

RECEIVED: <u>Y 22/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAM19023 55268</u>
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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: Spidermonkey SWD No.1 **API:** 30-015-xxxxx
Pool: Proposed: SWD; Devonian-Silurian **Pool Code:** 97869

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

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD SWD-1890
- 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
- 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.

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

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

Ben Stone

Print or Type Name

Ben Stone

Signature

1/18/2019

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



January 18, 2019

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

Attn: Acting Director

Re: Application of Solaris Water Midstream, LLC to drill and permit for salt water disposal the Spidermonkey SWD Well No.1, to be located in Section 35, Township 23 South, Range 26 East, NMPM, Eddy County, New Mexico.

Dear Acting Director,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request for salt water disposal. The well will be operated as a commercial endeavor offering operators in the area additional options for produced water disposal.

Solaris Water Midstream is a major provider of salt water disposal services to operators in southeast New Mexico and seeks to optimize efficiency, both economically and operationally, of all its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

This application for a proposed Devonian SWD interval includes the currently mandated increased One-Mile Area of Review including pertinent and available seismic information for the area and region. Published legal notice ran today, January 6, 2019 in the Artesia Daily Press and all offset operators and other affected parties have been notified individually. The legal notice affidavit is included with this application. The application also includes a wellbore schematic, area of review maps, affected party plat and other required information for a complete Form C-108. The well is located on private land and minerals. There are state and federal lands & minerals within the one-mile radius notice area; the State Land Office, Bureau of Land Management and offset operators have been notified of this application.

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

Best regards,

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

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

Cc: Application attachment and file

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 which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.*

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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

C-108 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram - PROPOSED

Item IV – Tabulation of AOR Wells

NO wells penetrate the proposed injection interval.

Item V – Area of Review Maps

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

All Above Exhibits follow this page.



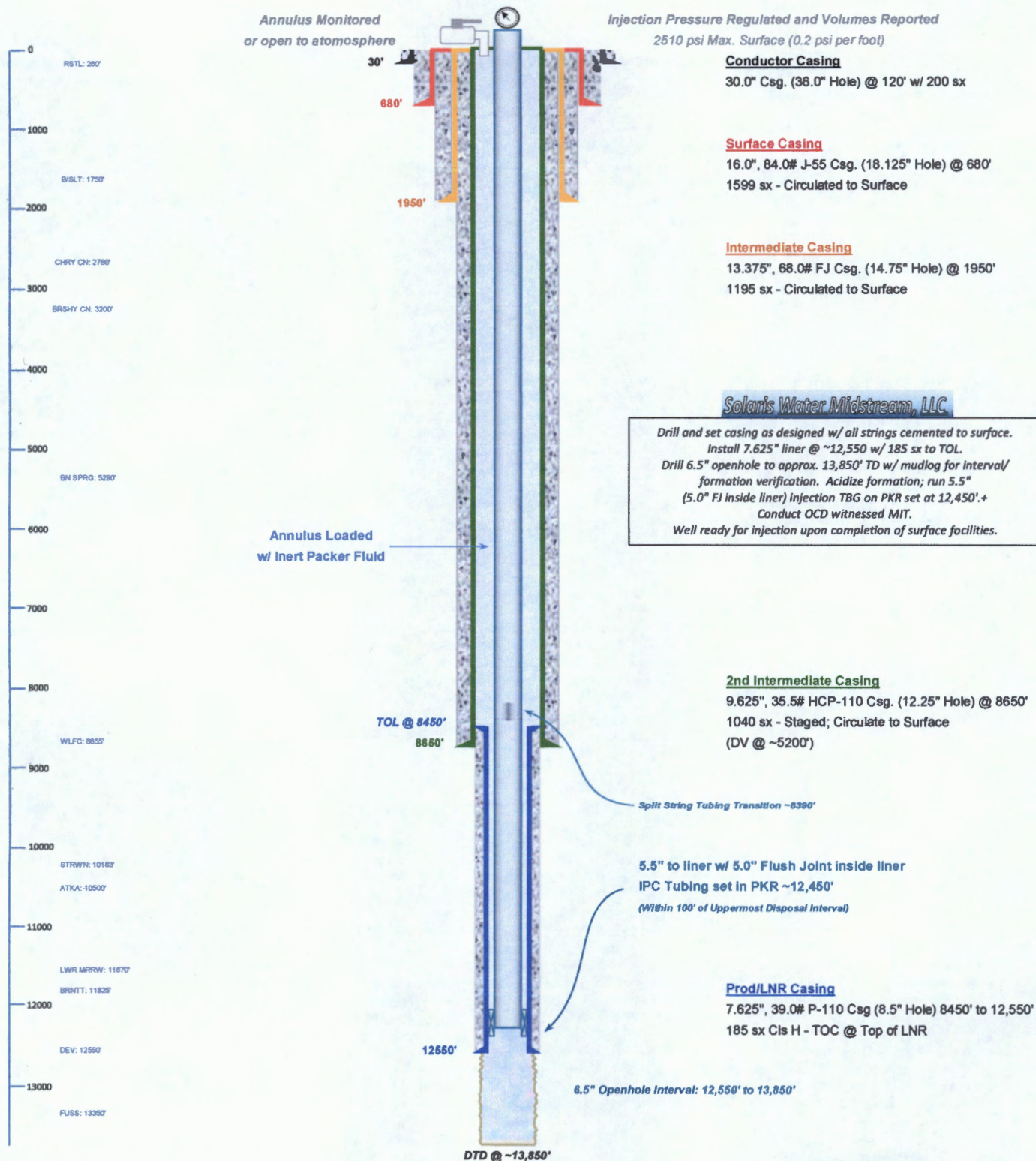
WELL SCHEMATIC - PROPOSED Spidermonkey SWD Well No.1

API 30-015-xxxxx
1500' FSL & 100' FWL, SEC. 35-T23S-R36E
EDDY COUNTY, NEW MEXICO

SWD; Devonian-Silurian (97869)

Spud Date: 5/01/2019

SWD Config Dt: 6/01/2019

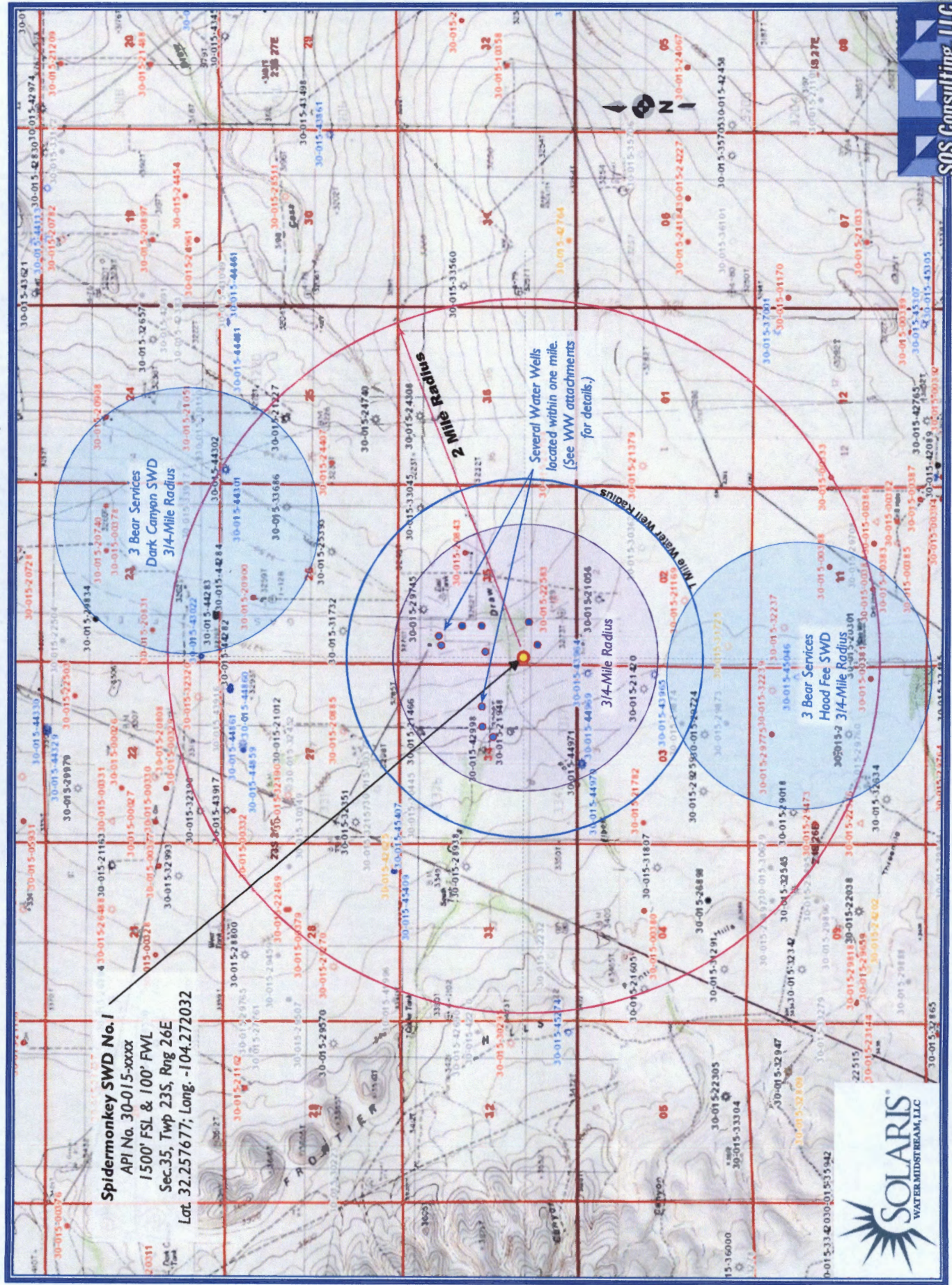


Drawn by: Ben Stone, 1/10/2019



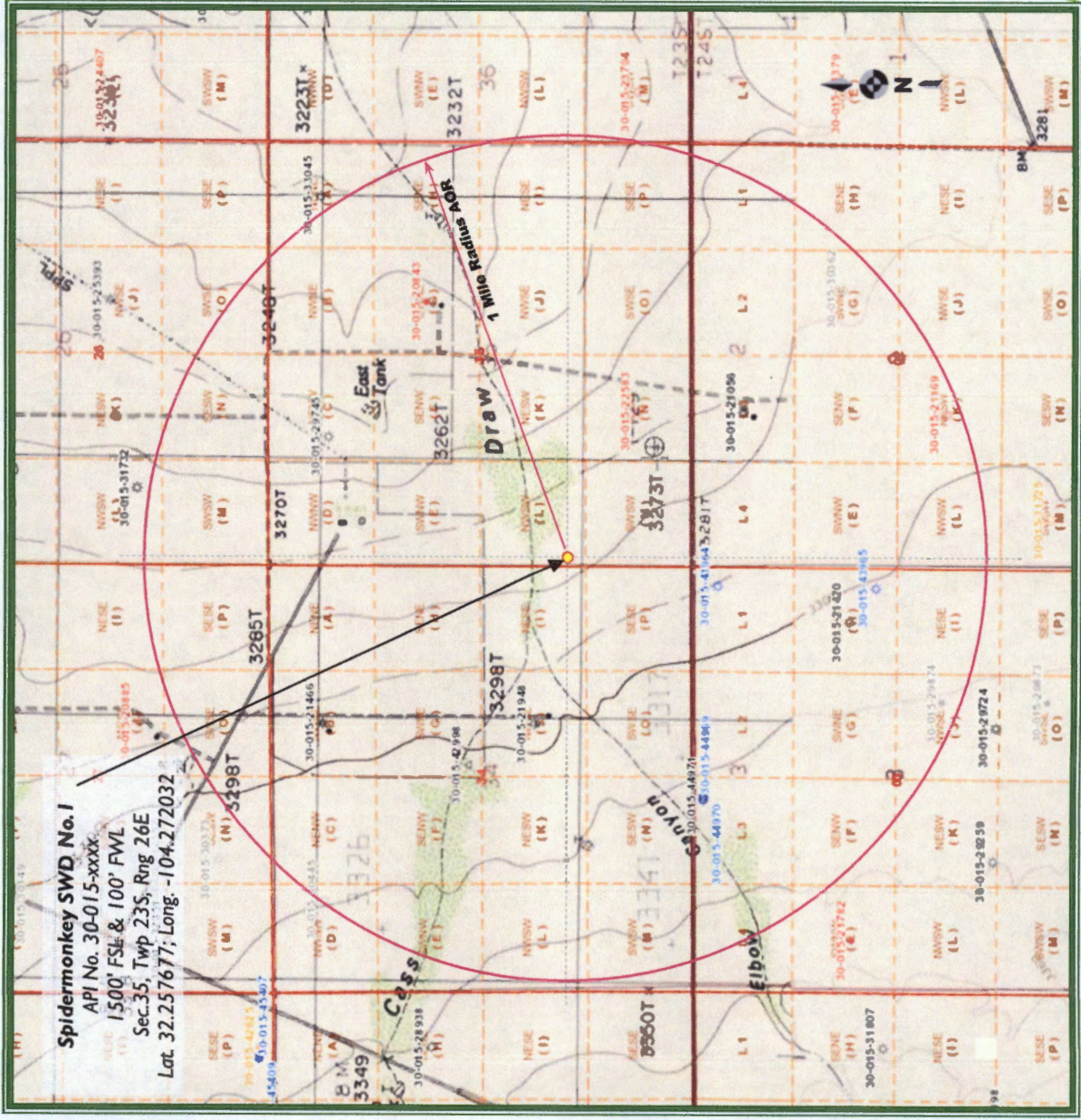
Spidermonkey SWD No.1 - Area of Review / 2 Miles

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



Spidermonkey SWD Well No.1 - Area of Review / Overview Map

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



10.1 miles West of Loving, NM



Eddy County, New Mexico



C-108 ITEM X – LOGS and AVAILABLE TEST DATA

**A Standard Suite of Logs will be run after
drilling the well and submitted to the Division.**

C-108 ITEM VII – PROPOSED OPERATION

Spidermonkey SWD No.1

Commercial SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 75 days, depending on availability of contractors and equipment.

Configure for Salt Water Disposal

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD 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

The SWD facility will not be fenced so that trucks may access for load disposal 24/7.

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 40,000 bpd and an average of 25,000 bpd at a maximum surface injection pressure of 2510 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. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as necessary and appropriate.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Glorieta/ Yeso
Bone Spring
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Spidermonkey SWD No.1 Prospect

SOURCE ZONE

GLO/YESO

API No	3001524754	Lab ID	
Well Name	PLATT PA 009	Sample ID	1146
		Sample No	
Location	ULSTR 26 18 S 26 E 330 S 990 W	Lat / Long	32.71216 -104.35742
		County	Eddy
Operator (when sampled)	Yates Petroleum Corp.		
	Field ATOKA	Unit	M
Sample Date	8/4/1984	Analysis Date	
	Sample Source Wellhead	Depth (if known)	
	Water Typ Produced Water		
ph	7.5	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	1800
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	120382	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	113000	conductivity_temp_F	
sodium_mgL	71415	carbonate_mgL	0
calcium_mgL	2560	bicarbonate_mgL	476
iron_mgL	0	sulfate_mgL	2001
barium_mgL		hydroxide_mgL	
magnesium_mgL	0	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 - Spidermonkey SWD No.1 Prospect

SOURCE ZONE

GLO/YESO

API No	3001524619	Lab ID	
Well Name	PLATT PA 008	Sample ID	1207
		Sample No	
Location	ULSTR 26 18 S 26 E 430 S 2260 W	Lat / Long	32.71245 -104.35329
		County	Eddy
Operator (when sampled)	Yates Petroleum Corporation		
Field	ATOKA	Unit	N
Sample Date	1/19/1985	Analysis Date	
	Sample Source well head	Depth (if known)	
	Water Typ Produced Water		
ph	6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	11500
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	136324	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	121000	conductivity_temp_F	
sodium_mgL	61571	carbonate_mgL	
calcium_mgL	4160	bicarbonate_mgL	104
iron_mgL	0	sulfate_mgL	3720
barium_mgL		hydroxide_mgL	
magnesium_mgL	7340	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, LLC - Spidermonkey SWD No.1 Prospect

SOURCE ZONE

BONE SPRING

API No	3001520225	Lab ID	
Well Name	BIG EDDY UNIT	Sample ID	5847
	012	Sample No	
Location	ULSTR 21 20 S 31 E	Lat / Long	32.56399 -103.87994
	660 N 660 W	County	Eddy
Operator (when sampled)	MALLON OIL COMPANY		
	Field BIG EDDY	Unit D	
Sample Date	8/27/1999	Analysis Date	8/31/1999
	Sample Source	Depth (if known)	
	Water Typ		
ph	5.2	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.125	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	181697	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	123750	conductivity_temp_F	
sodium_mgL	73895.6	carbonate_mgL	
calcium_mgL	5625	bicarbonate_mgL	13.725
iron_mgL	337.5	sulfate_mgL	787.5
barium_mgL		hydroxide_mgL	
magnesium_mgL		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 - Spidermonkey SWD No.1 Prospect

SOURCE ZONE

WOLFCAMP

API No 3001520138		Lab ID	
Well Name MAHUN STATE 001		Sample ID 5688	
		Sample No	
Location ULSTR 16 22 S 22 E	Lat / Long 32.39340	-104.70979	
1800 N 1980 W	County Eddy		
Operator (when sampled)			
Field ROCKY ARROYO	Unit F		
Sample Date 5/17/1968	Analysis Date		
Sample Source DST	Depth (if known)		
Water Type			
ph 8.6	alkalinity_as_caco3_mgL		
ph_temp_F	hardness_as_caco3_mgL		
specificgravity	hardness_mgL		
specificgravity_temp_F	resistivity_ohm_cm		
tds_mgL 35495	resistivity_ohm_cm_temp_		
tds_mgL_180C	conductivity		
chloride_mgL 19000	conductivity_temp_F		
sodium_mgL	carbonate_mgL		
calcium_mgL	bicarbonate_mgL	830	
iron_mgL	sulfate_mgL	2500	
barium_mgL	hydroxide_mgL		
magnesium_mgL	h2s_mgL		
potassium_mgL	co2_mgL		
strontium_mgL	o2_mgL		
manganese_mgL	anionremarks		
Remarks			

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

C-108 Item VII.5 - Produced Water Data
Solaris Water Midstream, LLC - Spidermonkey SWD No.1 Prospect

DISPOSAL ZONE

DEVONIAN

API No.	3001510280	Lab ID	
Well Name	JURNEGAN POINT 001	Sample ID	6170
		Sample No	
Location	ULSTR 05 24 S 25 E	Lat / Long	32.24037 -104.42375
	660 S 660 W	County	Eddy
Operator (when sampled)			
	Field WILDCAT	Unit	M
Sample Date	12/14/1964	Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	229706	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	136964	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	198
iron_mgL		sulfate_mgL	2511
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	
Remarks			

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

C-108 – Item VIII

Geologic Information

The Devonian and Silurian consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are believed present within the subject formations in the area. Depth control data was inferred from deep wells to the south and east. If the base of Devonian and top of Silurian rocks come in as expected the well will only be drilled deep enough for adequate logging rathole.

At a proposed depth of 13,850' BGL (Below Ground Level) the well will TD approximately 1,300' below the estimated top of the Devonian. Mud logging through the interval will ensure the target interval remains in Devonian and Silurian. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 13,865' BGL. Injection will occur through the resulting openhole interval. Should mud or other logs indicate depth adjustment is required to exploit the desired formation as described; sundries with appropriate data will be filed with the OCD.

The Devonian is overlain by the Barnett Shale and underlain by the Middle and Lower Ordovician; Simpson, McKee and Ellenburger.

Fresh water in the area is generally available from Cenozoic Alluvium and Rustler formations including sand and gravel layers within. State Engineer's records show water wells in the area with a depth to groundwater of 70 to 360 feet with an average depth to groundwater of 219 feet.

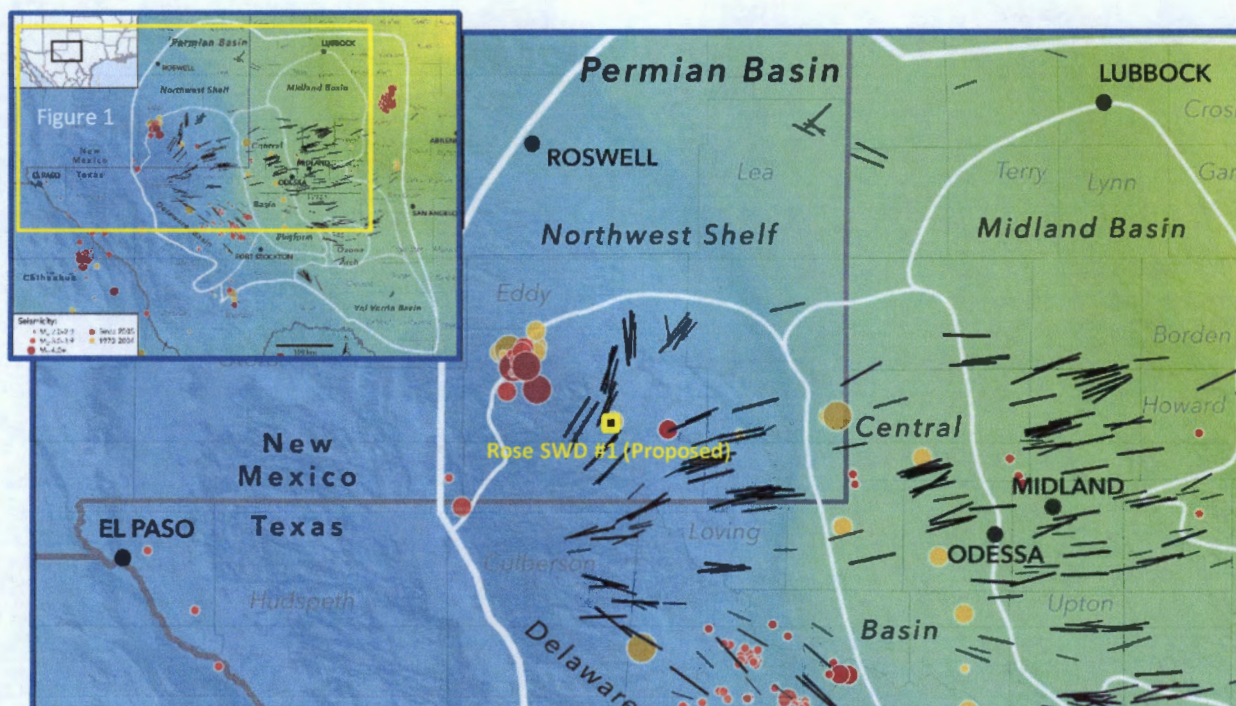
There are several water wells located within one mile of the proposed SWD; 2 have been sampled and analyses will be forwarded upon receipt.

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT

Map Source: State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity (Figure 1); Jens-Erik Lund Snee/ Mark Zoback, February 2018



PROJECT VICINITY

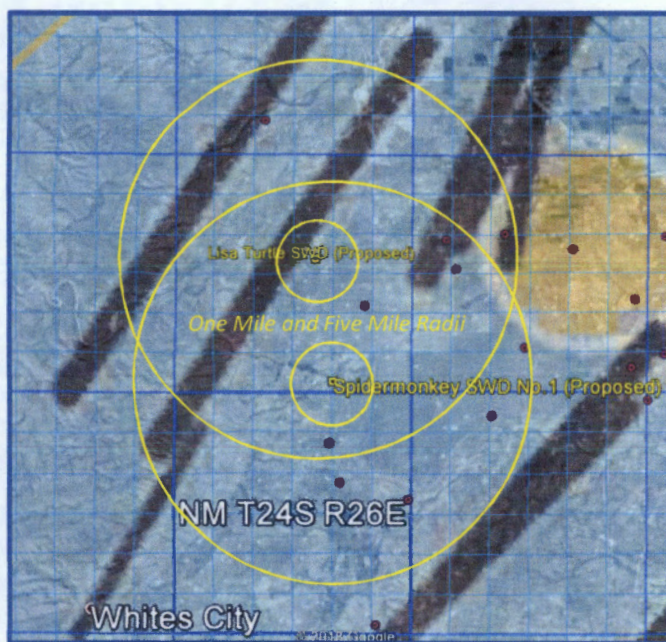


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress (SHmax), with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A_p parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense offset within the past 1.6 Ma, from the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

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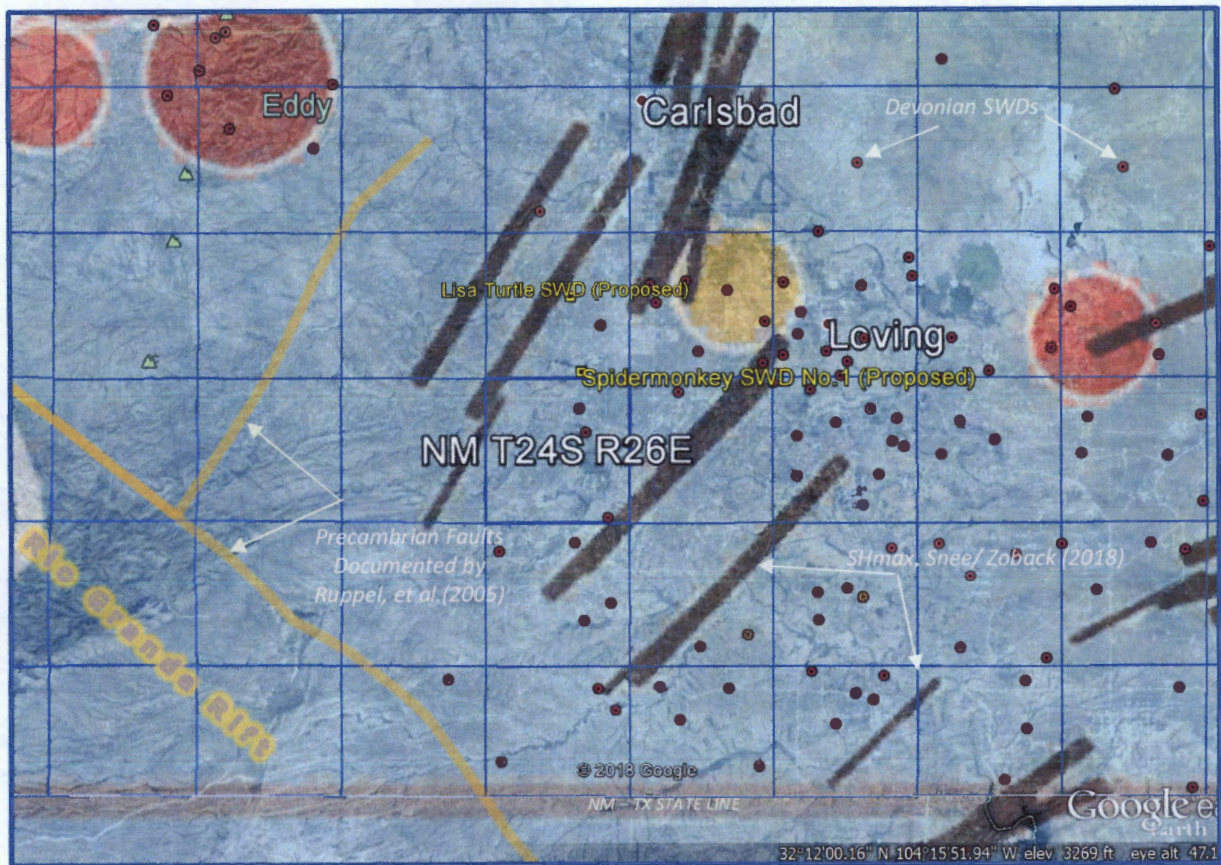
Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

In the following map, a layer with USGS historical earthquake data is overlaid and, a layer showing lines to represent Precambrian faults as documented by Ruppel, et al. (2005). Finally, a layer showing all currently permitted SWDs completed or proposed to be completed in the Devonian (Silurian) formation.

The USGS earthquakes shown are well know to the area. The cluster to the NW represents the seismic events in and around the Dagger Draw area (23.3 miles) in 2002. The 2012 quake located approximately 13 miles due east of Loving is also shown (21.7 miles). This was perhaps the most significant of the area in recent years but was determined to not be related to oil and gas activity.

The Precambrian faults and existing Devonian SWDs are discussed in more detail on the next page.



REGIONAL VIEW - DEVONIAN SWD LOCATIONS, PRECAMBRIAN FAULTS, S_{Hmax} , USGS MAGNITUDE

Based on publicly available data for the subject area, it is reasonable to believe the risk of induced seismic activity due to disposal injection into these wells is extremely low.

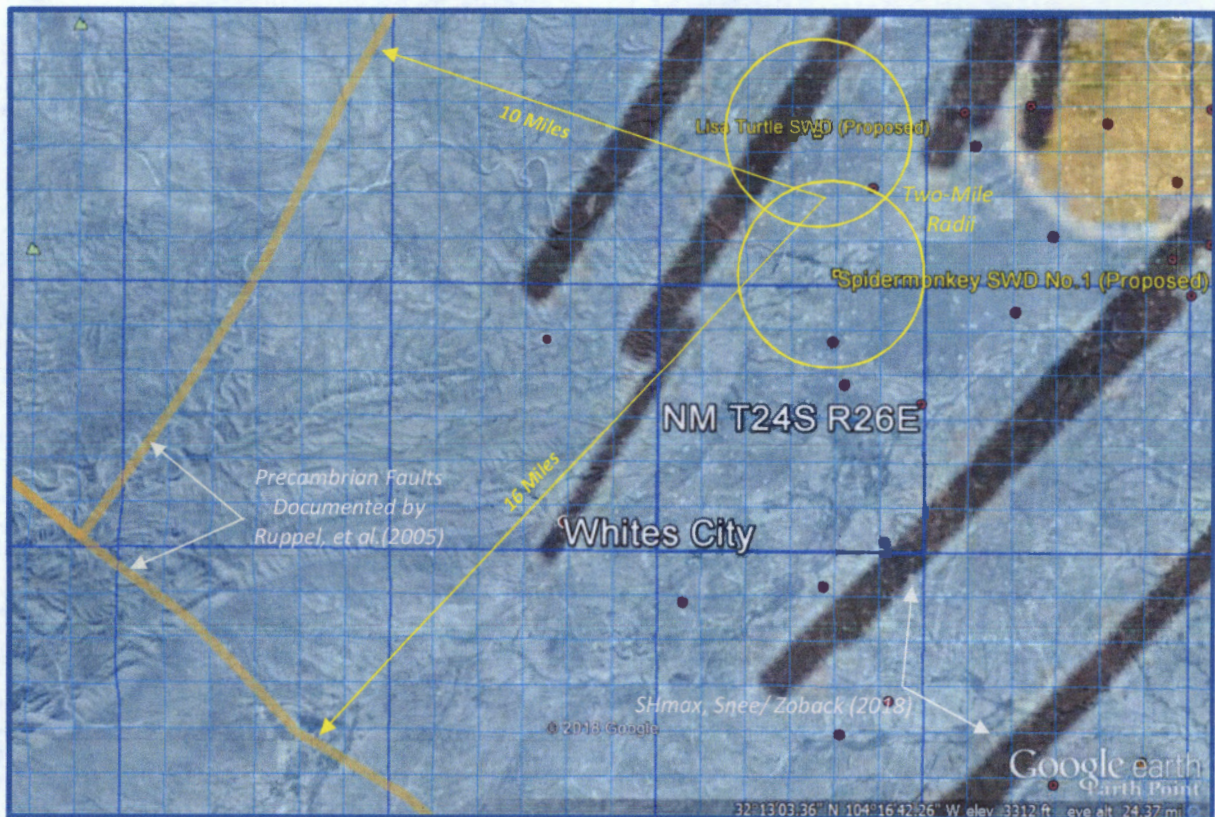
C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

The primary Precambrian fault in the area as documented by Ruppel, et al. (2005) is represented on this map by the tan colored line; the fault is running southeast to northwest. The proposed Spidermonkey and Lisa Turtle SWDs [center point] are located approximately 10 miles from the northern fault and 16 from the primary fault. Other Devonian SWDs in the area are also shown by small purple dots completed or proposed to be completed in the Devonian (Silurian) formation.

The previously referenced study by Snee and Zoback evaluated the strike-slip probability using probabilistic FSP (Fault Slip Potential) analysis of known faults in the Permian Basin. The study predicts that the Precambrian fault shown here has less than a 10% probability of being critically stressed to the point of creating an induced seismicity event. The main reason for the low probability is due to the relationship of the strike of the fault to the regional S_{Hmax} orientation in this area.

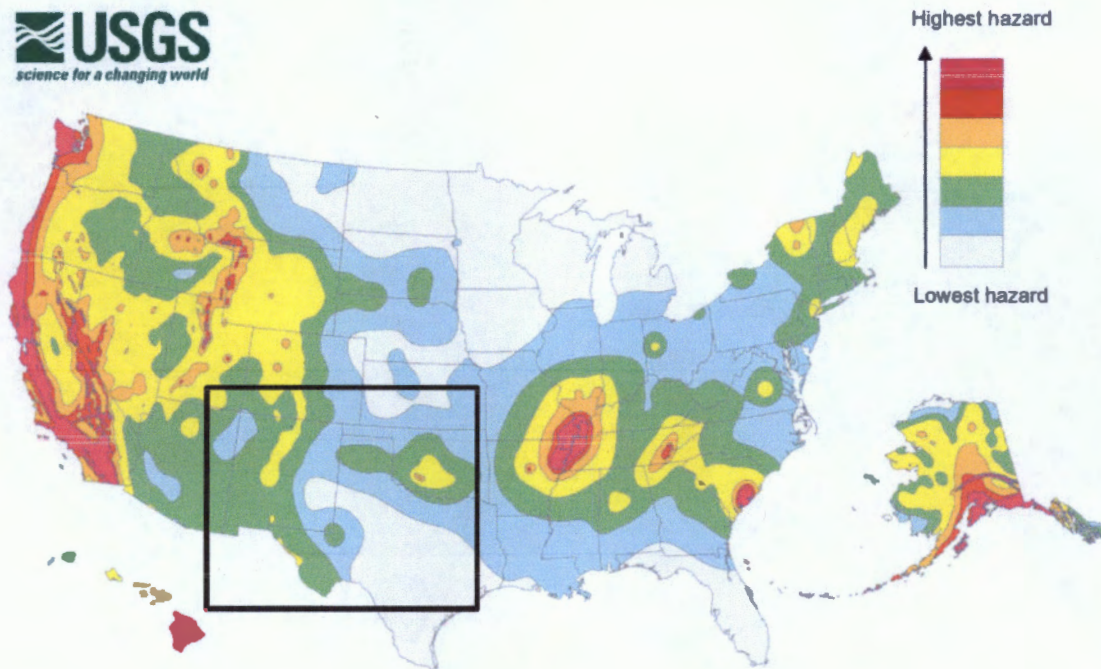


VICINITY - PERMITTED DEVONIAN SWDs, PRECAMBRIAN FAULT, S_{Hmax}

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)



2014 map data: The USGS notes in its report that fracking may be to blame for a sizeable uptick in earthquakes in places like Oklahoma. "Some states have experienced increased seismicity in the past few years that may be associated with human activities such as the disposal of wastewater in deep wells," the report says. USGS hopes to use that data in future maps but it isn't included in this one. "Injection-induced earthquakes are challenging to incorporate into hazard models because they may not behave like natural earthquakes and their rates change based on man-made activities," the report says.

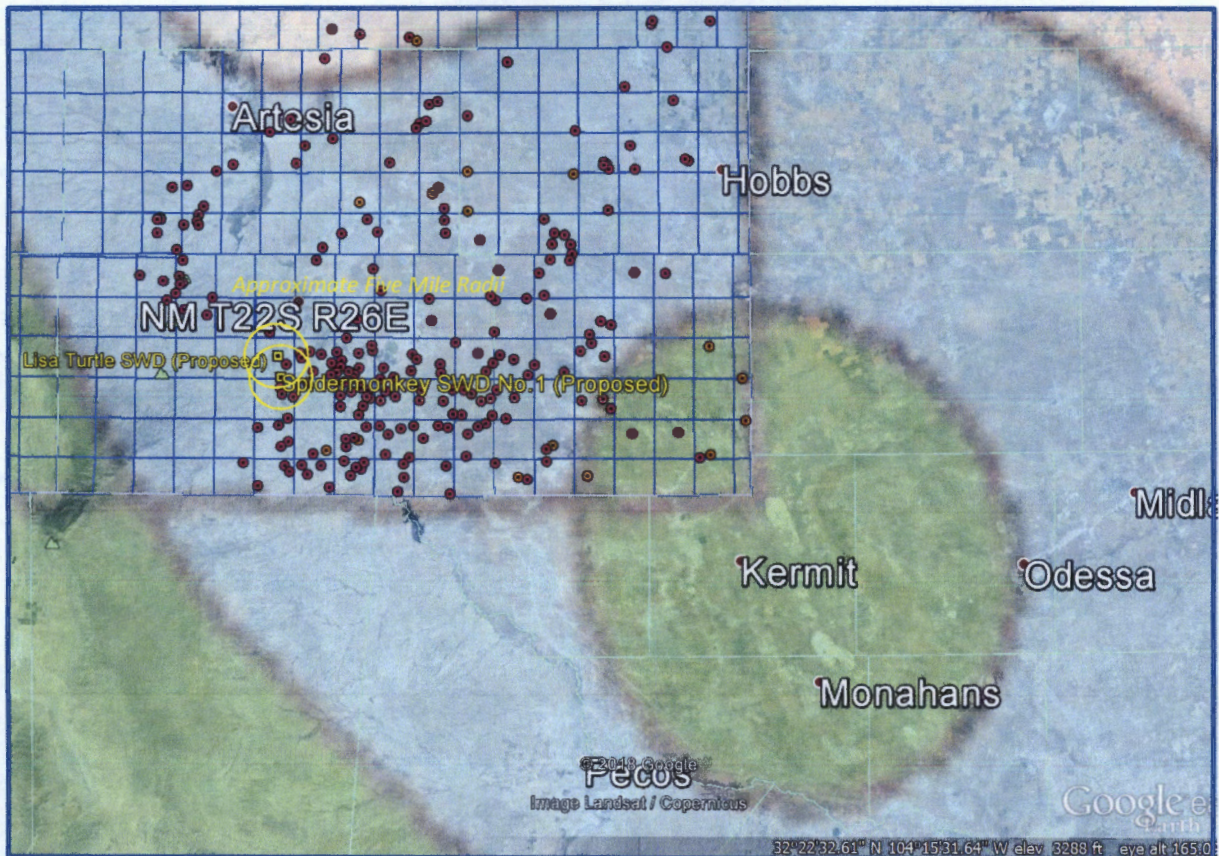


C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2014 MAP DATA OVERLAY IN GOOGLE EARTH



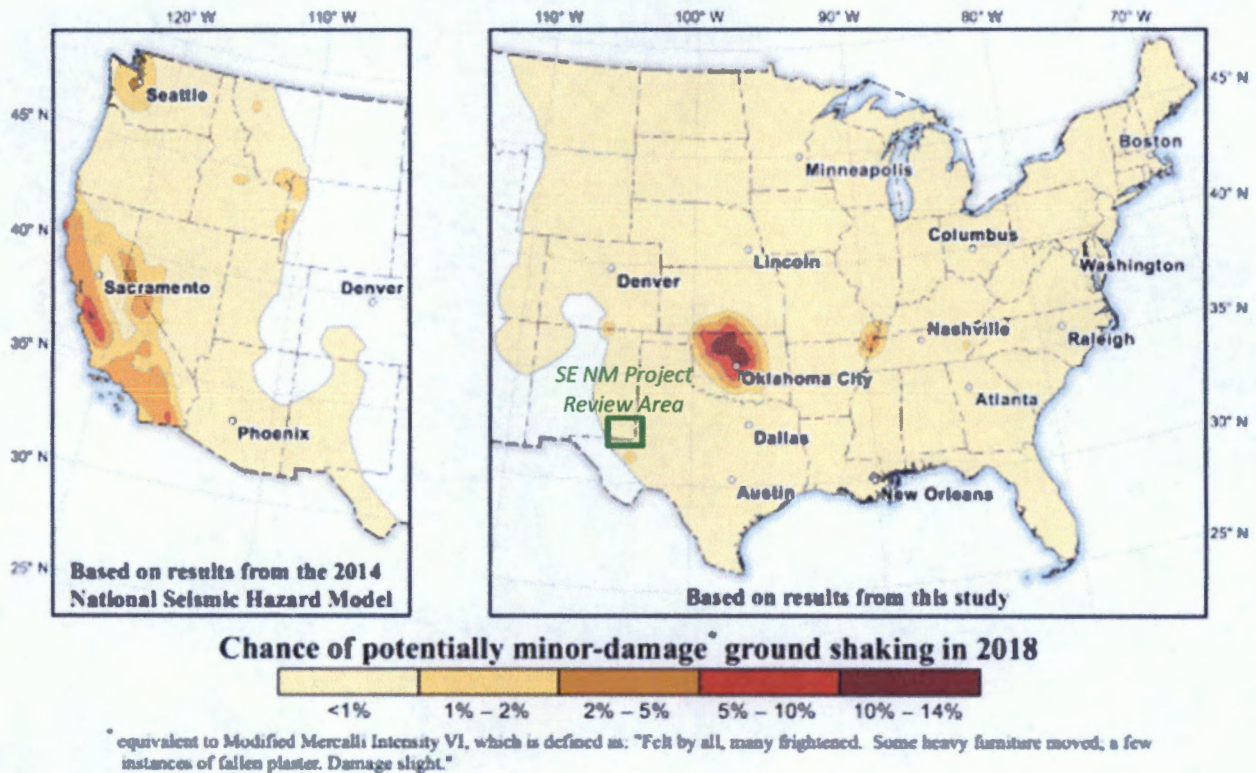
An updated USGS map for 2018 is on the next page. While methodology remained essentially the same according to USGS, the interpreted results and color-coding did have some modification. However, the subject area in southeast New Mexico on both maps remains very low and on the 2018 map, the area is assigned a value of <1% of “potentially minor-damage ground shaking”.

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2018. ONE-YEAR MODEL



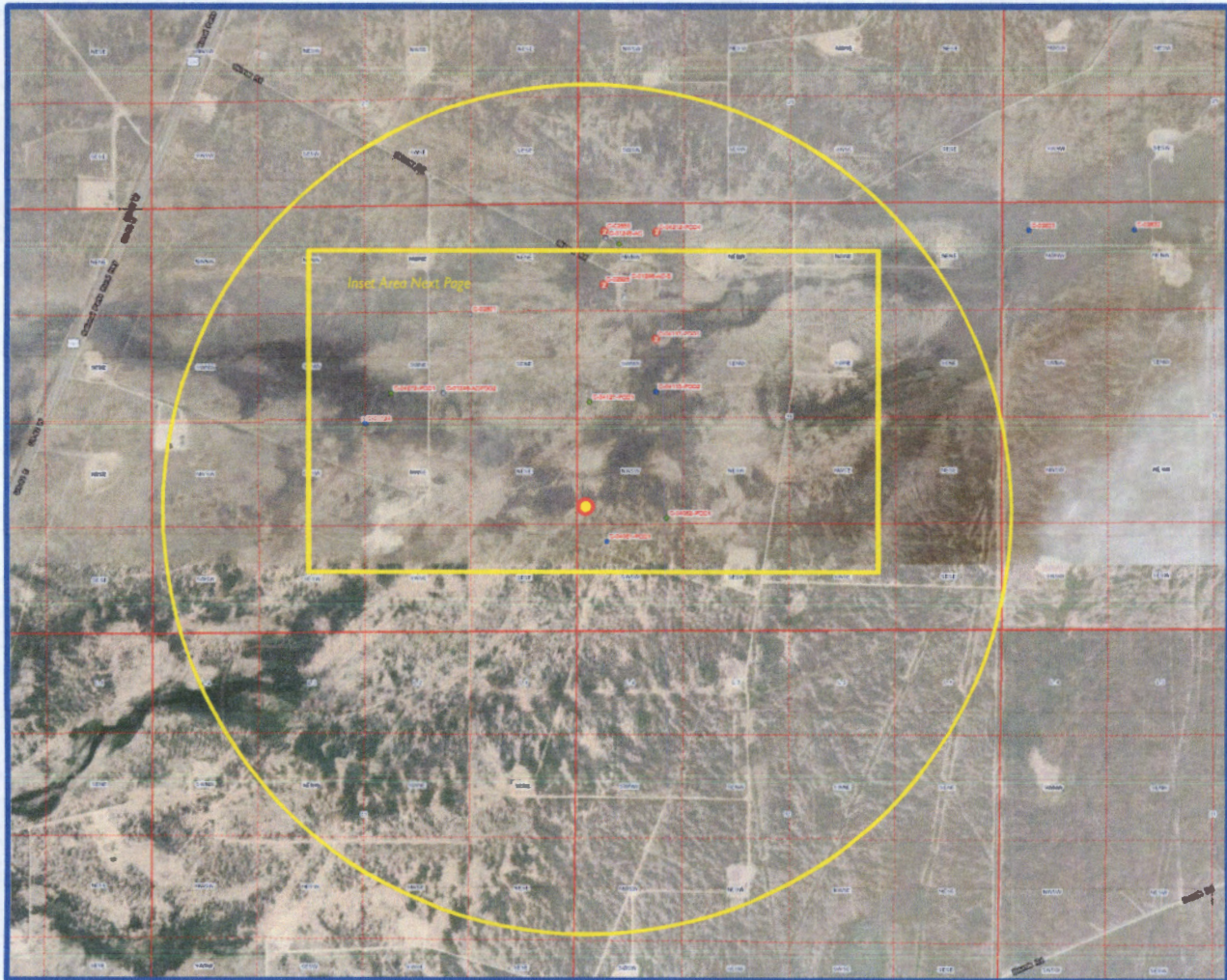
Map showing chance of damage from an earthquake in the Central and Eastern United States during 2018. Percent chances are represented as follows: pale yellow, less than 1 percent; dark yellow, 1 to 2 percent; orange, 2 to 5 percent; red, 5 to 10 percent; dark red, 10 to 12 percent. See Hazard from the western United States from the [2014 National Seismic Hazard Maps \(Petersen et al., 2014\)](#) for comparison.

The USGS has produced the 2018 one-year probabilistic seismic hazard forecast for the central and eastern United States from induced and natural earthquakes. For consistency, the updated 2018 forecast is developed using the same probabilistic seismicity-based methodology as applied in the two previous forecasts.

Based on publicly available data for the subject area, it is reasonable to believe the risk of induced seismic activity due to disposal injection into these wells is extremely low.

C-108 ITEM XI – WATER WELLS IN AOR

Spidermonkey SWD (Proposed) Water Well Locator Map



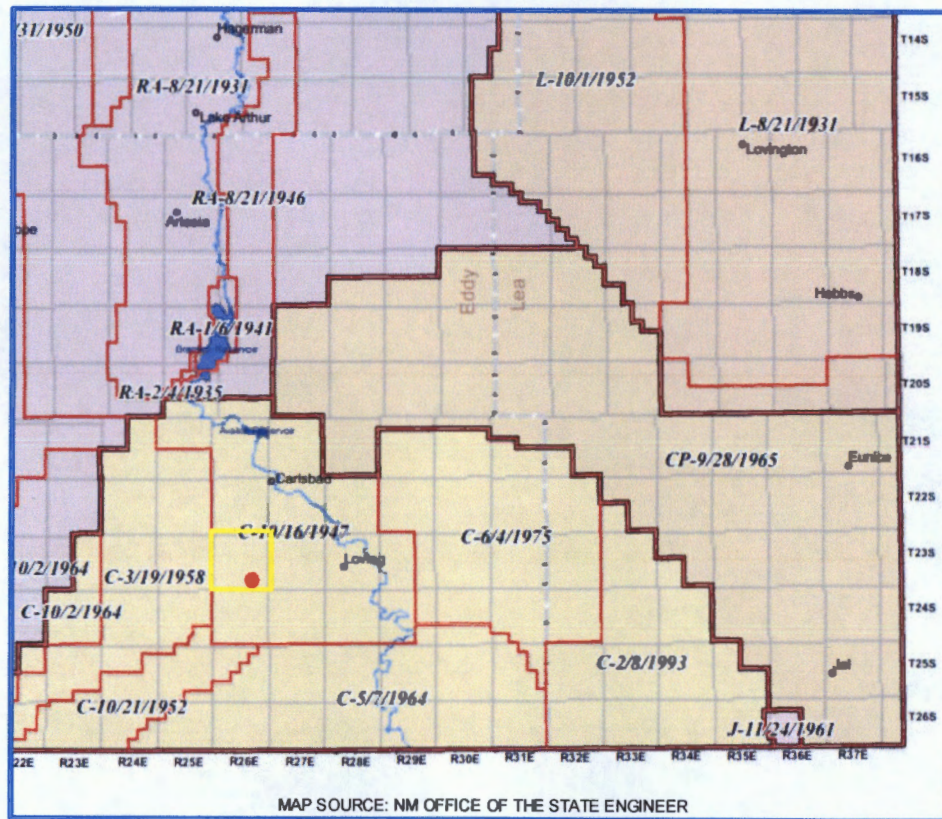
NM OSE records indicates several water wells located within one mile of the proposed SWD.

Inset area from previous page...



C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Carlsbad Basin.

Fresh water in the area is generally available from Cenozoic Alluvium and Rustler formations including sand and gravel layers within. State Engineer's records show water wells in the area with a depth to groundwater of 70 to 360 feet with an average depth to groundwater of 219 feet.

There are several water wells located within one mile of the proposed SWD; 2 have been sampled and analyses will be forwarded upon receipt.

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water



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
C 00247	C	ED		4	2	4	15	23S	26E	568406	3574119*	315	230	85
C 00341	C	CUB	ED		1	3	22	23S	26E	567090	3572566*	1881		
C 00352	C	CUB	ED		1	3	22	23S	26E	567090	3572566*	1867		
C 01015	C	ED		4	4	4	15	23S	26E	568408	3573714*	318	245	73
C 01022	C	ED		4	3	2	22	23S	26E	568005	3572894*	121	90	31
C 01140	C	ED		1	3	3	15	23S	26E	566980	3573870*	325		
C 01246 AC-S	CUB	ED		3	1	1	35	23S	26E	568730	3570098	350		
C 01463	C	ED		2	2	3	22	23S	26E	567599	3572678*	295	265	30
C 01639	C	ED		4	2	4	15	23S	26E	568406	3574119*	300	70	230
C 03238	C	ED		4	4	4	15	23S	26E	568408	3573714*	323	245	78
C 04051 POD1	C	ED		1	3	3	35	23S	26E	568653	3569112	360	360	0
C 04113 POD1	CUB	ED		2	3	1	35	23S	26E	568836	3569881	255	195	60
C 04113 POD2	CUB	ED		4	3	1	35	23S	26E	568838	3569680	289	278	11

Average Depth to Water: 219 feet

Minimum Depth: 70 feet

Maximum Depth: 360 feet

Record Count: 13

PLSS Search:

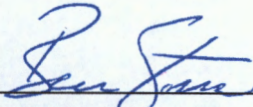
Section(s): 15, 22, 26, 35 Township: 23S Range: 26E

*UTM location was derived from PLSS - see Help

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

C-108 ITEM XII – GEOLOGIC AFFIRMATION

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



Ben Stone, Partner
SOS Consulting, LLC

Project: Solaris Water Midstream, LLC
 Spidermonkey SWD No.1
 Reviewed 1/03/2019

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Affected Parties Map

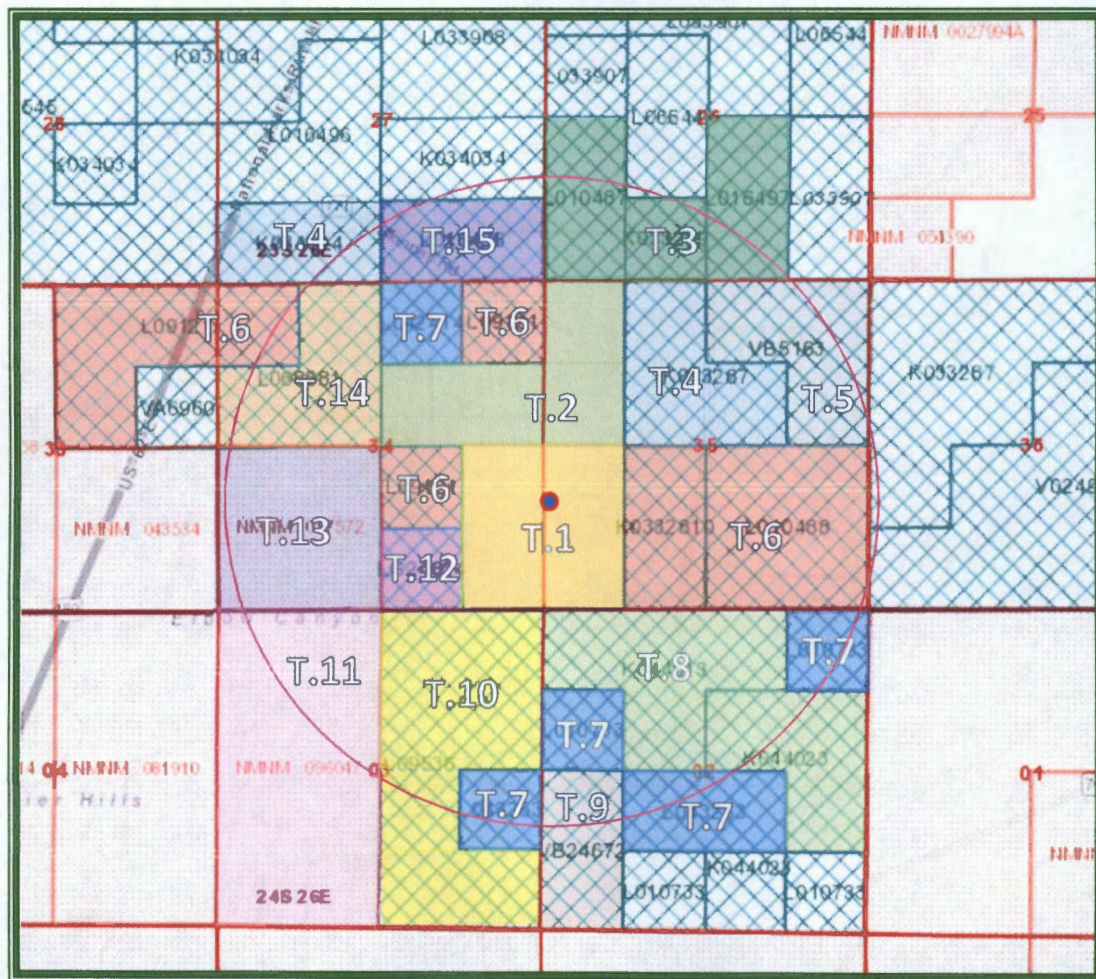
List of Interested Parties

Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

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



T.1 – Private; David Maley

T.2 – Private; Jerry & Betty Lackey – any

T.3 – Marathon Oil Permian, LLC

T.4 – Blackstone Energy Co. & Apache Corp.

T.5 – Chisholm Energy Operating, LLC

T.6 – XTO Holdings, LLC

T.7 – Magnum Hunter Production Co.

T.8 – Faulconer 1996 Limited Partnership, LLP

T.9 – WPX Energy Permian, LLC

T.10 – Legacy Reserves Operating, LP

T.11 – EAU Rouge, LLC

T.12 – Chevron USA, Inc.

T.13 – ExxonMobil Oil Corp.

T.14 – Eastland Oil Company

T.15 – Vanguard Operating, LLC

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

SOS Consulting is providing electronic delivery of C-108 applications.

**ALL APPLICABLE AFFECTED PARTIES ARE PROVIDED A LINK IN THE NOTICE LETTER
TO A SECURE SOS/ CITRIX SHAREFILE® SITE TO VIEW AND DOWNLOAD
A FULL COPY OF THE SUBJECT C-108 APPLICATION IN PDF FORMAT.**

SURFACE & MINERAL OWNER

- 1 DAVID & EVA MALEY (T.1 on Affected parties Map)
P.O. Box 519
Carlsbad, NM 88221-0519
Certified: 7018 0360 0001 8569 6170

OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

Private Lease - Lackey (T.2 on Affected Parties Map)

Lessee & Operator

- 2 MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056
Certified: 7018 0360 0001 8569 6187

State Leases L0-10480007, K0-33280009, L0-16490007 (T.3 on Affected Parties Map)

Lessee & Operator

MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056

Operator

- 3 VANGUARD OPERATING, LLC
5847 San Felipe, Ste. 3000
Houston, TX 77057
Certified: 7018 0360 0001 8569 6194

State Leases K0-33280007, K0-34030004 (T.4 on Affected Parties Map)

Lessses

- 4 BLACKSTONE ENERGY CO. & APACHE CORP.
1001 Fannin, Ste. 2020
Houston, Texas 77002
Certified: 7018 0360 0001 8569 6200

Operator

- 5 MEWBOURNE OIL COMPANY
Attn: Tim Harrington
P.O. Box 7698
Tyler, TX 75711
Certified: 7018 0360 0001 8569 6217

State Leases VB-05160003 (T.5 on Affected Parties Map)

Lessse

- 6 CHISHOLM ENERGY OPERATING, LLC
801 Cherry Street, Suite 1200, Unit 20
Fort Worth, TX 76102
Certified: 7018 0360 0001 8569 6224

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

State Leases K0-33280010, L0-10480008, L0-09120001 (T.6 on Affected Parties Map)

Lessee

- 7 XTO HOLDINGS, LLC
810 Houston Street
Fort Worth, TX 76012-6203
Certified: 7018 0360 0001 8569 6231

Operator

MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056

State Leases L0-10730003, L0-43250003, L0-42410004 (T.7 on Affected Parties Map)

Lessee

- 8 MAGNUM HUNTER RESOURCES, INC.
NM Leases and Operations
122 West John Carpenter Frwy, Suite 300
Irving, TX 75039
Certified: 7018 0360 0001 8569 6248

Operator

MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056

State Leases K0-44010003, K0-44020003 (T.8 on Affected Parties Map)

Lessee

- 9 FAULCONER 1996 LIMITED PARTNERSHIP, LLP
P.O. Box 7995
Tyler, TX 75711
Certified: 7018 0360 0001 8569 6255

Operator

MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056

State Leases VB-24670002 (T.9 on Affected Parties Map)

Lessee

- 10 WPX ENERGY PERMIAN, LLC
5315 Buena Vista Drive
Carlsbad, NM 88220-9489
Certified: 7018 0360 0001 8569 6262

Operator

CHISHOLM ENERGY OPERATING, LLC
801 Cherry Street, Suite 1200, Unit 20
Fort Worth, TX 76102

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

State Leases L0-09530006 (T.10 on Affected Parties Map)

Lessee & Operator

- 11 LEGACY RESERVES OPERATING, LP
P.O. Box 10848
Midland, TX 79702
Certified: 7018 0360 0001 8569 6279

Operator

MARATHON OIL COMPANY
5555 San Felipe St.
Houston, TX 77056

BLM Lease NMNM-096047 (T.11 on Affected Parties Map)

Lessee

- 12 EAU ROUGE, LLC
P.O. Box 823085
Dallas, TX 75682
Certified: 7018 0360 0001 8569 6286

Operator

CHISHOLM ENERGY OPERATING, LLC
801 Cherry Street, Suite 1200, Unit 20
Fort Worth, TX 76102

State Lease LG-24820004 (T.12 on Affected Parties Map)

Lessee

- 13 CHEVRON USA, INC.
Attn: Linda McMurray, Permitting Team
6301 Deauville Blvd.
Midland, TX 79706
Certified: 7018 0360 0001 8569 6125

BLM Lease NMNM-017572 (T.13 on Affected Parties Map)

Lessee

- 14 EXXONMOBIL OIL CORP.
E&P Operations
22777 Springwoods Village Parkway
Spring, TX 77389-1425
Certified: 7018 0360 0001 8569 6132

State Lease L0-68680001 (T.14 on Affected Parties Map)

Lessee

- 15 EASTLAND OIL COMPANY
P.O. Box 3488
Midland, TX 79702
Certified: 7018 0360 0001 8569 6149

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

State Lease L0-13490006 (T.15 on Affected Parties Map)

Lessee

VANGUARD OPERATING, LLC
5847 San Felipe, Ste. 3000
Houston, TX 77057

OFFSET MINERALS OWNERS (Notified via USPS Certified Mail)

- 16 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220
Certified: 7018 0360 0001 8569 6163

- 17 STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504
Certified: 7018 0360 0001 8569 6293

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S. St. Francis Dr.
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
811 S. First St.
Artesia, NM 88210



January 16, 2019

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

To Whom It May Concern:

Solaris Water Midstream, LLC, Midland, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Spidermonkey SWD Well No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 35, Township 23 South, Range 26 East in Eddy County, New Mexico.

The published notice states that the interval will be from 12,550 feet to 13,850 feet into the Devonian, Silurian and Fusselman formations.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about January 6, 2019.

LEGAL NOTICE

Solaris Water Midstream, LLC, 701 Tradewinds Blvd., Suite C, Midland, TX 79706, 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 proposed well, the Spidermonkey SWD No.1, will be located 1500' FSL and 100' FWL, Section 35, Township 23 South, Range 26 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian (Silurian) and Fusselman formations at a depth of 12,550' to 13,850' at a maximum surface pressure of 2510 psi and a rate limited only by such pressure. (Final completion depths may be adjusted per mudlogging and reported to the NMOCD on form C-105; pressure will remain at the standard gradient of 0.2 psi/ ft of the uppermost injection interval depth.) The proposed SWD well is located approximately 10.3 miles west of Loving, NM.

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

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

You are entitled to a full copy of the application. A full copy in PDF format is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link: <https://sosconsulting.sharefile.com/d-s0a31134bce145a09>
(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.*)

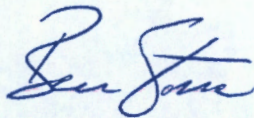
The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (One copy may be downloaded and shared as needed among your company.)

If preferred, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use a subject like **"Spidermonkey SWD Jan 2019 PDF Copy Request"**.

Thank you for your attention in this matter.

Best regards,



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

Cc: Application File

SOS Consulting is committed to providing superior quality work using technology to assist clients and affected parties in obtaining the documentation required. SOS will continue to utilize methods which are less energy and resource intensive including, the reduction of paper copies.

We hope you'll partner with us and appreciate these efforts.

* You will be asked for your email, name and company.

This will not be used by anyone except keeping track of the file downloads.

You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.

CITRIX



C-108 - Item XIV

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 City, State 5847 San Felipe, Ste. 3000
 Houston, TX 77057

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Postage
 \$

Total Postage and Fees \$6.70

Sent To
 Street and MEWBOURNE OIL COMPANY
 City, State Attn: Tim Harrington
 P.O. Box 7698
 Tyler, TX 75711

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☐ Adult Signature Restricted Delivery \$

Postage
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Total Postage and Fees \$6.70

Sent To
 Street and APT.
 City, State, ZIP MARATHON OIL COMPANY
 5555 San Felipe St.
 Houston TX 77056

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 Street and BLACKSTONE ENERGY CO.
 City, State & APACHE CORP.
 1001 Fannin, Ste. 2020

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 City, State 801 Cherry Street, Suite 1200, Unit 20
 Fort Worth, TX 76102

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C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

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☐ Adult Signature Restricted Delivery	\$

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Total Postage and Fees 6.70

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C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

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☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
\$ 6.70

Total Postage and Fees \$ 11.80

Sent To
Street and
City, State,
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CHEVRON USA, INC.
Attn: Linda McMurray, Permitting Team
6301 Deauville Blvd.
Midland, TX 79706

Postmark Here
JAN 17 2019
TX 75431

7018 0360 0001 8569 6132

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
\$ 4.70

Total Postage and Fees \$ 4.70

Sent To
Street and
City, State,
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EXXONMOBIL CORP.
E&P Operations
22777 Springwoods Village Parkway
Spring, TX 77389-1425

Postmark Here
JAN 16 2019
TX 75431

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☐ Adult Signature Restricted Delivery \$

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\$ 6.70

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City, State, Z
PS Form 38

EASTLAND OIL COMPANY
P.O. Box 3488
Midland, TX 79702

Postmark Here
JAN 16 2019
TX 75431

7018 0360 0001 8569 6132

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☐ Certified Mail Restricted Delivery \$
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Postage
\$ 6.70

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Street and
City, State,
PS Form

BUREAU OF LAND MANAGEMENT
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

Postmark Here
JAN 16 2019
TX 75431

7018 0360 0001 8569 6293

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☐ Return Receipt (electronic) \$ 2.70
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage
\$ 5.00

Total Postage and Fees \$ 11.15

Sent To
Street and
City, State,
PS Form 3

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

Postmark Here
JAN 16 2019
TX 75431

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January 17, 2019

USPS Tracking Intranet Tracking Number Result



****ATTENTION**** Please note that "Scheduled Delivery Date from the ISC" is incorrectly showing "by 8:00pm" on the Internet and Intranet tracking results page for international items. Until this is fixed on the page, please disregard the time of "by 8:00pm" and adhere to the correct commitment time of 3:00pm; deliveries/attempts after 3:00pm fail service. Thank you for your support.

Last Updated: 8/30/2018

Result for Domestic Tracking Number 7018 0360 0001 8569 6125

Destination and Origin

Destination

ZIP Code	City	State
79706	MIDLAND	TX

Origin

ZIP Code	City	State
75431	COMO	TX

Tracking Number Classification

Class/Service

Class/Service: First-Class Certified Mail
Class of Mail Code/Description: FC / First Class

Destination Address Information

Address: 6301 DEAUVILLE
City: MIDLAND
State: TX
5-Digit ZIP Code: 79706
4-Digit ZIP Code add on: 2964
Delivery Point Code: 01
Record Type Code: Street Record
Delivery Type: Residential, Sidewalk

Origin / Return / Pickup Address Information

Address:
City:
State:
5-Digit ZIP Code: 75431
4-Digit ZIP Code add on:

Service Delivery Information

Service Performance Date: Expected Delivery by: Saturday, 01/19/2019 by 8:00pm
PO Box: N
Other Information: [Service Calculation Information](#)

Payment

Weight: 0 lb(s) 0 oz(s)

[Agent Information](#)

Extra Services

Extra Services Details

Description	Amount
Certified Mail	

Events

Event	Event Code	Event Date	Event Time	Location	Input Method	Scanner ID	Carrier Route	Posting Date / Time (Central Time)	Other Information
IN TRANSIT TO DESTINATION	NT	01/17/2019	12:35		System Generated			01/17/2019 12:51:02	Request Delivery Record
ENROUTE/PROCESSED	10	01/16/2019	22:35	COPPELL, TX 75099	Scanned	DBCS-016-	Destined to route 79706296401	01/16/2019 22:40:03	
ENROUTE/PROCESSED	10	01/16/2019	22:12	COPPELL, TX 75099	Scanned	AFCS200-011-		01/16/2019 22:46:03	
DEPART POST OFFICE	SF	01/16/2019	14:30	COMO, TX 75431	System Generated			01/16/2019 14:48:02	Close-out Label ID: <u>CT13 5886 7000 1901 614 3634 000</u>
ACCEPT OR PICKUP	03	01/16/2019	14:19	COMO, TX 75431	Scanned	IMD 030SHGJ556 (non-wireless)	Scanned by route 5431B001	01/16/2019 14:37:07	Facility Finance Number: 481930

Enter up to 35 items separated by commas.

Select Search Type:

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Affidavit of Publication

No. 24958

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that he is the

Publisher

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

Legal Ad

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

1 Consecutive weeks/day on the same

day as follows:

First Publication January 6, 2019

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

7th day of January 2019



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Solaris Water Midstream, LLC, 701 Tradewinds Blvd., Suite C, Midland, TX 79706, 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 proposed well, the Spidermonkey SWD No.1, will be located 1500' FSL and 100' FWL, Section 35, Township 23 South, Range 26 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian (Silurian) and Fusselman formations at a depth of 12,550' to 13,850' at a maximum surface pressure of 2510 psi and a rate limited only by such pressure. (Final completion depths may be adjusted per mudlogging and reported to the NMOCD on form C-105; pressure will remain at the standard gradient of 0.2 psi/ ft of the uppermost injection interval depth.) The proposed SWD well is located approximately 10.3 miles west of Loving, NM.

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

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