

AE Order Number Banner

Application Number: pSYS2507857374

SWD-2646

SOLARIS WATER MIDSTREAM, LLC [371643]

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: Solaris Water Midstream, LLC **OGRID Number:** 371643
Well Name: North Lusk 32 State SWD #1 **API:** 30-025-41525
Pool: SWD; Brushy Canyon **Pool Code:** 97802

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

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

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL

☐ NSP (PROJECT AREA)

☐ NSP (PRORATION UNIT)

☐ SD

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

[I] Commingling – Storage – Measurement

☐ DHC

☐ CTB

☐ PLC

☐ PC

☐ OLS

☐ OLM

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

☐ WFX

☐ PMX

☒ SWD

☐ IPI

☐ EOR

☐ PPR

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

A. ☒ Offset operators or lease holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☒ Application requires published notice

D. ☒ Notification and/or concurrent approval by SLO

E. ☒ Notification and/or concurrent approval by BLM

F. ☒ Surface owner

G. ☒ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

FOR OCD ONLY

☐

Notice Complete

☐

Application
Content
Complete

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

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

1/23/2025

Date

Ben Stone

Print or Type Name

903-967-5950

Phone Number

Signature

ben@sosconsulting.us

e-mail Address



January 23, 2025

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

Attn: Mr. Gerry Razatos, Acting Director

Re: Application of Solaris Water Midstream, LLC to permit and otherwise reinstate for salt water disposal its North Lusk 32 State SWD #1, API 30-025-41525) located in Section 32, Township 19 South, Range 32 East, NMPM, Lea County, New Mexico.

Dear Mr. Razatos,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal the subject well. The well was previously authorized by another operator for salt water disposal by division order SWD-1394. The subject well is one of many acquired by Solaris in the last few years and due to a combination of factors, including mechanical integrity, this well went inactive and a new C-108 for Devonian was filed in 2023. While waiting on processing for that application, seismic and other events prompted Solaris to investigate other strategies and determined that with an available long section of sandy Brushy Canyon formation, that should be the new target zone. The Brushy Canyon interval is the target of this C-108 will all supporting data and exhibits. By repermitting the SWD, the applicant can again service disposal needs operators in the area.

Solaris Water Midstream, 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 December 19, 2024, edition of the Hobbs News-Sun and offset operators and other affected parties have been notified individually. 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", is written over a light blue horizontal line.

Ben Stone, Partner
SOS Consulting, LLC
Agent for Solaris Water Midstream, LLC

Cc: Application attachment and file

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Salt Water Disposal** and the application **QUALIFIES** for administrative approval.
- II. OPERATOR: **Solaris Water Midstream, LLC**
ADDRESS: **9651 Katy Freeway, Suite 400, Houston, Texas, 77024**
- CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (936) 967-5950**
- III. WELL DATA: **All Well Data and Applicable Wellbore Diagrams and Packer Info are ATTACHED.**
- 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. **There are 49 wells in the subject AOR, 39 which Penetrate the proposed BRUSHY CANYON interval.** 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. **11 P&A (of 39 total) wells penetrate, 4 are listed as NEW (non-existent).**
- 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. **Stimulation program – a conventional acid job of up to 40,000 gals. may be performed to clean and open the formation.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Well Logs [deep zone] are ON FILE with OCD. Depth Control logs will be run for perforating.**
- *XI. **There is 1 P&A'd water well within one mile of the proposed salt water disposal well per OSE data.**
- 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 11 offset lessees and/or operators within ONE mile plus State and Federal minerals - all have been noticed. Location is STATE.**
- 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 for Solaris Water Midstream, LLC**

SIGNATURE:  DATE: **1/23/2025**

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

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

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

FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)**III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):***

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 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 details 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-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	<input type="checkbox"/> Initial Submittal
				<input checked="" type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-41525	Pool Code 97802	Pool Name SWD; Brushy Canyon
Property Code 326896	Property Name North Lusk 32 State SWD	Well Number 1
OGRID No. 371643	Operator Name Solaris Water Midstream, LLC	Ground Level Elevation 3685'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	32	18S	32E		1550' FSL	1800' FWL	32.7010345	-103.7912064	Lea

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	same								

Dedicated Acres n/a	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.	SWD-pending		Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

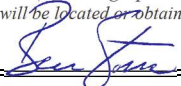
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

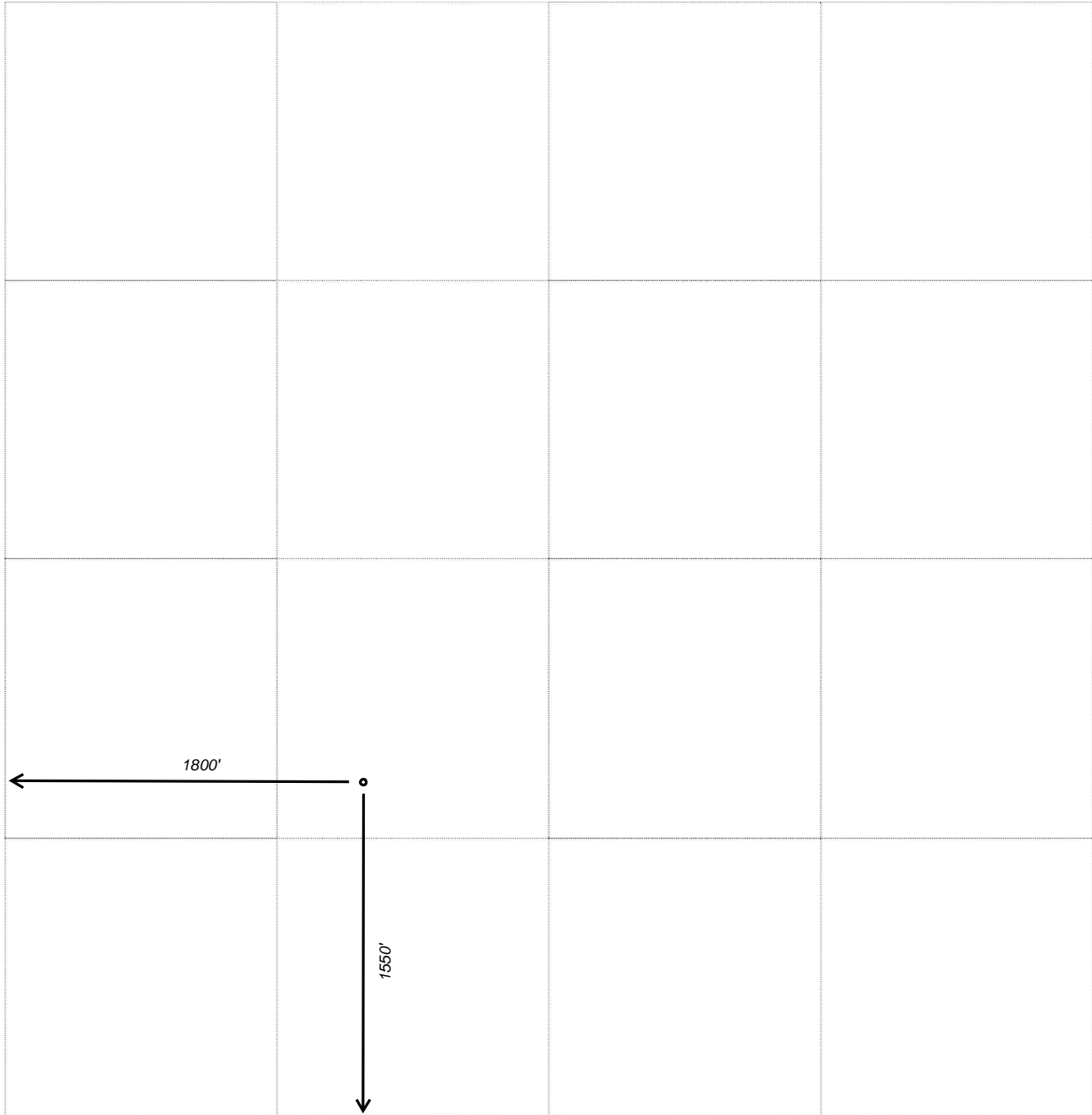
Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <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>	
 Signature		Chad L. Harcrow	
Date 12/11/2024		Signature and Seal of Professional Surveyor	
Printed Name ben@sosconsulting.us		Certificate Number 17777	Date of Survey August 30, 2013
Email Address			

Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



C-108 - Items III, IV, V

Item III - Subject Well Data

1. Wellbore Diagram - CURRENT
2. Wellbore Diagram – PROPOSED
3. Packer Diagram and Specs

Item V – Area of Review Maps

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

Item VI – Tabulation of AOR Wells

Tabulation includes all wells within a ONE-MILE radius.

38* wells penetrate the proposed injection interval;

13 of those are P&A'd and diagrams are attached

**4 wells listed as NEW – these are non-existent and APDs have expired.*

All Above Exhibits follow this page...

CURRENT WELLBORE DIAGRAM

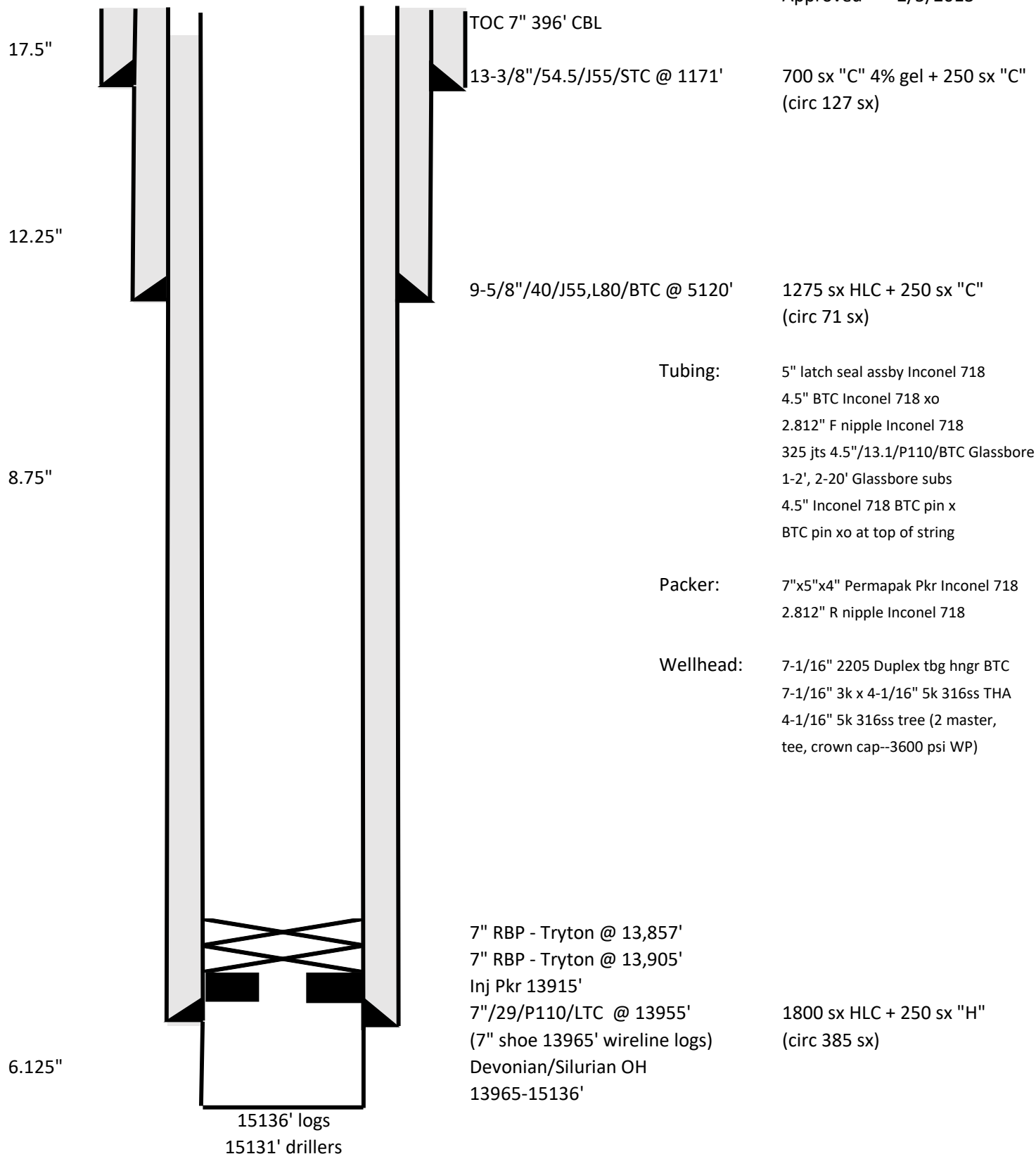
Received by North Dakota State SWD AM

Page 9 of 9

1550' FSL, 1800' FWL
K-32-18s-32e
Lea, NM
30-025-41525

Zero: 25.8' agl
KB elev: 3711.2'
GL elev: 3685.4'

C108 SWD-1394
Max Press 2760 psi
Permit 13800-15250'
Actual 13965-15136'
Approved 2/5/2013



Jan 2016: Went into service.



WELL SCHEMATIC - PROPOSED North Lusk 32 State SWD Well No.1

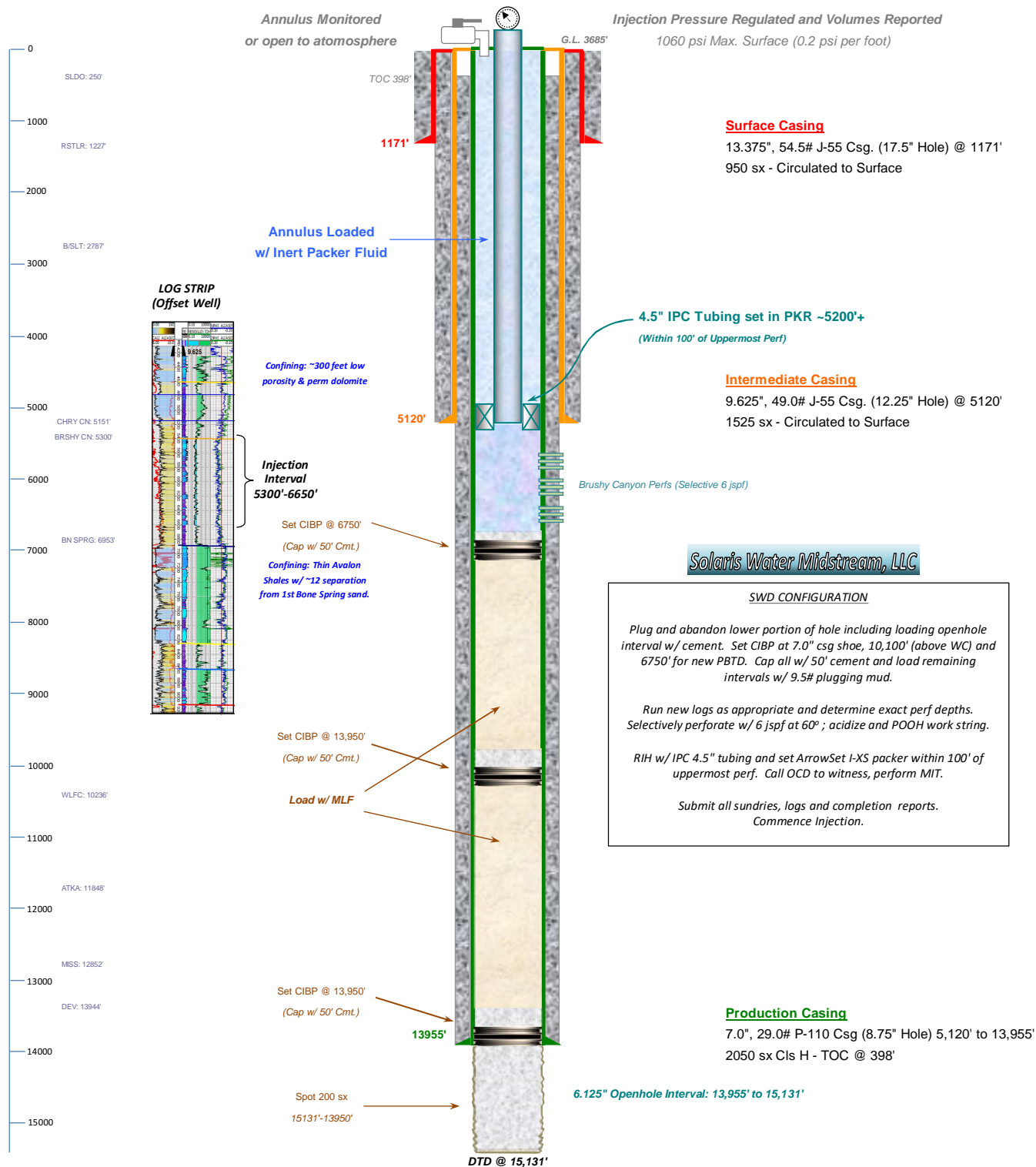
API 30-025-41525

1550' FSL & 1800' FWL, SEC. 32-T18S-R32E
LEA COUNTY, NEW MEXICO

SWD; BRUSHY CANYON (97802)

Spud Date: 8/14/2015

SWD Config Dt: ~4/15/2025



Solaris Water Midstream, LLC

SWD CONFIGURATION

Plug and abandon lower portion of hole including loading openhole interval w/ cement. Set CIBP at 7.0" csg shoe, 10,100' (above WC) and 6750' for new PBTD. Cap all w/ 50' cement and load remaining intervals w/ 9.5# plugging mud.

Run new logs as appropriate and determine exact perf depths. Selectively perforate w/ 6 jsp/ at 60°; acidize and POOH work string.

RIH w/ IPC 4.5" tubing and set ArrowSet I-XS packer within 100' of uppermost perf. Call OCD to witness, perform MIT.

Submit all sundries, logs and completion reports.
Commence Injection.

Drawn by: Ben Stone. 12/21/2024



**Weatherford®**

Packer Systems

Arrowset I-XS Mechanical Packer

Weatherford's Arrowset I-XS mechanical packer is a versatile, field-proven retrievable double-grip packer for isolating the annulus from the production conduit. The packer can be set with tension or compression.

A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips. The packer also has a straight-pull safety release.

Applications

- Production
- Pumping
- Injection
- Fiberglass tubing
- Completions requiring periodic casing-integrity tests
- Zonal isolation

Features, Advantages and Benefits

- The design holds differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression or tension, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.




Weatherford

Packer Systems

Arrowset I-XS Mechanical Packer

Specifications

Casing				Packer			
OD (in./mm)	Weight (lb/ft, kg/m)	Minimum ID (in./mm)	Maximum ID (in./mm)	Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection (in./mm)	Product Number
4-1/2 114.3	9.5 to 13.5 14.1 to 20.1	3.920 99.57	4.090 103.89	3.750 95.25	1.985 50.42	2-3/8 EUE 8 Rd	604-45
5-1/2 139.7	14.0 to 17.0 20.8 to 25.3	4.892 124.26	5.012 127.30	4.515 114.68	1.985 50.42	2-3/8 EUE 8 Rd	604-55
				4.625 117.48		2-7/8 EUE 8 Rd	604-56
	20.0 to 23.0 29.8 to 34.2	4.670 118.62	4.778 121.36	4.515 114.68		2-3/8 EUE 8 Rd	604-57
				2-7/8 EUE 8 Rd		604-59-000	
6-5/8 168.3	24.0 to 32.0 35.7 to 47.6	5.675 144.15	5.921 150.39	5.515 140.08	2.375 60.33	2-7/8 EUE 8 Rd	604-65
	17.0 to 24.0 25.3 to 35.7	5.921 150.39	6.135 155.83	5.750 146.00			604-68
7 177.8	17.0 to 26.0 25.7 to 39.3	6.276 159.41	6.538 166.07	5.515 140.08	2.375 60.33	2-7/8 EUE 8 Rd	604-72
				6.000 152.40	3.000 76.20	3-1/2 EUE 8 Rd	604-74

Options

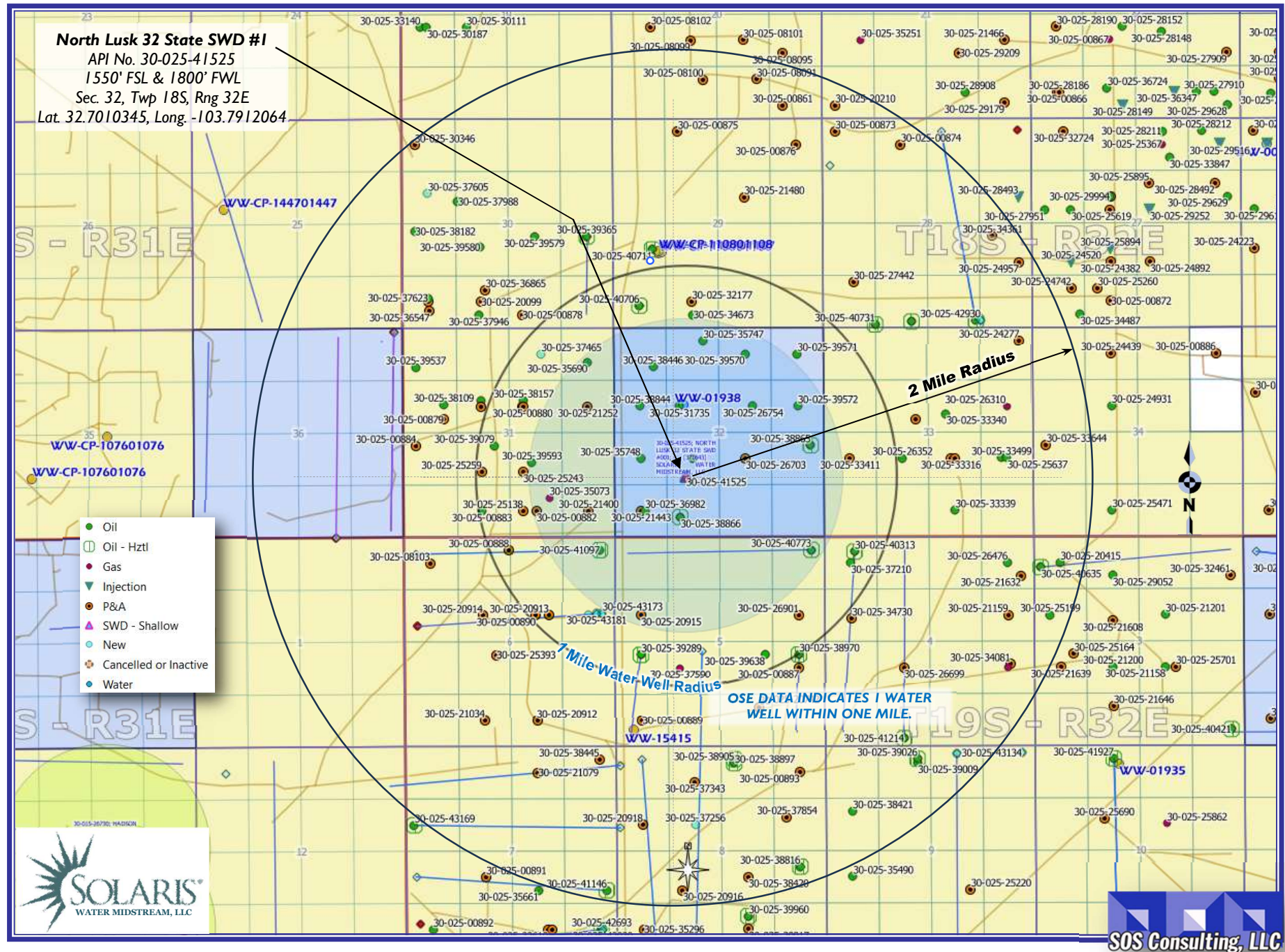
- Elastomer options are available for hostile environments.

For internal use

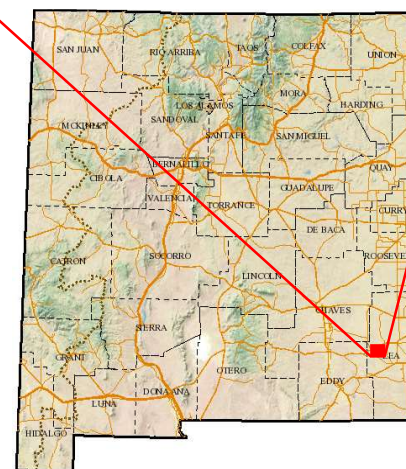
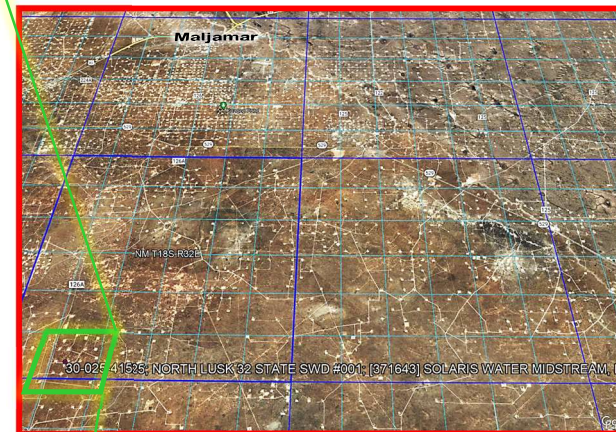
Link to Endeca assembly part numbers: [Arrowset I-XS Mechanical Packer](#)

North Lusk 32 State SWD #1 - Area of Review / 2 Miles

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



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



Lea County, New Mexico



Form C-108 - Item VI - Tabulation of One-Mile AOR Wells

Top of Proposed BRUSHY CANYON Interval 5,300'					39 (of 45) Wells Penetrate Proposed Interval.				
API	Current Operator	Well Name	Type	Status	Lease	ULSTR	Depth (V)	Spud Dt.	Plug Dt.
<u>Subject Well</u>									
30-025-41525	SOLARIS WATER MIDSTREAM, LLC	NORTH LUSK 32 STATE SWD #001	SWD	Active	State	K-32-18S-32E	15131'	10/7/1992	
<u>Sections 4, 5, 6 Wells</u>									
30-025-40313	COG OPERATING LLC	PEASHOOTER 4 FEDERAL COM #001H	Oil	Active	State	D-04-19S-32E	9616'	2/19/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,567'-13,812'; 13-3/8" @1,232' w/950sx, 9-5/8" @3,110' w/1050sx, 5-1/2" @13,838' w/2050sx; TOC= 0', Lst Prd Oct 2024							
30-025-37210	COG OPERATING LLC	VALHALLA 4 FEDERAL COM #001	Oil	Active	State	D-04-19S-32E	12980'	12/31/9999	
		LUSK; BONE SPRING, NORTH, Perfs: 9,420'-9,510'; 13-3/8" @500' w/450sx, 8-5/8" @4,348' w/1865sx, 5-1/2" @13,096' w/1750, 2-7/8" @9,284'; TOC= 1850', Lst Prd Oct 2024							
30-025-37590	COG OPERATING LLC	BONANZA FEDERAL #001	Gas	Active	State	05-19S-32E	13119'	3/10/1980	
		LUSK; BONE SPRING, NORTH, Perfs: 9,334'-12,689'; 13-3/8" @1,039' w/825sx, 9-5/8" @4,503' w/1550sx, 5-1/2" @12,958' w/2050sx; TOC= 4,200', Lst Prd Oct 2024							
30-025-40773	COG OPERATING LLC	PATTERSON B 52 FEDERAL COM #002H	Oil	Active	Federal	A-05-19S-32E	11080'	8/11/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,634'-13,680; 13-3/8" @1,235' w/950sx, 9-5/8" @3,115' w/900sx, 5-1/2" @13,776' w/3,050sx; TOC= 0', Lst Prd Oct 2024							
30-025-20915	RAY WESTALL	SB FEDERAL #001	Oil	P&A-R	State	E-05-19S-32E	9641'	5/22/2010	9/20/2004
									P&A Diagram Included...
30-025-26901	WARREN E & P, INC.	SHELLY FED. COM #001	Oil	P&A-R	Federal	H-05-19S-32E	13060'	7/30/1980	3/2/2004
									P&A Diagram Included...
30-025-39638	COG OPERATING LLC	PATTERSON B 52 FEDERAL #003H	Oil	Active	State	J-05-19S-32E	9630'	8/28/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,530'-11,000'; 13-3/8" @1,169' w/950sx, 9-5/8" @3,293' w/1,050sx, 5-1/2" @11,080' w/1,350sx; TOC= 2,500' TS, Lst Prd Oct 2024							
30-025-39289	COG OPERATING LLC	PATTERSON B 52 FEDERAL #004H	Oil	Active	Federal	L-05-19S-32E	9303'	10/9/2012	
		LUSK; BONE SPRING, NORTH, Perfs: 9,500'-11,030'; 13-3/8" @1,146' w/1,000sx, 9-5/8" @3,285' w/1,050sx, 5-1/2" @11,091' w/1,130sx; TOC= 2,466' TS, Lst Prd Oct 2024							
30-025-41097	COG OPERATING LLC	HAAS 6 FEDERAL COM #001H	Oil	Active	State	A-06-19S-32E	9369'	3/15/2009	
		LUSK; BONE SPRING, NORTH, Perfs: 9,501'-13,460'; 13-3/8" @1,165' w/925sx, 9-5/8" @3,200' w/1,000sx, 5-1/2" @13,558' w/2,150sx, 2-7/8" @ 8,780'; TOC= 0', Lst Prd Oct 2024							
30-025-00888	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	B-06-19S-32E	4256'	6/19/1996	7/4/1996
									DOES NOT PENETRATE.
30-025-00890	MACK ENERGY CORP	W H PECKHAM #001	Oil	P&A-R	Federal	G-06-19S-32E	9461'	11/15/2011	8/4/1994
									P&A Diagram Included...
30-025-20913	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	G-06-19S-32E	13096'	8/7/2005	1/17/1990
									P&A Diagram Included...
30-025-37734	COG OPERATING LLC	HEIDI HO FEDERAL COM #001	Gas	New	Federal	H-06-19S-32E	12990'	7/29/1947	

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.2)

NEW WELL - No Construction Data Available... APD Year 2005								
30-025-43181	COG OPERATING LLC	HAAS 6 FEDERAL COM #004H	Oil	New	Federal	H-06-19S-32E	12656'	1/1/1900
NEW WELL - No Construction Data Available... Well APD Expired 4/18/2020								
30-025-43173	COG OPERATING LLC	HAAS 6 FEDERAL COM #002H	Oil	New	Federal	H-06-19S-32E	13782'	8/17/2008
NEW WELL - No Construction Data Available... Well APD Expired 4/18/2020								
Section 29 Wells								
30-025-40706	CHEVRON U S A INC	CROSS BONES 2 29 #001H	Oil	Active	Federal	M-29-18S-32E	9388' TVD	1/1/1900
LUSK; BONE SPRING, NORTH, Perfs: 9,655'-13,151'; 13-3/8" @1,140' w/1,220sx, 9-5/8" @3,040' w/1,085sx, 5.5" @13,254' w/2,694sx; TOC= 0' CBL, Lst Prd Oct 2024								
30-025-32177	SANTA FE ENERGY OPER. PRTRNS. LP	WATKINS 29 FEDERAL #001	Oil	P&A-R	Federal	N-29-18S-32E	8750'	1/1/1900 12/22/1993
P&A Diagram Included...								
30-025-34673	CHEVRON U S A INC	NORTH LUSK 29 FEDERAL #001	Oil	Active	Federal	N-29-18S-32E	11850'	12/31/9999
LUSK; STRAWN, NORTH, Perfs: 11,422'-11,573'; 13-3/8" @517' w/550sx, 9-5/8" @4,270 w/1,700sx, 5-1/2" @11,851 w/1,960sx; TOC= 4080', Lst Prd Oct 2024								
Section 31 Wells								
30-025-35690	COG OPERATING LLC	EGL FEDERAL #001	Oil	Active	Federal	A-31-18S-32E	10150'	6/27/2008
LUSK; BONE SPRING, NORTH, Perfs: 9,223'-9,580'; 13-3/8" @1,110' w/950sx, 8-5/8" @4,500' w/1,990sx, 5-1/2" @12,820' w/1,760sx, 2-7/8" @ 9,351'; TOC= 2000' TS, Lst Prd Oct 2024								
30-025-37465	COG OPERATING LLC	SDL 31 FEDERAL #001	Oil	New	Federal	B-31-18S-32E	13000'	10/11/2005
NEW WELL - No Construction Data Available... APD Year 2005								
30-025-00880	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	G-31-18S-32E	4264'	12/31/9999 4/26/2007
DOES NOT PENETRATE.								
30-025-38157	COG OPERATING LLC	LPC 31 FEDERAL #002	Oil	Active	Federal	G-31-18S-32E	11310'	6/26/2010
LUSK; BONE SPRING, NORTH, Perfs: 8,765-10,050; 9-5/8" @1,147' w/475sx, 5-1/2" @10,150' w/2090sx, 2-7/8" @ 7,762'; TOC= 1,178' TS, Lst Prd Oct 2024								
30-025-37440	COG OPERATING LLC	LPC 31 FEDERAL #001	Oil	P&A-R	Federal	G-31-18S-32E	9990'	1/1/1900 10/14/2021
P&A Diagram Included...								
30-025-21252	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Private	H-31-18S-32E	11620'	12/31/9999 8/17/1965
P&A Diagram Included...								
30-025-25243	C W STUMHOFFER	FEDERAL CST #002	Oil	P&A-R	Federal	J-31-18S-32E	4264'	12/31/9999 4/26/2007
DOES NOT PENETRATE.								
30-025-39593	E G L RESOURCES INC	LUSK 31 FEDERAL #003	Oil	Active	Federal	J-31-18S-32E	12620'	8/24/2000
LUSK; BONE SPRING, NORTH, Perfs: 8,356'-10,376'; 13-3/8" @1,072' w/950sx, 8-5/8" @2,723 w/860sx, 5-1/2" @11,308' w/1,600sx; TOC= 2,700' TS, Lst Prd Oct 2024								
30-025-25259	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #003	Oil	P&A-R	Federal	K-31-18S-32E	4300'	1/1/1900 4/19/1979
DOES NOT PENETRATE.								
30-025-39079	E G L RESOURCES INC	LUSK 31 FEDERAL #002	Oil	Active	Federal	K-31-18S-32E	9807'	12/31/9999
LUSK;BONE SPRING, NORTH, Perfs: 8,424'-9,210'; 13-3/8" @1,100' w/960sx, 9-5/8" @2,717' w/805sx, 5-1/2" @9,269' w/1,500sx; TOC= 2,500' TS, Lst Prd Oct 2024								

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.3)

30-025-00883	STEPHENS & JOHNSON OP CO	MAY HIGHTOWER FEDERAL #001	Oil	Active	Federal	N-31-18S-32E	12825'	10/1/2001	
					WATKINS; YATES-7 RVRS-QU-GB ; Not listed, Not listed, TOC= Not listed, Lst Prd Oct 2024				
30-025-25138	C W STUMHOFFER	FEDERAL CST #001	Oil	P&A-R	Federal	O-31-18S-32E	4265'	5/1/2007	12/31/9999
								DOES NOT PENETRATE.	
30-025-00882	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	O-31-18S-32E	4180'	1/1/1900	1/1/1900
								DOES NOT PENETRATE.	
30-025-35073	E G L RESOURCES INC	LUSK 31 FEDERAL COM #001	Gas	Active	Federal	O-31-18S-32E	12620'	12/31/9999	
			LUSK; MORROW, NORTH (GAS), Perfs: 12,495'-12,518'; 13-3/8" @1,106 w/1,000sx, 8-5/8" @4,483 w/1,650sx, 5-1/2" @12,612 w/1,675sx; TOC= 3,750' TS, Lst Prd Oct 2024						
30-025-21400	BEACH EXPLORATION INC	MOLEEN FEDERAL #001	Oil	P&A-R	Federal	P-31-18S-32E	9205'	10/3/2013	11/10/2004
								P&A Diagram Included...	
Section 32 Wells									
30-025-39571	RAYBAW Operating, LLC	HULKSTER #004	Oil	Active	Federal	A-32-18S-32E	9641'	12/31/9999	
			LUSK; BONE SPRING, NORTH, Perfs: 8,365'-9,404'; 11-3/4" @1,165' w/860sx, 8-5/8" @2,676' w/800sx, 5-1/2" @9,641' w/1,291sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-39570	RAYBAW Operating, LLC	HULKSTER #003	Oil	Active	Federal	B-32-18S-32E	9388'	9/8/2012	
			LUSK; BONE SPRING, NORTH, Perfs: 8,344'-8,409', 9,179'-9,359'; 11-3/4" @1,173' w/655sx, 8-5/8" @2,648' w/800sx, 5-1/2" @9,616' w/1,300sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-35747	RAYBAW Operating, LLC	N LUSK 32 STATE #001	Oil	Active	State	C-32-18S-32E	12930'	12/2/2001	
			LUSK; BONE SPRING, NORTH, Perfs: 8,185'-8,554'; 13-3/8" @472' w/450sx, 9-5/8" @4,280' w/1,635sx, 5-1/2" @11,860' w/1950sx; TOC= 3980', Lst Prd Oct 2024						
30-025-38446	RAYBAW Operating, LLC	HULKSTER #001	Oil	Active	State	D-32-18S-32E	11600'	1/1/1900	
			LUSK; BONE SPRING, NORTH, 8,201'-8,836', 9,266'-9,351'; 13-3/8" @515' w/450sx, 9-5/8" @2,653' w/960sx, 5-1/2" @9,983' w/2025; TOC= ???, Lst Prd Oct 2024						
30-025-38844	RAYBAW Operating, LLC	HULKSTER #002	Oil	Active	Federal	E-32-18S-32E	9313'	1/25/2011	
			LUSK; BONE SPRING, NORTH, Perfs: 8,214'-8,362', 8,573'-8,602', 9,308'-9,342'; 11-3/4" @1,136' w/405sx, 8-5/8" @2,652' w/773sx, 5-1/2" @9,490' w/1430sx; TOC= ???, Lst Prd Oct 2024						
30-025-31735	RAYBAW Operating, LLC	WATKINS 32 STATE #001	Oil	Active	Federal	F-32-18S-32E	11440'	10/17/1964	
			LUSK; BONE SPRING, NORTH, Perfs: 8,566'-12,533'; 13-3/8" @473' w/500sx, 8-5/8" @4,206' w/2900, 5-1/2" @12,921' w/1630, 2-7/8" @8,452'; TOC= ???, Lst Prd Oct 2024						
30-025-26754	RAYBAW Operating, LLC	MAX STATE #001	Oil	Active	State	G-32-18S-32E	9890'	12/20/2004	
			LUSK; BONE SPRING, NORTH, Perfs: 12,909'-12,950'; 13-3/8" @408' w/425sx, 8-5/8" @4,281' w/2950sx, 5-1/2" @12,980' w/1200sx; TOC= ???, Lst Prd Oct 2024						
30-025-39572	RAYBAW Operating, LLC	HULKSTER #005	Oil	Active	State	H-32-18S-32E	9983'	2/2/2008	
			LUSK; BONE SPRING, NORTH, Perfs: 7,676'-9,256'; 11-3/4" @1,170' w/700sx, 8-5/8" @2663' w/750sx, 5-1/2" @9630' w/1,085sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-38865	COG OPERATING LLC	LEAR STATE #001H	Oil	Active	State	I-32-18S-32E	9490'	8/17/2008	
			LUSK; BONE SPRING, NORTH, Perfs: 9,600'-11,125'; 13-3/8" @1133' w/950sx, 9-5/8" @2968' w/825sx, 5-1/2" @11207' w/1310sx, 2-7/8" @8917'; TOC= 2,600 TS, Lst Prd Oct 2024						
30-025-26703	MARBOB ENERGY CORP	LEAR STATE SWD #003	Oil	P&A-R	State	J-32-18S-32E	9353'	8/15/2009	10/5/2010
								P&A Diagram Included...	
30-025-41525	SOLARIS WATER MIDSTREAM, LLC	NORTH LUSK 32 STATE SWD #001	SWD	Active	State	K-32-18S-32E	12922'	10/7/1992	
								SUBJECT WELL...	

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.4)

30-025-36953	OXY USA INC	NORTH LUSK 32 STATE #003	Oil	Active	State	K-32-18S-32E	15131'	8/14/2015	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,444'-8,472'; 13-3/8" @628' w/570 sx, 8-5/8" @3,259' w/830sx, 5-1/2" @9,822' w/1,405 sx; TOC= 4100' est., Lst Prd Oct 2024</i>									
30-025-35748	OXY USA INC	NORTH LUSK 32 STATE #001	Oil	Active	Federal	L-32-18S-32E	8700'	8/19/1993	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,570'-10,508'; 13-3/8" @573' w/485 sx, 9-5/8" @4,250' w/1,300sx, 5-1/2" @12,930' w/2,110sx; TOC= 4100', Lst Prd Oct 2024</i>									
30-025-21443	LATIGO PETROLEUM, INC.	NORTH LUSK 32 STATE #002	Oil	P&A-R	State	M-32-18S-32E	9838'	1/28/2005	4/26/1990
<i>P&A Diagram Included...</i>									
30-025-36982	OXY USA INC	NORTH LUSK 32 STATE #005	Oil	Active	Federal	M-32-18S-32E	11850'	8/17/1999	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,598'-8,624'; 13-3/8" @ 642' w/570 sx, 8-5/8" @3253' w/1150 sx, 5-1/2" @9886' w/1070 sx, DV tool @5305' w/470 sx; TOC= 4100' est., Lst Prd Oct 2024</i>									
30-025-38866	COG OPERATING LLC	LEAR STATE #002H	Oil	Active	Federal	N-32-18S-32E	12960'	8/3/2006	
<i>LUSK; BONE SPRING, NORTH, Perfs: 9,500'-11,100'; 13-3/8" @1085' w/1100sx, 9-5/8" @2928' w/930sx, 5-1/2" @11171' w/1700sx, 2-7/8" @ 8866'; TOC= 1,210' TS, Lst Prd Oct 2024</i>									
30-025-33411	CHEVRON U S A INC	PATTERSON 33 FEDERAL #001	Oil	P&A-R	State	L-33-18S-32E	6000'	11/17/2001	7/4/1996
<i>P&A Diagram Included...</i>									

SUMMARY: Total of 49 in AOR; 39 wells penetrate the proposed disposal interval, 11 P&A wells and 4 NEW* wells.

**Non-existent - APDs are expired...*



C-108 - Item VI

Area of Review Well Data

PLUGGED WELL SCHEMATICS

There Are 11 P&A'd Wells Within the AOR
Which Penetrate the Proposed Injection Zone.

30-025-20915
30-025-26901
30-025-00890
30-025-20913
30-025-32177
30-025-37440
30-025-21252
30-025-21400
30-025-26703
30-025-21443
30-025-33411

All P&A Schematics follow this page...

Form 3160-5
(June 1990)

New Mexico Oil Conservation Division, District I
UNITED STATES 1625 N. French Drive
DEPARTMENT OF THE INTERIOR Hobbs, NM 88240
BUREAU OF LAND MANAGEMENT

FORM APPROVED
 Budget Bureau No. 1004-0135
 Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
 Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Ray Westall Operating

3. Address and Telephone No.

P.O.Box 4 Loco Hills, New Mexico 88255

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980FNL 660FWL, Sec5, T 19S, R32E UL-E

5. Lease Designation and Serial No.
NM0319697

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

SB Federal #1

9. API Well No.

30-025-20915

10. Field and Pool, or Exploratory Area

Lusk Strawn

11. County or Parish, State

Lea County, NM

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

TYPE OF SUBMISSION

- ☐ Notice of Intent
- ☒ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
- ☐ Recompletion
- ☐ Plugging Back
- ☐ Casing Repair
- ☐ Altering Casing
- ☐ Other

- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection
- ☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8 /05/04 Notify BLM. was moving in
 8/06/04 POH and lay down 137 jts. of 4 1/2 casing
 8/10/04 RIH to 10,623 tagged plug circulate well w/ mud
 8/10/04 Perf 4 holes @ 9700
 8/11/04 Spot 50 sx. class "C" neat cmt @ 9698 POH w/60 jts. woc 4 hrs. RIH tagged cmt @ 9123
 8/11/04 POH to 4625 mix & pump 30 sx. class "C" neat cmt poh w/ 60 jts.
 8/12/04 RIH tagged cmt @ 4570' mix & pump 30 sx class "C" neat cmt poh w/60 jts. woc 4 hrs rih tagged cmt. @ 4490'
 8/13/04 POH to 3258 mix & pump 50 sx. class "C" neat cmt. poh w/60 jts. woc 4 hrs. rih tagged cmt @ 3078
 8/18/04 Perf. 8 5/8 casing @ 1100 set pkr. @895 couldn't pump in @ 2000 psi. spot 50 sx. class "C" neat cmt @ 1150 poh
 8/19/04 RIH tagged cmt. @ 967
 8/19/04 Perf. 8 5/8 @ 730 set pkr @ 514 sqz. 50 sx. class "C" neat cmt woc 4 hrs. plug was gone
 8/19/04 Got circulation up 13 3/8 casing mix & pump 50 sx.class "C" neat cmt woc 4hrs pressured up to 500 psi sqz. broke down cwi
 8/20/04 Pressured up on sqz. to 1000 psi OK poh w/pkr RIH tagged cmt @ 641'
 8/20/04 Perf. 8 5/8 @ 60' MIX & pump 50 sx class "C" neat cmt down 8 5/8 up 13-3/8 woc 2 hrs. cmt @ surface
 8/20/04 Cut off well head install dry hole marker

14. I hereby certify that the foregoing is true and correct

Signed Gary MathewsTitle Production/Accounting

(This space for Federal or State office use)

OC FIELD REPRESENTATIVE II/STAFF MANAGER

Approved by Gary Mathews

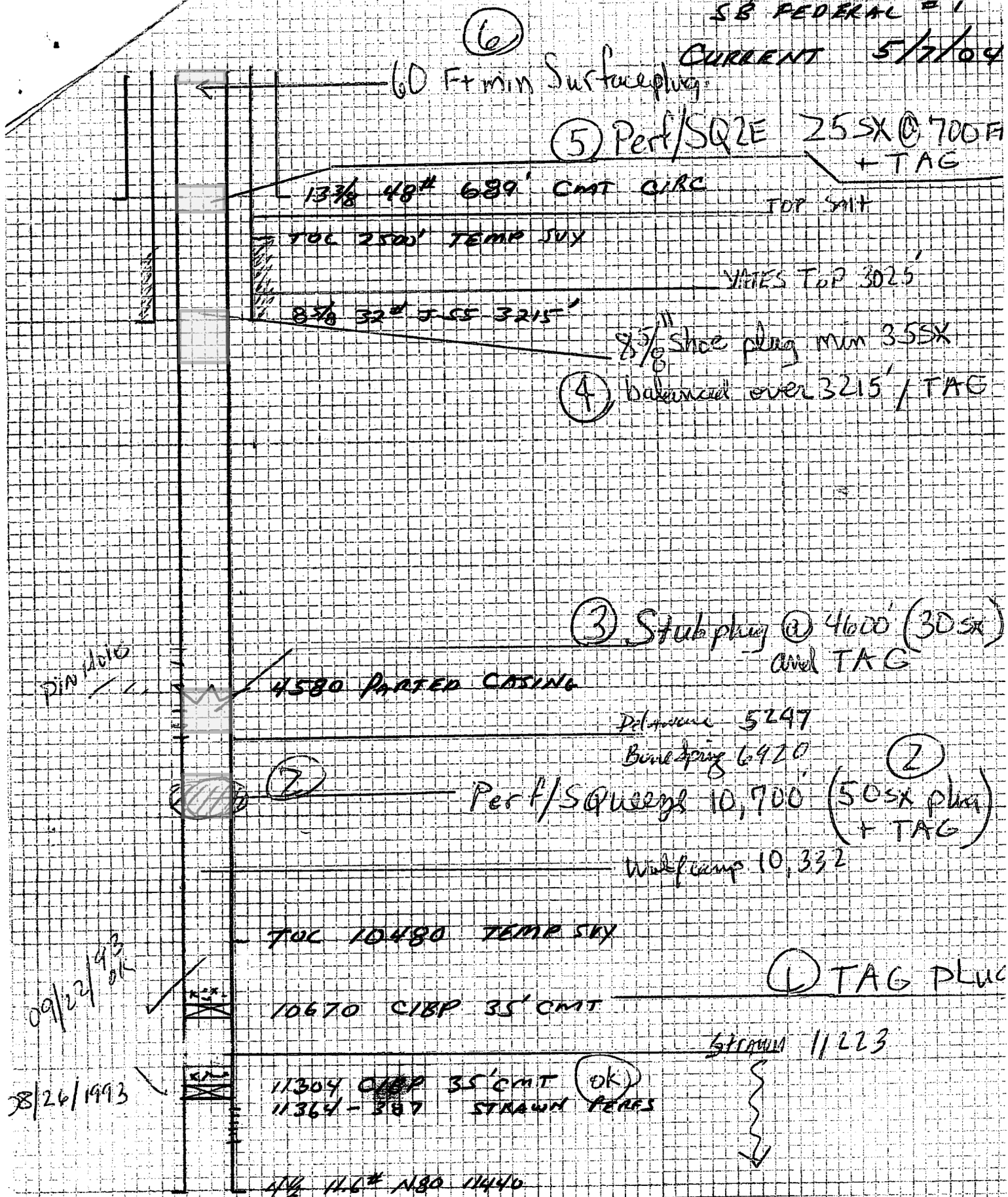
Title

Conditions of approval, if any.

Date
SEP 22 2004

Title 18 U.S.C. Section 1001, 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.

*See Instruction on Reverse Side



Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1625 N. French Dr.
Hobbs, NM 88240

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. Shelly Fed Com #1
2. Name of Operator Warren E & P, Inc.	9. API Well No. 30-025-26901
3. Address and Telephone No. 123 West First Street, Suite 505, Casper, WY 82601 (307)237-0864	10. Field and Pool, or Exploratory Area First Bone Spring Sand
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FNL & 660' FEL, Sec. 5, T-19S, R-32E	11. County or Parish, State Lea, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 2-18-04 1. Notify BLM Amy.
2. TAC stuck @ 8471', consult w/ BLM Gary Gorley okayed to cut tbg. @ 8460' above TAC.
- 2-20-04 3. Cut 2-7/8" tbg. @ 8460'.
- 2-24-04 4. Spot 25 sx cmt. @ 8458'.
- 2-25-04 5. Tag TOC @ 8288'.
6. Circulate 5-1/2" csg. w/ 10# MLF, brine.
7. Cut 5-1/2" csg. @ 5500'.
- 2-26-04 8. Spot 40 sx cmt. w/ 2% CaCl @ 5578'.
9. WOC & tag TOC @ 5378'.
10. Spot 35 sx cmt. @ 4246'.
- 2-27-04 11. Tag TOC @ 4141'.
12. Spot 30 sx cmt. @ 1219-1109'.
13. Spot 30 sx cmt. @ 460'.
14. Spot 30 sx cmt. w/ 2% CaCl @ 460', WOC, no tag.
15. Spot 30 sx cmt. @ 460'.
- 3-02-04 16. Tag TOC @ 360'.
17. Circ. 20 sx cmt. 61' to surf. RDMO. Cut off WH, install dry hole marker. Clean loc.

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

Remove deadmen, backfill pit & cellar.

Signed

Title Agent

Date 3-11-04

(This space for Federal or State office use)

Approved by

(ONIG SCD) DAVID R. GLASS

Title

Date

MAR 24 2004

Title 18 U.S.C. Section 1001, 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.

DAVID R. GLASS
PETROLEUM ENGINEER

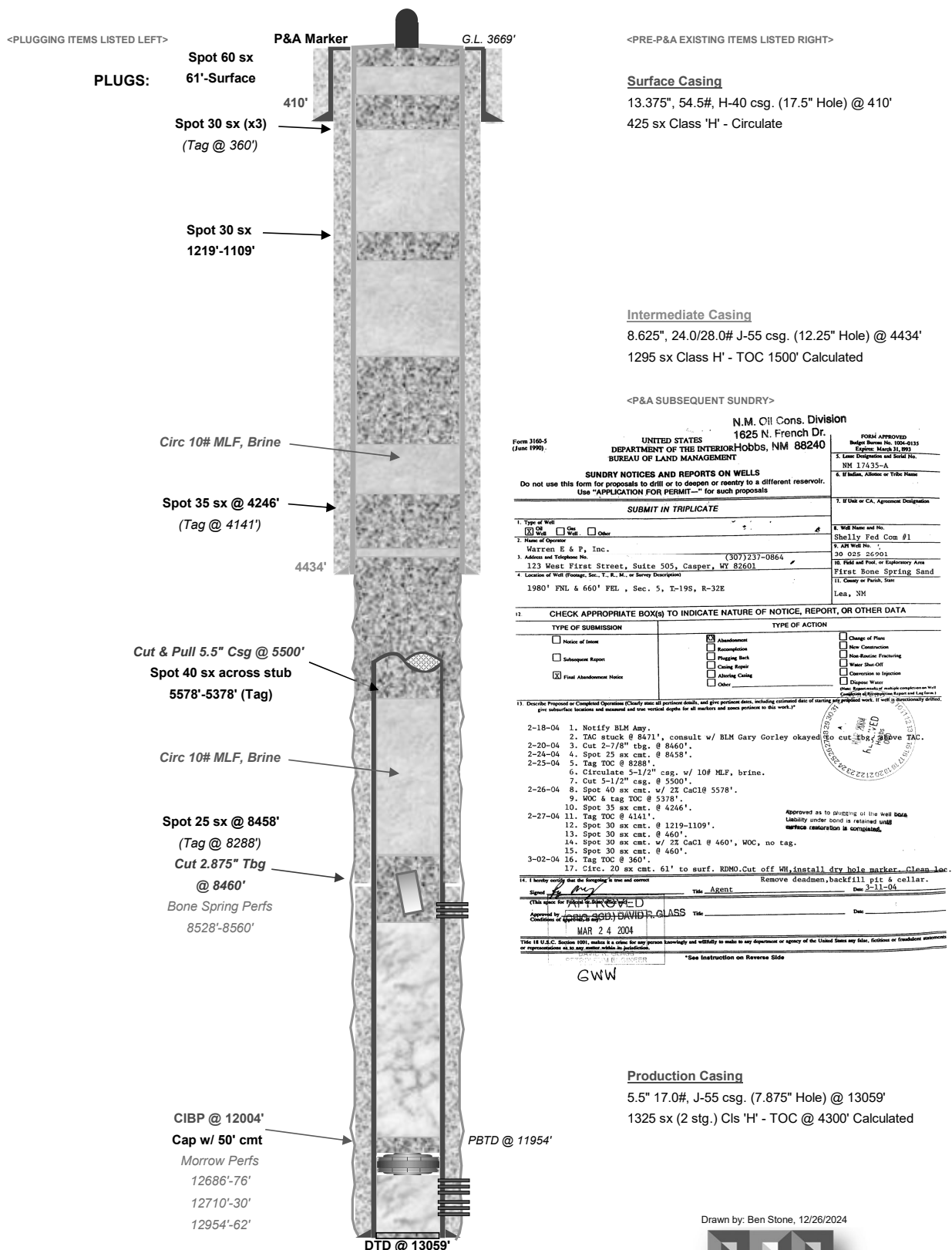
*See Instruction on Reverse Side

Well Plugged by:
Warren E&P, Inc.

API 30-025-26901

1980' FNL & 660' FEL, SEC. 5-T19S-R32E
LEA COUNTY, NEW MEXICO

P&A Date: 3/02/2004



Drawn by: Ben Stone, 12/26/2024



SOS Consulting, LLC

F. BOX 1980

HOBBS, NEW MEXICO 88240

Budget Bureau No. 1004-0135

Expires: March 31, 1993

Form 3160-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

NM071857B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.

W.H. Peckham #1

9. API Well No.

X 30-025-00890

10. Field and Pool, or Exploratory Area

Watkins -Y, SR-QN-GB

11. County or Parish, State

Lea, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Mack Energy Corporation

3. Address and Telephone No.

P.O. Box 1359 Artesia, New Mexico 88211-1359 (505)748-1288

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec. 6 T-19-S R-32-E 1980 FEL 1980FNL

2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment☐ Recompletion☐ Plugging Back☐ Casing Repair☐ Altering Casing☐ Other☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut-Off☐ Conversion to Injection☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 1) Set 4 1/2 C.I.B.P. at 3600' cap w/35' cement
- 2) Load hole W/mud
- 3) Spot 25 sacks of cement plug at 2600'
- 4) Cut and pull 4 1/2 casing at 1088'
- 5) Spot 25 sacks of cement plug at 4 1/2 stub 1138' W.O.C. tag cement top at 1037'
- 6) Spot 25 sacks of cement plug at 8 5/8 shoe 620' W.O.C. tag cement top at 538'
- 7) Spot 20 sacks of cement plug at surface and set P.A. marker

P & A on 8/4/94

Liability under bond is retained until
surface restoration is completed.

Aug 11 11 27 AM '94

RECEIVED

I hereby certify that the foregoing is true and correct.

Signed Raymond A. LaddTitle SupervisorDate 8-8-94

This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEERDate 9/30/94Approved by
Conditions of approval, if any:

8 U.S.C. Section 1001, 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.

CC ANY Mack Energy
LEASE & WELL NO. W.H. Peckham #1
FORMATION _____
COUNTY & STATE _____

ACK ENERGY CORPORATION

Post Office Box 1359
Artesia, New Mexico 88211-1359
Office: (505) 748-1288 • FAX (505) 746-9539

Robert C. Chase

Cellular (505) 365-7331
Residence (505) 746-9570

Spot 25 sx
@ surface

Spot 25 sx @ 620' tag 538'

7 5/8 2 1/2" @ 574' (circ cmt)

Spot 25-sx across stub - tag @ 1037'

Cut & pull 4.5" csg @ 1088'

LOAD HOLE W/ MUD

Spot 25 sx @ 2600'

CIBP @ 3600' w/ 35 cmt cap

← Perfs 3648- 4312

PBTD 4157'

4 1/2 9.5" @ 4382 c/w 250sx Class C (T.O.C. 2500')

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL. (TE)
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0115
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 071857 B	
2. NAME OF OPERATOR FINA OIL & CHEMICAL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P. O. Box 2990, Midland, TX 79702-2990		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit Letter G, 1980' FNL & 1650' FEL		8. FARM OR LEASE NAME Continental A Com Fed Cont A Fed	
14. PERMIT NO. API 30-025-20913		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 3672.6, GL 3654.5		10. FIELD AND POOL, OR WILDCAT Lusk Strawn	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-19-S, R-32-E	
		12. COUNTY OR PARISH Lea	
		13. STATE N.M.	

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANE	(Other)	
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 1) Circulated hole with 10# salt gel from 6919' to surface.
- 2) Pumped 20 sx. C1 "H" plug from 6919'-6800'.
- 3) Pumped 100' plug between 5 1/2" & 8 5/8" casing @ 4089'-3989'.
- 4) Pumped 100' plug from 3300'-3200' outside and inside 5 1/2" casing.
- 5) Spot cement from 60' to surface, 10 sxs.
- 6) Remove wellhead and install marker, clean and rip location 6" deep.
- 7) Well P&A 1-17-90.

18. I hereby certify that the foregoing is true and correct

SIGNED Neva Herndon

TITLE Senior Production Clerk

DATE 11-12-90

(This space for Federal or State office use)

APPROVED BY Orig. Signed [Signature]

TITLE PETROLEUM ENGINEER

DATE 11-27-90

CONDITIONS OF APPROVAL, IF ANY:

Approved on 11-27-90 of the well bore.
Liability under bond is retained until
surface restoration is completed.

*See Instructions on Reverse Side

November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLA
(Other instructions
reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

LC-07-057-B

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Continental "A" Com Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Lusk Strawn

11. SEC., T., R., M., OR B.L. AND

SURVEY OR AREA
Sec 6, T 19S, R 32E,
NMPM

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
FINA OIL & CHEMICAL COMPANY

3. ADDRESS OF OPERATOR
Post Office Box 2990, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
Unit Letter G, 1980' FNL and 1650' FEL,
Section 6, Township 19S, Range 32E, NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3675'
(3676') RKB

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☒

CHANGE PLANS ☐

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- MIRU PU. NU BOP.
- PU workstring & TIH w/3.75" casing swage, 6-3 1/2" drill collars, bumper sub and hydraulic jars.
- Work swage through collapsed casing @ 6993'; TOH w/workstring.
- Change out casing swage, using 1/4" larger swage each trip, up to a maximum of 4.75". TIH w/same bottom hole assembly each trip and work through collapsed section.
- TIH w/5 1/2" cement retainer on workstring. Set retainer @ 11,050'. Squeeze perfs (11,114'-11,554') w/100 sx C1 H cement.
- Sting out of retainer. Circulate 10 ppg mud. Spot 25 sx C1 H cement on top of retainer.
- PUH to 10,200' & spot 25 sx C1 H cement (across Wolfcamp).
- PUH to 8,500' & spot 25 sx C1 H cement (across Bone Springs).
- PUH to 3,650' & spot 25 sx C1 H cement (across Grayburg).
- PUH to 2,900' & spot 25 sx C1 H cement (across 7 Rivers/Queen).
- PUH & spot 5 sx C1 H cement from 50' to surface.
- LD workstring. Weld on plate.
- RD and MDL.
- Restore location.

SEP 20 11 29 AM '89
RECEIVED

* NOTIFY BLM ---
PERF. ---

18. I hereby certify that the foregoing is true and correct

SIGNED Ronald E. Smelley
Ronald E. Smelley

TITLE Division Mgr-Drlg & Production DATE Sep 08 1989

(This space for Federal or State office use)

Orig. Signed by Adam Salameh

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

PETROLEUM ENGINEER

TITLE

DATE 10-11-89

*See Instructions on Reverse Side

PLUGGED WELL SCHEMATIC

Well Plugged by:
Fina Oil Company

Continental A Com Federal #1

API 30-025-20913

1980' FNL & 1650' FEL, SEC. 6-T19S-R32E
LEA COUNTY, NEW MEXICO

Spud Date: 12/22/1951

P&A Date: 1/17/1990

<PLUGGING ITEMS LISTED LEFT>

PLUGS:

Spot 10 sx
60'-Surface

Spot 30 sx (x3)
(Tag @ 360') 650'

Spot 100'
Inside/ outside 5.5" csg
3300'-3200'

Spot 100' between
5.5" & 8.625"
4089'-3989'

Circ Hole w/ Salt Gel
Spot 20 sx
6919'-6800'

Collapsed 5.5" Csg @ 6993'

Wolfcamp Perfs
10254'-10458' (Sqz'd)

Strawn Perfs
11143'-11354'

DTD @ 11471'

P&A Marker

G.L. 3669'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

Surface Casing

13.375", 48.0# J-55 csg. (17.5" Hole) @ 650'
650 sx Incon 50/50 - Circulate

Intermediate Casing

8.625", 32.0# J-55 csg. (12.25" Hole) @ 3599'
300 sx Incon 50/50 - TOC 2700' by Temp.

<P&A SUBSEQUENT SUNDRY>

Form 3160-5
(November 1985)
(Formerly 9-121)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. NAME OF OPERATOR
FINA OIL & CHEMICAL COMPANY

2. ADDRESS OF OPERATOR
P. O. Box 2990, Midland, TX 79702-2990

3. LOCATION OF WELL (Report location clearly and in accordance with all State requirements. See also space 17 below.)
Unit Letter C, 1980' FNL & 1650' FEL

4. PERMIT NO.
API 30-025-20913

5. ELEVATION (Show whether at, on, or etc.)
KB 3672.6, GL 3654.5

6. FIELD NO.
1

7. UNIT AGREEMENT NAME
1

8. FIRM OR LEASE NAME
Continental A Com Fed

9. FIELD NO.
1

10. FIELD AND POOL OR WILDCAT
Lusk Strawn

11. SEC. T. R. OR BLK. AND
RANGE OF AREA
Sec. 6, T-19-S, R-32-E

12. COUNTY OR PARISH
Lea

13. STATE
N.M.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ FILL OR ALTER CASING ☐ WATER SHUT-OFF ☐ REPAIRING WELL ☐

FRACURE TREAT ☐ MULTIPLE COMPLEX ☐ FRACURE TREATMENT ☐ ALTERING CASING ☐

PERMIT OR ACTION ☐ ABANDON ☐ SHOOTING OR CHIPPING ☐ ABANDONMENT ☒

REPAIR WELL ☐ CHANGE PLUG ☐ (Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Resuspension Report and Log form.)

17. INDICATE PROPOSED OR COMPLETED OPERATIONS: (Specify state all pertinent details, and give pertinent data, including estimated date of starting any new work.)

- 1) Circulated hole with 10# salt gel from 6919' to surface.
- 2) Pumped 20 sx. CI "H" plug from 6919'-6800'.
- 3) Pumped 100' plug between 5 1/2" & 8 5/8" casing @ 4089'-3989'.
- 4) Pumped 100' plug from 3300'-3200' outside and inside 5 1/2" casing.
- 5) Spot cement from 60' to surface, 10 SXS.
- 6) Remove wellhead and install marker, clean and rip location 6" deep.
- 7) Well P&A 1-17-90.

I hereby certify that the foregoing is true and correct

SIGNED Neva Herndon TITLE: Senior Production Clerk DATE: 11-12-90

(This space for Federal or State office use)

APPROVED BY Greg Stone TITLE: REGIONAL ENGINEER DATE: 11-27-90

CONDITIONS OF APPROVAL, IF ANY:

Agent shall submit to the Bureau a copy of the surface resolution as required.

*See Instructions on Reverse Side

Production Casing

5.5" 15.5 & 17.0# J-55 csg. (7.875" Hole) @ 11471'
205 sx 50/50 Poz - TOC @ 8650' Calculated

PBTD @ 11954'

Drawn by: Ben Stone, 12/26/2024

SOS Consulting, LLC

Form 3160-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTN.M. OIL & GAS COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry Hole - Plugged and Abandoned

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(N), 660' FSL and 1980' FWL, Sec. 29, T-18S, R-32E

5. Lease Designation and Serial No.

NM-77052

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Watkins 29 Federal #1

9. API Well No.

30-025-32177

10. Field and Pool, or Exploratory Area

North Lusk (Bone Spring)

11. County or Parish, State

Lea Co., NM

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

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☒
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☐
- Other

- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

12/20/93: MIRU. Blew well down to test tank. ND wellhead. NU BOP. Released Uni VI packer. POOH w/ 88 jts 2-3/8" tubing and BHA. RIH w/ tbg. Set CIBP at 3050'. Mix 10# mud, displaced hole w/ mud. Spot 35 sx Cl "C" cement on top of CIBP. POH and lay down 10 jts tubing. EOT at 2735'. Spot 30 sx Cl "C" cmt. POH w/ 48 stands.

12/21/93: ND BOP. Free point csg at 1517'. RIH w/ csg cutter and cut off 5-1/2" at 1520'. POOH w/ 34 jts 5-1/2" J-55 casing and 2 - 14' cut off joints. NU BOP. RIH w/ 48 jts 2-3/8" tubing to 1580'. Spot 30 sx Cl "C" cmt. POOH w/ tbg and SDFN to WOC.

12/22/93: RIH w/ tubing and tag plug at 1424'. POH w/ tbg to 510'. Spot 30 sx Cl "C" (BLM have approval not to tag plug at 510'). POH w/ tbg to 50' and spot 10 sx surface plug. RDPU. Cut wellhead off 3' below ground level and installed dry hole marker w/ legals. Dug up dead men, clean location. Well plugged and abandoned.

14. I hereby certify that the foregoing is true and correct

Signed

Jerry McCullough

Title

Sr. Production Clerk

Date

Dec. 28, 1993

(This space for Federal or State office use)

Approved by

Orig. Signed by Adiana Salameh

Title

Petroleum Engineer

Date

1/21/94

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, 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.

*See instruction on Reverse Side

Form 3160-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-77052

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Watkins 29 Federal #1

9. API Well No.

30-025-32177

10. Field and Pool, or Exploratory Area

North Lusk (Bone Spring)

11. County or Parish, State

Lea Co., NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Dry Hole

2. Name of Operator

Santa Fe Energy Operating Partners, L.P.

3. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(N), 660' FSL and 1980' FWL, Sec. 29, T-18S, R-32E

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

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☒
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☐
- Other

- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Notify BLM 48 hours prior to beginning plugging operations.
2. RUPU. Load tubing and POH w/ packer.
3. Set CIBP by tubing at $\pm 3050'$. Circ hole w/ 9.5# mud.
4. Cut off 5-1/2" casing at 1530' and pull same.
5. RIH w/ open ended tubing and spot Class "C" cement plugs as follows: Cement mixed to 14.8 ppg (yield 1.32).

Depth to EOT	Sacks	Height of Plug	Purpose of Plug
3050'	15	150'	On top of CIBP at 3050'
2735'	30	300'	Span 8-5/8" shoe, Yates top and Salt base.
1580'	20	108'	Span 5-1/2" stub
510'	30	115'	Span 13-3/8" shoe
50'	10	50'	Surface

6. Cut-off wellhead 3' below ground level and install dryhole marker.
7. Clean location.

14. I hereby certify that the foregoing is true and correct

Signed

Gerry McCullough

Title

Sr. Production Clerk

Date

12/15/93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS

Title

PETROLEUM ENGINEER

Date

DEC 28 1993

Conditions of approval, if any:

SEE ATTACHED

Title 18 U.S.C. Section 1001, 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.

Form 3160-5
June 1990UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-77052

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

7. Name of Operator

Santa Fe Energy Operating Partners, L.P.

8. Address and Telephone No.

550 W. Texas, Suite 1330, Midland, TX 79701 (915) 687-3551

9. Location of Well (Footage, Sec., T., R., M., or Survey Description)

(N), 660' FSL and 1980' FWL, Sec. 29, T-18S, R-32E

10. If Unit or CA, Agreement Designation

8. Well Name and No.

Watkins 29 Federal #1

9. API Well No.

30-025-32177

10. Field and Pool, or Exploratory Area

North Lusk (Bone Spring)

11. County or Parish, State

Lea County, NM

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

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☒ Plugging Back
☐ Casing Repair
☒ Altering Casing
☐ Other☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

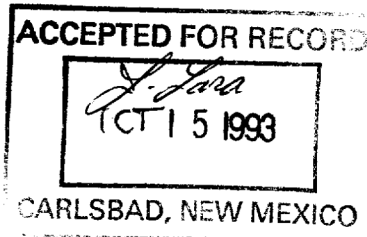
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

9/14/93: Depth 8700' (TD). Logging.

9/15/93: Logging. Stand by. Waiting on orders.

9/16/93: Received permission from BLM to plug back open hole and change casing point. Set 1st cement plug from 8700' to 8500' w/ 50 sx Cl "H" Neat. Cement 2nd plug 6500' to 6400' w/ 35 sx "C" Neat. Cement 3rd plug at 4500' to 4400' w/ 40 sx Cl "C" Neat. LDDP. RU casing crew. Ran 78 jts 5-1/2" 15.5# J-55 csg and set at 3419'. FC at 3330'. Cemented w/ 150 sx Cl "C" Lite followed by 200 sx Cl "C". ND BOP and set slips. Released rig at 7:00 p.m. on 9/16/93. WOCU.



14. I hereby certify that the foregoing is true and correct

Signed Larry M. Culbough Title Sr. Production ClerkDate Sept. 21, 1993

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, 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 statement or representations as to any matter within its jurisdiction.

PLUGGED WELL SCHEMATIC

Well Plugged by:
Santa Fe Energy Op.

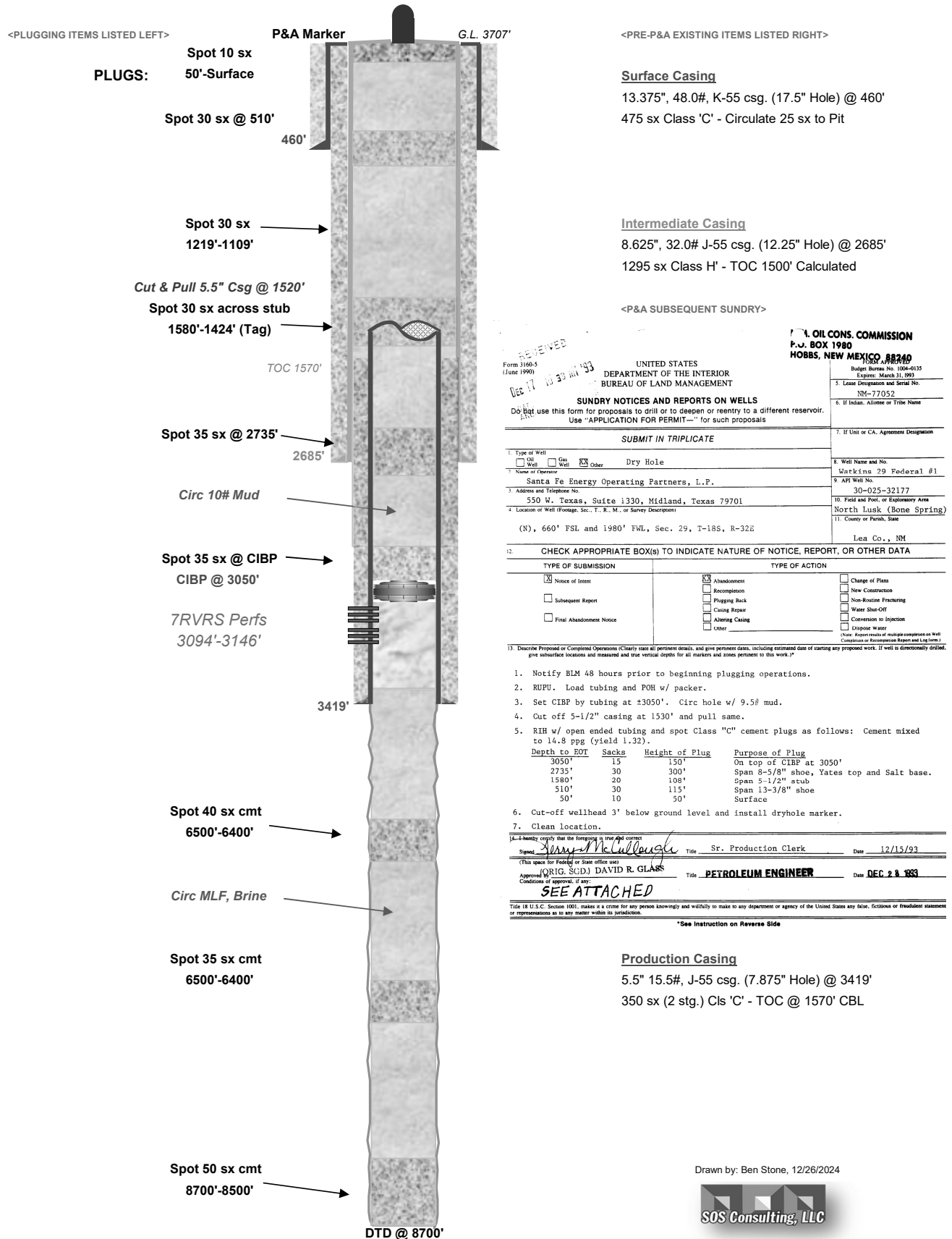
Watkins 29 Federal #1

API 30-025-32177

660' FSL & 1980' FWL, SEC. 29-T18S-R32E
LEA COUNTY, NEW MEXICO

Spud Date: 8/19/1993

P&A Date: 12/22/1993



**Plug Abandonment
Subsequent Report**

OPERATOR NAME:	COG Operating LLC
LEASE NO.:	NMNM23006
WELL NAME & NO.:	LPC 31 Federal #1
US WELL NUMBER:	30-025-37440
LOCATION:	Sec 31, T18S, R32E
COUNTY:	Lea County, New Mexico

10/07/21 MIRU plugging equipment. ND pump jack head, POH w/ rods & pump. 10/08/21 Dug out cellar, NU BOP. POH w/ tbg. RIH w/ 4 1/2" guage ring, tagged existing CIBP @ 8550'. 10/11/21 Tagged CIBP @ 8550'. Spotted 25 sx class H cmt @ 8550-8320'. RIH w/ CIBP. 10/12/21 Set 5 1/2" CIBP @ 8082'. Circ'd hole w/ MLF. Pressure tested csg, held 500 PSI. Spotted 25 sx class H cmt @ 8082' & displaced to 7852' w/ 10 sx MLF. WOC. RU wireline, tagged plug @ 7870'. Spotted 25 sx class C cmt @ 6214' & displaced to 5964' w/ 8 sx MLF per Mila Hackford w/ BLM's request. 10/13/21 Spotted 25 sx cmt @ 4540-4290'. Perf'd @ 2777'. Pressured up to 1000 PSI. Spotted 40 sx class C cmt @ 2994-2594'. WOC. Tagged plug @ 2575'. Perf'd @ 657'. 10/14/21 Sqz'd 180 sx clacc C cmt5 @ 657' & circulated to surface. Rigged down & moved off. 10/26/21 Moved in backhoe and welder. Cut off well head & anchors. Mila Hackford w/ BLM verified cmt @ surface via picture text message. Welded on "Below Ground Dry Hole Marker". Backfilled cellar, cut off deadmen, cleaned location, and moved off.

Plugged

Field	Lusk	PLUGGED	LPC 31 Federal #1	Reservoir: Bone Spring
Created By & Date:	S. Buck 1-30-13 Mobile - (432) 741-5678	Directional: Vertical		
Location:				
Section:	SEC 31-T18S-R32E, 1980'FNL & 2280' FEL Unit G			
County:	Lea County, NM			
Unit and speed:	Lufkin Mill 456D-365-144 @ 5 SPM in the 112" Hole			
Elevation:				

4. Perf'd @ 657'. Sqz'd 180 sx class C cmt5 @ 657' & circulated to surface.

3. Perf'd @ 2777'. Pressured up to 1000 PSI. Spotted 40 sx class C cmt @ 2994-2594'. WOC. Tagged plug @ 2575'.

4. Spotted 25 sx cmt @ 4540-4290'.

3. Spotted 25 sx class C cmt @ 6214' & displaced to 5964' w/ 8 sx MLF per Mila Hackford w/ BLM's request.

2. Set 5 1/2" CIBP @ 8082'. Circ'd hole w/ MLF. Pressure tested csg, held 500 PSI. Spotted 25 sx class H cmt @ 8082' & displaced to 7852' w/ 10 sx MLF. WOC. RU wireline, tagged plug @ 7870'.

1. Tagged existing CIBP @ 8550'. Spotted 25 sx class H cmt @ 8550-8320'.

Well ID Info:	
API No:	30-025-37440
Spud:	10/11/2005

Surf Csg:	13-3/8" 48# H-40
Set @	614.92
Cement w/ circ.	350 sx HLPP 116 sx to pit

Formation Tops	
Rust	1044
Yates	2938
Queen	3652
Grbg	4130
Del	4472
BS	6758

Inter Csg:	8-5/8" 32# J55
Set @	2727.35'
Cement w/ circ.	950 sx HLPP 150 sx to pit

8132', 34', 36', 38', 40', 42', 44', 46', 48' 9 Shots 1st BS Sand
8320', 22', 24', 26', 28', 30', 32' 7 Shots 1st Bone Spring Sand
@ 8550' No CMT
8587 - 8860 1 SPF Bone Spring Dolomite
@ 9150 No CMT
9205 - 9215 2 SPF 2nd Bone Spring Sand

Prod Csg:	239 Jls 5-1/2" 17#
Set @	8680.25
Cement w/ circ.	525 sx Top Cmt 1410' none

TVD: 9986
PBTD: 8550' CIBP
TD: 9990'

Form 9-331
(May 1963)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. W-0114869
2. NAME OF OPERATOR Gulf Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Box 670, Hobbs, New Mexico		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980 FNL, 660 FNL, Sec 31, 18-S, 32-E		8. FARM OR LEASE NAME Holbing Federal #5
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3689 GL		10. FIELD AND POOL, OR WILDCAT Lusk Stream
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 31, 18-S, 32-E
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		12. COUNTY OR PARISH Lea
		13. STATE New Mexico

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11,620' TD. Plugged and abandoned as follows:

Ran tubing open ended. Hit bridge at 10,551'. Could not spot cement plug at 11,147' to 11,247' as proposed on our "Notice of Intention". Circulated hole with mud and spotted 50 sack cement plug from 10,146' to 10,551'. Pulled tubing. Shot 5-1/2" casing off at 9252' and pulled casing. Ran tubing to 9292'. Cemented with 25 sacks of cement. Set 30 sack cement plug from 6800' to 6900', 30 sack cement plug from 4896 to 4996', 30 sack cement plug from 3146' to 3246'. Shot 8-5/8" casing off at 2338' and pulled casing. Set 60 sack cement plug from 1100' to 1200', 65 sack plug from 650' to 750' and 50' plug from surface with 40 sacks. Installed dry hole marker. Plugged and abandoned 8-17-65.

18. I hereby certify that the foregoing is true and correct

SIGNED

ORIGINAL SIGNED BY
G. D. BORLAND

TITLE

Area Production Manager

DATE

September 8, 1965

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

SEP 8 1965

*See Instructions on Reverse Side

J. L. GORDON
ACTING DISTRICT ENGINEER

PLUGGED WELL SCHEMATIC

Well Plugged by:
Gulf Oil Corp.

Federal Helbing E #1

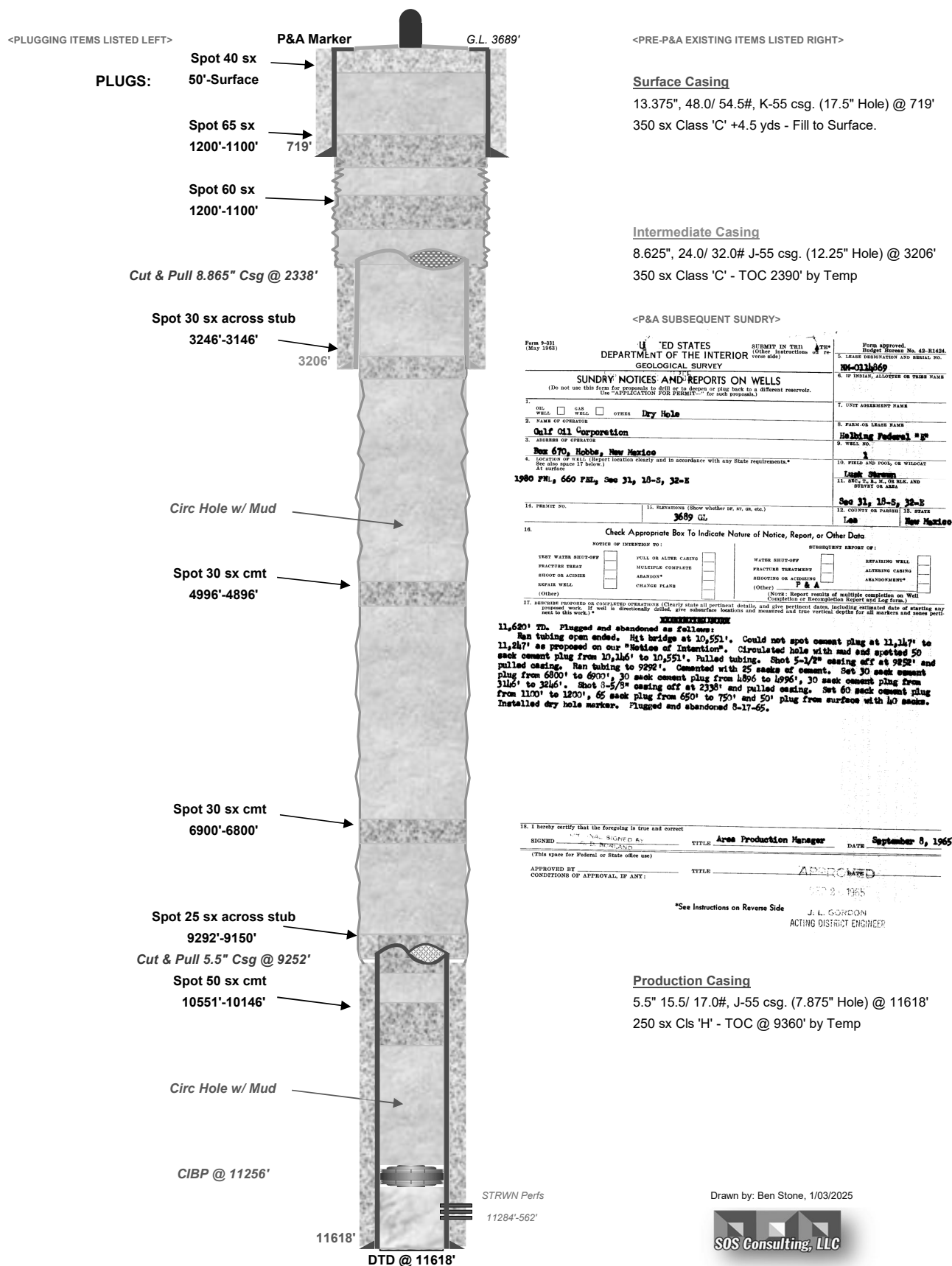
API 30-025-21252

1980' FNL & 660' FEL, SEC. 31-T18S-R32E

LEA COUNTY, NEW MEXICO

Spud Date: 6/01/1965

P&A Date: 8/17/1965



New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007**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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other2. Name of Operator
Beach Exploration, Inc.3a. Address
800 N. Marienfeld, Suite 200, Midland, TX 797013b. Phone No. (include area code)
432/683-6226

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**660' FSL, 660' FEL
SE/4 SE/4 Unit P, Section 31, T18S, R32E**
5. Lease Serial No.
NMNM23006

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Moleen Federal #0019. API Well No.
30-025-2140010. Field and Pool, or Exploratory Area
Young, San Andres South (permitted)11. County or Parish, State
Lea County, New Mexico**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent☐ Subsequent Report☒ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☒ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other

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 recomplate 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 site is ready for final inspection.)

RIH open ended to 4950'; spotted 25 sx plug, tagged TOC @ 4717'.

Circulated hole w/9.5 ppg mud, cut 4 1/2" casing @ 3864', POOH w/casing.

RIH open ended to 3934' (70' inside 4 1/2" casing stub). Spotted 25 sx cement, calc TOC @ 3749'.

PUH to 2029', spotted 75 sx cement plug; tagged TOC @ 1967'; Steve @ BLM recommended to respot 25 sx more to bring TOC up to 1929'.

Calculated TOC @ 1930'.

Spotted 60 sx cement @ 1158', tagged TOC @ 878'.

Pumped 15 sx cement plug from 60' to surface. Install dry hole marker.

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

APPROVED

NOV 15 2004

**CARY GOURLEY
PETROLEUM ENGINEER**

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

Brenda MartinTitle **Engineer Assistant**

Signature

Date

11/10/2004**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

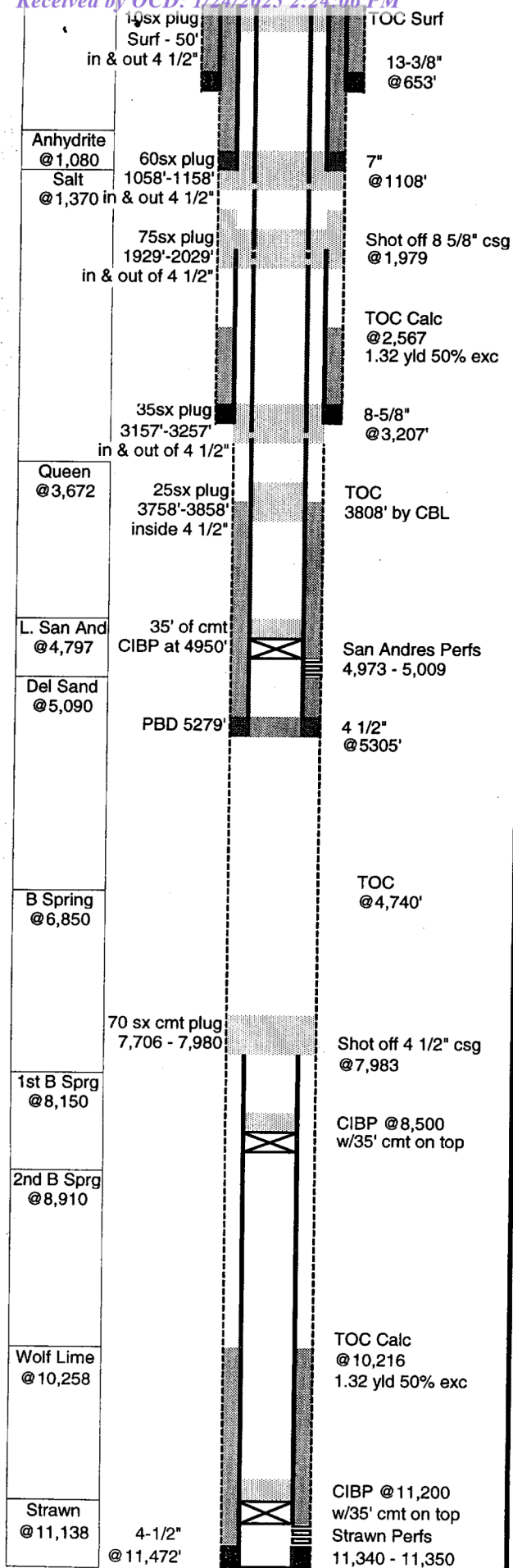
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

GW



U.S.A. Moleen Unit #1

GL: 3,672
KB: 3,689
TD: 11,473
PBD: 5,279'
Fr. Wtr:
Legal: 660 from S
 660 from E
Status: P&A
Perfs:
API:
NM Lse: 136272
Field: Lusk (Strawn)
Section: 31
Township: 18S
Range: 32E
County: Lea

Casing	Wt	Type	Set	Cmt	Hole	TOC	Method
13-3/8"			653	600	est 17-1/2	Surf	Circ
8-5/8"			3,207	300	est 12-1/4	2,567	Calc 50% exc
4-1/2"			11,472	325	7-7/8"	10,216	Calc 50% exc

14-Mar-65 Spud well
Tenneco Oil Co. - U.S.A. Moleen Unit #1

19-Apr-65 **Strawn Completion**
 Perforated: 11,340' - 11,350' Acidized w/2500 gal
 Potential: flowing 420 BOPD 832 MCFPD, 47 API gravity, FTP 1150 psi 16/64" ch

23-Aug-74 P&A

Casing	Wt	Type	Set	Cmt	Hole	TOC	Method
7"	23.00	J55 8rd LT&C	1,108	650	12 1/4	Surf	Circ 225 sx
4-1/2"	11.60	J55 8rd LT&C	5,305	350	7-7/8"	3808'	CBL

Dec-01 **Beach Exploration - Reentry**
 Cleaned out well bore to 5325' w/ 7 7/8" bit
 Ran 7" casing to 1108' cmt w/650sx circ to surf
 Ran 4 1/2" casing to 5305' cmt w/350sx to 3808'
 Perf San Andres 4973' - 5009'
 Acidized w/ 500 gal 15% and 7200 gal 15%
 Swabbing at rate of 2 to 3 BOPD
 Well non commercial

PROPOSED PLUGGED CONDITION

TUBING STRING

# OF JTS	DESCRIPTION	LENGTH	FROM	TO
	Distance from KB to top of pipe	17.00	0.00	17.00

ROD STRING

# OF JTS	SIZE	TYPE OF RODS	LENGTH
----------	------	--------------	--------

Submit 1 Copy To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
October 13, 2009

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-26703
7. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
7. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Lear State SWD
8. Well Number 229137
9. OGRID Number 229137
10. Pool name or Wildcat SWD; Strawn
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3690' GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <u>SWD</u>	
2. Name of Operator COG Operating LLC	
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210	
4. Well Location Unit Letter <u>J</u> : <u>1980</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>32</u> Township <u>18S</u> Range <u>32E</u> NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3690' GR	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Re-Entry Operations (SWD) & P&A ☒

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

8/26/10 MIRU WSU.

8/27/10 Dress off 9 5/8" csg stub. Weld extension onto stub & install csg head.

8/30/10 Began drilling. Drld 45'.

8/31/10 to 9/30/10 Resumed drilling. Drilled & cleaned out to 1840'.

10/1/10 Decision made to P&A well on Monday 10/4/10. Received verbal approval from Paul Kautz (NMOCD-Hobbs) for plugging procedure.

10/4/10 TIH with 2 7/8" tbg & tag 5 1/2" stub @ 1840'. Circulate hole with 9 PPG plugging mud. Pumped 40 sx P+ @ 1840'. WOC 2 hrs. Tag top @ 1732'. LD 18 jts. Pumped 40 sx P+ @ 1231'. WOC 2.5 hrs. Tag @ 1108'. LD 23 jts. Pumped 40 sx P+ @ 481'. WOC.

10/5/10 Tag top @ 341'. LD 10 jts. Cut off W/H. Set surface plug @ 60' from surface. Pumped 30 sx P+. LD 2 jts. Top off csg with cmt. Install dry-hole marker. RDMO WSU.

PLUGGED & ABANDONED. FINAL REPORT.

Spud Date: 8/26/10 Re-Entry

Rig Release Date:

Approved for plugging of well bore only.
Liability under bond is retained pending receipt
of C-103 (Subsequent Report of Well Plugging)
which may be found at OCD Web Page under
Forms, www.emnrd.state.nm.us/oed.

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

SIGNATURE Storm Davis TITLE Regulatory Analyst DATE 12/28/10

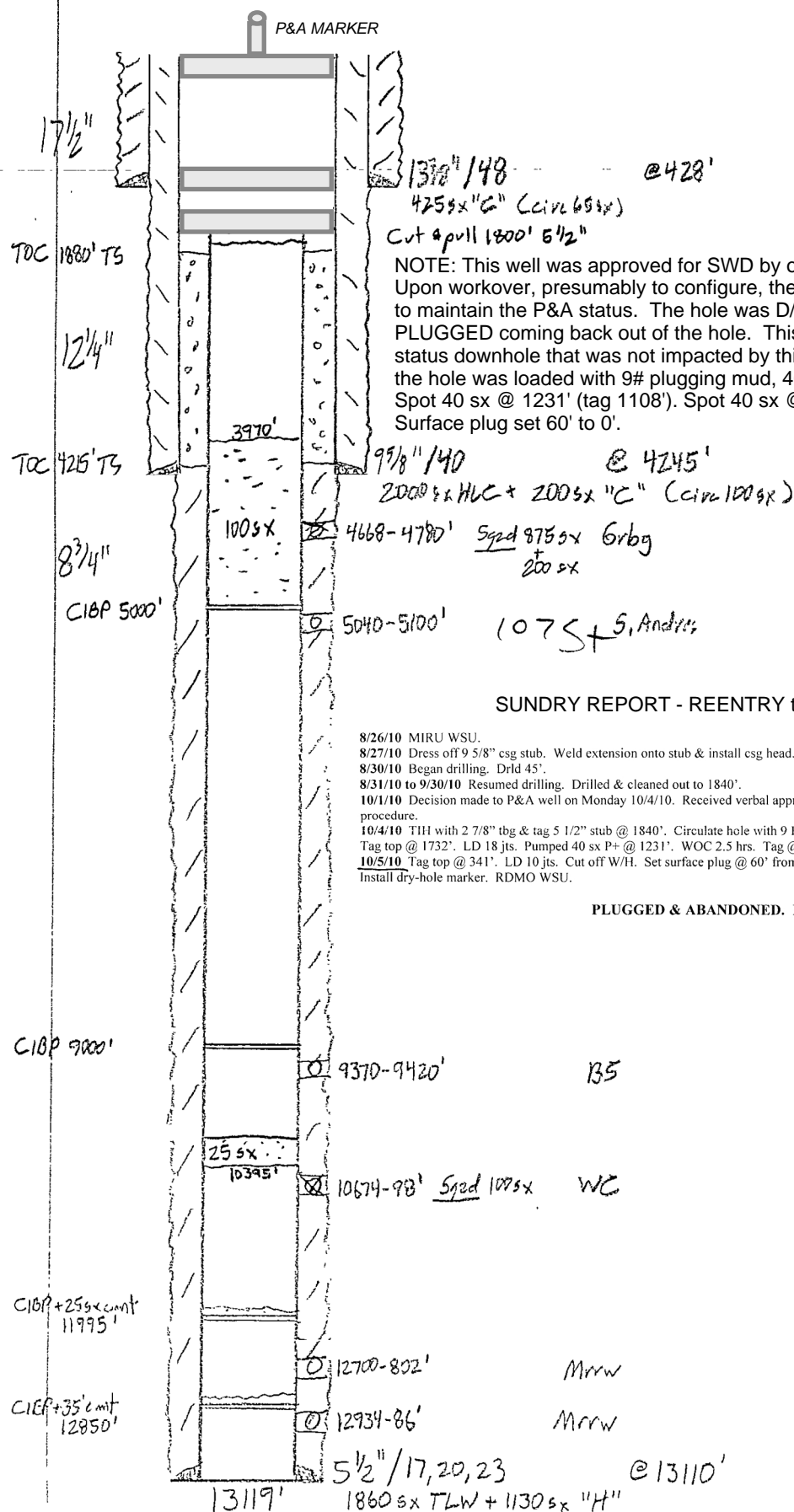
Type or print name Storm Davis E-mail address: sdavis@conchoresources.com PHONE: 575-748-6946

For State Use Only
APPROVED BY: [Signature] TITLE Staff Mgr DATE 1-4-2011

Conditions of Approval (if any):

30-025-26703

State HV-1
1780' FSL, 1980' FEL
J-32-18g-32e
Lean NM



Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Mining and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

L61044

7. Lease Name or Unit Agreement Name

Lusk State

8. Well No.

1

9. Pool name or Wildcat

Lusk Strawn

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. Name of Operator

Damson Oil Corporation

3. Address of Operator

3300 N "A", Building 8, Suite 100, Midland, Texas 79705

4. Well Location

Unit Letter M : 660 Feet From The South Line and 660 Feet From The West Line

Section 32 Township 18S Range 32E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3692' DF

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. WITNESSED BY: RAY SMITH & JACK GRIFFIN OF N.M.O.C.D.

1. RIH with 5 1/2" CIBP to 9610', stopped by obstruction.

2. POH with CIBP.

3. RIH open ended with 2 3/8" tubing to 11,315'.

4. Spotted 50 sks. cement w/lost circ. material at 11,315', WOC, plug not there

5. Spotted 45 sks. cement w/lost circ. material at 11,315', WOC, tagged cement at 11,065'.

6. Loaded hole with brine and saltwater gel.

7. Cut and pull 4150' 5 1/2" casing.

8. RIH with tubing and spot 25 sks. cement at 6947'.

9. POH to 4200' and spot 45 sks. cement from 4200'-4080', WOC, tagged plug at 2604'.

10. Drilled out plug at 2604'.

11. RIH and spotted 45 sks. plug from 4190'-4090', WOC, plug not there.

12. Spotted 3rd-45 sks. plug from 4190-4090' WOC, tag at 4152', pump 10 sacks.

13. Spotted 45 sks. plug at 3243 WOC, plug not there.

14. Spot 25 sks., WOC, tagged plug at 3178'.

15. Spot 25 sks. at 1000', WOC tagged at 887'.

16. Spot plug at 748', WOC, tagged at 547'.

17. Spot 50 sks. surface plug. P & A COMPLETE 4/26/90.

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

SIGNATURE Donald R. Craig TITLE District Engineer DATE May 10, 1990

TYPE OR PRINT NAME

TELEPHONE NO.

(This space for State Use)

APPROVED BY Lyle F. Turnacliff TITLE OIL & GAS INSPECTOR DATE MAY 11 1990

CONDITIONS OF APPROVAL, IF ANY:

R N FAX 32-12-22

Well Schematic and History

Lease: Lusk State Well: 1 Field: Lusk Strawn
 Location: 660' From South Line and 660' From West Line
Unit M, Section 32 - T18S - R32E County: Lea State: New Mexico

API No.: _____

Spud Date: 4/22/1965
 Compl. Date: _____

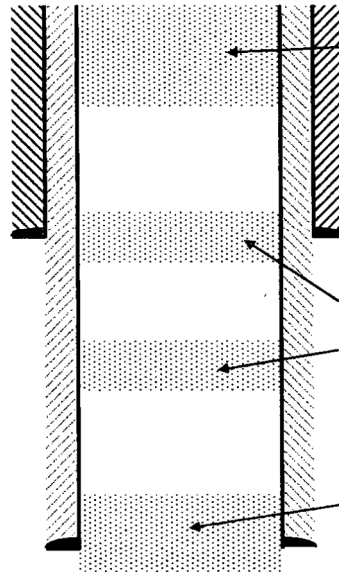
GL: _____
 DF: 3692'
 KB: _____

SURF CSG

13 3/8" 48# @ 638'
 Cmt'd w/ 510 sx (17 1/2" hole)
 TOC @ surface by circ.

INTER CSG

8 5/8" 32# @ 3211'
 Cmt'd w/ 900 sx (11" hole)
 TOC @ surface by circ.

**DATE INITIAL COMPLETION DATA:**

6/1/65 PERF Strawn 11520-40'
 Swabbed dry
6/7/65 PERF Strawn 11396-436', 470-76' w/ 1spf
 Acidized each zone w/ 2500 gal. acid
 IP 336 BO flowing

25 sack plug @ 748', tagged @ 547'

25 sack plug @ 1000', tagged @ 887'

45 sack plug @ 3243', d/n tag. Spot 25 additional sacks.
 Tagged @ 3178'

45 sack plug 4090-4190', tagged @ 4152'. Spot 10 additional sacks.
 Estimated TOC @ 4132'
 Cut & pulled 5 1/2" casing @ 4150'

25 sack plug @ 6947'

Top of cmt @ 10618'

Strawn perms 11396-476'

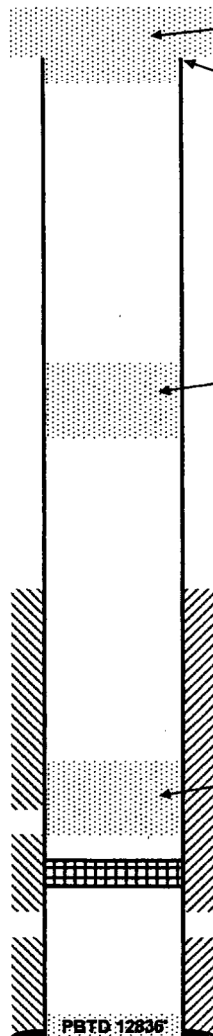
BP @ 11500'

Strawn perms 11632-42'

45 sack plug, tagged @ 11065'

PROD CSG

5 1/2" 17 & 20# @ 11600'
 Cmt'd w/ 270 sx (7 7/8" hole)
 TOC @ 10618' by calc (50% excess).



PBTD 12836'

PREPARED BY: JNC

Revised: 1/13/2004

Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-21443
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Latigo Petroleum		6. State Oil & Gas Lease No.
3. Address of Operator 415 W. Wall, Suite 1900 Midland, TX 79701		7. Lease Name or Unit Agreement Name North Lusk 32 State
4. Well Location Unit Letter M : 660 feet from the South line and 660 feet from the West line Section 32 Township 18S Range 32E NMPM County Lea		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3678'		9. OGRID Number 227001
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Lusk, N. Bone Springs
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☒
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates; including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

P&A as follows:

Circulate hole w/ mud laden fluid.

Spot 40 sx cement plug from 3177' - 3022'

Spot 40 sx cement plug from 1347' - 1195'

Spot 25 sx cement plug from 635' - 536', tagged

Spot 25 sx surface plug, 135'-0'

Cut off wellhead, weld on dry hole marker.

Spot 25 sack surface plug.

Install P&A marker.

Approved as to plugging of the Well Bore.
 Liability under bond is retained until
 surface restoration is completed.



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Joe N. Clement TITLE Sr. Operations Engineer DATE 10/21/2004

Type or print name Joe N. Clement
 For State Use Only

E-mail address: jnclement@latigopetro.com Telephone No. (432)684-4293

APPROVED BY: Harry W. Wink TITLE OG FIELD REPRESENTATIVE II/STAFF MANAGER

Conditions of Approval (if any): _____ DATE OCT 26 2004

Form 3180-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of well

☐ Oil ☐ Gas ☐ Other

2. Name of Operator

CHEVRON U.S.A. INC.

3. Address and Telephone No.

P. O. Box 1150, Midland, TX 79702 (915)687-7148

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 660' FWL

SEC. 33, T18S, R32E UNIT K

5. Lease Designation and Serial No.

NM 26640

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

PATTERSON FEDERAL 33 #1

9. API Well No.

30-025-33411

10. Field and Pool, or Exploratory Area

LUSK SAN ANDRES

11. County or Parish, State

LEA, NM

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

12. TYPE OF SUBMISSION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment☐ Recompletion☐ Plugging Back☐ Casing Repair☐ Altering Casing☐ Other☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut-Off☐ Conversion to Injection☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimate date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLUGGED PER BLM RECOMMENDATIONS:

PUMPED 40 SX CLASS C 4949'-4790'.

PUMPED 35 SX CLASS C 2677'-2547'.

PUMPED PLUG 1259'-1150'.

PUMPED 50' CEMENT TO SURFACE.

WELL P&A'D 7/4/96

ACCEPTED
FOR RECORD

JUL 9 1996

V.R. BALDERAZ

BUREAU OF LAND MGMT
HOBBS, NM

JUL 9 3 34 PM '96

RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed

Title

T. A.

Date

7/8/96

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, 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.

*See Instructions on Reverse Side

PLUGGED WELL SCHEMATIC

Patterson Federal 33 #1

API 30-025-33411

1980' FSL & 660' FWL, SEC. 33-T18S-R32E
LEA COUNTY, NEW MEXICO

Spud Date: 6/19/1995

P&A Date: 7/04/1996

Well Plugged by:
Chevron USA, Inc.

<PLUGGING ITEMS LISTED LEFT>

PLUGS:

Spot 10 sx
50'-SurfaceSpot 30 sx
1259'-1150'Spot 35 sx
2677'-2547'

Circ Hole w/ MLF

Spot 20 sx
4949'-4790'Lost Bit and Collars
in Hole @ 5482'
(Fished??)

DTD @ 5482'

P&A Marker G.L. 3684'

<PRE-P&A EXISTING ITEMS LISTED RIGHT>

Surface Casing
N/AIntermediate Casing
8.625", 32.0# J-55 csg. (12.25" Hole) @ 1205'
400 sx Cls 'C' - TOC @ 136'
Topped in 65 sx - Circ. 8 sx to pit.

<P&A SUBSEQUENT SUNDRY>

Form 3100-5 (June 1990)		UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT P.O. BOX 1980 HOBBBS, NEW MEXICO 88340		FORM APPROVED Budget Bureau No. 1004-0125 Effective March 20, 1992	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.				6. Indian, Allocated or Tribe Name N/A	
SUBMIT IN TRIPLICATE				7. If Unit or CA, Agreement Designation N/A	
1. Type of well <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other		2. Name of Operator CHEVRON U.S.A. INC.		3. API Well No. 30-025-33411	
3. Address and Telephone No. P.O. Box 1150, Midland, TX 79702 (915) 887-7148		4. Location of Well (Ownership, Sec., T., R., M., or Survey Description) 1980' FSL & 660' FWL SEC. 33, T18S, R32E UNIT K		5. Field and Pool, or Supplementary Area LUSK SAN ANDRES	
CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA				11. County or Parish, State LEA, NM	
12. TYPE OF SUBMISSION <input type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice		TYPE OF ACTION <input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other		<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Well Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water 13. Name, grade, and number completion on that Completion or Recommendation Report and Log (see)	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimate date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PLUGGED PER BLM RECOMMENDATIONS:

PUMPED 40 SX CLASS C 4949'-4790'.
PUMPED 35 SX CLASS C 2677'-2547'.
PUMPED PLUG 1259'-1150'.
PUMPED 50' CEMENT TO SURFACE.

WELL P&A'D 7/4/96

ACCEPTED
FOR RECORD
JUL 9 1996

V.R. BALDERAZ

RECEIVED
JUL 9 3 34 PM '96
BUREAU OF LAND MGMT
HOBBBS, NM

14. I hereby certify that the foregoing is a true and correct copy of the original as submitted.		Title T. A.		Date 7/8/96	
(This space is reserved for State official use)		Title		Date	
Approved by:		Title		Date	

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

Production Casing
N/A

Drawn by: Ben Stone, 12/27/2024

SOS Consulting, LLC

C-108 ITEM VII – PROPOSED OPERATION

North Lusk 32 State SWD No.1

Commercial SWD Facility

Background

The subject SWD, previously permitting for Devonian disposal, commenced injection in January 2016. Rates were modest, averaging 1000 to 2000 bwpd at 0 psi, presumably vacuum. Injection continued at similar rates, often much less, until September/ October 2016 when the well failed a mechanical integrity test. Solaris acquired the well from COG Operating in July 2019. In August 2021, 35 bbls was pumped while monitoring the annulus to confirm an issue with the tubing. Solaris filed various sundry notices to inform of the repair process. The tubing was pulled in July 2023, the bad section was identified, and the tubing was stacked. Solaris filed a TA sundry to secure the well while a new C-108 was prepared and filed to reinstate the well as a Devonian SWD.

Subsequently, during the two year wait for processing, seismic activity in the state caused OCD to assess the viability of continued default C-108s for SWDs in the Devonian. Solaris reviewed the area around the North Lusk well to consider FSP and seismic analysis. It was determined that a lack of [commercially available] fault data and indications that there may indeed be some faulting in such proximity, that considering recent cases for DMG disposal, particularly as presented by Chevron for some of its disposal efforts, that the Lusk would be reviewed for this potential. Log cross sections show that a long interval of (DMG) Brushy Canyon exists and offers some decent, clean sandy intervals with good porosity that will present good disposal possibility which is the subject target of this C-108.

A current wellbore diagram is included to reflect the TA status of the well with 2 retrievable bridge plugs set above the casing shoe.

Configure for Salt Water Disposal

Prior to commencing any additional work, NOI sundry(ies) will be submitted and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

Being tied into existing Solaris pipelines and other infrastructure, the well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 15,000 bpd and an average of 8,500 bpd at a maximum surface injection pressure of 1060 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. The operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as necessary and appropriate.

C-108 ITEM X – LOGS and AVAILABLE TEST DATA


A **Cross-Section** presentation with offsetting wells to west and east of the proposed SWD to identify the Brushy Canyon interval and confining layer strata is shown in the next [geological] section.

Other previously run logs are on file with the OCD. Solaris had the raster logs digitized for the up-hole sections, so the new injection interval is covered as well.

A section of the Radial Cement Bond Log (4000' to 7000') is included and shows good cement bond above and below the proposed injection interval.

Bottomhole Pressure calculations were performed using the various parameters and presented with corresponding charted wellhead pressure.

A Radial CBL Log Strip and BHP Exhibits follow...

		Radial Cement Bond Gamma Ray / CCL Log	
		HOBBS OCD NOV 24 2015	
<div>Company COG Operating</div> <div>Well North Lusk 32 State SWD 1</div> <div>Field SWD; DEV-FUS-MON-SIMP-ELL</div> <div>County Lea</div> <div>State New Mexico</div>		RECEIVED	
		Location: API #: 30-025-41525	
		SHL: 1550' FSL 1800' FWL LAT: 32.70 ; LONG: -103.79	
		Permanent Datum Log Measured From Drilling Measured From	
		Ground Level Kelly Bushing Kelly Bushing	
Elevation K.B. 3711 D.F. 3710 G.L. 3685			
Date Run Number Depth Driller Depth Logger Bottom Logged Interval Top Log Interval Open Hole Size Type Fluid Density / Viscosity Max. Recorded Temp. Estimated Cement Top Time Well Ready Time Logger on Bottom Equipment Number Location Recorded By Witnessed By		Oct. 21 2015 One 15131 13890 13890 200 7.625 water n/a n/a 398 Ready on Arrival 20'30 100199 Hobbs F. Carrillo J. Stanley	
Run Number		Borehole Record	
Bit		From To	
Size		Weight	
Tubing Record		From To	
Casing Record		Size	
Surface String		13.375	
Prot. String		9.625	
Production String		7	
Liner			

Injection Interval
5300' to 6650'

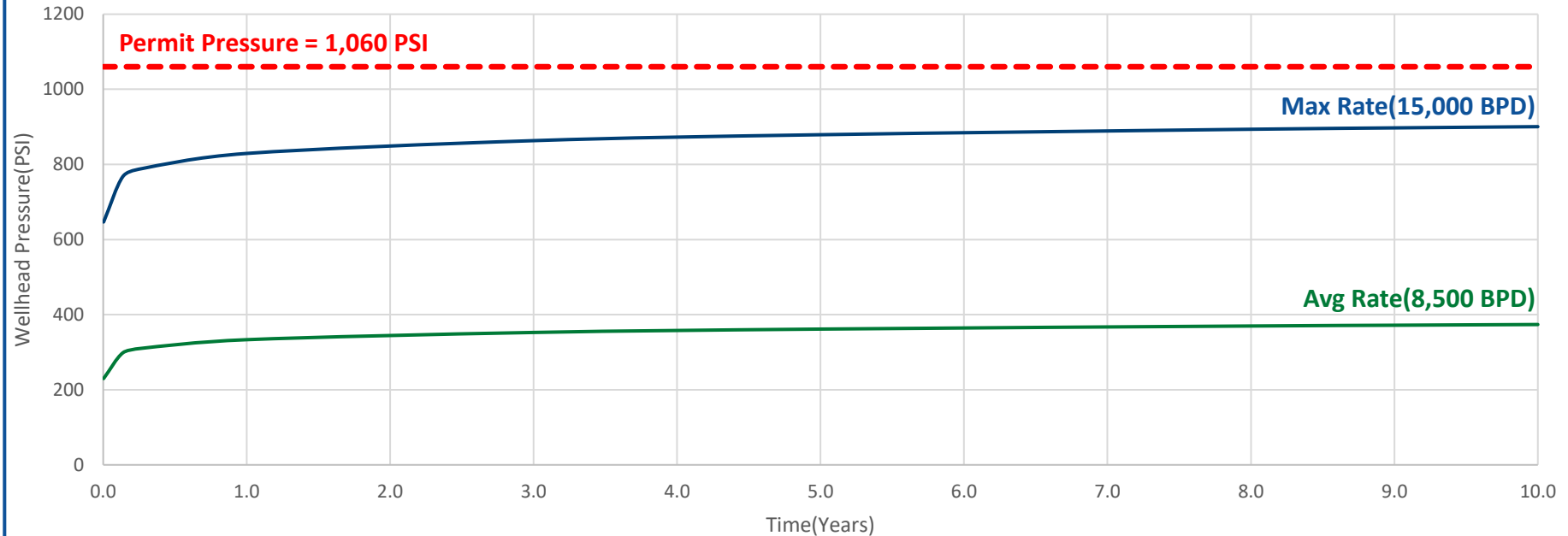


North Lusk BHP Calculations

January 2025

North Lusk 10 Year WHP Calculations

North Lusk 32 State SWD #1: 10 Year Pressure Rise Calculation



Estimated Permit Pressure	
Formation Name	North Lusk
Estimated Permit Pressure(PSI)	1060.0

Geologic Parameters Link	
Parameter Name	North Lusk
Formation Top(TVD)	5300.00
Gross Height(FT)	1350.00
Net Height(FT)	1319.10
Avg Porosity(%)	0.15
Perm(mD)	20.76

Tubular Friction Parameters	
Tubing Inputs	IPC 1
OD	4-1/2"
Weight(PPF)	13.1
ID (coated)	3.735
ID	3.920
Rel. Rough (e/D)	0.000401

Hydrostatic Pressure	
Formation	North Lusk
Fluid Density(PPG)	8.80
Top of Injection Interval(FT)	5300.00
Bottom of Injection Interval(FT)	6650.00
HydroStatic Pressure(PSI)	2734.2

Average Initial Reservoir Pressure	
Formation	North Lusk
Initial Pressure Gradient(PSI/FT)	0.433
Avg Initial Reservoir Pressure(PSI)	2587.18

Pressure Rise/Skin Parameters	
Formation	North Lusk
Permeability (md)	20.76
Height (ft)	1319.10
Viscosity (cp)	0.8000
Compressibility (psi-1)	6.60E-06
Porosity(Decimal)	0.15
Wellbore Radius (ft)	0.258
Drainage Radius(ft)	158400
Skin Factor	0

C-108 – Item VIII

Geologic Information

The following exhibits and narrative were prepared by Solaris Water Midstream engineering and geology staff in support of this application.

Narrative descriptions

- a. **Proposed Interval** (par.1)
- b. **Geology, Lithology** characteristics (par.2)
- c. **Offset production** characteristics (par.3)
- d. **Freshwater** (par.4)
- e. **Capitan Reef & Confining Strata** (par.5)
- f. **Seismicity** (as identified, pars.7,8)
- g. **Works Cited** (as identified)

Figures

- h. **Figure 1 - Index Map**; Regional map showing Capitan Reef
- i. **Figure 2 – Local Cross Section of Injection Interval**; Brushy Canyon target is identified from subject well log and offsetting wells
- j. **Figure 3 – Top Brushy Injection Structure Map**; Identifies well log locations for structure control points and map horizon defined on log.
- k. **Figure 4 - Cross Section** presentation corresponding from A to A prime.
- l. **Figure 5 – Injection Interval Isopach** – developed from above-mentioned control points and Figure 4 Cross Section.
- m. **Figure 6 – Seismicity Risk**; Presentation of known and cited faults and SHmax information.

All exhibits follow this page...

VIII. Geologic Description

The proposed injection interval between 5,300 and 6,350 feet measured depth is within the Brushy Canyon Formation. The top of the Lower Brushy Canyon is interpreted to be at 6,355 feet measured depth, based on open-hole logs, and is excluded from the injection interval.

The Brushy Canyon Formation in this area consists of interbedded sequences predominantly composed of sandstone and siltstone, with minor amounts of shale. Most of the 1,350-foot-thick injection interval has over 10% porosity (Figure 2) and is laterally continuous within the project area (Figure 4), making it a suitable target for high-rate injection (15,000 barrels of water per day).

The risk of interference with production from the Brushy Canyon Formation and the Delaware Mountain Group overall is low, as there is limited production near the subject well. The nearest active production wells in the zone are nearly two miles from the North Lusk 32 State SWD #1. Both producing wells are low volume, with reported production over the last 12 months (L12M) averaging less than 1 barrel of oil per day (bopd) and less than 1.5 bopd, respectively. The nearest significant production is from the Shugart East field, which averages over 200 bopd (L12M) and is located 2.4 miles away and 400–500 feet up-dip from the proposed injection site (Figure 3). The Delaware Mountain Group and Avalon Shales have not been targeted for horizontal development in this area, and the well is located outside both the DMGRA and DMGHRP areas (Figure 1).

Freshwater in the area is limited but may generally be available from the Santa Rosa or Dewey Lake Formations. OSE records indicate that water wells in the area have an average groundwater depth of 318 feet in the township. The base of the lowermost Underground Source of Drinking Water (USDW), identified as the top of the first anhydrite, is located at the top of the Rustler Formation at a depth of 1,141 feet below ground level. State Engineer records also show one water/monitor well within one mile of the subject SWD; however, this well was drilled and subsequently plugged with no or minimal water show (*as documented in the water well section of the application*).

The subject well is located in the back platform relative to the Capitan Reef, where the remnant Delaware Mountain Group is overlain by the platform formations of the Artesia Group (Figures 1 and 3). The well is over a mile and a half from the back edge of the Capitan Reef, as delineated by Hiss (1975). Upper confinement is provided by a low-porosity, high-resistivity (indicating low permeability) carbonate interval within the Cherry Canyon Formation, located between 4,812 and 5,158 feet measured depth. This interval is laterally extensive and correlates even as it thins toward the basin (Figure 5).

Deeper formations, such as the Bonespring sands and Wolfcamp, which have been exploited by horizontal drilling, are isolated from the injection interval by the 1,350-foot-thick Bonespring Lime and Avalon Shales underlying the Brushy Canyon Formation.

All depths and thicknesses stated here are estimated from the subject well's logs or from mapping using offset wells that have penetrated the relevant formations.

Seismicity

Solaris is pursuing recompletion to a Brushy Canyon disposal, rather than returning the well to injection in the Devonian, partly due to challenges associated with assessing seismicity risk in this area. The Atoka faults mapped by Price et al., (2022) are not expressed at the Brushy Canyon and shallow injection is at low risk of causing induced seismicity.

The region surrounding the North Lusk SWD #1 has been seismically quiescent (Figure 6 shows USGS seismic events in the region), and the well is not in a Seismic Response Area. Published data on maximum horizontal stress (SHmax) indicates that the orientation of SHmax rotates in the region around the North Lusk 32 SWD #1 (Dvory and Zoback, 2021; Snee and Zoback, 2022). FSP 2.0 can only accommodate a single azimuth for SHmax, complicating any quantitative assessment of induced seismicity risk (Walsh et al., 2018).

Works Cited:

- Hiss, W.L., 1975, New Mexico Bureau of Geology & Mineral Resources, Resource Map 4: The Chloride-Ion Concentration in Ground Water in Permian Guadalupian Rocks, Southeast New Mexico, and West Texas: New Mexico Bureau of Geology & Mineral Resources, <https://doi.org/10.58799/RM-4>
- Dvory, N.Z., and Zoback, M.D., 2021, Prior oil and gas production can limit the occurrence of injection-induced seismicity: A case study in the Delaware Basin of western Texas and southeastern New Mexico, USA: *Geology*, v. 49, no. 10, p. 1198–1203, <https://doi.org/10.1130/G49015.1>
- Price, B.J., Janson, X., Kerans, C., 2022. Controls on Mixed Carbonate-siliciclastic Slope Morphology, Early Permian, Northern Delaware Basin, U.S.A. *Marine and Petroleum Geology* 143, 105773. <https://doi.org/10.1016/j.marpetgeo.2022.105773>
- Snee, J.-E.L., Zoback, M.D., 2022. State of stress in areas of active unconventional oil and gas development in North America. *AAPG Bulletin* 106, 355–385. <https://doi.org/10.1306/08102120151>
- Walsh, F. R., Zoback, M. D., Lele, S.P., Pais, D., Weingarten, M., and Tyrrell, T. (2018) FSP 2.0: A Program for Probabilistic Estimation of Fault Slip Potential Resulting from Fluid Injection, User Guide from the Stanford Center for Induced and Triggered Seismicity, available at <https://www.beg.utexas.edu/texnet-cisr/fsp>

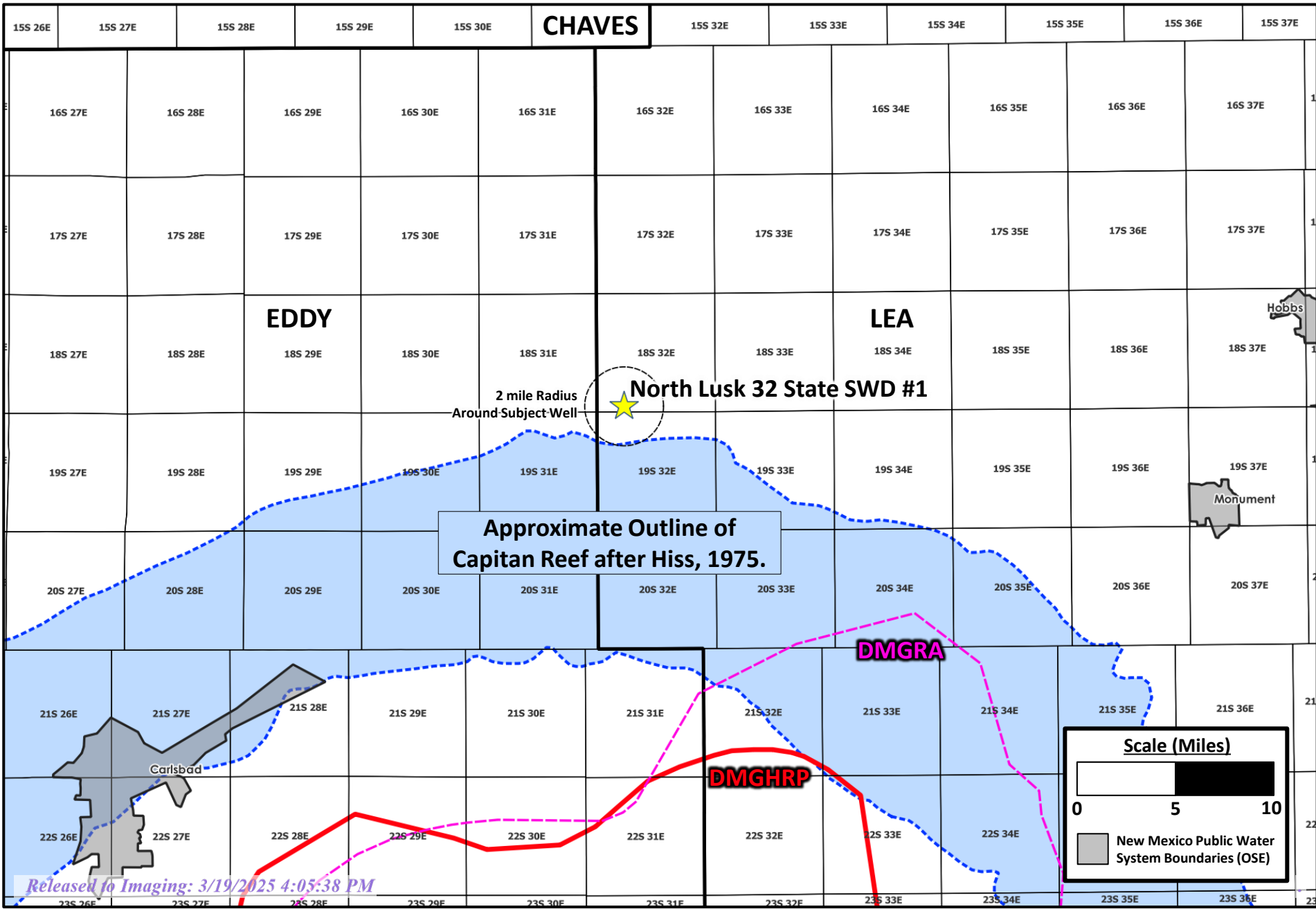


Figure 2: Local Cross Section of Injection Interval

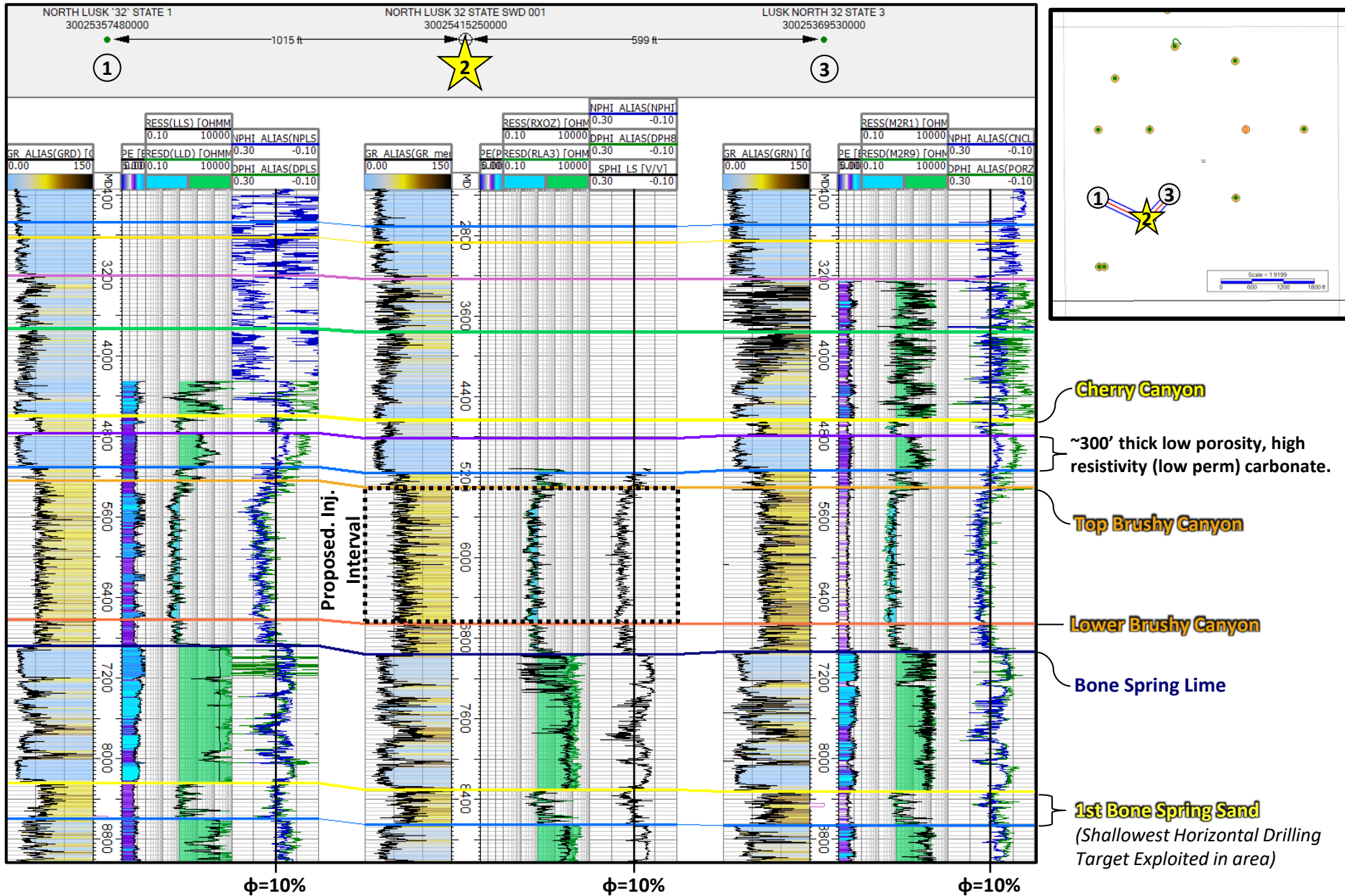


Figure 3: Top Brushy Injection Structure Map (Subsea TVD)

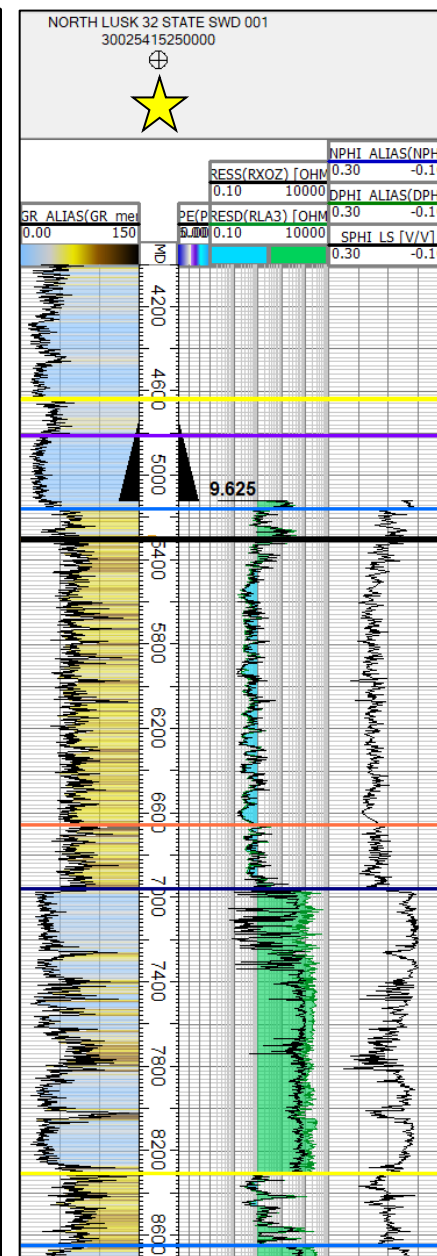
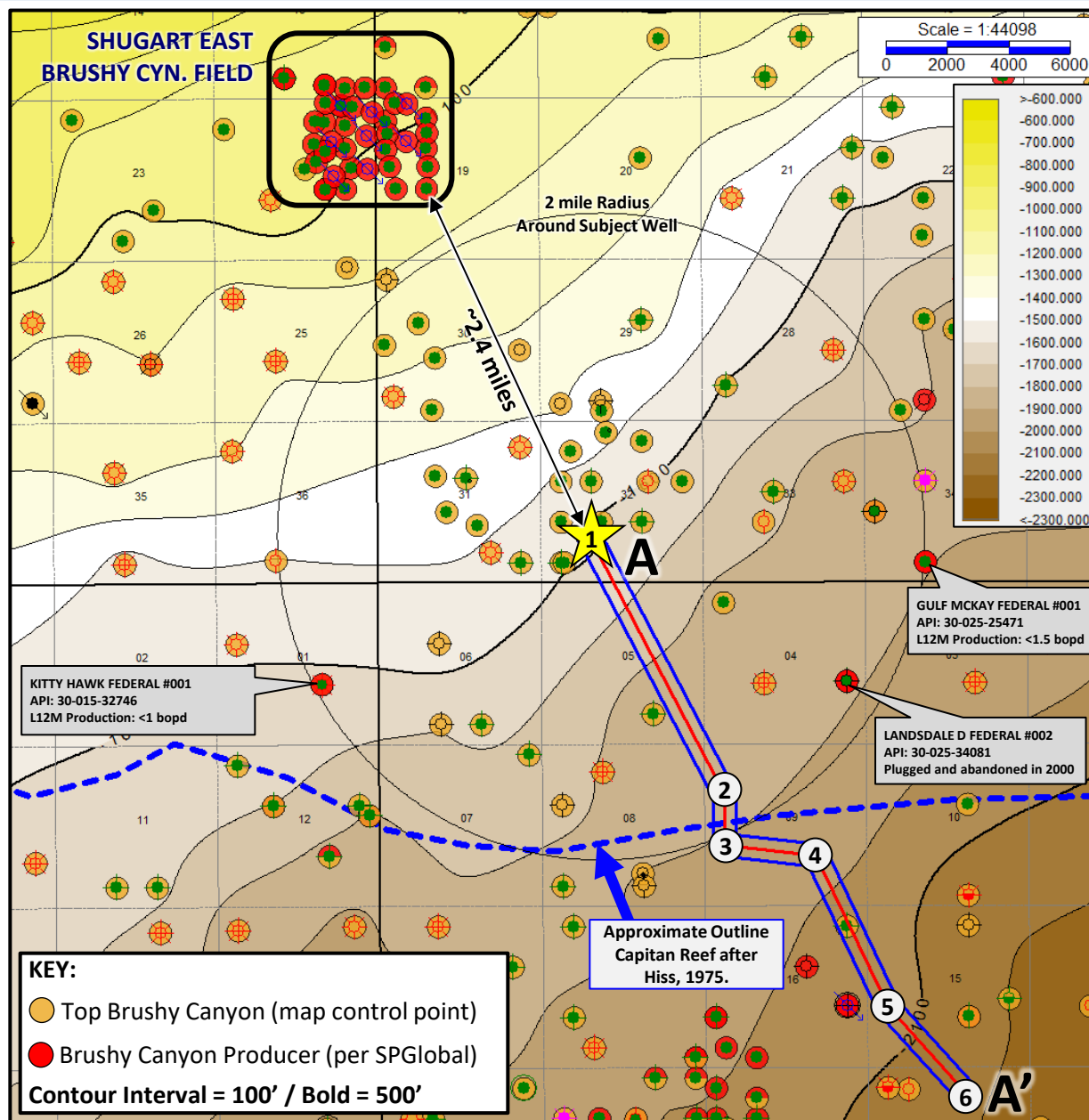


Figure 4: Cross Section A-A'

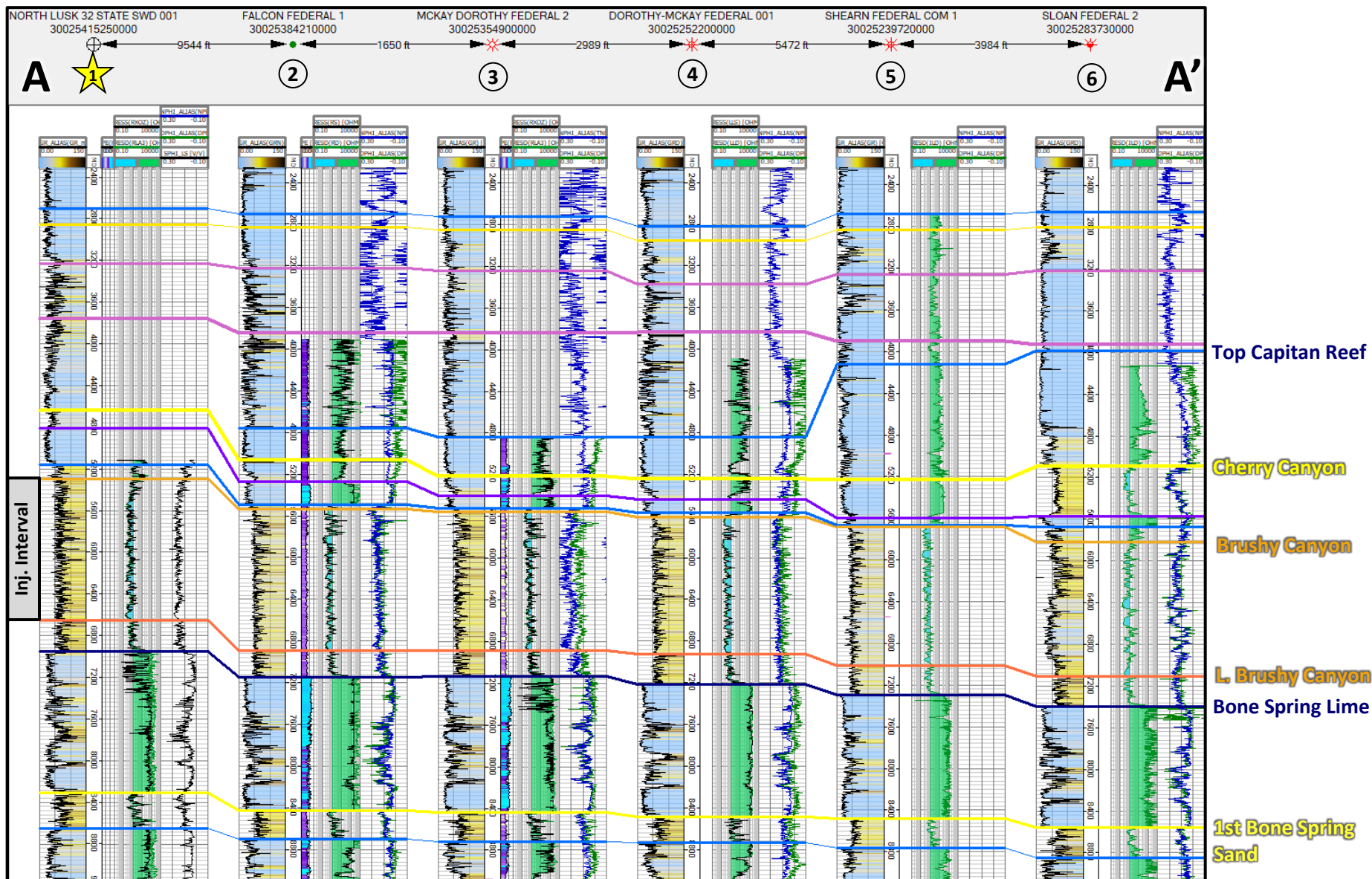


Figure 5: Injection Interval Isopach

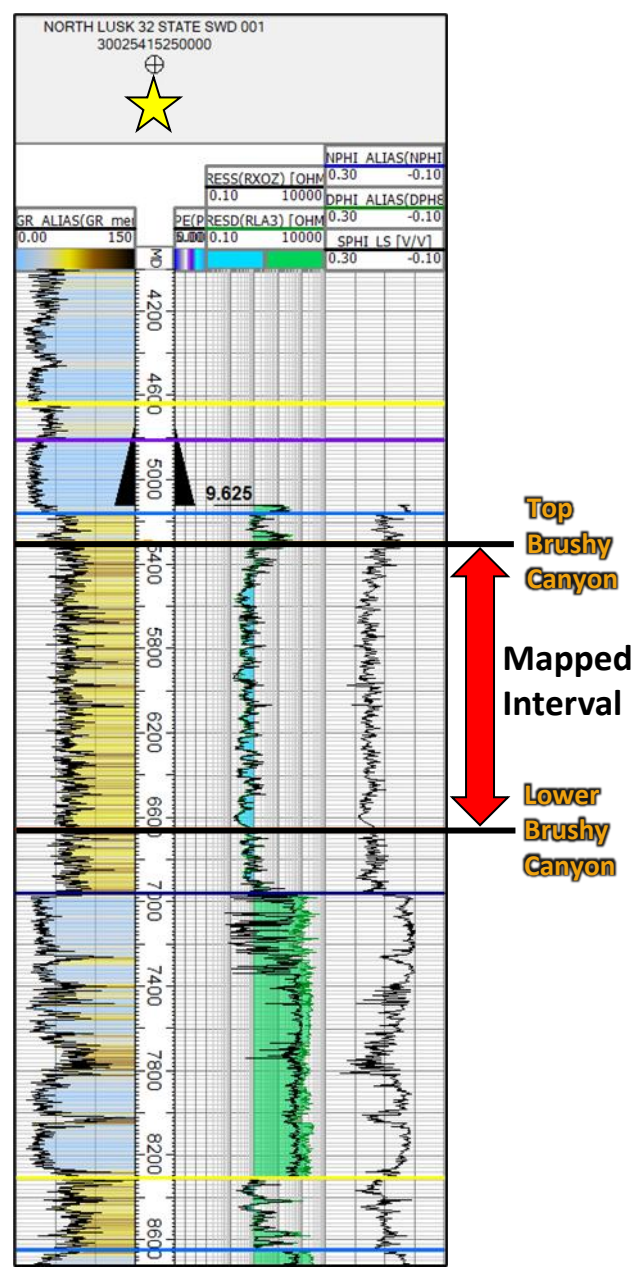
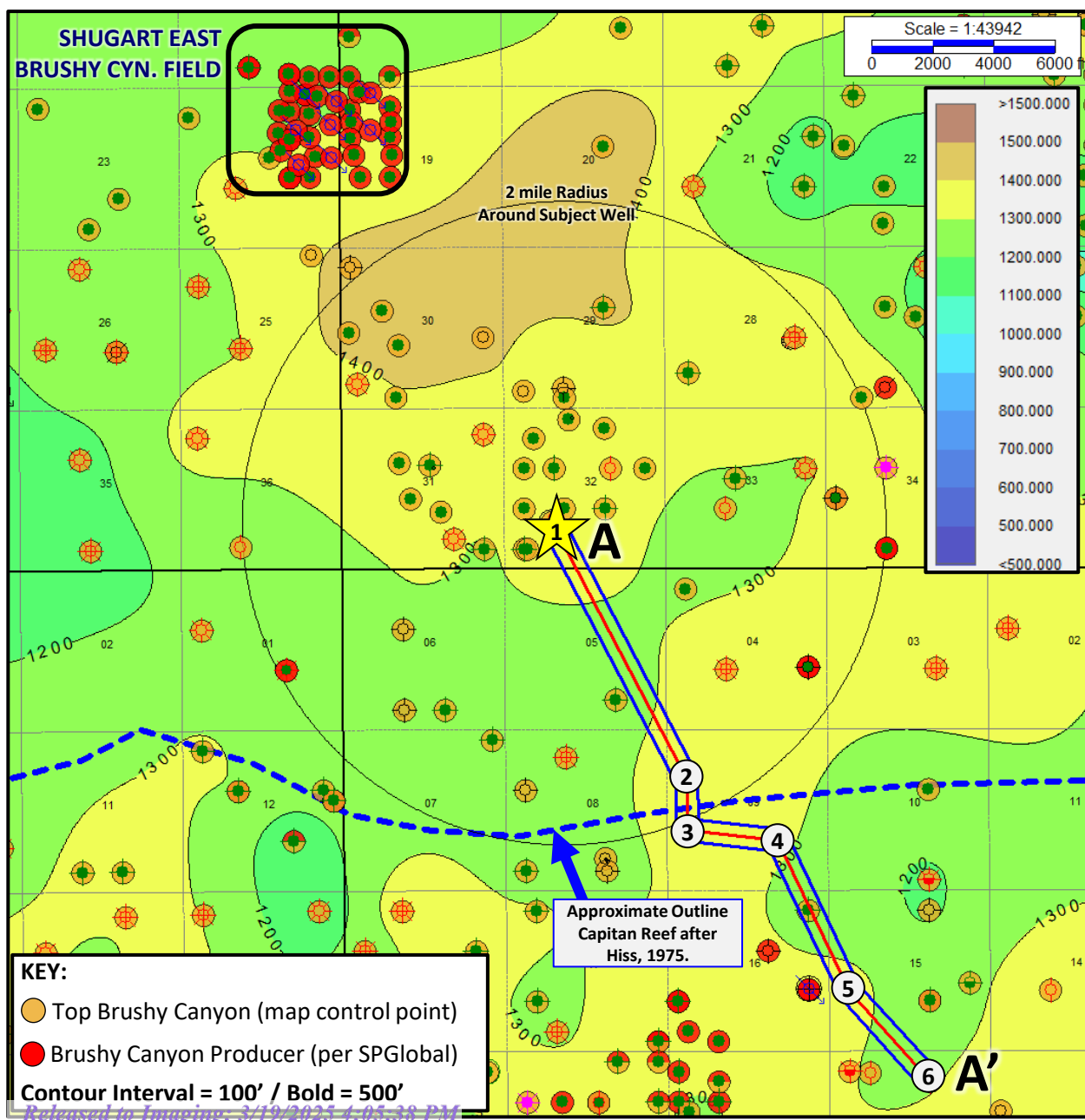
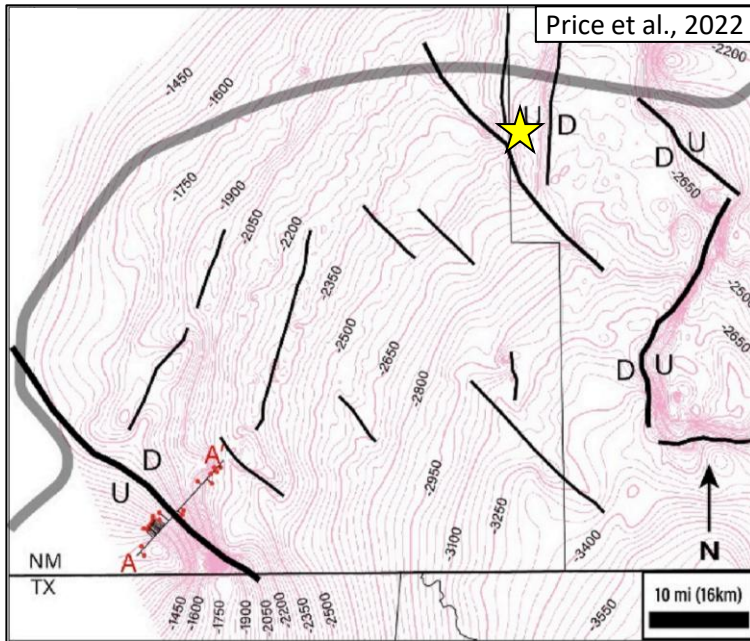
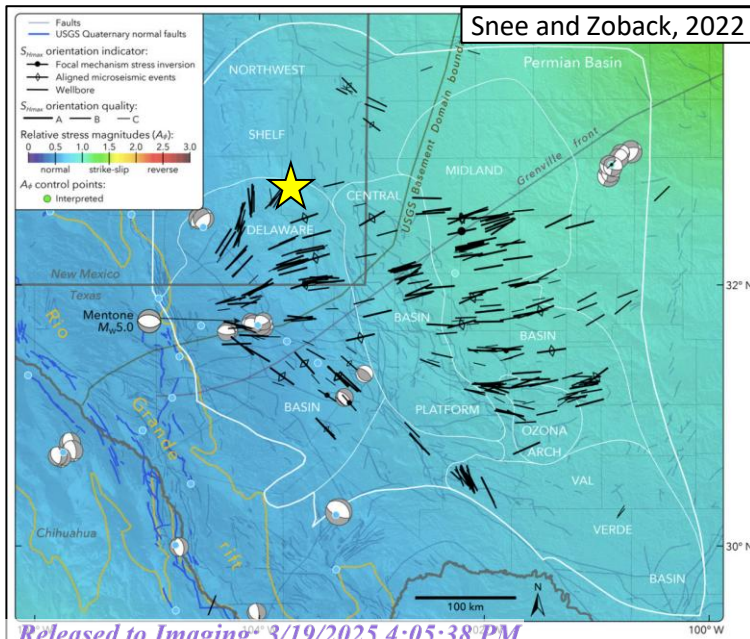
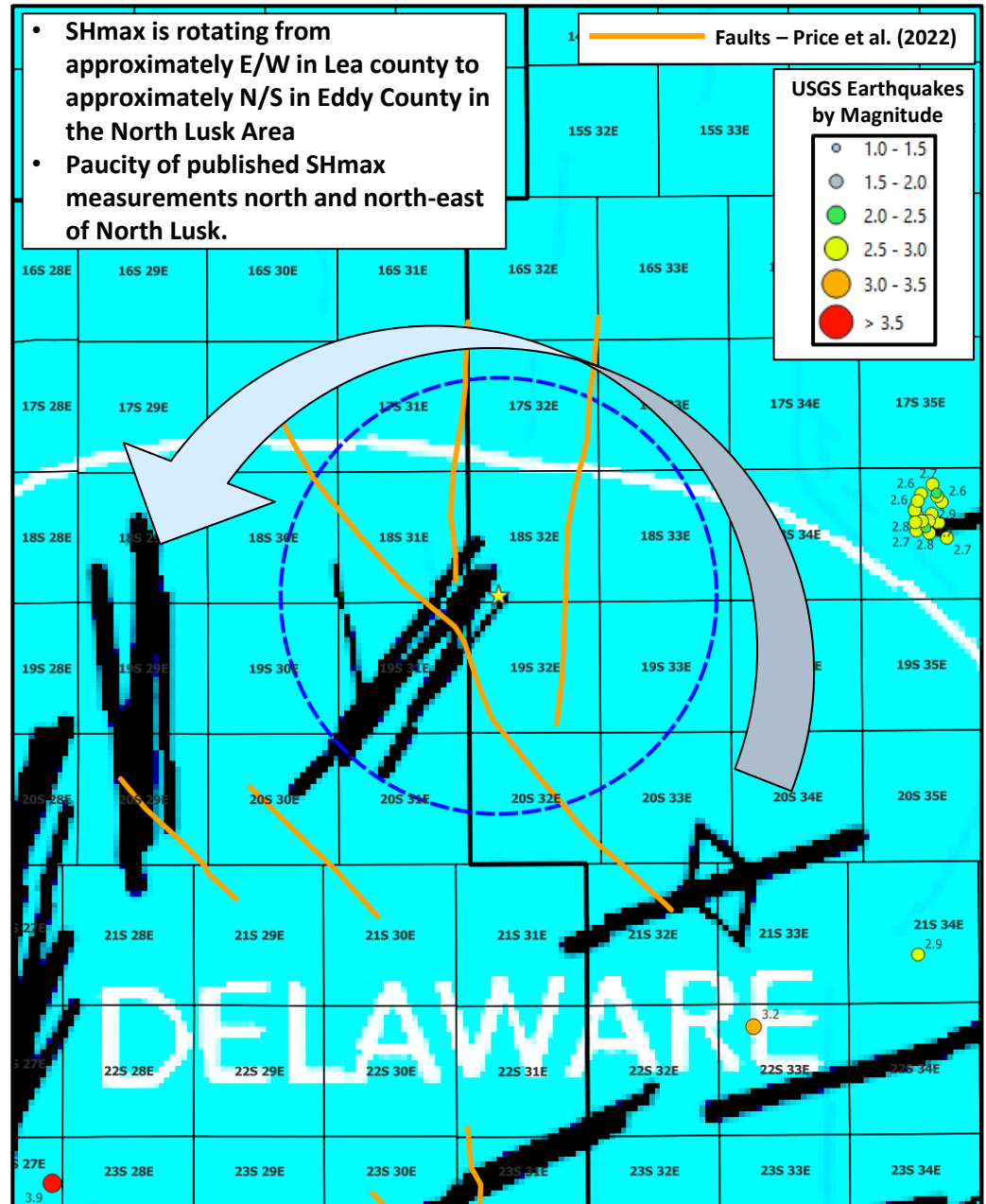


Figure 6: Seismicity Risk



- SHmax is rotating from approximately E/W in Lea county to approximately N/S in Eddy County in the North Lusk Area
- Paucity of published SHmax measurements north and north-east of North Lusk.



C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Grayburg & San Andres

Bone Spring

Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Delaware

Analyses follow this page.

C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream - North Lusk 32 State #1 SWD

SOURCE ZONE

GRAYBURG-SAN ANDRES

API No.	3002508026	Lab ID	
Well Name	MITCHELL B	Sample ID	4267
	006	Sample No	
Location	ULSTR 18 17 S 32 E	Lat / Long	32.83279 -103.79912
	1980 S 660 E	County	Lea
Operator (when sampled)			
	Field MALJAMAR	Unit	I
Sample Date		Analysis Date	
	Sample Source UNKNOWN	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	125535	resistivity_ohm_cm_temp_I	
tds_mgL_180C		conductivity	
chloride_mgL	71900	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	195
iron_mgL		sulfate_mgL	5100
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
Solaris Water Midstream - North Lusk 32 State #1 SWD

SOURCE ZONE

BONE SPRING

API No.	3002528400	Lab ID	
Well Name	YOUNG DEEP UNIT 009	Sample ID	6017
		Sample No	
Location	ULSTR 03 18 S 32 E	Lat / Long	32.77466 -103.76085
	1980 S 660 W	County	Lea
Operator (when sampled)	YATES PETROLEUM CORPORATION		
	Field YOUNG NORTH	Unit	L
Sample Date	5/9/2000	Analysis Date	5/19/2000
	Sample Source	Depth (if known)	
	Water Type		
ph	6.1	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.104	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	149906	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	98373	conductivity_temp_F	
sodium_mgL	55438.5	carbonate_mgL	0
calcium_mgL	5787.17	bicarbonate_mgL	336.72
iron_mgL	80.592	sulfate_mgL	3012.82
barium_mgL	0.3312	hydroxide_mgL	
magnesium_mgL	1360.13	h2s_mgL	276
potassium_mgL	980.352	co2_mgL	
strontium_mgL	125.856	o2_mgL	
manganese_mgL		anionremarks	
Remarks			

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream - North Lusk 32 State #1 SWD

SOURCE ZONE

WOLFCAMP

API No.	3002533854	Lab ID	
Well Name	ELVIS 002	Sample ID	3509
		Sample No	
Location	ULSTR 17 17 S 32 E	Lat / Long	32.82945 -103.78728
	770 S 2306 E	County	Lea
Operator (when sampled)	CONOCO INC.		
	Field	Unit	O
Sample Date	1/25/2000	Analysis Date	2/9/2000
	Sample Source	Depth (if known)	
	Water Type		
ph	6.67	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.081	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	120258	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	78216.8	conductivity_temp_F	
sodium_mgL	44579.4	carbonate_mgL	0
calcium_mgL	4415.89	bicarbonate_mgL	172.96
iron_mgL	19.458	sulfate_mgL	1368.55
barium_mgL	0.2162	hydroxide_mgL	
magnesium_mgL	817.236	h2s_mgL	9.729
potassium_mgL	307.004	co2_mgL	
strontium_mgL	100.533	o2_mgL	
manganese_mgL		anionremarks	

Remarks

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - North Lusk 32 State #1 SWD

DISPOSAL ZONE

DELAWARE

API No.	3002530163	Lab ID	
Well Name	CORBIN STATE 001	Sample ID	3329
		Sample No	
Location	ULSTR 16 18 S 33 E 1980 N 1980 W	Lat / Long	32.74902 -103.66947
		County	Lea
Operator (when sampled)	ARCO PERMIAN		
	Field CORBIN WEST	Unit	F
Sample Date	1/5/1998	Analysis Date	1/15/1998
	Sample Source	Depth (if known)	
	Water Type		
ph	6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.063	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	96262.1	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	56415.5	conductivity_temp_F	
sodium_mgL	35926.2	carbonate_mgL	0
calcium_mgL	2245.06	bicarbonate_mgL	1266.03
iron_mgL	0.1063	sulfate_mgL	5619.02
barium_mgL	0.05315	hydroxide_mgL	
magnesium_mgL	574.02	h2s_mgL	616.54
potassium_mgL	237.049	co2_mgL	
strontium_mgL	43.583	o2_mgL	
manganese_mgL		anionremarks	
Remarks			

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



C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - North Lusk 32 State #1 SWD

DISPOSAL ZONE

DELAWARE

API No.	3002531314	Lab ID	
Well Name	LUSK AHB FEDERAL 006	Sample ID	5983
		Sample No	
Location	ULSTR 35 19 S 32 E	Lat / Long	32.62213 -103.73127
	430 N 990 E	County	Lea
Operator (when sampled)			
	Field LUSK EAST	Unit	A
Sample Date	1/20/2000	Analysis Date	
	Sample Source	Depth (if known)	
	Water Type		
ph	6.65	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.088	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	124441	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	69984	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL	2116	bicarbonate_mgL	400
iron_mgL	0	sulfate_mgL	6750
barium_mgL	0	hydroxide_mgL	
magnesium_mgL	1284	h2s_mgL	0
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
Solaris Water Midstream, LLC - North Lusk 32 State #1 SWD

DISPOSAL ZONE

DELAWARE

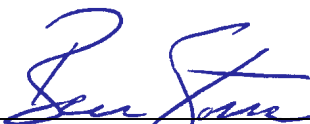
API No.	3002531042	Lab ID	
Well Name	LUSK AHB FEDERAL 002	Sample ID	5947
		Sample No	
Location	ULSTR 35 19 S 32 E 1930 N 1650 E	Lat / Long	32.61800 -103.73338
		County	Lea
Operator (when sampled)			
	Field LUSK EAST	Unit	G
Sample Date	2/2/2000	Analysis Date	
	Sample Source	Depth (if known)	
	Water Type		
ph	6.25	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.183	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	248495	resistivity_ohm_cm_temp_l	
tds_mgL_180C		conductivity	
chloride_mgL	154965	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL	29659	bicarbonate_mgL	98
iron_mgL	15	sulfate_mgL	500
barium_mgL	0	hydroxide_mgL	
magnesium_mgL	3890	h2s_mgL	0
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 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.



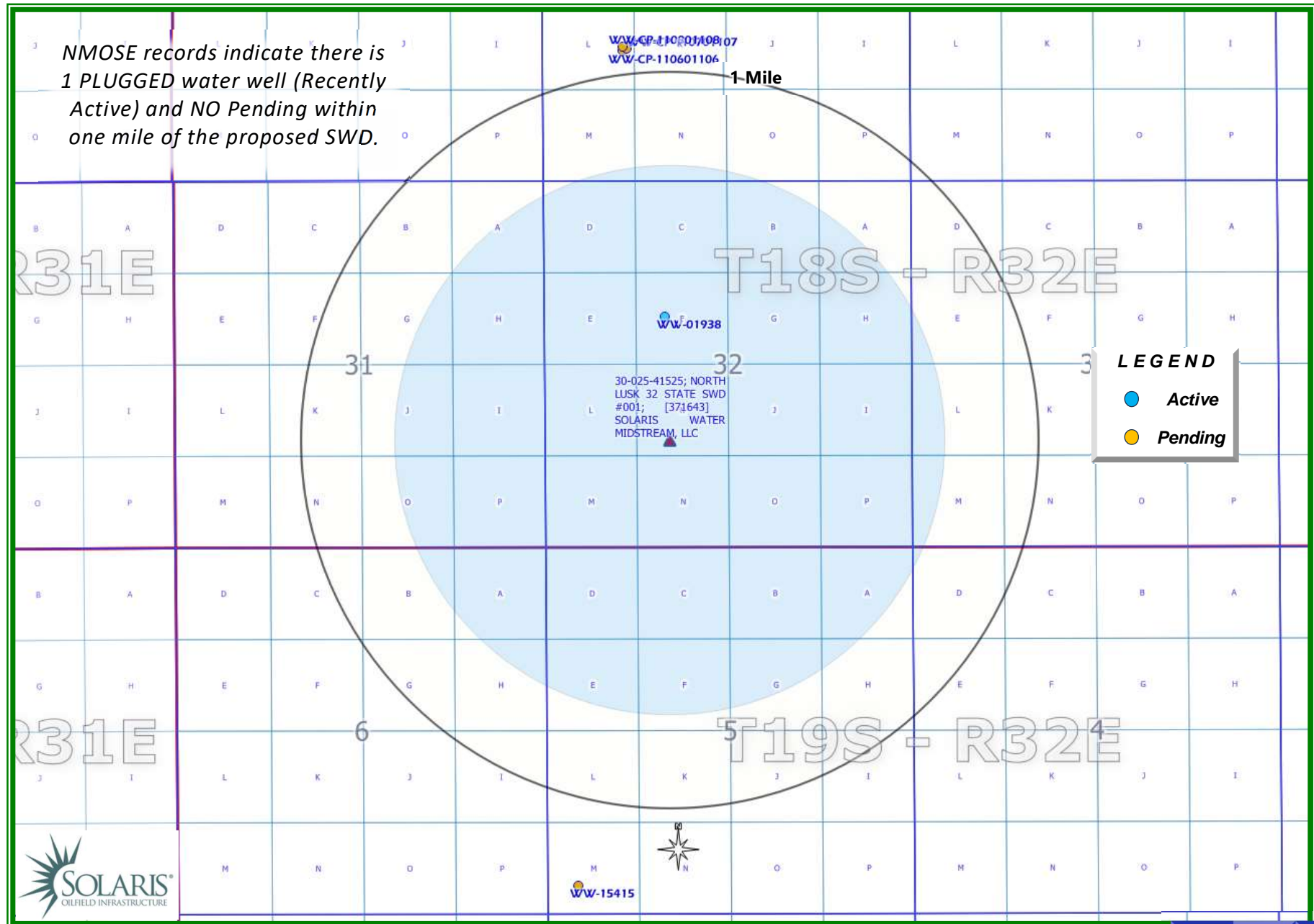
Ben Stone, Partner
SOS Consulting, LLC

Project: Solaris Water Midstream, LLC
North Lusk 32 State SWD #1

Reviewed for DMG 12/14/2024

North Lusk 32 State SWD #1 – 1-Mile AOR Water Wells

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





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: CP-1938-POD1

Name of well owner: Raybaw Operating, LLC

Mailing address: 2626 Cole Avenue Suite 300 County: Dallas

City: Dallas State: TX Zip code: 75204

Phone number: 281-793-5452 E-mail: nwinn@sbcglobal.net

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Hungry Horse, LLC

New Mexico Well Driller License No.: 1755 Expiration Date: 10-14-2023

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 42 min, 21.34 sec
Longitude: 103 deg, 47 min, 29.13 sec, NAD 83

2) Reason(s) for plugging well(s):

No water present

OSE DIT DEC 12 2022 PM 2:29

3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s): N/A

5) Static water level: >100 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 51' feet



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
CP 00566 POD1	CP	LE		4	4	1	04	18S	32E	614960	3627280*	133	65	68
CP 00672	CP	LE		4	4	07	18S	32E	612475	3624947*	524	430	94	
CP 00672 CLW475398	O	CP	LE	4	4	07	18S	32E	612475	3624947*	540	460	80	
CP 00677	CP	LE		1	1	26	18S	32E	617750	3621373*	700			
CP 00814 POD1	CP	LE		2	2	08	18S	32E	614074	3626168*	480			
CP 01938 POD1	CP	LE		1	4	1	32	18S	32E	613277	3619332	51		

Average Depth to Water: **318 feet**

Minimum Depth: **65 feet**

Maximum Depth: **460 feet**

Record Count: 6

PLSS Search:

Township: 18S

Range: 32E

*UTM location was derived from PLSS - see Help

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

9/4/23 11:20 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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

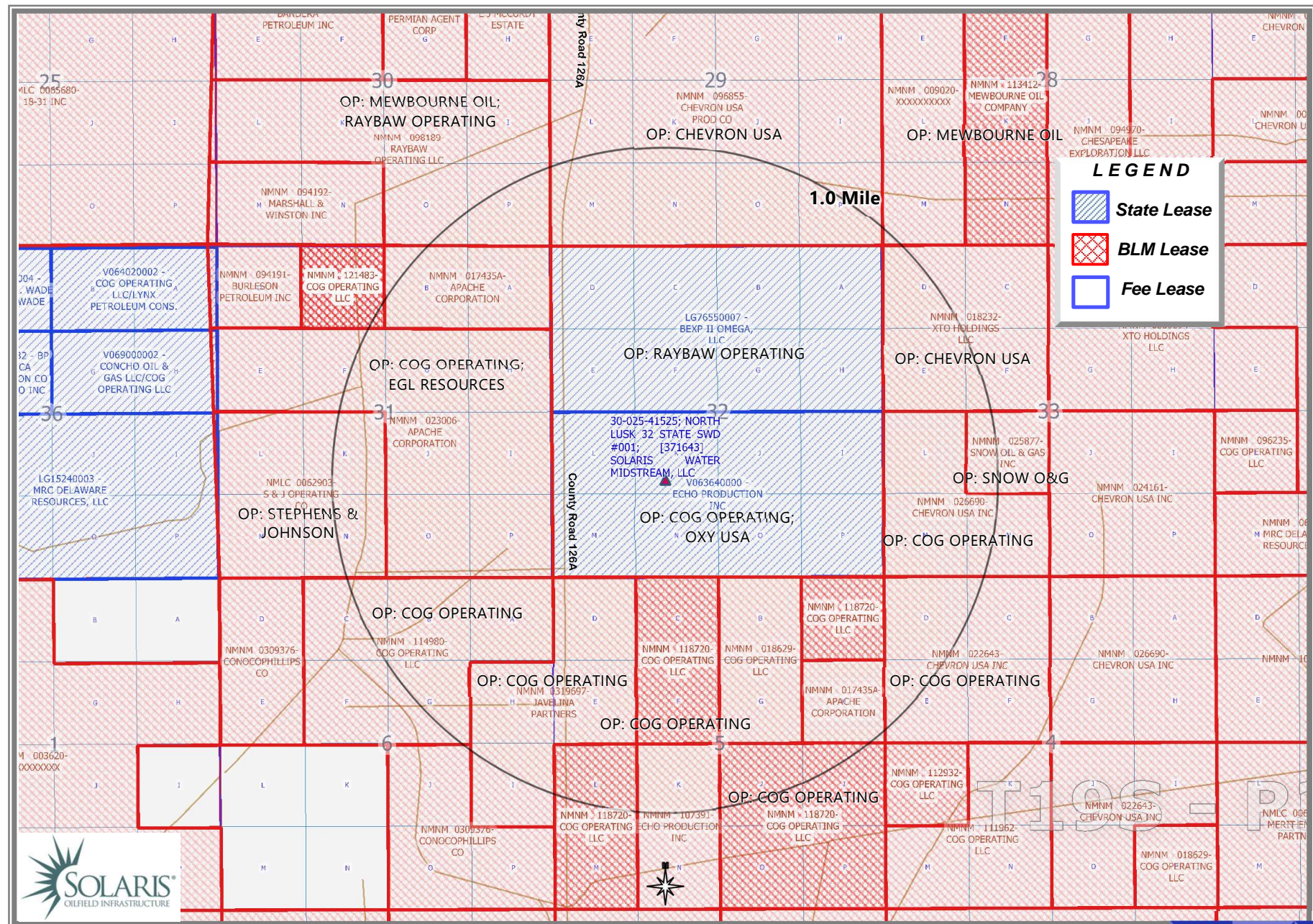
Instructions for PDF Document Access

Proof of Certified Mailing

Affidavit Published Legal Notice

North Lusk 32 State SWD State #1 – Lease/ Affected Party Plat

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



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

ALL AFFECTED PARTIES ARE PROVIDED A NOTICE LETTER VIA US CERTIFIED MAIL CONTAINING UNIQUE 6 CHARACTER DOCUMENT ACCESS CODES FOR SECURE DOWNLOAD OF A PDF COPY OF THE SUBJECT C-108 APPLICATION. AFFECTED PARTIES MAY ALSO REQUEST A PDF COPY VIA SENT EMAIL.

"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

NOTICE #	ENTITY	US CERTIFIED TRACKING	SOS DOC ACCESS CODE
1	STATE OF NEW MEXICO <i>State Land Office - Commissioner of Public Lands, Oil, Gas and Minerals Division</i> 310 Old Santa Fe Trail Santa Fe, NM 87504	7018 2290 0001 2038 9033	☒

OFFSET MINERALS LESSEES and/ or OPERATORS

2	CONOCOPHILLIPS CO. P.O. Box 2197, W13 3046 Houston, TX 77252	7018 2290 0001 2038 9040	☒
3	RAYBAW OPERATING, LLC 2626 Cole Ave., Ste.300 Dallas, TX 75204	7018 2290 0001 2038 9057	☒
4	CHEVRON USA, INC. 6301 Deauville Blvd Midland, TX 79706	7018 2290 0001 2038 9064	☒
5	MEWBOURNE OIL COMPANY P.O. Box 5270 Hobbs, NM 88241	7018 2290 0001 2038 9071	☒
6	EGL RESOURCES P.O. Box 10886 Midland, TX 79702	7018 2290 0001 2038 9088	☒
7	OXY USA, INC. P.O. Box 50250 Midland, TX 79710-0250	7018 2290 0001 2038 9095	☒
8	STEPHENS & JOHNSON P.O. Box 2249 Wichita Falls, TX 76307	7018 2290 0001 2038 9101	☒
9	SNOW OIL & GAS P.O. Box 1277 Andrews, TX 79714	7018 2290 0001 2038 9118	☒

LESSEES (Without operated wells on lease)

10	APACHE CORP. 303 Veterans Airpark Ln., Ste.3000 Midland, TX 79705-4231	7018 2290 0001 2038 9125	☒
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**C-108 ITEM XIII – PROOF OF NOTIFICATION
AFFECTED PARTIES LIST (cont.)**

REGULATORY

NM OIL CONSERVATION DIVISION

1220 S. St. Francis Dr.
Santa Fe, NM 87505

*Filed via OCD
Online e-Permitting*

NEW MEXICO STATE LAND OFFICE

Commissioner of Public Lands
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87501



11

U.S. DEPARTMENT OF INTERIOR

Bureau of Land Management

Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

7018 2290 0001 2038 9132





December 19, 2024

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

To Whom It May Concern:

Solaris Water Midstream, Houston, Texas, has made application to the New Mexico Oil Conservation Division to [re-]permit for salt water disposal the North Lusk 32 State SWD #1. (Previously authorized by OCD order SWD-1394 for Devonian SWD). The SWD operation will be for commercial water disposal from area operators. As indicated in the notice below, the well is located in Section 32, Township 18 South, Range 32 East in Lea County, New Mexico.

The published notice states that the interval will be from 5,300 feet to 6,650 feet into the Brushy Canyon (DMG) formation. Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about December 19, 2024.

LEGAL NOTICE

Solaris Water Midstream, LLC, 9651 Katy Freeway, Suite 400, Houston, Texas, 77024, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The well, the North Lusk 32 State SWD No.1, (API 30-025-41525) is located 1550' FSL and 1800' FWL, Section 32, Township 18 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Brushy Canyon formation at a depth of 5,300' to 6,650' at a maximum surface pressure of 1060 psi with a maximum daily rate of 15,000 bwpd and an average daily rate of 8,500 bwpd. The proposed SWD well is located approximately 10.7 miles south/ southwest of Maljamar, NM. The well was previously authorized for SWD by NMOCD order SWD-1394 and approval will effectively reinstate the well under a new permit for the new DMG interval.

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, (936)367-5950 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. SOS Consulting has deployed a new app for the explicit secure delivery of a full PDF copy of the application. Any user employed with **Affected Party** may log into the system and when prompted for a *Document Access Code*, enter **0000XX** to View or Download the document as desired. Using the *SOS Client and Affected Party Document Access* app takes about one minute, start to finish - instructions are included, and only name, email and company name are needed to access the system.

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC
Agent for Solaris Water Midstream, LLC
Cc: Application File

User Information for the SOS Client & Affected Party Portal

Thank you for using the new SOS Document Portal. This system allows for the **secure delivery of all types of applications and any resulting permits**. The system is built in and stored in the cloud using the best available platforms and code for a secure and robust app. We hope you appreciate our efforts to reduce printed paper copies and deliver pertinent documents in a much more efficient way. If you're a client, you may use the portal to view all the applications that SOS Consulting, LLC has generated on behalf of you or your organization.

1

Open the SOS Consulting website at: www.sosconsulting.us

Click the **App Icon** in the upper right corner of the screen...

The secure **SOS Client & Affected Party Portal** site will open...



2

Become a user of the site by entering your email address and basic info for your profile – minimal information is required although we ask that you provide your company name so we may view who and which companies have reviewed a particular document.

(Please note that nothing is done with your information – it is only for access to this portal.)

Each time you log into the SOS Portal, you will be sent a pin code for **2-Step Verification** to your email within 15 seconds. Enter the code for access to the portal.

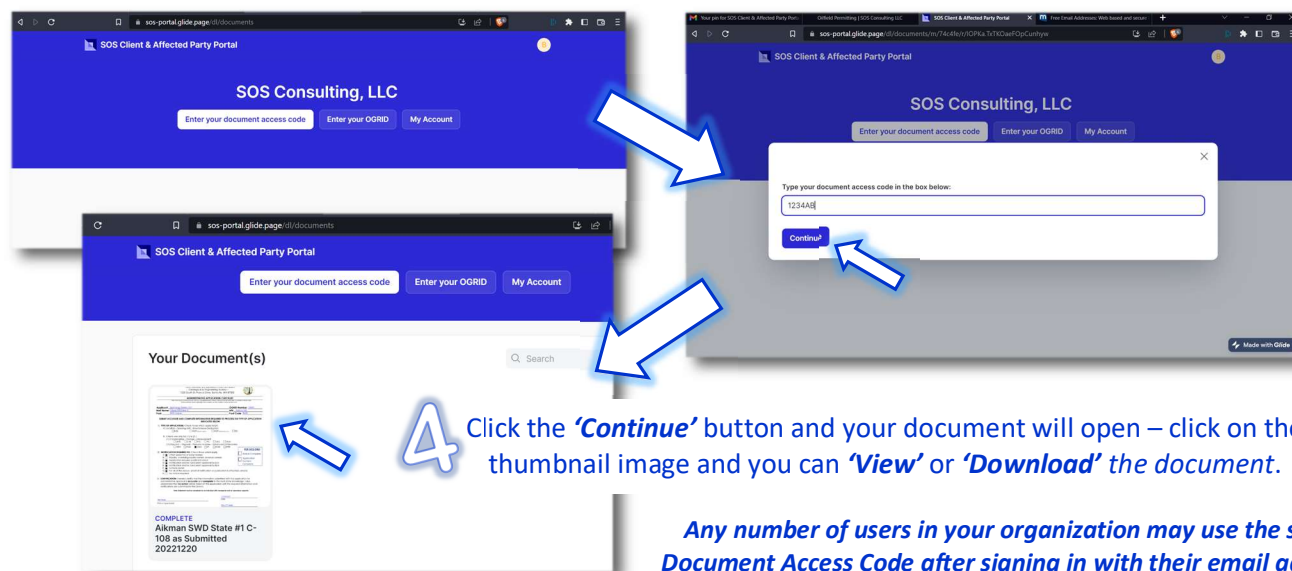


MOBILE ACCESS

3

The SOS portal will open to your user page or the portal home. If you don't see this screen, simply click on the SOS Client & Affected Party title and the home page will open. This page allows you to enter a 'Document Access Code' or if a client, 'Enter your OGRID'. (When entering an OGRID, you will also be prompted for a Client ID for security – SOS Consulting will have already provided this to its clients.)

Note: The unique Document Access Code is provided in your 'Notice Letter to Affected Parties'.



4

Click the 'Continue' button and your document will open – click on the thumbnail image and you can 'View' or 'Download' the document.

Any number of users in your organization may use the same Document Access Code after signing in with their email address!

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

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Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

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2626 Cole Ave., Ste.300
Dallas, TX 75204

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MEWBORNE OIL COMPANY
P.O. Box 5270
Hobbs, NM 88241

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P.O. Box 2197, W13 3046
Houston, TX 77252

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6301 Deauville Blvd
Midland, TX 79706

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ELG RESOURCES
P.O. Box 10886
Midland, TX 79702

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C-108 - Item XIV

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<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
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APACHE CORP. 303 Veterans Airpark Ln., Ste.3000 Midland, TX 79705-4231	

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

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SANTA FE, NM 87501

December 30, 2024, 7:44 am

See All Tracking History

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USPS Tracking Plus®

What Do USPS Tracking Statuses Mean?

(https://faq.usps.com/s/article/Where-is-my-package)

- Text & Email Updates
- USPS Tracking Plus®
- Product Information
- See Less ^

Tracking Number: Remove X

70182290000120389040

Copy

Add to Informed Delivery (https://informedelivery.usps.com/)

Latest Update

Your item was picked up at a postal facility at 5:56 am on December 27, 2024 in HOUSTON, TX 77002.

Delivered

Delivered, Individual Picked Up at Postal Facility

HOUSTON, TX 77002

December 27, 2024, 5:56 am

See All Tracking History

Get More Out of USPS Tracking:

USPS Tracking Plus®

What Do USPS Tracking Statuses Mean?

(https://faq.usps.com/s/article/Where-is-my-package)

Remove X

Tracking Number:

70182290000120389057

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Moving Through Network
In Transit to Next Facility, Arriving Late
December 30, 2024

Arrived at USPS Regional Destination Facility
DALLAS TX DISTRIBUTION CENTER
December 25, 2024, 12:34 pm

See All Tracking History

What Do USPS Tracking Statuses Mean?
(<https://faq.usps.com/s/article/Where-is-my-package>)

See More V

Tracking Number:

70182290000120389064

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was delivered to an individual at the address at 1:26 pm on December 27, 2024 in MIDLAND, TX 79706.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered
Delivered, Left with Individual
MIDLAND, TX 79706
December 27, 2024, 1:26 pm

See All Tracking History

What Do USPS Tracking Statuses Mean?
(<https://faq.usps.com/s/article/Where-is-my-package>)

See More V

Remove X

Tracking Number:

70182290000120389071

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was picked up at the post office at 3:18 pm on December 26, 2024 in HOBBS, NM 88240.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered
Delivered, Individual Picked Up at Post Office
HOBBS, NM 88240
December 26, 2024, 3:18 pm

See All Tracking History

What Do USPS Tracking Statuses Mean?
(<https://faq.usps.com/s/article/Where-is-my-package>)

Remove X

See More

Remove

Tracking Number:

70182290000120389088

Copy Add to Informed Delivery (https://informedelivery.usps.com/)

Latest Update

Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Moving Through Network

In Transit to Next Facility, Arriving Late
December 28, 2024

Arrived at USPS Regional Destination Facility
MIDLAND TX DISTRIBUTION CENTER
December 23, 2024, 5:27 pm

See All Tracking History

What Do USPS Tracking Statuses Mean?
(https://faq.usps.com/s/article/Where-is-my-package)

See More

Tracking Number:

70182290000120389095

Copy Add to Informed Delivery (https://informedelivery.usps.com/)

Latest Update

Your item has been delivered and is available at a PO Box at 10:46 am on January 6, 2025 in MIDLAND, TX 79705.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered

Delivered, PO Box
MIDLAND, TX 79705
January 6, 2025, 10:46 am

See All Tracking History

What Do USPS Tracking Statuses Mean?
(https://faq.usps.com/s/article/Where-is-my-package)

See More

Remove

Tracking Number:

70182290000120389101

Copy Add to Informed Delivery (https://informedelivery.usps.com/)

Latest Update

Your item was picked up at the post office at 8:01 am on December 30, 2024 in WICHITA FALLS, TX 76301.

Get More Out of USPS Tracking:

Delivered

Delivered, Individual Picked Up at Post Office
WICHITA FALLS, TX 76301
December 30, 2024, 8:01 am

See All Tracking History

What Do USPS Tracking Statuses Mean?
(https://faq.usps.com/s/article/Where-is-my-

Remove

See More ▾

Remove ✕

Tracking Number:
70182290000120389118

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was picked up at the post office at 9:45 am on January 2, 2025 in ANDREWS, TX 79714.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered
Delivered, Individual Picked Up at Post Office
ANDREWS, TX 79714
January 2, 2025, 9:45 am

See All Tracking History

[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package)
(<https://faq.usps.com/s/article/Where-is-my-package>)

See More ▾

Remove ✕

Tracking Number:
70182290000120389125

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was picked up at a postal facility at 9:41 am on December 24, 2024 in MIDLAND, TX 79705.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered
Delivered, Individual Picked Up at Postal Facility
MIDLAND, TX 79705
December 24, 2024, 9:41 am

See All Tracking History

[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package)
(<https://faq.usps.com/s/article/Where-is-my-package>)

See More ▾

Remove ✕

Tracking Number:
70182290000120389132

Copy Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was delivered to an individual at the address at 11:29 am on December 26, 2024 in CARLSBAD, NM 88220.

Get More Out of USPS Tracking:
USPS Tracking Plus®

Delivered
Delivered, Left with Individual
CARLSBAD, NM 88220
December 26, 2024, 11:29 am

See All Tracking History

[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package)
(<https://faq.usps.com/s/article/Where-is-my-package>)

See More ▾

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
December 18, 2024
and ending with the issue dated
December 18, 2024.

Editor

Sworn and subscribed to before me this
18th day of December 2024.

Gussie Ruth Black
Business Manager

My commission expires
January 29, 2027

(Seal)

STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

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

LEGAL	LEGAL
<p>LEGAL NOTICE December 18, 2024</p> <p>Solaris Water Midstream, LLC, 9651 Katy Freeway, Suite 400, Houston, Texas, 77024, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The well, the North Lusk 32 State SWD No.1, (API 30-025-41525) is located 1550' FSL and 1800' FWL, Section 32, Township 18 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Brushy Canyon formation at a depth of 5,300' to 6,650' at a maximum surface pressure of 1060 psi with a maximum daily rate of 15,000 bwpd and an average daily rate of 8,500 bwpd. The proposed SWD well is located approximately 10.7 miles south/southwest of Maljamar, NM. The well was previously authorized for SWD by NMOCD order SWD-1394 and approval will effectively reinstate the well under a new permit for the new DMG interval.</p> <p>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 filing of the application which is expected 10 days from the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (936)367-5950 or, email info@sosconsulting.us, #00296925</p>	

67104420

00296925

BEN STONE
SOS CONSULTING, LLC.
127 TEENA LANE
LIVINGSTON, TX 77351

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	<input type="checkbox"/> Initial Submittal
				<input checked="" type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled		

WELL LOCATION INFORMATION

API Number 30-025-41525	Pool Code 97802	Pool Name SWD; Brushy Canyon
Property Code 326896	Property Name North Lusk 32 State SWD	Well Number 1
OGRID No. 371643	Operator Name Solaris Water Midstream, LLC	Ground Level Elevation 3685'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	32	18S	32E		1550' FSL	1800' FWL	32.7010345	-103.7912064	Lea

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	same								

Dedicated Acres n/a	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.	SWD-pending		Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

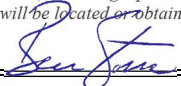
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

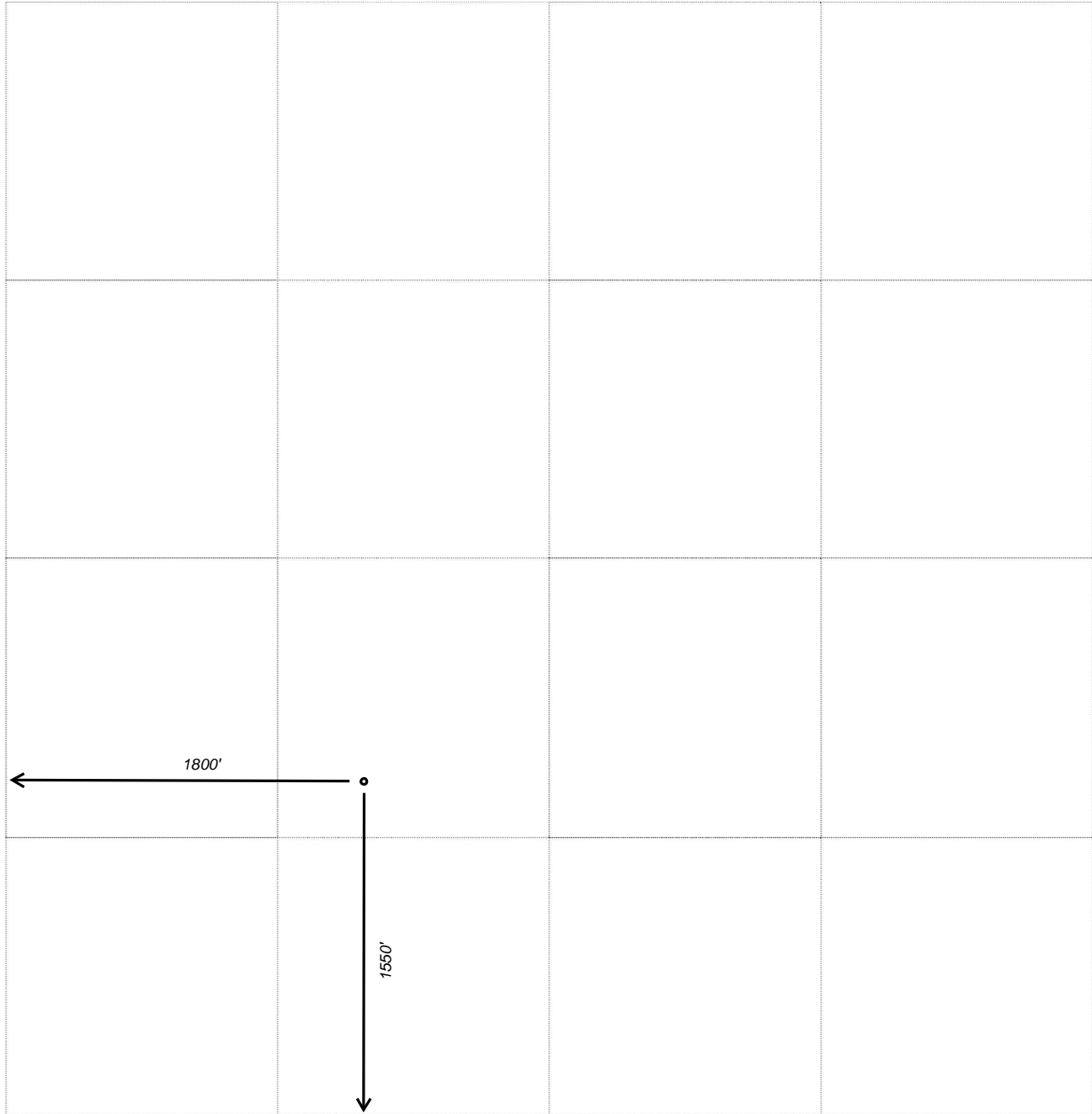
Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	---	-------------------------

OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <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>	
 Signature		Chad L. Harcrow Signature and Seal of Professional Surveyor	
Date 12/11/2024			
Printed Name ben@sosconsulting.us		Certificate Number 17777	Date of Survey August 30, 2013
Email Address			

Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





WELL SCHEMATIC - PROPOSED
North Lusk 32 State SWD Well No.1

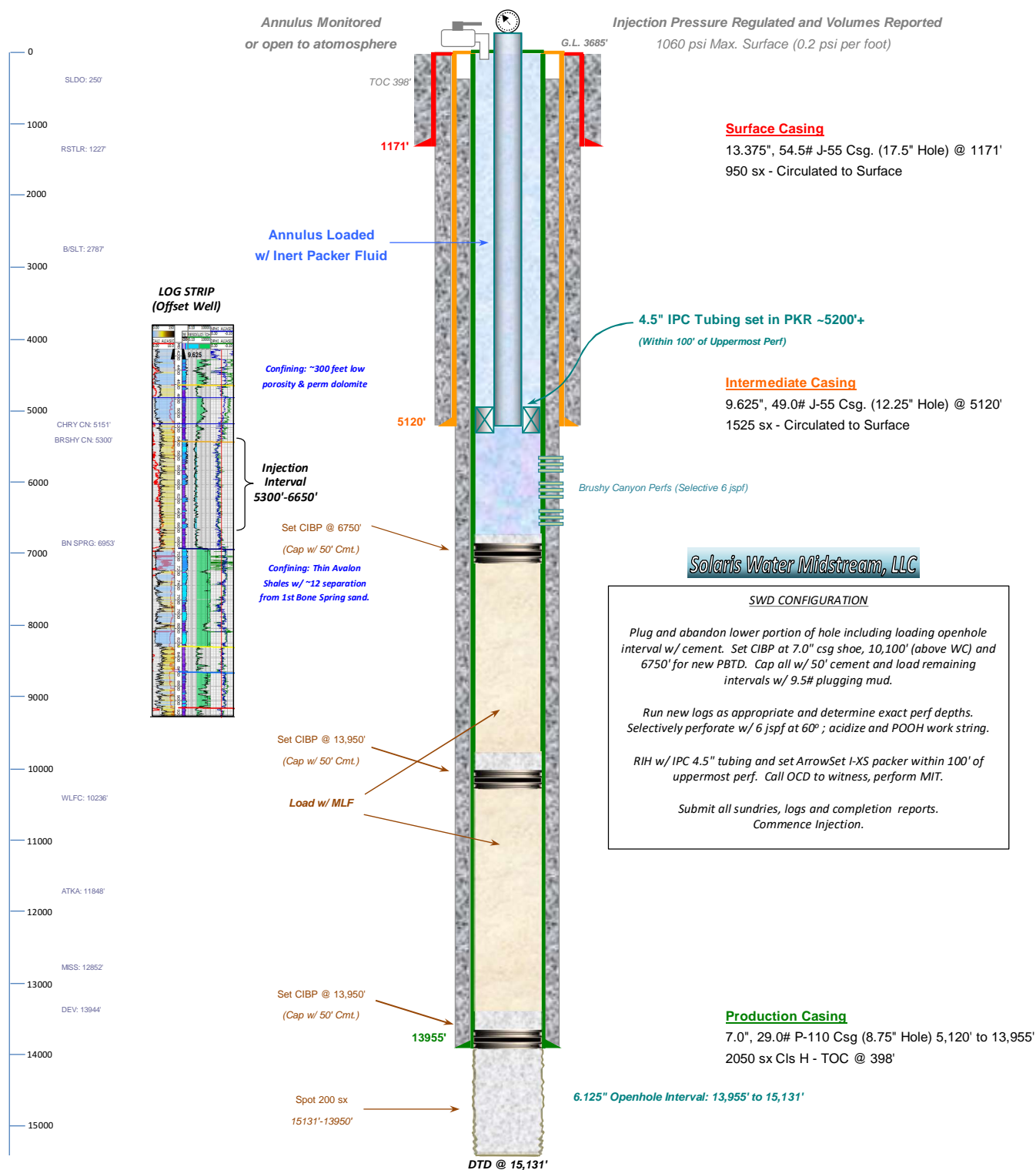
API 30-025-41525

1550' FSL & 1800' FWL, SEC. 32-T18S-R32E
LEA COUNTY, NEW MEXICO

SWD; BRUSHY CANYON (97802)

Spud Date: 8/14/2015

SWD Config Dt: ~4/15/2025



Drawn by: Ben Stone, 12/21/2024



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

Instructions for PDF Document Access

Proof of Certified Mailing

Affidavit Published Legal Notice

C-108 - Items III, IV, V

Item III - Subject Well Data

1. Wellbore Diagram - CURRENT
2. Wellbore Diagram – PROPOSED
3. Packer Diagram and Specs

Item V – Area of Review Maps

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

Item VI – Tabulation of AOR Wells

Tabulation includes all wells within a ONE-MILE radius.

38* wells penetrate the proposed injection interval;

13 of those are P&A'd and diagrams are attached

**4 wells listed as NEW – these are non-existent and APDs have expired.*

All Above Exhibits follow this page...

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells

Top of Proposed BRUSHY CANYON Interval 5,300'					39 (of 45) Wells Penetrate Proposed Interval.				
API	Current Operator	Well Name	Type	Status	Lease	ULSTR	Depth (V)	Spud Dt.	Plug Dt.
<u>Subject Well</u>									
30-025-41525	SOLARIS WATER MIDSTREAM, LLC	NORTH LUSK 32 STATE SWD #001	SWD	Active	State	K-32-18S-32E	15131'	10/7/1992	
<u>Sections 4, 5, 6 Wells</u>									
30-025-40313	COG OPERATING LLC	PEASHOOTER 4 FEDERAL COM #001H	Oil	Active	State	D-04-19S-32E	9616'	2/19/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,567'-13,812'; 13-3/8" @1,232' w/950sx, 9-5/8" @3,110' w/1050sx, 5-1/2" @13,838' w/2050sx; TOC= 0', Lst Prd Oct 2024							
30-025-37210	COG OPERATING LLC	VALHALLA 4 FEDERAL COM #001	Oil	Active	State	D-04-19S-32E	12980'	12/31/9999	
		LUSK; BONE SPRING, NORTH, Perfs: 9,420'-9,510'; 13-3/8" @500' w/450sx, 8-5/8" @4,348' w/1865sx, 5-1/2" @13,096' w/1750, 2-7/8" @9,284'; TOC= 1850', Lst Prd Oct 2024							
30-025-37590	COG OPERATING LLC	BONANZA FEDERAL #001	Gas	Active	State	05-19S-32E	13119'	3/10/1980	
		LUSK; BONE SPRING, NORTH, Perfs: 9,334'-12,689'; 13-3/8" @1,039' w/825sx, 9-5/8" @4,503' w/1550sx, 5-1/2" @12,958' w/2050sx; TOC= 4,200', Lst Prd Oct 2024							
30-025-40773	COG OPERATING LLC	PATTERSON B 52 FEDERAL COM #002H	Oil	Active	Federal	A-05-19S-32E	11080'	8/11/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,634'-13,680; 13-3/8" @1,235' w/950sx, 9-5/8" @3,115' w/900sx, 5-1/2" @13,776' w/3,050sx; TOC= 0', Lst Prd Oct 2024							
30-025-20915	RAY WESTALL	SB FEDERAL #001	Oil	P&A-R	State	E-05-19S-32E	9641'	5/22/2010	9/20/2004
									P&A Diagram Included...
30-025-26901	WARREN E & P, INC.	SHELLY FED. COM #001	Oil	P&A-R	Federal	H-05-19S-32E	13060'	7/30/1980	3/2/2004
									P&A Diagram Included...
30-025-39638	COG OPERATING LLC	PATTERSON B 52 FEDERAL #003H	Oil	Active	State	J-05-19S-32E	9630'	8/28/2010	
		LUSK; BONE SPRING, NORTH, Perfs: 9,530'-11,000'; 13-3/8" @1,169' w/950sx, 9-5/8" @3,293' w/1,050sx, 5-1/2" @11,080' w/1,350sx; TOC= 2,500' TS, Lst Prd Oct 2024							
30-025-39289	COG OPERATING LLC	PATTERSON B 52 FEDERAL #004H	Oil	Active	Federal	L-05-19S-32E	9303'	10/9/2012	
		LUSK; BONE SPRING, NORTH, Perfs: 9,500'-11,030'; 13-3/8" @1,146' w/1,000sx, 9-5/8" @3,285' w/1,050sx, 5-1/2" @11,091' w/1,130sx; TOC= 2,466' TS, Lst Prd Oct 2024							
30-025-41097	COG OPERATING LLC	HAAS 6 FEDERAL COM #001H	Oil	Active	State	A-06-19S-32E	9369'	3/15/2009	
		LUSK; BONE SPRING, NORTH, Perfs: 9,501'-13,460'; 13-3/8" @1,165' w/925sx, 9-5/8" @3,200' w/1,000sx, 5-1/2" @13,558' w/2,150sx, 2-7/8" @ 8,780'; TOC= 0', Lst Prd Oct 2024							
30-025-00888	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	B-06-19S-32E	4256'	6/19/1996	7/4/1996
									DOES NOT PENETRATE.
30-025-00890	MACK ENERGY CORP	W H PECKHAM #001	Oil	P&A-R	Federal	G-06-19S-32E	9461'	11/15/2011	8/4/1994
									P&A Diagram Included...
30-025-20913	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	G-06-19S-32E	13096'	8/7/2005	1/17/1990
									P&A Diagram Included...
30-025-37734	COG OPERATING LLC	HEIDI HO FEDERAL COM #001	Gas	New	Federal	H-06-19S-32E	12990'	7/29/1947	

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.2)

NEW WELL - No Construction Data Available... APD Year 2005								
30-025-43181	COG OPERATING LLC	HAAS 6 FEDERAL COM #004H	Oil	New	Federal	H-06-19S-32E	12656'	1/1/1900
NEW WELL - No Construction Data Available... Well APD Expired 4/18/2020								
30-025-43173	COG OPERATING LLC	HAAS 6 FEDERAL COM #002H	Oil	New	Federal	H-06-19S-32E	13782'	8/17/2008
NEW WELL - No Construction Data Available... Well APD Expired 4/18/2020								
Section 29 Wells								
30-025-40706	CHEVRON U S A INC	CROSS BONES 2 29 #001H	Oil	Active	Federal	M-29-18S-32E	9388' TVD	1/1/1900
LUSK; BONE SPRING, NORTH, Perfs: 9,655'-13,151'; 13-3/8" @1,140' w/1,220sx, 9-5/8" @3,040' w/1,085sx, 5.5" @13,254' w/2,694sx; TOC= 0' CBL, Lst Prd Oct 2024								
30-025-32177	SANTA FE ENERGY OPER. PRTNRS. LP	WATKINS 29 FEDERAL #001	Oil	P&A-R	Federal	N-29-18S-32E	8750'	1/1/1900 12/22/1993
P&A Diagram Included...								
30-025-34673	CHEVRON U S A INC	NORTH LUSK 29 FEDERAL #001	Oil	Active	Federal	N-29-18S-32E	11850'	12/31/9999
LUSK; STRAWN, NORTH, Perfs: 11,422'-11,573'; 13-3/8" @517' w/550sx, 9-5/8" @4,270 w/1,700sx, 5-1/2" @11,851 w/1,960sx; TOC= 4080', Lst Prd Oct 2024								
Section 31 Wells								
30-025-35690	COG OPERATING LLC	EGL FEDERAL #001	Oil	Active	Federal	A-31-18S-32E	10150'	6/27/2008
LUSK; BONE SPRING, NORTH, Perfs: 9,223'-9,580'; 13-3/8" @1,110' w/950sx, 8-5/8" @4,500' w/1,990sx, 5-1/2" @12,820' w/1,760sx, 2-7/8" @ 9,351'; TOC= 2000' TS, Lst Prd Oct 2024								
30-025-37465	COG OPERATING LLC	SDL 31 FEDERAL #001	Oil	New	Federal	B-31-18S-32E	13000'	10/11/2005
NEW WELL - No Construction Data Available... APD Year 2005								
30-025-00880	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	G-31-18S-32E	4264'	12/31/9999 4/26/2007
DOES NOT PENETRATE.								
30-025-38157	COG OPERATING LLC	LPC 31 FEDERAL #002	Oil	Active	Federal	G-31-18S-32E	11310'	6/26/2010
LUSK; BONE SPRING, NORTH, Perfs: 8,765-10,050; 9-5/8" @1,147' w/475sx, 5-1/2" @10,150' w/2090sx, 2-7/8" @ 7,762'; TOC= 1,178' TS, Lst Prd Oct 2024								
30-025-37440	COG OPERATING LLC	LPC 31 FEDERAL #001	Oil	P&A-R	Federal	G-31-18S-32E	9990'	1/1/1900 10/14/2021
P&A Diagram Included...								
30-025-21252	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Private	H-31-18S-32E	11620'	12/31/9999 8/17/1965
P&A Diagram Included...								
30-025-25243	C W STUMHOFFER	FEDERAL CST #002	Oil	P&A-R	Federal	J-31-18S-32E	4264'	12/31/9999 4/26/2007
DOES NOT PENETRATE.								
30-025-39593	E G L RESOURCES INC	LUSK 31 FEDERAL #003	Oil	Active	Federal	J-31-18S-32E	12620'	8/24/2000
LUSK; BONE SPRING, NORTH, Perfs: 8,356'-10,376'; 13-3/8" @1,072' w/950sx, 8-5/8" @2,723 w/860sx, 5-1/2" @11,308' w/1,600sx; TOC= 2,700' TS, Lst Prd Oct 2024								
30-025-25259	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #003	Oil	P&A-R	Federal	K-31-18S-32E	4300'	1/1/1900 4/19/1979
DOES NOT PENETRATE.								
30-025-39079	E G L RESOURCES INC	LUSK 31 FEDERAL #002	Oil	Active	Federal	K-31-18S-32E	9807'	12/31/9999
LUSK;BONE SPRING, NORTH, Perfs: 8,424'-9,210'; 13-3/8" @1,100' w/960sx, 9-5/8" @2,717' w/805sx, 5-1/2" @9,269' w/1,500sx; TOC= 2,500' TS, Lst Prd Oct 2024								

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.3)

30-025-00883	STEPHENS & JOHNSON OP CO	MAY HIGHTOWER FEDERAL #001	Oil	Active	Federal	N-31-18S-32E	12825'	10/1/2001	
					WATKINS; YATES-7 RVRS-QU-GB ; Not listed, Not listed, TOC= Not listed, Lst Prd Oct 2024				
30-025-25138	C W STUMHOFFER	FEDERAL CST #001	Oil	P&A-R	Federal	O-31-18S-32E	4265'	5/1/2007	12/31/9999
								DOES NOT PENETRATE.	
30-025-00882	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	P&A-R	Federal	O-31-18S-32E	4180'	1/1/1900	1/1/1900
								DOES NOT PENETRATE.	
30-025-35073	E G L RESOURCES INC	LUSK 31 FEDERAL COM #001	Gas	Active	Federal	O-31-18S-32E	12620'	12/31/9999	
			LUSK; MORROW, NORTH (GAS), Perfs: 12,495'-12,518'; 13-3/8" @1,106 w/1,000sx, 8-5/8" @4,483 w/1,650sx, 5-1/2" @12,612 w/1,675sx; TOC= 3,750' TS, Lst Prd Oct 2024						
30-025-21400	BEACH EXPLORATION INC	MOLEEN FEDERAL #001	Oil	P&A-R	Federal	P-31-18S-32E	9205'	10/3/2013	11/10/2004
								P&A Diagram Included...	
Section 32 Wells									
30-025-39571	RAYBAW Operating, LLC	HULKSTER #004	Oil	Active	Federal	A-32-18S-32E	9641'	12/31/9999	
			LUSK; BONE SPRING, NORTH, Perfs: 8,365'-9,404'; 11-3/4" @1,165' w/860sx, 8-5/8" @2,676' w/800sx, 5-1/2" @9,641' w/1,291sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-39570	RAYBAW Operating, LLC	HULKSTER #003	Oil	Active	Federal	B-32-18S-32E	9388'	9/8/2012	
			LUSK; BONE SPRING, NORTH, Perfs: 8,344'-8,409', 9,179'-9,359'; 11-3/4" @1,173' w/655sx, 8-5/8" @2,648' w/800sx, 5-1/2" @9,616' w/1,300sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-35747	RAYBAW Operating, LLC	N LUSK 32 STATE #001	Oil	Active	State	C-32-18S-32E	12930'	12/2/2001	
			LUSK; BONE SPRING, NORTH, Perfs: 8,185'-8,554'; 13-3/8" @472' w/450sx, 9-5/8" @4,280' w/1,635sx, 5-1/2" @11,860' w/1950sx; TOC= 3980', Lst Prd Oct 2024						
30-025-38446	RAYBAW Operating, LLC	HULKSTER #001	Oil	Active	State	D-32-18S-32E	11600'	1/1/1900	
			LUSK; BONE SPRING, NORTH, 8,201'-8,836', 9,266'-9,351'; 13-3/8" @515' w/450sx, 9-5/8" @2,653' w/960sx, 5-1/2" @9,983' w/2025; TOC= ???, Lst Prd Oct 2024						
30-025-38844	RAYBAW Operating, LLC	HULKSTER #002	Oil	Active	Federal	E-32-18S-32E	9313'	1/25/2011	
			LUSK; BONE SPRING, NORTH, Perfs: 8,214'-8,362', 8,573'-8,602', 9,308'-9,342'; 11-3/4" @1,136' w/405sx, 8-5/8" @2,652' w/773sx, 5-1/2" @9,490' w/1430sx; TOC= ???, Lst Prd Oct 2024						
30-025-31735	RAYBAW Operating, LLC	WATKINS 32 STATE #001	Oil	Active	Federal	F-32-18S-32E	11440'	10/17/1964	
			LUSK; BONE SPRING, NORTH, Perfs: 8,566'-12,533'; 13-3/8" @473' w/500sx, 8-5/8" @4,206' w/2900, 5-1/2" @12,921' w/1630, 2-7/8" @8,452'; TOC= ???, Lst Prd Oct 2024						
30-025-26754	RAYBAW Operating, LLC	MAX STATE #001	Oil	Active	State	G-32-18S-32E	9890'	12/20/2004	
			LUSK; BONE SPRING, NORTH, Perfs: 12,909'-12,950'; 13-3/8" @408' w/425sx, 8-5/8" @4,281' w/2950sx, 5-1/2" @12,980' w/1200sx; TOC= ???, Lst Prd Oct 2024						
30-025-39572	RAYBAW Operating, LLC	HULKSTER #005	Oil	Active	State	H-32-18S-32E	9983'	2/2/2008	
			LUSK; BONE SPRING, NORTH, Perfs: 7,676'-9,256'; 11-3/4" @1,170' w/700sx, 8-5/8" @2663' w/750sx, 5-1/2" @9630' w/1,085sx; TOC= 2800' est., Lst Prd Oct 2024						
30-025-38865	COG OPERATING LLC	LEAR STATE #001H	Oil	Active	State	I-32-18S-32E	9490'	8/17/2008	
			LUSK; BONE SPRING, NORTH, Perfs: 9,600'-11,125'; 13-3/8" @1133' w/950sx, 9-5/8" @2968' w/825sx, 5-1/2" @11207' w/1310sx, 2-7/8" @8917'; TOC= 2,600 TS, Lst Prd Oct 2024						
30-025-26703	MARBOB ENERGY CORP	LEAR STATE SWD #003	Oil	P&A-R	State	J-32-18S-32E	9353'	8/15/2009	10/5/2010
								P&A Diagram Included...	
30-025-41525	SOLARIS WATER MIDSTREAM, LLC	NORTH LUSK 32 STATE SWD #001	SWD	Active	State	K-32-18S-32E	12922'	10/7/1992	
								SUBJECT WELL...	

Form C-108 - Item VI - Tabulation of One-Mile AOR Wells (pg.4)

30-025-36953	OXY USA INC	NORTH LUSK 32 STATE #003	Oil	Active	State	K-32-18S-32E	15131'	8/14/2015	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,444'-8,472'; 13-3/8" @628' w/570 sx, 8-5/8" @3,259' w/830sx, 5-1/2" @9,822' w/1,405 sx; TOC= 4100' est., Lst Prd Oct 2024</i>									
30-025-35748	OXY USA INC	NORTH LUSK 32 STATE #001	Oil	Active	Federal	L-32-18S-32E	8700'	8/19/1993	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,570'-10,508'; 13-3/8" @573' w/485 sx, 9-5/8" @4,250' w/1,300sx, 5-1/2" @12,930' w/2,110sx; TOC= 4100', Lst Prd Oct 2024</i>									
30-025-21443	LATIGO PETROLEUM, INC.	NORTH LUSK 32 STATE #002	Oil	P&A-R	State	M-32-18S-32E	9838'	1/28/2005	4/26/1990
<i>P&A Diagram Included...</i>									
30-025-36982	OXY USA INC	NORTH LUSK 32 STATE #005	Oil	Active	Federal	M-32-18S-32E	11850'	8/17/1999	
<i>LUSK; BONE SPRING, NORTH, Perfs: 8,598'-8,624'; 13-3/8" @ 642' w/570 sx, 8-5/8" @3253' w/1150 sx, 5-1/2" @9886' w/1070 sx, DV tool @5305' w/470 sx; TOC= 4100' est., Lst Prd Oct 2024</i>									
30-025-38866	COG OPERATING LLC	LEAR STATE #002H	Oil	Active	Federal	N-32-18S-32E	12960'	8/3/2006	
<i>LUSK; BONE SPRING, NORTH, Perfs: 9,500'-11,100'; 13-3/8" @1085' w/1100sx, 9-5/8" @2928' w/930sx, 5-1/2" @11171' w/1700sx, 2-7/8" @ 8866'; TOC= 1,210' TS, Lst Prd Oct 2024</i>									
30-025-33411	CHEVRON U S A INC	PATTERSON 33 FEDERAL #001	Oil	P&A-R	State	L-33-18S-32E	6000'	11/17/2001	7/4/1996
<i>P&A Diagram Included...</i>									

SUMMARY: Total of 49 in AOR; 39 wells penetrate the proposed disposal interval, 11 P&A wells and 4 NEW* wells.

**Non-existent - APDs are expired...*



C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Grayburg & San Andres

Bone Spring

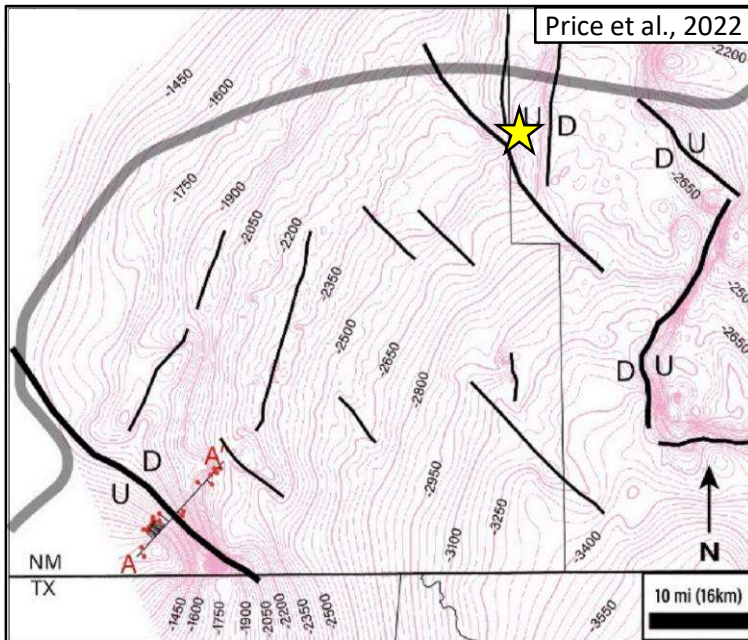
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

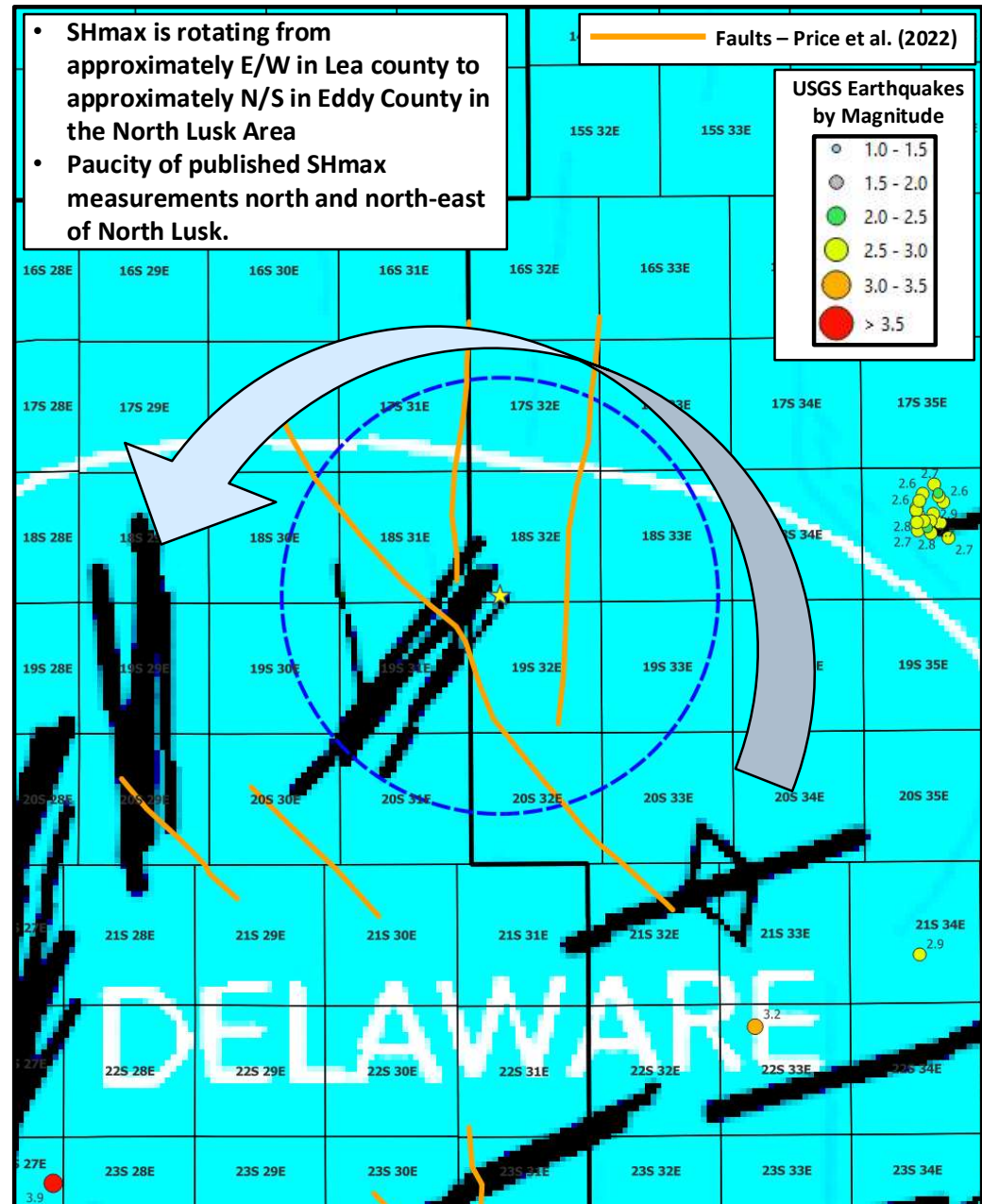
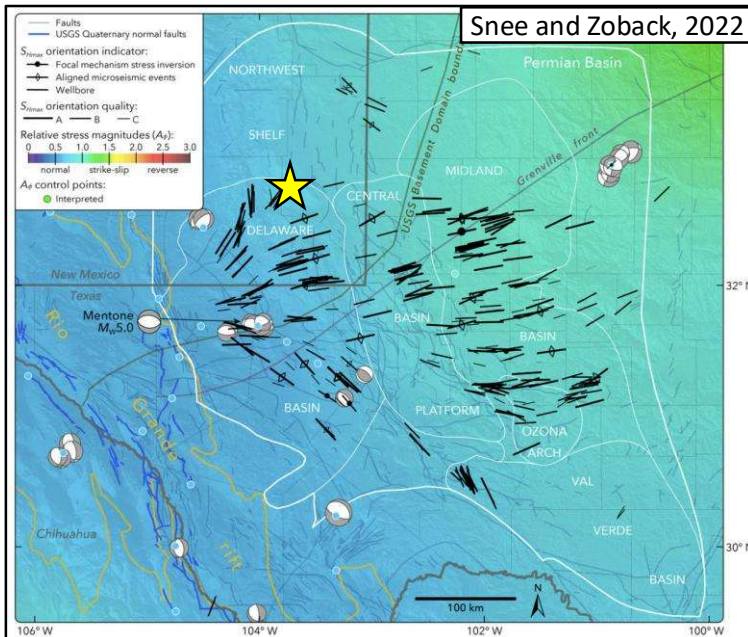
Delaware

Analyses follow this page.

Figure 6: Seismicity Risk



- SHmax is rotating from approximately E/W in Lea county to approximately N/S in Eddy County in the North Lusk Area
- Paucity of published SHmax measurements north and north-east of North Lusk.



C-108 ITEM VII – PROPOSED OPERATION

North Lusk 32 State SWD No.1

Commercial SWD Facility

Background

The subject SWD, previously permitting for Devonian disposal, commenced injection in January 2016. Rates were modest, averaging 1000 to 2000 bwpd at 0 psi, presumably vacuum. Injection continued at similar rates, often much less, until September/ October 2016 when the well failed a mechanical integrity test. Solaris acquired the well from COG Operating in July 2019. In August 2021, 35 bbls was pumped while monitoring the annulus to confirm an issue with the tubing. Solaris filed various sundry notices to inform of the repair process. The tubing was pulled in July 2023, the bad section was identified, and the tubing was stacked. Solaris filed a TA sundry to secure the well while a new C-108 was prepared and filed to reinstate the well as a Devonian SWD.

Subsequently, during the two year wait for processing, seismic activity in the state caused OCD to assess the viability of continued default C-108s for SWDs in the Devonian. Solaris reviewed the area around the North Lusk well to consider FSP and seismic analysis. It was determined that a lack of [commercially available] fault data and indications that there may indeed be some faulting in such proximity, that considering recent cases for DMG disposal, particularly as presented by Chevron for some of its disposal efforts, that the Lusk would be reviewed for this potential. Log cross sections show that a long interval of (DMG) Brushy Canyon exists and offers some decent, clean sandy intervals with good porosity that will present good disposal possibility which is the subject target of this C-108.

A current wellbore diagram is included to reflect the TA status of the well with 2 retrievable bridge plugs set above the casing shoe.

Configure for Salt Water Disposal

Prior to commencing any additional work, NOI sundry(ies) will be submitted and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

Being tied into existing Solaris pipelines and other infrastructure, the well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 15,000 bpd and an average of 8,500 bpd at a maximum surface injection pressure of 1060 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. The operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as necessary and appropriate.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
December 18, 2024
and ending with the issue dated
December 18, 2024.

Editor

Sworn and subscribed to before me this
18th day of December 2024.

Gussie Ruth Black
Business Manager

My commission expires
January 29, 2027

(Seal) STATE OF NEW MEXICO
NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

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

LEGAL	LEGAL
<p>LEGAL NOTICE December 18, 2024</p> <p>Solaris Water Midstream, LLC, 9651 Katy Freeway, Suite 400, Houston, Texas, 77024, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The well, the North Lusk 32 State SWD No.1, (API 30-025-41525) is located 1550' FSL and 1800' FWL, Section 32, Township 18 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Brushy Canyon formation at a depth of 5,300' to 6,650' at a maximum surface pressure of 1060 psi with a maximum daily rate of 15,000 bwpd and an average daily rate of 8,500 bwpd. The proposed SWD well is located approximately 10.7 miles south/southwest of Maljamar, NM. The well was previously authorized for SWD by NMOCD order SWD-1394 and approval will effectively reinstate the well under a new permit for the new DMG interval.</p> <p>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 filing of the application which is expected 10 days from the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (936)367-5950 or, email info@sosconsulting.us, #00296925</p>	

67104420

00296925

BEN STONE
SOS CONSULTING, LLC.
127 TEENA LANE
LIVINGSTON, TX 77351

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 424639

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 424639
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
stacy.sandoval	None	3/19/2025