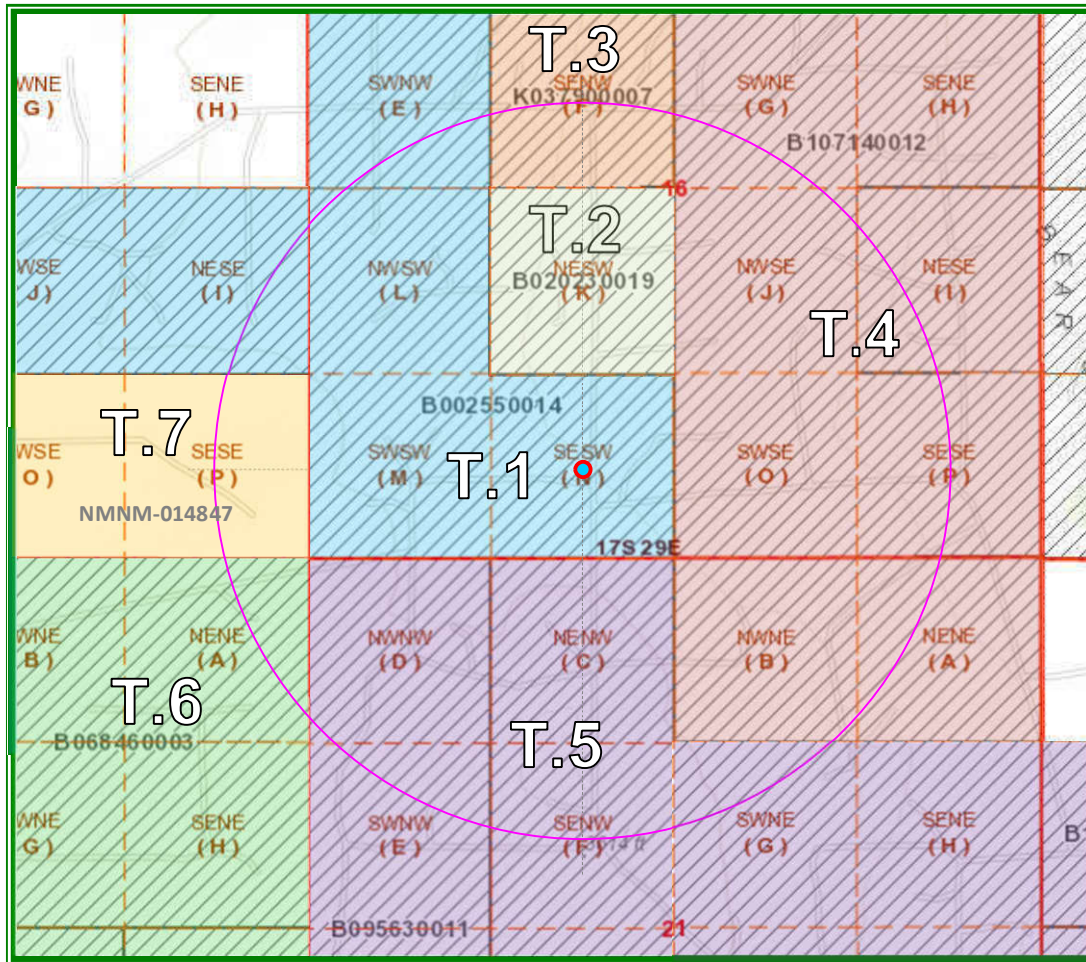
C-108 Submittal

Attachment Category

Proof of Notice

Muskegon 16 State No.1 SWD- Affected Parties Plat

(Attachment to NMOCD Form C-I 08, Application for Authority to Inject.)



LEGEND

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

- T.1 – State – B0-0255-0014; Spur Energy Partners
- T.2 – State – B0-2023-0019; Spur Energy Partners
- T.3 – State – K0-3790-0007; Spur Energy Partners
- T.4 – State – B1-0714-0012; Spur Energy Partners
- T.5 – State – B0-9563-0011; Spur Energy Partners
- T.6 – State – B0-6846-0003; Longfellow Energy, LP
- T.7 – BLM – NMNM-014847; Longfellow Energy, LP

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 2290 0001 2038 7275

OFFSET OPERATORS (All Notified via USPS Certified Mail)

**State Leases B0-0255-0014, B0-2023-0019, KO-3790-0007, B1-0714-0012, B0-9563-0011
and B0-6846-0003 (T.1-T.6 on Map)**

Operator

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

BLM Lease NMNM-014847 (T.7 on Map)

Operator

- 2 LONGFELLOW ENERGY, LP
8115 Preston Rd., Suite 800
Dallas, Texas 75225
Certified: 7018 2290 0001 2038 7268

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

- 3 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 2290 0001 2038 7251

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION
1220 S. St. Francis Dr.
Santa Fe, NM 87505
FILED VIA OCD ONLINE E-PERMITTING

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

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



October 20, 2021

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 Muskegon 16 State Well No.1. 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 16, Township 17 South, Range 29 East in Eddy County, New Mexico.

The published notice states that the interval will be from 8,900 feet to 9,300 feet into the Cisco formation.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about October 21, 2021.

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 subject well, the Muskegon 16 State SWD No.1, is located 660' FSL and 1980' FWL, (UL 'N') Section 16, Township 17 South, Range 29 East, 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 of 8900' to 9300' at a maximum surface pressure of 1780 psi, maximum daily rate of 7500 bwpd and an average rate of 5000 bwpd. The subject SWD well is located approximately 6.1 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.

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

You are entitled to a full copy of the application. A full printed copy will be sent via FedEx when the C-108 is completed in a few days.

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 2290 0001 2038 7275

U.S. Postal Service™
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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	\$
Total Postage and Fees	\$

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 Street and _____
 City, State _____
 PS Form _____ Instructions _____

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

Postmark Here

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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	\$
Total Postage and Fees	\$

Sent To _____
 Street and _____
 City, State _____
 PS Form _____ Instructions _____

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

Postmark Here

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U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at 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	\$
Total Postage and Fees	\$

Sent To _____
 Street and _____
 City, State _____
 PS Form _____ Instructions _____

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

Postmark Here

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Track Packages
Anytime, Anywhere

Get the free Informed Delivery® feature to receive automated notifications on your packages

Learn More

(https://reg.usps.com/xsell?app=UspsTools&ref=homepageBanner&appURL=https%3A%2F%2Finformedelivery.usps.com/box/pages/intro/start.action)

State Land Office

Tracking Number: 70182290000120387275

Remove X

Your item was picked up at a postal facility at 6:32 am on October 25, 2021 in SANTA FE, NM 87501.

✓ Delivered, Individual Picked Up at Postal Facility

October 25, 2021 at 6:32 am
SANTA FE, NM 87501

Get Updates ▾

Text & Email Updates	▾
Tracking History	▾
Product Information	▾

See Less ^

Longfellow Energy, LP

Tracking Number: 70182290000120387268

Remove X

Your item was delivered to an individual at the address at 12:45 pm on October 22, 2021 in DALLAS, TX 75225.

✓ Delivered, Left with Individual

October 22, 2021 at 12:45 pm
DALLAS, TX 75225

Get Updates ▾

See More ▾

Bureau of Land Management - CFO

Tracking Number: 70182290000120387251

Remove X

We attempted to deliver your package at 1:44 pm on October 23, 2021 in CARLSBAD, NM 88220 but could not access the delivery location. We will redeliver on the next business day.

Delivery Attempted - No Access to Delivery Location

October 23, 2021 at 1:44 pm
CARLSBAD, NM 88220

Get Updates ▾

See More ▾

Can't find what you're looking for?

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

Affidavit of Publication

No. 25908

State of New Mexico

Publisher

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 October 21, 2021

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

Seventh Publication _____

Subscribed and sworn before me this

21st day of October 2021



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2023

Latisha Romine

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 subject well, the Muskegon 16 State SWD No.1, is located 660' FSL and 1980' FWL, (UL 'N') Section 16, Township 17 South, Range 29 East, 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 of 8900' to 9300' at a maximum surface pressure of 1780 psi, maximum daily rate of 7500 bwpd and an average rate of 5000 bwpd. The subject SWD well is located approximately 6.1 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.

Published in the Artesia Daily Press, Artesia, N.M., Oct. 21, 2021 Legal No. 25908.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

Muskegon

2. Article Number
(Transfer)

7018 2290 0001 2038 7251

PS Form 3811, February 2004

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

Lorraine Ortiz

C. Date of Delivery

10/25/97

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☐ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

102595-02-M-1540

e-Permitting

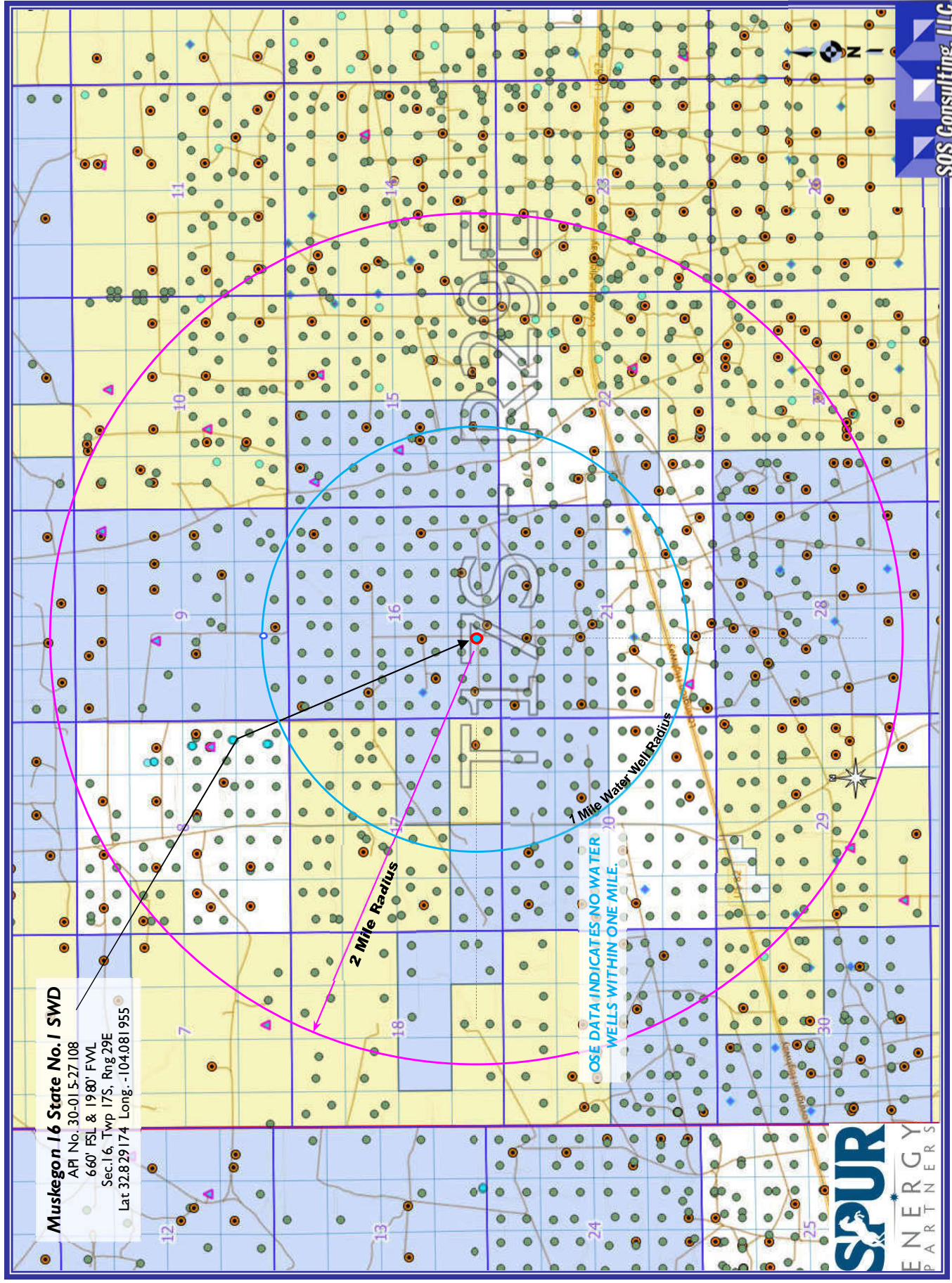
C-108 Submittal

Attachment Category

AOR Analysis

Muskegon 16 State No.1 SWD - Area of Review / 2 Miles

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



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

Muskegon: I6 State Well No.1
 API No. 30-015-27108
 660' FSL & 1980' FWL
 Sec.16, Twp 17S, Rng 29 E
 Lat. 32.829174 Long. -104.081955



Eddy County, New Mexico

C-108 ITEM X – LOGS and AVAILABLE TEST DATA

A log strip from the Muskegon 17 Federal Com Well No.2,
API No.30-015-34283,
located in P-17-17S-29E is attached.

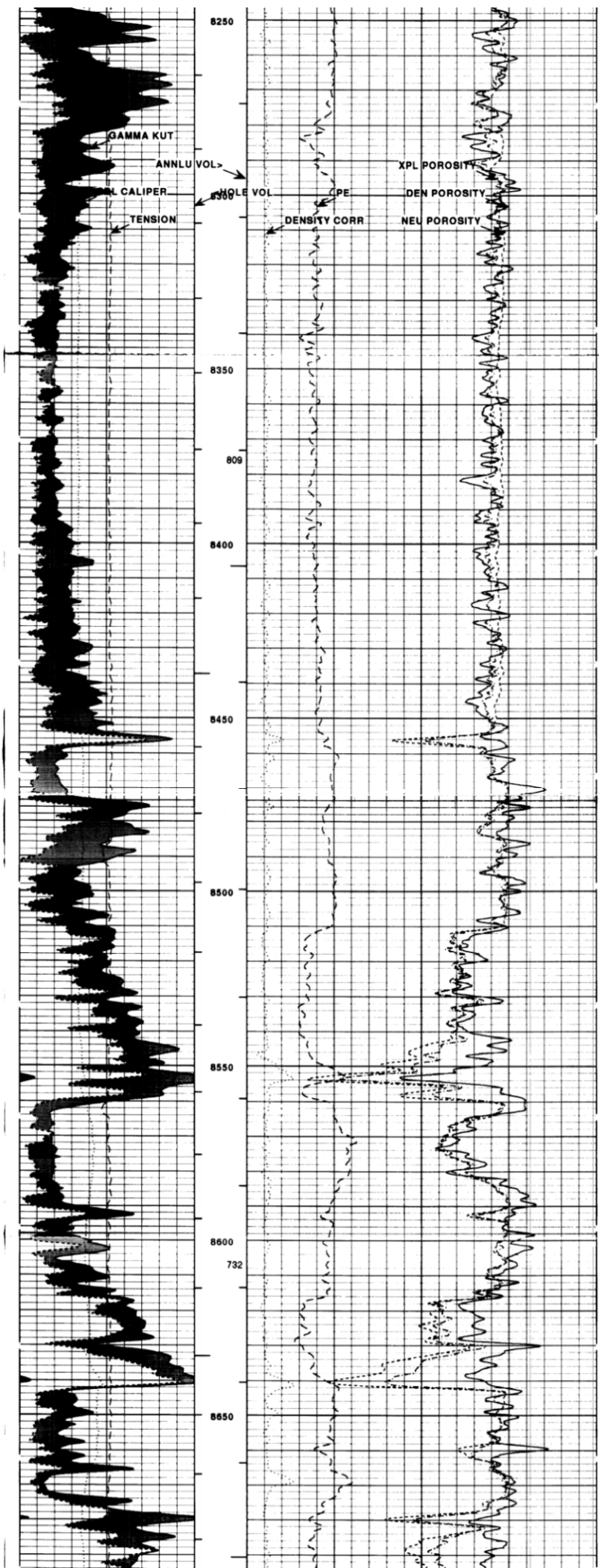
This well is approximately 0.5 miles west of the proposed SWD
and shows the interval of interest, above and below.

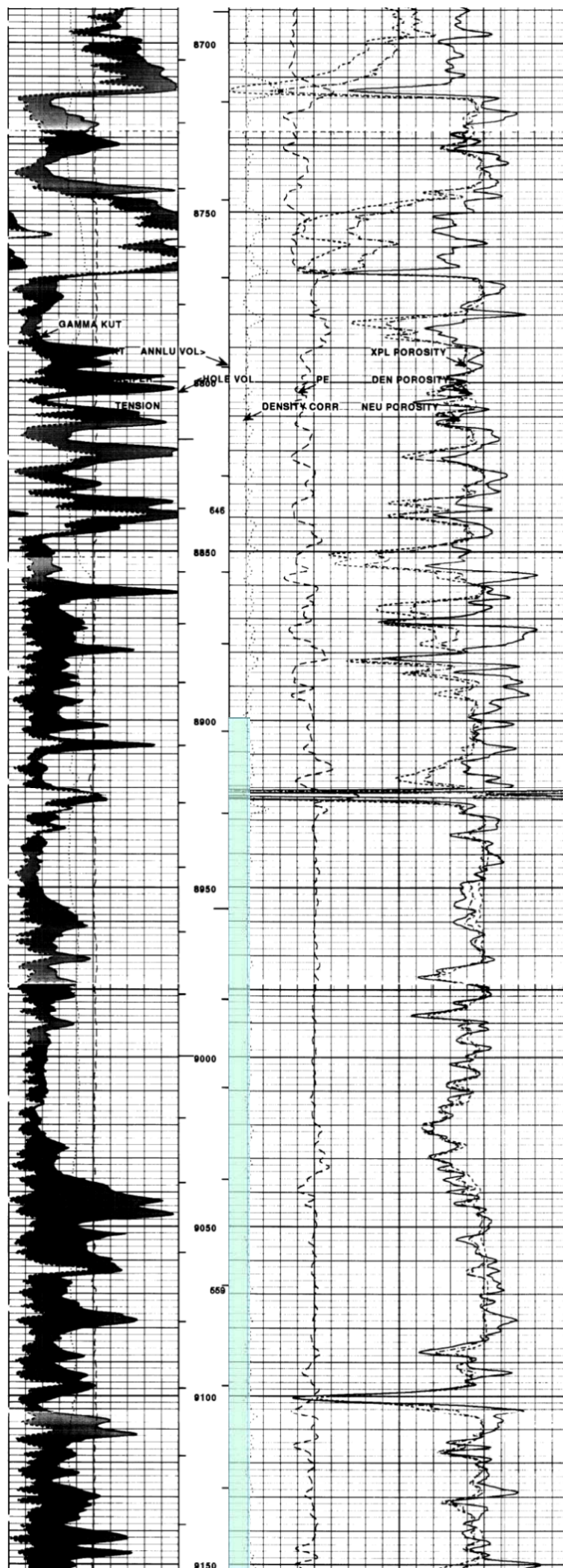
LOG STRIP FOLLOWS

HALLIBURTON SPECTRAL DENSITY DUAL-SPACED NEUTRON SPECTRAL GAMMA RAY		COMPANY: CUMEX ENERGY COMPANY OF CO. OKLAHO WELL: MUSKEGON 17 FEDERAL COM No. 2 FIELD: EMPIRE, MORROW, SOUTH COUNTY: EDDY STATE NM COMPANY: CUMEX ENERGY COMPANY OF CO. OKLAHO WELL: MUSKEGON 17 FEDERAL COM No. 2 FIELD: EMPIRE, MORROW, SOUTH COUNTY: EDDY STATE NM	
Date: 25-APR-2008 Run No: 10818 Depth - Driller: 10800 Depth - Logger: 10800 Bottom - Logger: 10800 Top - Logger: 10800 Casing - Driller: 8.000 @ 45.5 Casing - Logger: 8.000 BR Size: 8.75 Type Fluid in Hole: BRINE/FOULY Dens. Visc: 10.7 @ 40 Pm Fluid Loss: 9.5 @ 8.4 Pm Fluid Loss: 0.06 @ 75 F Pm @ Meas. Temp: 0.048 @ 75 F Pm @ Meas. Temp: 0.070 @ 75 F Pm @ Meas. Temp: 0.070 @ 75 F Source Fluid / Pm: MEAS / MEAS Pm @ BHT: 0.026 @ 168 F Time on Station: 12:00 4-25 Meter / Pm Temp: 21.48 4-25 Meter / Pm Temp: 18.1 F @ TD Equip / Location: 582 / HOBBS Recorder By: K. AUSSENKOWICZ Witnessed By: M. CATALANO		Log measured from: KELLY BUSHING Permanent Datum: GROUND LEVEL Elev: 3602 Log measured from: K.B. 19 above perm datum Elev: 3621 D.F.: 3620 D.F.: 3620 Other Services: DLT / MGRD / LMS API No: 30-015-34283 Location: 6607 FSL AND 6607 FEL	

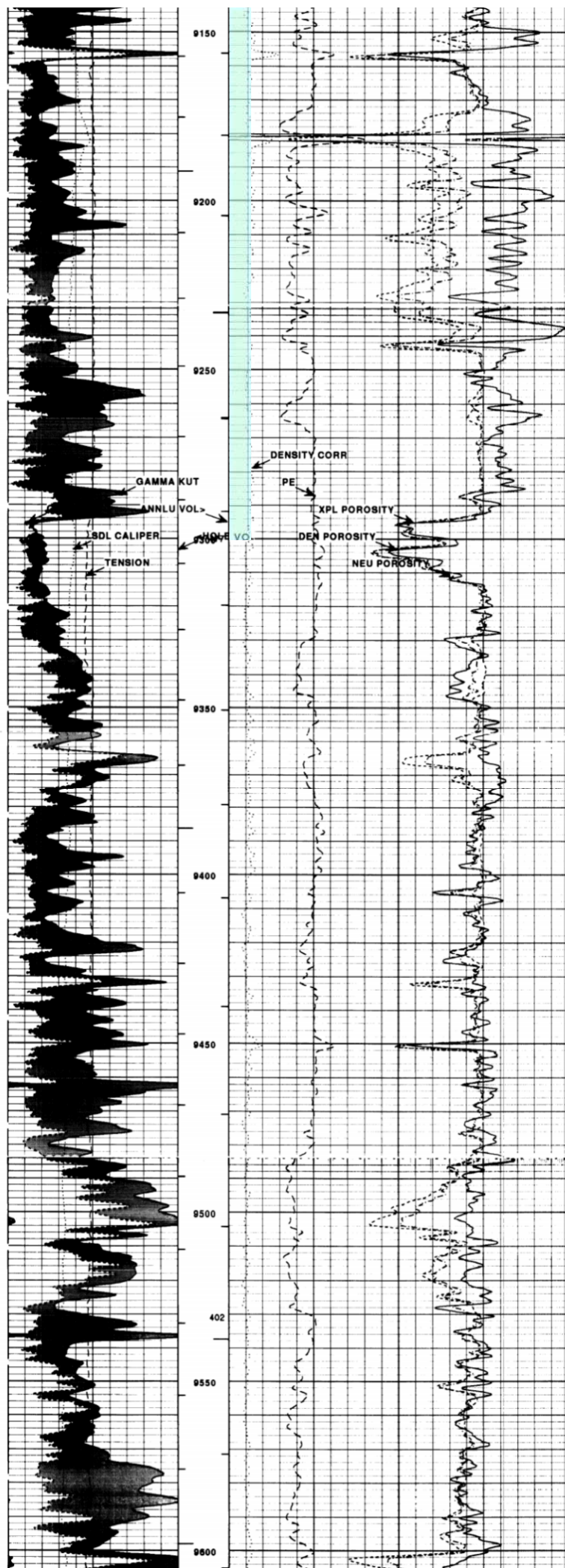
Service Ticket No: 4355754		API Serial No: 30-015-34283		PGM Version:	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES					
Date / Sample No.		Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth - Driller					
Type Fluid					
In Hole					
Dens / Visc					
Ph / Fluid Loss					
Source of Sample					
RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp	0.056 @ 75 F	Run No	Tool Type & No	Pad Type	Tool Pos
Rmf @ Meas. Temp	0.048 @ 75 F				
Rmc @ Meas. Temp	0.070 @ 75 F				
Source Rmf / Rmc	CALC / CALC				
Rm @ BHT	0.026 @ 168 F				
Rmf @ BHT	0.022 @ 168 F				
Rmc @ BHT	0.033 @ 168 F				
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
Run No	ONE	Run No	ONE	Run No	ONE
Serial No	A009YL	Serial No	AD52GRN	Serial No	A042GRN
Model No	CSNG_DT	Model No	SDL_DA	Model No	DSN_II
Diameter	3.625"	No. of Cant		Diameter	3.625"
Detector Model No	T102-A	Spacing		Log Type	GAM-GAM
Type	SCINT	Source Type	Cs 137	Source Type	Am241Be
Length	12"	Serial No	2549GW	Serial No	DSN-90
Distance to Source	11"	FWDA [Y / N]		Strength	1.5 Ci
LOGGING DATA					
GENERAL		GAMMA		ACOUSTIC	
Run	Depth	Speed	Scale	Scale	Scale
No	From To	Ft / Min	L R	L R	L R
ONE	10808 200	REC	0 100		30% -10% 2.71
DIRECTIONAL INFORMATION					
Maximum Deviation: Log @ KOP					
LAT: 32 DEG 49 MIN NORTH, LONG: 104 DEG 5 MIN WEST					
Remarks:					
TOOLSTRING: RWCH/BRID_R/D4TS/NGRT/CSNG_DT/DSN_II/SDL_DA/FLEX/DLLT/MGRD/CENT					
ANNULAR HOLE VOLUME CALCULATED FOR 5.5" CASING.					
FORMERLY GRUY PETROLEUM MANAGEMENT COMPANY.					
POST CALIBRATIONS NOT PERFORMED PER CUSTOMER REQUEST.					
BARITE IN MUD (AFFECTS PE AND DENSITY CORRECTION).					
HALLIBURTON DEPTH CONTROL PROCEDURES FOLLOWED.					
FM: 249.2 LM: 10870.9					
HES CREW: J. VASQUEZ, L. BROWER, K. SCHELLER					
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES. 1-800-844-8451 (HOBBS,NM)					
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA. CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL, OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM, ARE THE USER OF SUCH DATA INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.					

MAIN PASS 2" = 100'			
Version No: 5.7 hc:3.0 Data File: 0428_1738_g2701.4.ele Format File: plot_01_2.spc Plot Time: 2008-04-28 03:20:42 Log Time: 2008-04-28 22:59:58			
HALLIBURTON		Top Depth: 184.76 Bottom Depth: 10817.50	
GAMMA RAY GAMMA API TENSION POUNDS SDL CALIPER INCHES NEAR QUALITY FAR QUALITY	ANNUL VOL TIC=10FT3 MOLE VOL TIC=10FT3 1-500 FT.	NEU POROSITY % MTX=LIME BULK DENSITY G/CC PE CORR DENSITY CORR G/CC	-10 3 4.5 0.8
200			

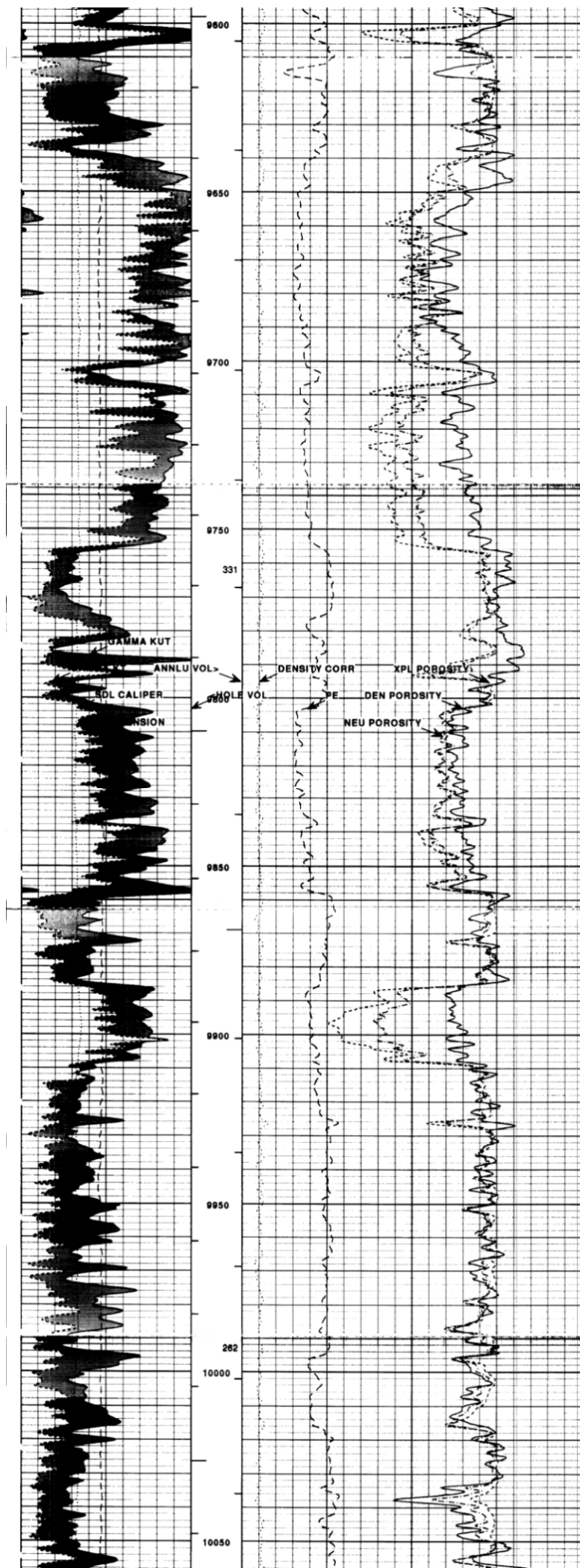




TOP
Proposed
Interval



BOTTOM
Proposed
Interval



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.

The Cisco interval offers some good porosity in the proposed injection interval located from 8900 feet to 9300 feet with some very good porosity interspersed throughout the overall interval.

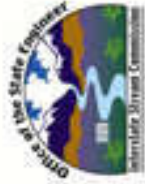
The Cisco is overlain by the Wolf Camp and then Bone Spring and underlain by the Strawn and Atoka.

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]; 7Rvs-Qn-GB-Glorieta-Yeso Pool, Pool ID 97558 and from the Granbury Jackson; SR-Q-G-SA Pool, Pool ID 28509.

Deeper tests into the Morrow and other formations did not result in economic wells. Of two deeper wells in the AOR, one has been plugged back and recompleted to the abovementioned pool and the other is P&A'd.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

PLSS Search:

Section(s): 16, 17, 20, 21

Township: 17S

Range: 29E

No PODs found.



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
RA 11807 POD1	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

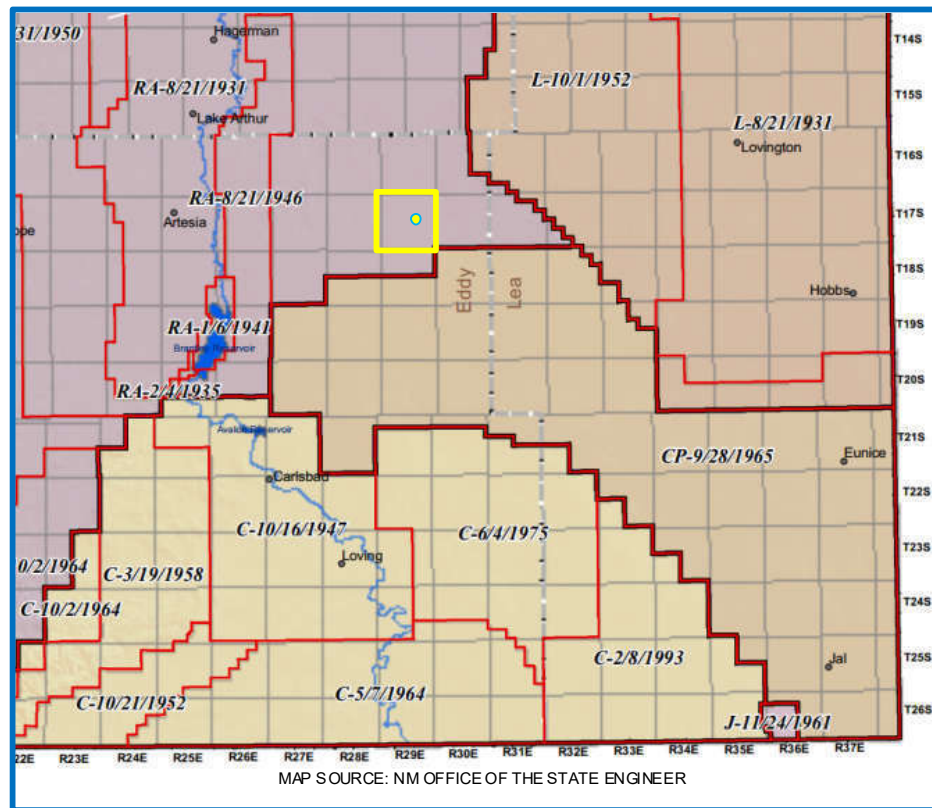
PLSS Search:

Township: 17S

Range: 29E

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 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
 Muskegon 16 State No.1 SWD
 Reviewed 10/22/2021

e-Permitting

C-108 Submittal

Attachment Category

Tabulation of Wells in AOR

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed DSCO Interval 8900'

2 Wells Penetrate Proposed Interval.

API No.	Current Operator	Well Name	Well Number	Type	Lease	Status	ULSTR	Depth	Plugged On
Subject Well									
30-015-27108	[328947] Spur Energy Partners LLC	MUSKEGON 16 STATE COM	#001	SWD	State	Active	N -16-17S-29E	10905'	

Section 16 Wells

30-015-36993	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#219	Oil	State	Active	E -16-17S-29E	5501'	
30-015-36392	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#200	Oil	State	Active	F -16-17S-29E	5462'	
30-015-37671	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#305	Oil	State	Active	F -16-17S-29E	5576'	
30-015-36701	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#222	Oil	State	Active	G -16-17S-29E	5454'	
30-015-35718	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#166	Oil	State	Active	I -16-17S-29E	5459'	
30-015-35651	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#161	Oil	State	Active	J -16-17S-29E	5640'	
30-015-36242	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#196	Oil	State	Active	J -16-17S-29E	5463'	
30-015-37177	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#230	Oil	State	Active	J -16-17S-29E	5506'	
30-015-37567	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#231	Oil	State	Active	J -16-17S-29E	5565'	
30-015-20110	[13837] MACKENERGY CORP	G J WEST COOP UNIT	#057	Oil	State	P&A-R	K -16-17S-29E	3100'	4/9/2001
30-015-35652	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#162	Oil	State	Active	K -16-17S-29E	5470'	
30-015-36240	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#195	Oil	State	Active	K -16-17S-29E	5456'	
30-015-37230	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#232	Oil	State	Active	K -16-17S-29E	5520'	
30-015-37566	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#233	Oil	State	Active	K -16-17S-29E	5567'	
30-015-20199	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#058	Injection	State	Active	L -16-17S-29E	2600'	
30-015-36052	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#181	Oil	State	Active	L -16-17S-29E	5454'	
30-015-36228	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#189	Oil	State	Active	L -16-17S-29E	5446'	
30-015-37565	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#234	Oil	State	Active	L -16-17S-29E	5588'	
30-015-40265	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#325	Oil	State	Active	L -16-17S-29E	5724'	
30-015-20126	[13837] MACKENERGY CORP	G J WEST COOP UNIT	#049	Oil	State	P&A-R	M -16-17S-29E	2900'	8/3/2000
30-015-35576	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#154	Oil	State	Active	M -16-17S-29E	5600'	
30-015-35986	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#179	Oil	State	Active	M -16-17S-29E	5494'	
30-015-37564	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#235	Oil	State	Active	M -16-17S-29E	5522'	
30-015-36938	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#236	Oil	State	Active	M -16-17S-29E	5500'	
30-015-02997	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	State	P&A-R	N -16-17S-29E	3053'	9/28/1940
30-015-35719	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#167	Oil	State	Active	N -16-17S-29E	5506'	
30-015-36309	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#198	Oil	State	Active	N -16-17S-29E	5476'	
30-015-36994	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#237	Oil	State	Active	N -16-17S-29E	5500'	
30-015-36937	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#238	Oil	State	Active	N -16-17S-29E	5505'	
30-015-35987	[229137] COG OPERATING LLC	G J WEST COOP UNIT	#180	Oil	State	P&A-R	O -16-17S-29E	331'	3/12/2008
30-015-10831	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#051	Oil	State	Active	O -16-17S-29E	2700'	
30-015-35236	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#146	Oil	State	Active	O -16-17S-29E	5515'	
30-015-36239	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#180Y	Oil	State	Active	O -16-17S-29E	5450'	
30-015-37563	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#239	Oil	State	Active	O -16-17S-29E	5588'	
30-015-36936	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#243	Oil	State	Active	O -16-17S-29E	5500'	
30-015-02996	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#052	Oil	State	Active	P -16-17S-29E	10967'	2900' PBTD

Well drilled as Morrow test; P&A'd 10/02/1959; Reentered 6/11/1966; C/O to 2900'; 5.5" csg set 2899' w/ 400' ss; TDC 1340' Temp; Perf 2598'-2748' San Andres; acidize & frac; well on pump; "I bopd, last prod. Rpt. July 2021



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

Section 17 Wells

30-015-36308	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#199	Oil	State	Active	P -16-17S-29E	5475'
30-015-37562	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#240	Oil	State	Active	P -16-17S-29E	5545'
30-015-38091	[328947] Spur Energy Partners LLC	FOLK STATE	#008	Oil	State	Active	I -17-17S-29E	5128'
30-015-34283	[162683] CIMAREX ENERGY CO. OF COLORADO	MUSKEGON 17 FEDERAL COM	#002	Gas	Federal	P &A-R	P -17-17S-29E	10915'
								<i>See attached P&A Diagram</i>
30-015-31446	[372210] LONGFELLOW ENERGY, LP	PHILLIPS 17 FEDERAL	#003	Oil	Federal	Active	P -17-17S-29E	4427'

Section 20 Wells

30-015-33069	[372210] LONGFELLOW ENERGY, LP	STATE 20 B	#014	Oil	State	Active	A -20-17S-29E	4327'
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Section 21 Wells

30-015-37534	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#244	Oil	State	Active	A -21-17S-29E	5530'
30-015-10811	[229137] COG OPERATING LLC	G J WEST COOP UNIT	#046	Oil	State	P &A-R	B -21-17S-29E	2900'
30-015-35720	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#168	Oil	State	Active	B -21-17S-29E	5445'
30-015-36055	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#183	Oil	State	Active	B -21-17S-29E	5450'
30-015-37553	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#246	Oil	State	Active	B -21-17S-29E	5537'
30-015-37231	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#247	Oil	State	Active	B -21-17S-29E	5520'
30-015-10822	[229137] COG OPERATING LLC	G J WEST COOP UNIT	#047	Injection	State	P &A-R	C -21-17S-29E	2720'
30-015-27362	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#117	Oil	State	Active	C -21-17S-29E	4920'
30-015-27363	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#118	Oil	State	Active	C -21-17S-29E	4410'
30-015-37150	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#249	Oil	State	Active	C -21-17S-29E	5504'
30-015-37863	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#308	Oil	State	Active	C -21-17S-29E	5522'
30-015-20124	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#048	Oil	State	Active	D -21-17S-29E	4225'
30-015-27360	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#115	Oil	State	Active	D -21-17S-29E	4758'
30-015-35456	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#152	Oil	State	Active	D -21-17S-29E	5515'
30-015-37436	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#250	Oil	State	Active	D -21-17S-29E	5545'
30-015-36700	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#251	Oil	State	Active	E -21-17S-29E	5459'
30-015-10821	[13837] MACK ENERGY CORP	G J WEST COOP UNIT	#036	Oil	State	P &A-R	F -21-17S-29E	2900'
30-015-27364	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#119	Oil	State	Active	F -21-17S-29E	4400'
30-015-27447	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#120	Oil	State	Active	F -21-17S-29E	4417'
30-015-35579	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#157	Oil	State	Active	F -21-17S-29E	6116'
30-015-37772	[328947] Spur Energy Partners LLC	G J WEST COOP UNIT	#306	Oil	State	Active	G -21-17S-29E	5605'

SUMMARY: Total AOR contains 63 wells with 8 P &A; 2 wells penetrate proposed disposal interval - 1 P &A'd.

C-108 ITEM VI

AOR Well Information

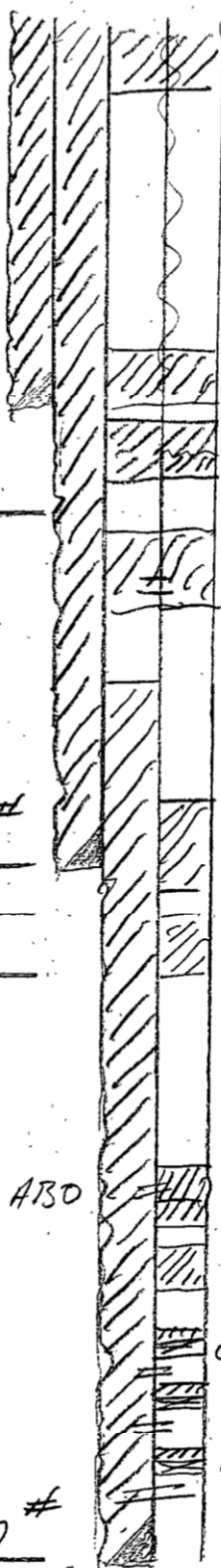
Plugged Well Schematics

There is 1 P&A'd Well and 1 Well Plugged Back
and Recompleted Within the AOR Which
Penetrate the Proposed Injection Zone.

Both Well Schematics follows this page...

HOLE SIZE 17.5"H-40
CASING SIZE 13 3/8 48"
TD 254HOLE SIZE 12 1/4"

TDC 3769

J-55
CASING SIZE 9 5/8 40"
TD 4515
HOLE SIZE 8 3/4"P-110
CASING SIZE 5 1/2 17"
TD 10915SALT SECTIONS TOP 405
BASE 990
RIIP

CAVE / KARST

SPEC. WATER

TDC SURF
INT
PROD

FORMATIONS	Yates	895
SA	2205	
Gloria	5325	
ABO	7040	
WC	7240	
ST	9908	
AT	10110	
MR	10500	
MISS	10740	

6990 WOC Tag (ALO & WC Tops)
7290 300' plug
4800
10000 200' plug
CIBA + 35' cement @ 10180
CIBA 10320 + 35' cement
CIBA 10500 + 35' cement
DVT

PERFORATIONS 10545-10597
10350-10435
10222-10226
7040-7238

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

MAY 12 2009

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5 Lease Serial No. NM 14847
2 Name of Operator CIMAREX ENERGY CO. OF COLORADO ATTN: ZENO FARRIS		6 If Indian, Allottee or Tribe Name
3a. Address 5215 N. O'CONNOR BLVD., STE. 1500, IRVING, TX 75039	3b. Phone No. (include area code) 972.443.6489	7 If Unit or CA/Agreement, Name and/or No
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) UNIT LETTER P 660' FSL & 660' FEL SECTION 17, T-17S, R-29E		8. Well Name and No MUSKEGON 17 #2 FEDERAL COM.
		9 API Well No. 30-015-34283
		10. Field and Pool, or Exploratory Area EMPIRE; ABO
		11. County or Parish, State EDDY NM

12 CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

04/01-07/09: FISH & LAY DOWN 1,074' 5-1/2" CASING IN PIECES.

04/08/09: RIH W/ TUBING & STACKED OUT @ 9,755' - OK'D BY BLM FIELD AGENT TO PUMP BTM. PLUG THERE; MIX & PUMP A 30 SX. CMT. PLUG @ 9,755'; WOC & TAG TOP OF CMT. PLUG @ 9,393'; CIRC. WELL W/ PXA MUD.

04/10/09: MIX & PUMP A 40 SX. CMT. PLUG @ 7,290'; WOC & TAG TOP OF CMT. PLUG @ 7,101'.

04/13/09: MIX & PUMP A 25 SX. CMT. PLUG @ 7,101'; WOC & TAG TOP OF CMT. PLUG @ 7,101'.

04/14/09: MIX & PUMP A 50 SX. CMT. PLUG @ 7,101'; WOC & TAG TOP OF CMT. PLUG @ 6,778'.

04/15/09: MIX & PUMP A 25 SX. CMT. PLUG @ 5,425'-5,225' (CALC.); MIX & PUMP A 35 SX. CMT. PLUG @ 4,615'; WOC & TAG TOP OF CMT. PLUG @ 3,518'.

04/16/09: MIX & PUMP A 25 SX. CMT. 2,305'; WOC & TAG TOP OF CMT. PLUG @ 2,195'.

04/17/09: MIX & PUMP A 25 SX. CMT. PLUG @ 2,195'; WOC & TAG CMT. PLUG @ 2,140'.

04/20/09: MIX & PUMP A 25 SX. CMT. PLUG @ 2,140'-1,940' (CALC.); MIX & PUMP A 75 SX. CMT. PLUG @ 1,130'; WOC & TAG CMT. PLUG @ 918'; MIX & PUMP A 60 SX. CMT. PLUG @ 320'; WOC & TAG CMT. PLUG @ 225'.

04/21/09: MIX & CIRC. TO SURFACE A 95 SX. CMT. PLUG @ 225'-3'; DIG OUT & CUT OFF WELLHEAD 3' B.G.L. & WELD ON STEEL PLATE & DRY HOLE MARKER.

Approved as to plugging of the well bore.
Liability under bond is retained until
Surface restoration is completed.

14. I hereby certify that the foregoing is true and correct.
Name (Printed/Typed)

DAVID A. EYLER david.eyler@milagro-res.com

Title

AGENT

Date 04/30/09

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

MAY 8 2009

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

Office

JAMES A. AMOS
SUPERVISOR-EPS

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

PLUGGED-BACK WELL SCHEMATIC

GJ West Coop Unit #52

(Formerly Leonard State No.3)

API 30-015-02996

660' FSL & 660' FEL, 'P', SEC. 16-T17S-R29E
EDDY COUNTY, NEW MEXICO

Spud Date: 6/07/1959

P&A Date: 10/01/1959

Reentry Date: 6/11/1966

GJ; 7RVS-QN-GB-GLORIETA-YESO, Pool ID 97558

<PLUGGING ITEMS LISTED LEFT>

Well on Pump

D.F. 3363'

<REENTRY-CURRENT ITEMS LISTED RIGHT>

<P&A SUBSEQUENT SUNDRY>

Form G-103
(Revised 1-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY El Paso Natural Gas Company, 8003 Wilco Building, Midland, Texas
(Address)

LEASE Leonard State WELL NO. 3 UNIT P S 16 T17-S R 29-E

DATE WORK PERFORMED October 1, 1959 POOL Undesignated

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☒ Plugging ☐ Other

Detailed account of work done, nature and quantity of materials used and results obtained.
September 29, 1959 Verbal permission was granted by Mr. Armstrong to plug and abandon the above described well.

October 1, 1959 The above described well was plugged with Trinity Inferno Heat Cement with the specific plugs at the following depths: a 25 sack plug at 10,966', a 10 sack plug at 10,176', a 10 sack plug at 8794', a 10 sack plug at 7156', a 10 sack plug at 6004', a 10 sack plug at 3853', a 10 sack plug at 2998', a 15 sack plug at 788', and a 10 sack plug at the top with a cap on the 13-3/8" casing and a marker put up on the well.

OIL CONSERVATION COMMISSION I hereby certify that the information given above is true and complete to the best of my knowledge.
Name W.A. Gussert Name B.E. Sackett
Title Oil and Gas Inspector Position Division Petroleum Engineer
Date DEC 14 1959 Company El Paso Natural Gas Company

Existing Plugs:

Spot 10 sx Cmt
3853'-3785'

Spot 10 sx Cmt
6004'-5936'

Spot 10 sx Cmt
7156'-7094'

Formation Fluids

Spot 10 sx Cmt
8794'-8726'

Spot 10 sx Cmt
10108'-10176'

Spot 10 sx Cmt
10898'-10966'

6.5" Hole

DTD @ 10966'

788'

TOC 1340'

G-SA Perfs: 2247'-2705'; 2598'-2748'

PBTD 2850'
2899'

Surface Casing

13.375", 48.0# Csg. (17.5" Hole) @ 788'
850 sxs - Circulated to Surface

Production Casing

5.5", 15.5# J-55 Csg (9.875" Hole) @ 2899'
400 sx CIs C w/ 60 sx latex - TOC @ 1340' by Temp.

WELL HISTORY

This well was drilled by El Paso Natural Gas in 1959 as a Morrow test and P&A'd after 100 days. In 1966, Tennaco Oil Company reentered the well can completed it to its current producing configuration.

* 6/11 thru 7/01/1966 - D/O & C/O plugs to 2969'. Run & set 5.5" 15.5# J-55 Csg. @ 2899' w/ 400 sx + 60 sx latex. TOC by Temp @ 1340'. PBTD 2850'. Perf 2598'-2748', 10 holes total. Addize, run tubing, pump and rods.
* 7/06/1967 - Add SA perfs 2247'-2506', frac w/ 75K #s. RTP.

Marbob Energy Corporation got the well in the early 1980's and Mack Energy in the 1990's. COG Operating, LLC acquired the well in 2006 and ultimately, Spur Energy Parters, LLC acqaired it in a mass purchase of COG wells in 2019.

Flow Test Tool Settings:
Wolfcamp Test: 7154'-7330'

Penn Test: 8647'-8722'

Atoka Test: 10678'-10744'

Morrow Test: 10679'-10966'

Drawn by: Ben Stone, 10/27/2021



e-Permitting

C-108 Submittal

Attachment Category

Fluid Analysis

Injectate and Formation

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Tansil-Yates-Seven Rivers
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 - Muskegon 16 State No.1 SWD
SOURCE ZONE

ARTESIA GROUP - TNSL-YTS-7RVRS

		Lab ID	
API No	3001502891	Sample ID	5128
Well Name	CAVE POOL UNIT 030	Sample No	
Location	ULSTR 04 17 S 29 E 990 S 2310 E	Lat / Long	32.85900 -104.07829
		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 - Muskegon 16 State No.1 SWD

SOURCE ZONE

GRAYBURG-SAN ANDRES

API No	3001502873	Lab ID	
		Sample ID	5366
Well Name	GULF STATE 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 - Muskegon 16 State No.1 SWD
SOURCE ZONE

YESO

		Lab ID	
API No	3001530307	Sample ID	5901
Well Name	SCHLEY FEDERAL 008	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 - Muskegon 16 State No.1 SWD
DISPOSAL ZONE

CISCO

API No. 3001500129		Lab ID	
		Sample ID 5353	
Well Name SPRINGS SWD 001		Sample No	
Location ULSTR 04 21 S 25 E		Lat / Long 32.52054 -104.39423	
660 N 830 E		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.)



e-Permitting

C-108 Submittal

Attachment Category

Seismicity Analysis

For High Volume Devonian Wells