STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF SOLARIS WATER MIDSTREAM, LLC FOR APPROVAL OF A SALTWATER DISPOSAL WELL, LEA COUNTY, NEW MEXICO

Case No.

APPLICATION

Pursuant to 19.15.26.8 NMAC, Solaris Water Midstream, LLC ("Solaris") requests that the New Mexico Oil Conservation Division ("Division") issue an order approving a saltwater disposal well in Lea County, New Mexico. In support of its application, Solaris states the following.

- 1. Solaris (OGRID No. 371643) seeks an order approving its proposed Ragin Rutley SWD No. 1, to be drilled at a location 857' from the south line and 228' from the east line, in Unit P of Section 14, Township 20 South, Range 32 East, Lea County, New Mexico for the purpose of operating the Ragin Rutley SWD No.1 as a saltwater disposal well.
- 2. Solaris seeks authorization to inject produced water into the Devonian, Fusselman Formation (SWD; Devonian-Silurian pool; Code 97869) at a depth of approximately 14,463 to 16,263 feet.
- 3. Solaris proposes to inject an average of 30,000 barrels of water per day up to a maximum of 40,000 barrels of water per day.
- 4. Solaris requests that the Division approve a maximum surface injection pressure of 2,892 psi.
 - 5. A Division Form C-108 is attached as Exhibit A.

- 6. An updated area of review map and accompanying list of wells is attached as Exhibit B, and an updated list of affected parties is attached as Exhibit C.
 - 7. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Solaris requests that this application be set for hearing on May 2, 2024, and that, after notice and hearing, the Division enter an order approving this application and authorizing Solaris to inject produced water into the Ragin Rutley SWD No.1 well for disposal.

Respectfully submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy Jaclyn M. McLean

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

Facsimile: (505) 982-8623

dhardy@hinklelawfirm.com

jmclean@hinklelawfirm.com

Counsel for Solaris Water Midstream, LLC

RECEIVED:	REVIEWER;	TYPE:	APP NO:		
		ABOVÉTHISTABLE FOR OCCU O OIL CONSERV cal & Engineering ancis Drive, Sant	ATION DIVISION g Bureau –		
		ATIVE APPLICAT			
THIS	CHECKLIST IS MANDATORY FOR AL REGULATIONS WHICH RE	l administrative applic Quire processing at thi			
Applicant: Sola	is Water Midstream, L	LC	OGF	RID Number: 371643	
	in Rutley SWD No. 1 onian-Silurian_		API:_	Code: 97869	
	11 7		IRED TO PROCESS	THE TYPE OF APPLICATION	
A. Location	ICATION: Check those in – Spacing Unit – Simult NSL NSP(PR	aneous Dedicatio	on]\$D	
[] Con [[] Inje	one only for [1] or [11] nmingling – Storage – M DHC [CTB [PI ction – Disposal – Pressu WFX [PMX [S)	\bot C \Box PC \Box (ire Increase – Enh		ery FOR OCD ONLY	
A. Offse B. Royc C. Appl D. Notif	N REQUIRED TO: Check of operators or lease hold alty, overriding royalty or ication requires published ication and/or concurred ication and/or con	ders wners, revenue ov ed notice ent approval by S	wners	Notice Complete Application Content Complete	
F. Surfo	ice owner ill of the above, proof o otice required			ched, and/or,	
administrativ understand t	ON: I hereby certify that e approval is accurate of hat no action will be tall are submitted to the Div	and complete to ken on this applic	the best of my kr	nowledge. I also	
1	Note: Statement must be comple	ted by an individual wit	h managerial and/or su	upervisory capacity.	
			December 9,	2019	
Ramona K. Ho	vey – Agent of Solaris W	ater Midstream	Date		
Print or Type Name	•	((512) 600-177	7	
			Phone Numbe	er	
Kumor	ra Kthoney	ramona@lonq	ramona@lonquist.com		
Signature	1		e-mail Addres	S	

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM Page 4 of 79 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

	ATTECATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
H.	OPERATOR: Solaris Water Midstream, LLC
	ADDRESS: 701 Tradewinds Blvd., Suite C, Midland, TX 79706
	CONTACT PARTY: Whitney McKee PHONE: 432-203-9020
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map 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.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.	Attach appropriate geologic data on the injection zone 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.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
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: Ramona Hovey / TITLE: Consulting Engineer – Agent for Solaris Water Midstream
*	SIGNATURE: DATE: 12/9/2019 E-MAIL ADDRESS: ramona@lonquist.com 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:

Side 2

III. WELL DATA

- 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

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.

INJECTION WELL DATA SHEET

Side 1

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Ragin' Rutley SWD No. 1

WELL LOCATION: <u>857' FSL 228' FEL</u>

FOOTAGE LOCATION

LOT 16 UNIT LETTER 14 SECTION 20S TOWNSHIP 32E RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26" Casing Size: 20"

Cemented with: 953 sx. or ft

Top of Cement: surface Method Determined: circulation

Intermediate 1 Casing

Hole Size: <u>18.125"</u> Casing Size: <u>16"</u>

Cemented with: 1,357 sx. or ft^3

Top of Cement: surface Method Determined: circulation

Intermediate 2 Casing

Hole Size: <u>14.75</u>" Casing Size: <u>13.375</u>"

Cemented with: 1,048 sx. or ft³

Top of Cement: <u>surface</u> Method Determined: <u>circulation</u>

Production Casing

Hole Size: 12.250"	Casing Size: 9.625"
11016 5126. 12.250	Casing Size. <u>7.025</u>

Top of Cement: <u>surface</u> Method Determined: <u>circulation</u>

Liner

Hole Size: <u>8.500"</u> Casing Size: <u>7.625"</u>

Cemented with: <u>422 sx.</u> *or* ______ ft³

Top of Cement: 10,625' Method Determined: logging

Total Depth: 16,263'

Injection Interval

<u>14,463</u> feet to <u>16,263</u> feet

(Open Hole)

INJECTION WELL DATA SHEET

	bing Size: 5.5", 20 lb/ft, HCL-80, BTC from 0' – 10,425' and 5", 18 lb/ft, HCL-80, LTC from 10,425' – ning Material: Duoline	14,413
Ty	pe of Packer: 7-5/8" X 5" Permanent Packer with High Temp Elastomer and Full Inconel 925 trim	
Pac	cker Setting Depth: 14,413'	
Otl	her Type of Tubing/Casing Seal (if applicable):	
	Additional Data	
1.	Is this a new well drilled for injection? <u>X</u> YesNo	
	If no, for what purpose was the well originally drilled?	
2.	Name of the Injection Formation: <u>Devonian</u> , <u>Fusselman</u>	
3.	Name of Field or Pool (if applicable): SWD; Devonian-Silurian 97869	
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.	
	No, new drill.	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:	
	Delaware: 5,049' Strawn: 11,918' Atoka: 12,290' Morrow: 12,917'	



Solaris Water Midstream, LLC

Ragin Rutley SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well information					
Lease Name Ragin Rutley SWD					
Well No.	1				
Location	S-14 T-20S R-32E				
Footage Location 857' FSL & 228' FEL					

2.

a. Wellbore Description

		Casing Information					
Туре	Surface	Intermediate 1	Intermediate 2	Production	Liner		
OD	20"	16"	13.375"	9.625"	7.625"		
WT	0.500"	0.656"	0.480"	0.545"	0.500"		
ID	19.000"	14.688"	12.347"	8.535"	6.625"		
Drift ID	18.936"	15.062"	12.559"	8.379"	6.500"		
COD	21.000"	17.000"	13.375"	10.625"	7.625"		
Weight	106.5 lb/ft	109 lb/ft	72 lb/ft	53.5 lb/ft	39 lb/ft		
Grade	J-55 BTC	J-55 BTC	HCL-80 FJ	HCP-110 BTC	Q-125 EZ-GO FJ3		
Hole Size	26"	18.125"	14.75"	12.25"	8.5"		
Depth Set	1,385′	2,844'	4,932'	10,825′	10,625' – 14,463'		

b. Cementing Program

Casing String	Surface	Intermediate 1	Intermediate 2	Production	Liner
Lead Cement	HALCEM™	HALCEM™	HALCEM™	HALCEM [™]	NeoCem [™]
Lead Cement Volume (sacks)	642	700	817	Stage 1: 1,604 Stage 2: 262	421
Lead Cement Yield (ft3/sack)	1.664	1.664	1.664	Stage 1: 2.731 Stage 2: 1.336	1.223
Tail Cement	HALCEM™	HALCEM™	HALCEM™	HALCEM™	≅ A
Tail Cement Volume (sacks)	311	657	231	Stage 1: 623 Stage 2: 178	5
Tail Cement Yield (ft3/sack)	1.332	1.332	1.332	Stage 1: 1.056 Stage 2: 1.336	es q
Cement Excess	100%	100%	100%	100%	50%
Total Sacks	953	1,357	1,048	2,668	421
тос	Surface	Surface	Surface	Surface	10,625'
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged

3. Tubing Description

Tubing Information					
OD	5.5"				
OD	5.0"				
WT	0.361"				
	0.362"				
ID.	4.778"				
ID	4.276"				
Drift ID	4.653"				
Drift iD	4.151"				
COD	6.050"				
COD	5.563"				
Weight	20 lb/ft				
Weight	18 lb/ft				
Grade	HCL-80 BTC				
Grade	HCL-80 LTC				
Depth Set	0-'10,425'				
Deptil Set	10,425-11,413'				

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian

2. Gross Injection Interval: 14,463' - 16,263'

Completion Type: Open Hole

3. Drilled for injection.

4. See the attached wellbore schematic.

5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Delaware	5,049'
Wolfcamp	10,725'
Strawn	11,918'
Atoka	12,290'
Morrow	12,917'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injected:

Average Volume: 30,000 BPD Maximum Volume: 40,000 BPD

- 2. Closed System
- 3. Anticipated Injection Pressure:

Average Injection Pressure: 2,169 PSI (surface pressure)
Maximum Injection Pressure: 2,892 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. Attached are produced water sample analyses taken from the closest wells that feature samples from the Artesia, Bone Spring, Delaware, Morrow, Pennsylvanian, Strawn, and Wolfcamp formations.
- 5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

Devonian Formation Lithology:

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

Fusselman Formation Lithology:

The Silurian/Ordovician Fusselman Formation is stratigraphically below the Wristen Group and is above and separated from the Montoya Formation by the Sylvan Shale. The Sylvan Shale is the lower confining layer for the proposed Texas Ranger SWD No. 1 well. Fusselman facies include a laminated skeletal wackestone in the upper part and a buildup complex in the lower part composed of ooid and bryozoan grainstones. These grainstones can also be potentially prolific zones for disposal.

A. Injection Zone: Devonian-Silurian Formation

Formation	Depth			
Rustler	1,079'			
Salado	1,375′			
Capitan Reef Top	2,834'			
Capitan Reef Base	4,922'			
Delaware Mountain Group	5,049′			
Wolfcamp	10,725′			
Strawn	11,918' 12,290'			
Atoka				
Morrow	12,917′			
Barnett	13,433′			
Mississippian Lime	13,758′			
Woodford	14,318′			
Devonian	14,463′			
Fusselman	15,315′			

B. Underground Sources of Drinking Water

Seven (7) water wells exist within one-mile of the proposed well. Across the area, fresh water wells are usually drilled at an average depth of 388'. Average water depth in this region is approximately 239'. The Rustler exists in this area at a depth of 1,079' and will be protected by setting 20" surface casing 10' past the Rustler formation into the Salado salt at approximately 1,385'

The proposed well is located within the Capitan Reef Complex; thus, the proposed wellbore design is a 4-string design that is intended to protect the Capitan Reef from any potential contamination while drilling. The first intermediate casing string will be set approximately 10' into the top of the Capitan Reef at 2,844'. The second intermediate casing will isolate the Capitan Reef by setting a second intermediate casing string approximately 10' past the base of the Capitan Reef. A depiction of the 4-string casing design is included in this application.

IX. Proposed Stimulation Program

50,000 gallon acid job

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

Attached is a map of the seven (7) water wells that exist within one-mile of the well location. A 3rd party is currently attempting to identify active wells and obtain sample. If samples can be obtained, analysis results will be provided as soon as possible.

Received by OCD: 4/1/2024 10:50:38 AM

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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

State of New Mexico

Page 14 of 79
Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

APPLIC	AHC	IN FUR	Derator Name	O DRILL, RE-EN	TER, DE	LEPEN	, PLUGBAC.	2. OGRID Num	ber
		S	OLARIS WATER MII 01 TRADEWINDS B	OSTREAM, LLC LVD., SUITE C				371643 3. API Number	er
701 TRADEWINDS BLVD., SUITE C MIDLAND, TX 79706 4. Property Code 5. Property Na				Jame			TBD 6. V	Well No.	
riopen	y code			RAGIN' RUTLE	Y SWD				Ĭ
				7. Surface Lo	cation		•		
UL - Lot	Section	Township	Range	Lot Idn Feet fro		/S Line	Feet From	E/W Line	County
LOT 16	14	20S	32E	857		S	228	Е	LEA
		1	·	8 Proposed Botton					1
UL - Lot	Section	Township	Range	Lot Idn Feet fr	om N	/S Line	Feet From	E/W Line	County
				9 D. LT. C.		-			
				9. Pool Inform	mation				Pool Code
				Pool Name SWD; Devonian-Silurian					97869
11. Work	т	1	12. Well Type	Additional Well I		1	^{14.} Lease Type	15. C	round Level Elevation
N	Type		SWD	R	iry		Private		3,531'
16. Mul	tiple		7. Proposed Depth	18. Formation			19. Contractor		²⁰ . Spud Date
N			16,263	Silurian-Devor	2622		TBD		ASAP
Depth to	Ground w	ater		Distance from nearest fresh 3,282'	water well		D	istance to nearest s >1 mile	
	7927			Service to torre					
7 we will be	using a v	cioscu-ioop	system in lieu o	Proposed Casing and	Cement Pr	ogram			
Type	Но	ole Size	Casing Size	Casing Weight/ft	Set	ting Depth	Sacks	of Cement	Estimated TOC
Surface		26"	20"	106.5 lb/ft	1,385'			953	Surface
Intermediate	1 18	8.125"	16"	109 lb/ft	2,844'		1	,357	Surface
Intermediate	2 1	4.75"	13.375"	72 lb/ft		4,932	1	,048	Surface
Production	1	2.25"	9.625"	53.5 lb/ft	i company	10,825	2,668		Surface
Liner		8.5"	7.625"	39 lb/ft	10,62	25' – 14,463	33	122	10,625
Tubing			5.5" & 5"	20 lb/ft & 18 lb/ft	0'-10,425'	& 10,425'-	14,413'	N/A	
			Casir	ng/Cement Program: A	Additional	Commer	nts		
See attached sche	matic.								
			22.	Proposed Blowout Pr	evention P	rogram			
	Туре			Working Pressure		Test Pro	essure	ı	Manufacturer
Double I	Iydrualic/B	linds, Pipe		8,000 psi		10,000) psi	TBD – Schaffer/Cameron	
^{23.} I hereby cer of my knowled			on given above is tr	ue and complete to the best		OII	_ CONSERVA	TION DIVI	SION
I further certi	fy that I	have compl	ied with 19.15.14.	9 (A) NMAC and/or	Approved E	By:			
19.15.14.9 (B) Signature:	NIVIAC	application of the contraction o	ra /	thores	PA 1841 405 507 105 525 527	n#027			
Printed name:	Ramona H	lovey		7	Title:				
Title: Consulting Engineer			Approved I	Date:	I	Expiration Date:			
E-mail Addres	s: ramona	@lonquist.c	om						
Date: December 9, 2019 Phone: 512-600-1777				Conditions	of Approva	l Attached			

1025 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Tax (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax (575) 748-0720 <u>District III</u> 1000 Ro Brazos Road, Artee, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

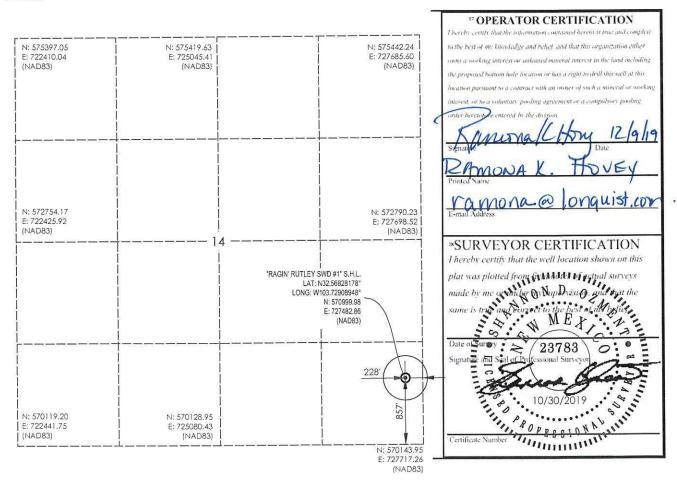
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

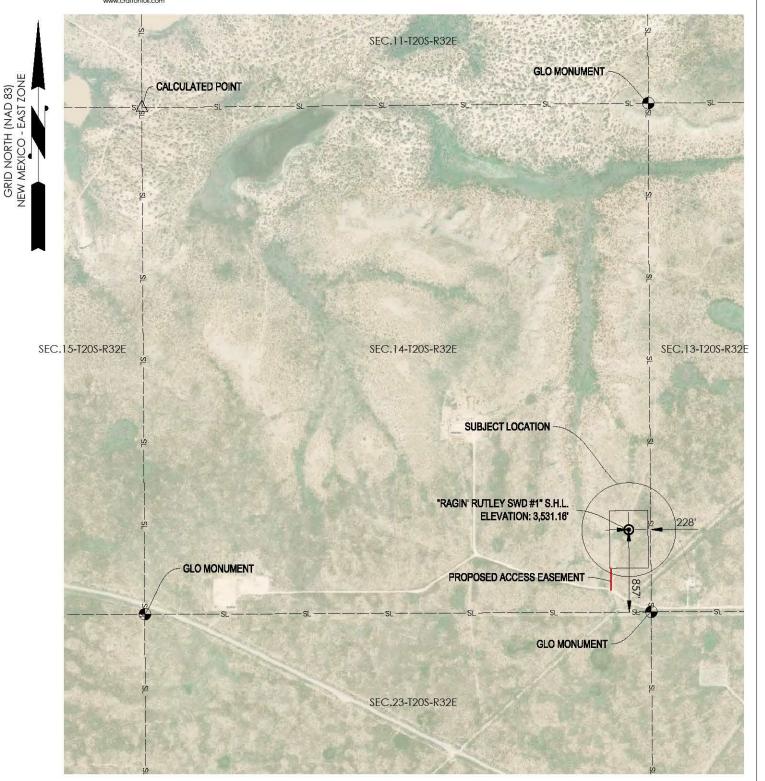
RAGIN' RUTLEY SWD OGRID No. SOLARIS WATER MIDSTREAM, LLC Surface Location	Vell Number Elevation
OGRID No. 371643 SOLARIS WATER MIDSTREAM, LLC Surface Location	l Elevation
371643 SOLARIS WATER MIDSTREAM, LLC ** Surface Location	Elevation
* Surface Location	
	3,531'
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line	County
16 14 20 S 32 E 857' SOUTH 228' EAST	LEA
" Bottom Hole Location If Different From Surface	
Ul. or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line	County
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.	

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.





WELL PAD LOCATION OVERVIEW



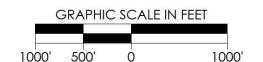
REFERENCE	ELEVATION	NAD	083 (1986)	NAD27			
	NAVD 88	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC		
S. H. L.	3,531.16	N: 570999.98 E: 727482.86	LAT: 32.56828178° LONG: -103.72908948°	N: 570937.81 E: 686302.41	LAT: 32.56816009° LONG: -103.72859362°		

CALLS FROM SECTION LINE

S.H.L. 857' FSL, 228' FEL (SEC.14)

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: ± 0.9 MILES NORTHEAST OF THE INTERSECTION OF HWY 243 & HWY 62 FROM THE INTERSECTION OF HWY 243 & HWY 62, HEAD NORTH ON HWY 243 FOR ± 0.7 MILES, TURN RIGHT ONTO A LEASE ROAD AND HEAD EAST FOR ± 0.5 MILES, TURN LEFT ONTO HYDRA LANE AND HEAD NORTH FOR ± 280 FEET, TURN RIGHT ONTO THE PROPOSED LEASE ROAD, HEAD NORTH FOR ± 230 FEET TO LOCATION.



3	REVISION		"RAC	SIN' RUTLEY S'	WD #1"		\ /	
S S		P	BUREA	AD AND ACCESS E AU OF LAND MAN, SEC.14-T20S-R32 A COUNTY, NEW M	AGEMENT PE	Y	SCWAT	OLARIS* TER MIDSTREAM
		SCALE: 1" = 1000' CHECKED BY: JWB APPROVED						J.PARKER
		PLOT DATE:	10-30-2019	DRAWN BY:	L.DOW	SHEET NO.:	1 OF	4



PROPOSED PAD (5.51 ACRES)

LEGEND SECTION LINE
PROPERTY LINE
EXISTING PIPELINE ROUTE
OVERHEAD ELECTRIC
FENCE
EDGE OF EXISTING ROAD
CL. OF PROPOSED ACCESS EASEMENT
EDGE OF PROPOSED ACCESS EASEMENT
EDGE OF PROPOSED PAD
POINT OF COMMENCEMENT
POINT OF TERMINATION
LINEAR FEET
POWER POLE
PROPOSED WELL LOCATION
EXISTING WELL LOCATION
FOUND MONUMENT (AS NOTED) -OHE-P.O.C. P.O.B. P.O.T. LF ©



BUREAU OF LAND MANAGEMENT SEC.14-T20S-R32E (240,000 SQ. FT. OR 5.51 ACRES) L3 "RAGIN' RUTLEY SWD #1" 200 S.H.L. 200' 200' L4 12 -400 PROPOSED ACCESS **EASEMENT (SEE PAGE 3)** L1 P.O.B. OF WELL PAD A GLO MONUMENT, AT THE SE CORNER OF S.14-T20S-R32E, BEING S 03°54'07" E - 458.70' FROM THE P.O.B.

LINE#	BEARING	DISTANCE			
L1	S 89°32'35" W	400'			
L2	N 00°27'25" W	600'			
L3	N 89°32'35" E	400'			
L4	S 00°27'25" E	600'			

SECTION 14 SE1/4 SE1/4 ±5.51 ACRES



GRAPHIC SCALE IN FEET

0

200'

200

100'

GENERAL NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.

2. BASIS OF BEARINGS: NEW MEXICO STATE PLANE GRID, EAST ZONE, NADBS AS DETERMINED BY GPS OBSERVATION.

3. VERTICAL DATUM IS NAVD 88

4. AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.

5. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

6. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACCEPACE FAVINN ARE BY DEFO AND I FASE CALL EXCEPT WHERE NOTED.

HOWN ARE BY DEED AND LEASE CALL EXCEPT WHERE NOTED.									
#2.5025000000000000000000000000000000000									

Z.	REVISION	"RAC	GIN' RUTLEY SWD #1"			\ . /	
		PROPOSED PA BUREA	W.C.	OLADIC*			
		LEA	WAT	JLAKIS TER MIDSTREAM			
			COOTINITY NEW MEXICO				
		SCALE: 1" = 200'	CHECKED BY:	JWB	APPROVED	BY:	J.PARKER

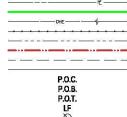


501.328.3316 † 501.328.3325 f www.craftontull.com



PROPOSED ACCESS EASEMENT (227.46 L.F. OR 13.79 RODS)

P.O.B.



SECTION LINE
PROPERTY LINE
EXISTING PIPELINE ROUTE
OVERHEAD ELECTRIC OVERHEAD ELECTRIC
FENCE
EDGE OF EXISTING ROAD
CL OF PROPOSED ACCESS EASEMENT
EDGE OF PROPOSED ACCESS EASEMENT
EDGE OF PROPOSED PAD
POINT OF COMMENCEMENT
POINT OF BEGINNING
POINT OF TERMINATION
LINEAR FEET
EDGWER POLE
PROPOSED WELL LOCATION
EXISTING WELL LOCATION
FOUND MONUMENT (AS NOTED)

LEGEND

BUREAU OF LAND MANAGEMENT SEC.14-T20S-R32E (227.46 L.F. OR 13.79 RODS)

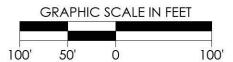
HYDRA LN P.O.T. A GLO MONUMENT, AT THE S1/4 CORNER OF S.14-T20S-R32E, BEING S 83°46'11" W - 2,230.62' FROM THE P.O.T.

> PROPOSED ACCESS EASEMENT LINE # BEARING DISTANCE S 00°27'25" E 227.46

P.O.C. A GLO MONUMENT, AT THE SE CORNER OF S.14-T20S-R32E, BEING S 42°49'15" E - 619.68' FROM THE P.O.B.

SITE COORDINATES

REFERENCE	ELEVATION	NAC	083 (1986)	N	AD27	
	NAVD 88	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC	STATE PLANE NEW MEXICO EAST	GEOGRAPHIC	
P.O.B.	3,532.95'	N: 570598.48 E: 727296.06	LAT: 32.56718112° LONG: -103.72970322°	N: 570536.32 E: 686115.59	LAT: 32.56705943° LONG: -103.72920738°	_
P.O.T.	3,533.71'	N: 570371.03 E: 7727297.87	LAT: 32.56655592° LONG: -103.72970152°	N: 570308.87 E: 686117.40	LAT: 32.56643422° LONG: -103.72920570°	
00' 50'	0	100'	<u>SECTION 14</u> SE1/4 SE1/4 277.	46 L.F. OR 13.79 RODS	1 8 1	M E 3 23783 O



GENERAL NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES STRUCTURES MAY BE ENCOUNTED NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THIS AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.

2. BASIS OF BEARINGS : NEW MEXICO STATE PLANE GRID, EAST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.

3. VERTICAL DATUM IS NAVD 88

4. AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.

5. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

6. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGE SHOWN ARE BY DEED AND LEASE CALL EXCEPT WHERE NOTED.

3	REVISION		\ .	,			
		BURE	AD AND ACCESS EASEMEN AU OF LAND MANAGEMEN SEC.14-T20S-R32E A COUNTY, NEW MEXICO		Y	S	OLARIS* LTER MIDSTREAM
3		SCALE: 1" = 100' PLOT DATE: 10-30-2019	BY: 3 OF	J.PARKER 4			

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LEGAL DESCRIPTIONS

"RAGIN' RUTLEY SWD #1 PROPOSED WELL PAD":

A METES AND BOUNDS DESCRIPTION OF A PROPOSED WELL PAD BEING OUT OF SECTION 14, TOWNSHIP 20 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A GLO MONUMENT, AT THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE N 03°54'07' W A DISTANCE OF 458.70 FEET TO THE POINT OF BEGINNING;

THENCE S 89°32'35" W A DISTANCE OF 400 FEET TO A POINT;

THENCE N 00°27'25" W A DISTANCE OF 600 FEET TO A POINT;

THENCE N 89°32'35" E A DISTANCE OF 400 FEET TO A POINT;

THENCE S 00°27'25" E A DISTANCE OF 600 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED WELL PAD HAS A TOTAL OF 240,000 SQUARE FEET OR 5.51 ACRES, MORE OR LESS.

"RAGIN' RUTLEY SWD #1 PROPOSED ACCESS EASEMENT":

A CENTERLINE DESCRIPTION OF A PROPOSED ACCESS EASEMENT IN, OVER, ACROSS, AND THROUGH SECTION 14, TOWNSHIP 20 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

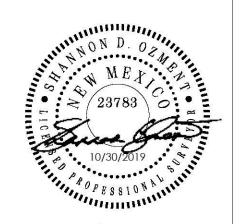
COMMENCING AT A GLO MONUMENT, AT THE SOUTHEAST CORNER OF SAID SECTION 14; THENCE N 42°49'15" W A DISTANCE OF 619.68 FEET TO THE POINT OF BEGINNING OF THE FOLLOWING DESCRIBED CENTERLINE;

THENCE \$ 00°27'25" E A DISTANCE OF 227.46 FEET THE POINT OF TERMINATION, SAID POINT BEING N 83°46'11" E A DISTANCE OF 2,230.62 FEET FROM A GLO MONUMENT, AT THE SOUTH QUARTER CORNER OF SAID SECTION 14.

THE ABOVE DESCRIBED CENTERLINE HAS A TOTAL LENGTH OF 227.46 FEET OR 13.79 RODS, MORE OR LESS.

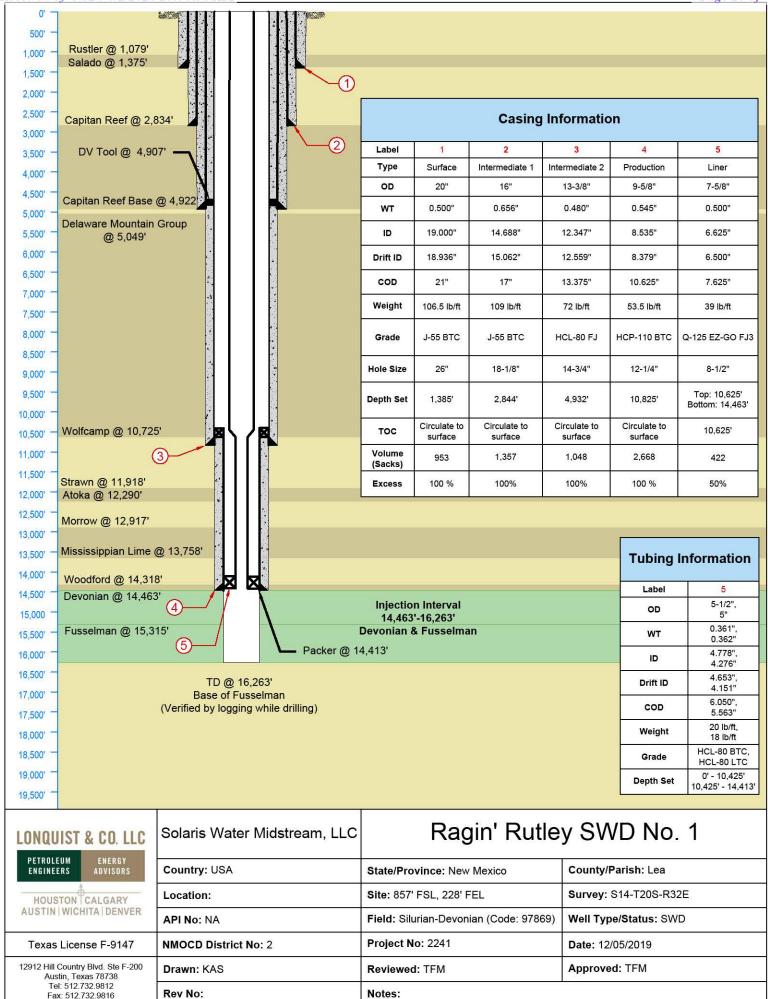
BASIS OF BEARINGS: NEW MEXICO STATE PLANE GRID, EAST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.

ALL DISTANCES ARE GRID DISTANCES BASED ON U.S. SURVEY FEET
THIS LEGAL DESCRIPTION ACCOMPANIES A SKETCH PREPARED FOR THIS TRACT OF LAND.



5	REVISION		"RAC	GIN' RUTLEY SV	WD #1"		\ /	
		- PF		AD AND ACCESS E AU OF LAND MANA SEC.14-T20S-R32	AGEMENT	Y	SC	OLARIS*
<u> </u>			LEA	A COUNTY, NEW M	TO CONTRACT OF THE PARTY OF THE) wa	ER WIDSTREAM
				CHECKED BY:	JWB	APPROVED	BY:	J.PARKER
		PLOT DATE:	10-30-2019	DRAWN BY:	L.DOW	SHEET NO.:	4 OF	4

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SOLARIS WATER MIDSTREAM, LLC

Ragin Rutley SWD No. 1 Section 14-T20S-R32E 857' FSL & 228' FEL Lea County, New Mexico GEOLOGICAL PROGNOSIS 12/2/2019

GL: 3,531'

KB: 3,551' (Depth Reference)

Proposed Injection Interval: 14,463' - 16,263'

Tops	Depths (est.)	Subsea (est.)
Rustler	1,079'	+2,472'
Salado	1,375′	+2,176'
Capitan Reef Top	2,834'	+717'
Capitan Reef Base	4,922'	-1,371'
Bell Canyon	5,049'	-1,498'
Cherry Canyon	5,745'	-2,194'
Brushy Canyon	7,080'	-3,529'
Bone Spring	7,809'	-4,258'
Wolfcamp	10,725'	-7,154'
Strawn	11,918'	-8,367'
Atoka	12,290'	-8,739'
Morrow	12,917'	-9,366'
Mississippian Lime	13,758'	-10,207'
Woodford	14,318′	-10,767'
Devonian	14,463'	-10,912'
Fusselman	15,315'	-11,764'

LONGUIST & CO. LLC

PETROLEUM ENGINEERS

ADVISORS

AUSTIN - HOUSTON - WICHITA - DENVER - CALGARY

INJECTION INTERVAL CONFINING LAYERS - RAGIN RUTLEY SWD NO. 1

The Devonian-Silurian injection interval for the proposed Ragin Rutley SWD No. 1 is contained by upper and lower confining layers. The upper confining layer is the Woodford Shale, which is approximately 145 feet thick on top of the Devonian Formation. The lower confining layer is the Sylvan Shale equivalent, which serves as a boundary between the Montoya and Fusselman. This shale layer provides a basal region for the injection interval of the Devonian and Fusselman formations. The low permeability nature of both the Woodford and Sylvan Shale equivalent would provide the Devonian and Fusselman formations appropriate confinement for saltwater disposal during the life of the well.

Emily Olson

Geologist

Lonquist & Co., LLC

December 9, 2019

Project:

Solaris Water Midstream

Ragin Rutley SWD No. 1

LONQUIST & CO. LLC

PETROLEUM ENGINEERS

ENERGY **ADVISORS**

AUSTIN - HOUSTON - WICHITA - DENVER - CALGARY

GEOLOGIC AFFIRMATION

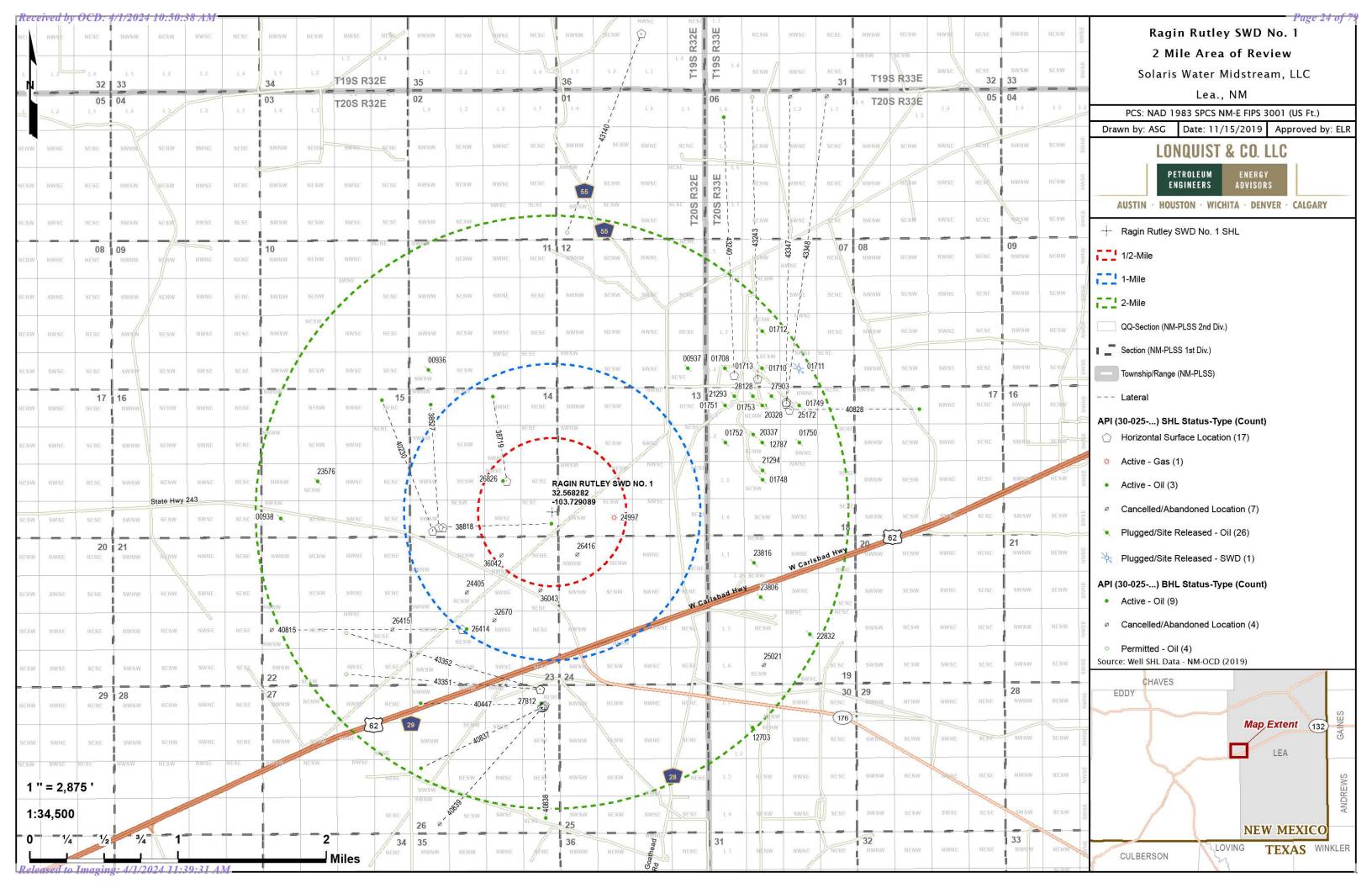
I have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and underground sources of drinking water.

Emily Olson Geologist

Project:

Solaris Water Midstream, LLC

Ragin Rutley SWD No. 1

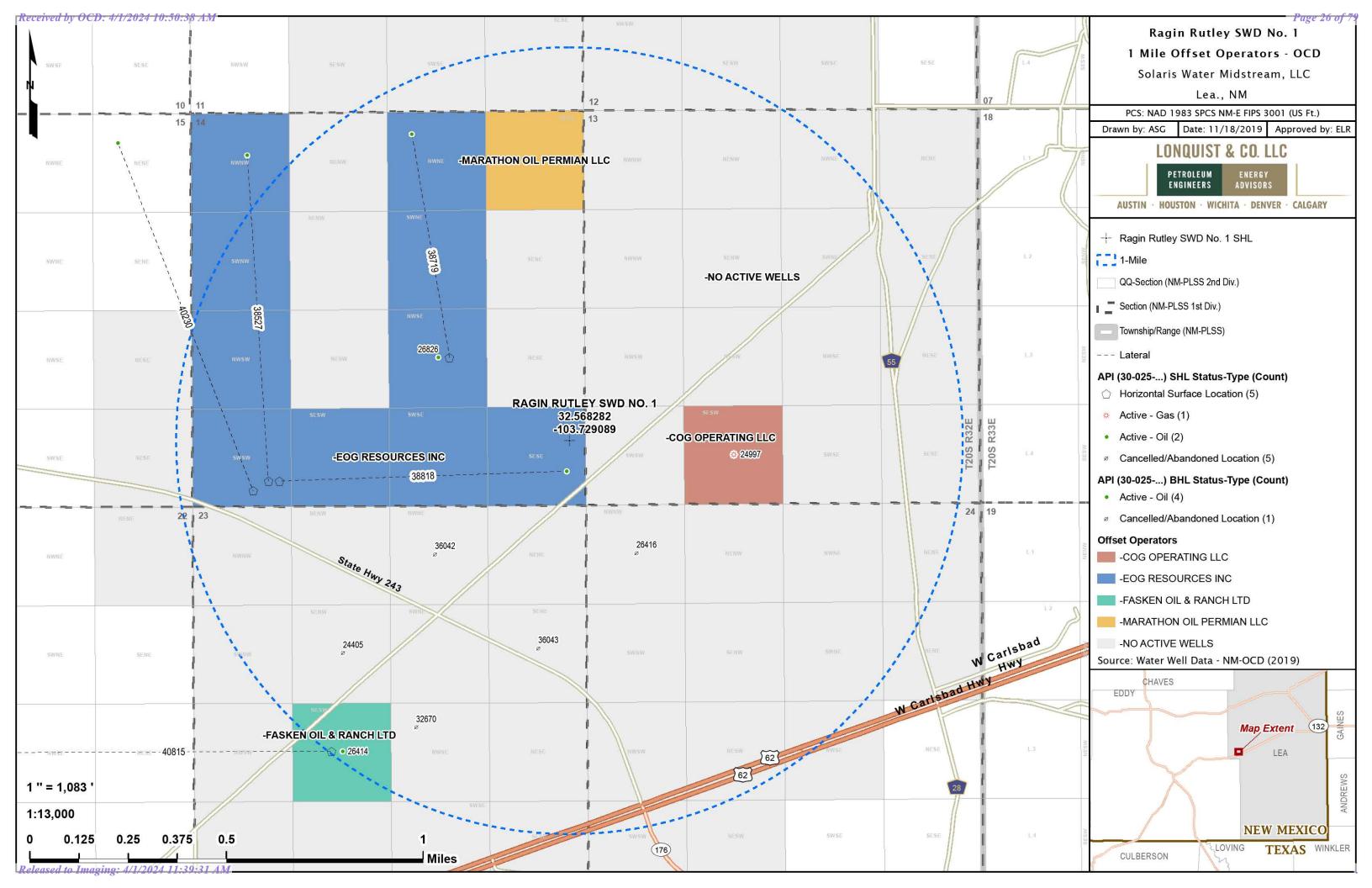


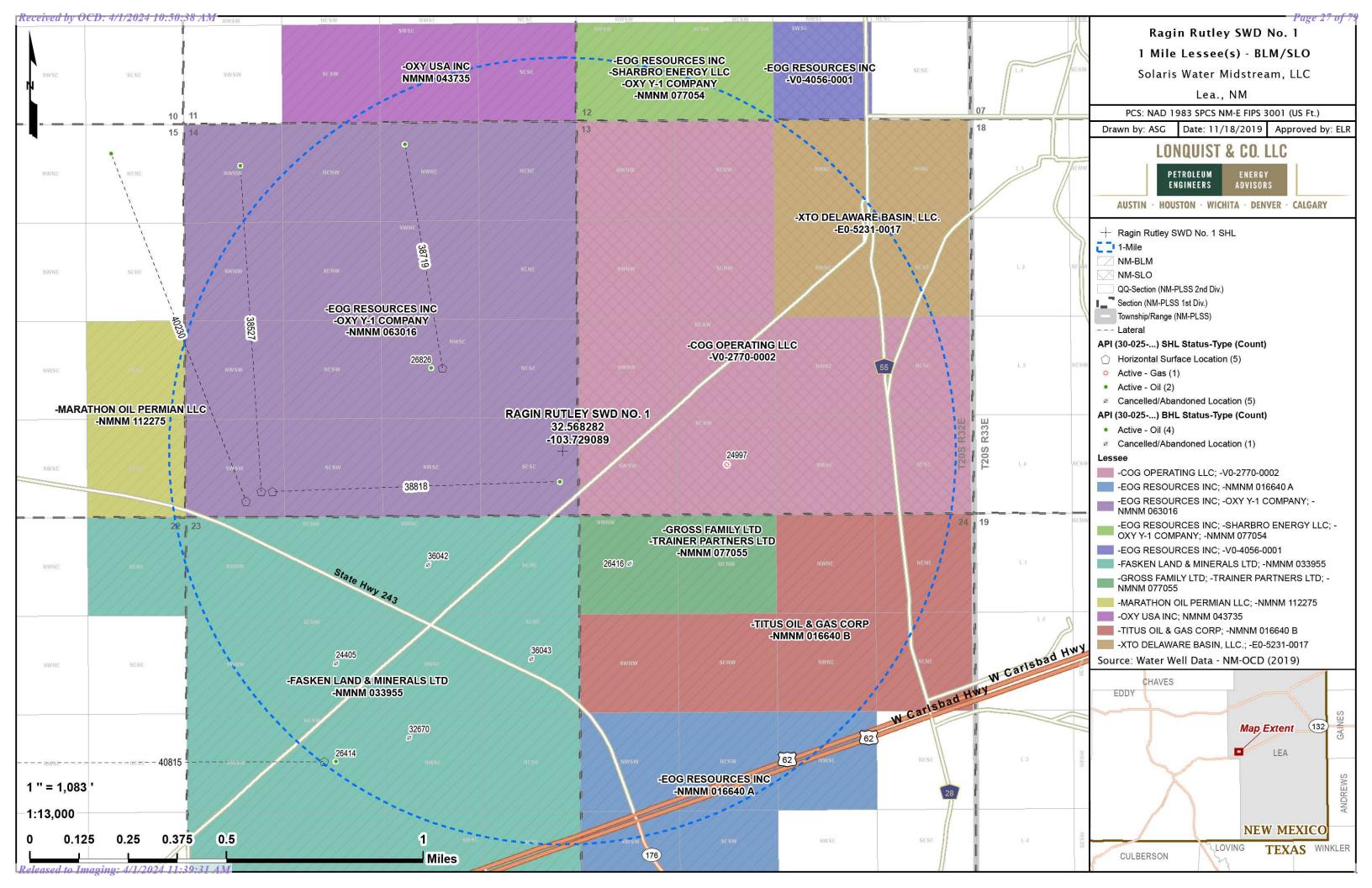
Received by OCD: 4/1/2024 10:50:38 AM

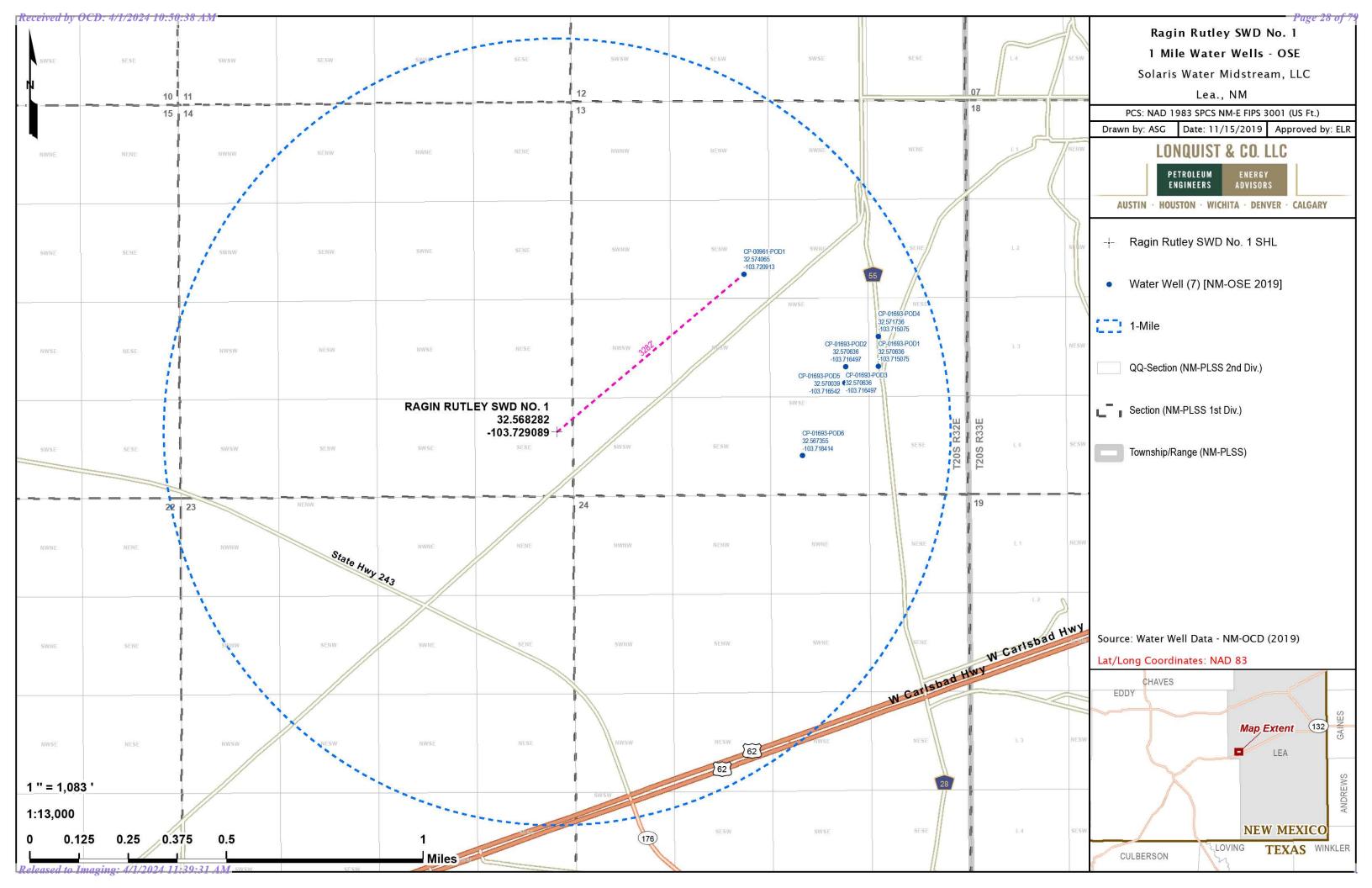
Ragin Rutley SWD No. 1

1 Mile Area of Review List

API (30-025)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	SPUD DATE	FIELD
24405	PRE-ONGARD WELL #001	0	C	PRE-ONGARD WELL OPERATOR	0	32.5604924446	-103.739016415	920	2
24997	HANSON STATE #001	G	А	COG OPERATING LLC	13363	32.5677414000	-103.721931500	8/10/1975	[53560] SALT LAKE, BONE SPRING; [96041] WILDCAT, GROUP 10; [96049] WC, ATOKA DO NOT USE; [96070] WC, MORROW (GAS); [96344] SALT LAKE, ATOKA (GAS); [96345] SALT LAKE, MORROW (GAS)
26414	BAETZ 23 FEDERAL #001	0	Α	FASKEN OIL & RANCH LTD	13640	32.5568771000	-103.739051800	8/25/1975	[53560] SALT LAKE, BONE SPRING
26416	PRE-ONGARD WELL #001	0	С	PRE-ONGARD WELL OPERATOR	0	32.5641141820	-103.726202357	13	<u> </u>
26826	BELCO AIA FEDERAL #001	0	Α	EOG RESOURCES INC	13250	32.5713806000	-103.734787000	2/15/1991	[53565] SALT LAKE, DELAWARE
32670	BAETZ 23 #002	0	C	BARBARA FASKEN	0	32.5577398901	-103.735845650	2.00	
36042	BAETZ 23 FEDERAL #003C	0	С	FASKEN OIL & RANCH LTD	0	32.5641164586	-103.734975129	- I	<u>z</u>
36043	BAETZ 23 FEDERAL #009	0	C	FASKEN OIL & RANCH LTD	0	32.5606242796	-103.730501700	25	
38527	BELCO AIA FEDERAL #002H	0	А	EOG RESOURCES INC	5057	32.56685260000	-103.74221800000	12/5/2006	[53565] SALT LAKE, DELAWARE
38719	BELCO AIA FEDERAL #003H	0	А	EOG RESOURCES INC	4855	32.5713806000	-103.734298700	2/19/2008	[53565] SALT LAKE, DELAWARE
38818	BELCO AIA FEDERAL #004H	0	Α	EOG RESOURCES INC	5083	32.56685260000	-103.74173740000	4/3/2008	[53565] SALT LAKE, DELAWARE
40230	QUEENIE 15 FEDERAL #001H	0	Α	MARATHON OIL PERMIAN LLC	5032	32.5664978000	-103.742889400	10/4/2011	[53565] SALT LAKE, DELAWARE
40815	RAFTZ 23 FEDERAL #002C	0	C	EASKEN OIL & RANCH LTD	0	32 5568771000	-103 739540100	_	[53560] SALT LAKE BONE SPRING









get image list

WR File Number: CP 00961 Subbasin: CP Cross Reference:

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: GLOBAL NUCLEAR ENERGY PTP

Documents on File

tatus From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

9 <u>get</u> 601878 EXPL 2007-03-07 PMT APR CP 00961 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>CP 00961 POD1</u> 4 4 1 13 20S 32E 620062 3604791*

An () after northing value indicates UTM location was derived from PLSS - see Help

Source

Acres Diversion CU Use Priority Source Description

0 MON GW

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.

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Total Acres: 0 Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: GLOBAL NUCLEAR ENERGY PTP

Documents on File

tatus From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

9et 601878 EXPL 2007-03-07 PMT APR CP 00961 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>CP 00961 POD1</u> 4 4 1 13 20S 32E 620062 3604791*

An () after northing value indicates UTM location was derived from PLSS - see Help

Source

Acres Diversion CU Use Priority Source Description

0 0 MON GW

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WR File Number: CP 01693 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GEOMECHANICS SOUTHWEST INC

Contact: BRANDEN SANDERS

Documents on File

Current Points of Diversion

			Q					(1	NAD83 UTM	in meters)	
POD Number	Well Tag Source	•	64	Q16	6Q4	Sec	Tws I	Rng	X	Y	Other Location Desc
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349 🌍	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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WR File Number: CP 01693 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GEOMECHANICS SOUTHWEST INC

Contact: BRANDEN SANDERS

Documents on File

Current Points of Diversion

			Q					in meters)			
POD Number	Well Tag	Source	64	Q16	6Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B 106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539) B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B 108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B 109

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WR File Number: CP 01693 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GEOMECHANICS SOUTHWEST INC

Contact: BRANDEN SANDERS

Documents on File

Current Points of Diversion

			Q					in meters)			
POD Number	Well Tag	Source	64	Q16	6Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B 106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539) B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B 108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B 109

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WR File Number: CP 01693 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GEOMECHANICS SOUTHWEST INC

Contact: BRANDEN SANDERS

Documents on File

Current Points of Diversion

			Q					in meters)			
POD Number	Well Tag	Source	64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
CP 01693 POD6	NA		3	3	4	13	20S	32E	620306	3604049	B109

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12/5/19 7:14 AM WATER RIGHT SUMMARY





WR File Number: CP 01693 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GEOMECHANICS SOUTHWEST INC

Contact: BRANDEN SANDERS

Documents on File

Current Points of Diversion

			Q					in meters)			
POD Number	Well Tag So	urce	640	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01693 POD1	NA		3	2	4	13	20S	32E	620615	3604417	B101
CP 01693 POD2	NA		4	1	4	13	20S	32E	620481	3604415 🦣	B105
CP 01693 POD3	NA		2	1	4	13	20S	32E	620481	3604415	B106
CP 01693 POD4	NA		1	2	4	13	20S	32E	620613	3604539	B107
CP 01693 POD5	NA		4	1	4	13	20S	32E	620478	3604349	B108
<u>CP 01693 POD6</u>	NA		3	3	4	13	20S	32E	620306	3604049	B109

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, or suitability for any particular purpose of the data.

12/5/19 7:14 AM WATER RIGHT SUMMARY

							Ragin' Rutley SW	/D No	. 1 - Offse	t Produced W	ater Analysis							
Wellname	API	Section	Township	Range	Unit	County	Formation	ph	tds_mgL	sodium_mgL	calcium_mgL	iron_mgL	magnesium_mgL	manganese_mgL	chloride_mgL	bicarbonate_mgL	sulfate_mgL	co2_mgL
LEA 886 STATE #002	300250174	4 1	6 20S	33E	В	LEA	ARTESIA	6.34		Э			-		82525	785	1427	
LEA 886 STATE #002	300250174		.6 20S	33E	В	LEA	ARTESIA	6.34		1					82536	851	1427	
ATLANTIC STATE #001	300250174		6 20S	33E	С	LEA	ARTESIA	_	13495	5					7002	1024	609	
LITTLE EDDY UNIT #016	300252194		.6 20S	32E	F	LEA	ARTESIA		30600						15090	608	3947	l
WEST TEAS YATES SEVEN RIVERS UNIT #433	300253203		4 20S	33E	J	LEA	ARTESIA	7.9		5960.49	455.85	7.5975	249.198	V:	9682.25	580.449	1093.03	<u> </u>
PLAINS #006	300252076		1 198	32E	Е	LEA	ARTESIA	┡	135266	5					84150	144	290	
PLAINS #006	300252076		1 198	32E	E:	LEA	ARTESIA	-	137149						84930	290	521	
PLAINS #006	300252076		1 198	32E	E	LEA	ARTESIA	-	163755				-		101000	195	300	-
BONDURANT FEDERAL #001	300250089		3 195	32E		LEA	ARTESIA	-	239594	1				V	145300	271	820	-
BOWMAN FEDERAL #001 MAGNOLIA STATE #001	300250092 300250170		8 19S 2 19S	32E 33E	D	LEA LEA	ARTESIA ARTESIA	-	15821 8771				3	26	7812 4301	1502 1538	655 180	
NELLIS FEDERAL #003	300250170	1 3	6 195	33E	В	LEA	ARTESIA	6.8		I				*	42600	1538	365	
BATE FEDERAL #003	300252259	7 2	5 195	33E	F:	LEA	ARTESIA	7.8	117622				-		66700	506	5800	h
MAHAFFEY ARC FEDERAL #001	300252239		4 20S	33E	C	LEA	BONE SPRING	7.03	28079	2		-	7	V _c	14810	791	1885	
MAHAFFEY ARC FEDERAL #001	300250173		4 20S	33E	C	LEA	BONE SPRING	7.03	28696	5				8	15136	808	1926	
LUSK 16 STATE #002	300250173	_	6 195	32F	K	LEA	BONE SPRING	7.03	148331	1			*	*	91520	188	506	r
JENNINGS FEDERAL #001	300252483		5 198	32E	E	LEA	BONE SPRING	5.8	164916	5	-	-			101031	452	1308	r
NELLIS A FEDERAL #004	300252591	2	8 195	33E	E	LEA	BONE SPRING	6.9	48582	1			1		28900	763	160	
MALACHITE 22 FEDERAL #001H	300254031	8 2	2 195	33E	D	Lea	BONE SPRING 1ST SAND	6.4		73407	1293	33	265	0.20		780	480	25
MALACHITE 22 FEDERAL #001H	300254031		2 195	33E	D	Lea	BONE SPRING 1ST SAND	6.3		79136	1414			0.0		1281	300	33
MALACHITE 22 FEDERAL #002H	300254031		2 195	33E	c	Lea	BONE SPRING 1ST SAND	6.65			4261	16.3	1102	0.0		122	1085	12
MALACHITE 22 FEDERAL #002H	300254031		2 195	33E	D	Lea	BONE SPRING 1ST SAND	7		57364.9	1261	3.5	277	0.3		732	593	25
TAYLOR DRAW 7 FEDERAL #001H	300254114		7 198	32E	Ĭ.	Lea	BONE SPRING 2ND SAND	5.9	100/03.1	86621	9467	153		1.5		207	840	42
TAYLOR DRAW 7 FEDERAL #001H	300254114		7 195	32E	fi -	Lea	BONE SPRING 2ND SAND	6.6	184810		10172.4			2.1		122	0.40	3
HAWKEYE 7 FEDERAL #001	300250089		7 19S	32E	м	Lea	BONE SPRING 2ND SAND	6.86			1168			0.2		366	560	20
LUSK AHB FEDERAL #006	300250085		5 198	32E	A	LEA	DELAWARE	8.04			100			0.2.	11997	635	0	
LUSK AHB FEDERAL #002	300253104		5 195	32E	G	LEA	DELAWARE	6.05			22044			A ¹	136969	122	450	
LUSK AHB FEDERAL #005	300253115		5 198	32F	B	LEA	DELAWARE	6.86		8	12024	28			104976	146	1800	r
LUSK AHB FEDERAL #006	3002531314		5 198	32F	A	LEA	DELAWARE	6.86			4509	8	1520		74983	220	2900	
LUSK AHB FEDERAL #006	3002531314		5 198	32F	A	LEA	DELAWARE	7.1		5	3507	8	912	2	69984	303	7400	
LUSK AHB FEDERAL #006	3002531314		5 195	32E	A	LEA	DELAWARE	6.65	124441	i	2116		1284		69984	400	6750	
LUSK AHB FEDERAL #002	300253104		5 198	32E	G	LEA	DELAWARE	6.25	248495	5	29659	15	3890	7	154965	98	500	ľ
LUSK AHB FEDERAL #005	300253115		5 198	32E	В	LEA	DELAWARE	7.31	187800		14028	0	2188		114974	156	1400	
LUSK AHB FEDERAL #006	3002531314		5 198	32E	Α	LEA	DELAWARE	7.65		9	3006	0	1580		69984	400	5000	1
LUSK AHB FEDERAL #006	3002531314		5 198	32E	Α	LEA	DELAWARE	6.65		0	4409	15	1580	A ^c	74983	273	3500	
LUSK AHB FEDERAL #002	300253104	2 3	5 198	32E	G	LEA	DELAWARE	6.21	253165	5	27054	9	9603		160964	103	150	
LUSK AHB FEDERAL #005	300253115	1 3	5 198	32E	В	LEA	DELAWARE	6.87	193757	7	18236	8	6564		121973	137	700	
POLEWSKI FEDERAL #001	300252016	1 3	1 198	32E	D	LEA	DELAWARE		25908	3					12546	457	3662	1
POLEWSKI FEDERAL #001	300252016	1 3	1 198	32E	D	LEA	DELAWARE		29793	3					17950	390	454	142
POLEWSKI FEDERAL #001	300252016	1 3	1 198	32E	D	LEA	DELAWARE		26318	3								
POLEWSKI FEDERAL #001	300252016	1 3	1 198	32E	D	LEA	DELAWARE		61165	5]	Q.	36500	380	1230	
LUSK AHB FEDERAL #005	300253115	1 3	5 198	32E	В	LEA	DELAWARE	6.83			13267	0	2086		114974	171	950	
LUSK AHB FEDERAL #006	3002531314	4 3	5 198	32E	Α	LEA	DELAWARE	7.23			1769	0	715	34	59986	415	5000	
LUSK AHB FEDERAL #002	300253104	2 3	5 198	32E	G	LEA	DELAWARE	5.35			20.1		12.2		35.5	61.1	48.8	
PLAINS UNIT FEDERAL #007	300252077	3	3 198	32E	D	LEA	DELAWARE		250653	3				Va	159500	488	425	
PLAINS FEDERAL UNIT #009	300252312		3 195	32E	F	LEA	DELAWARE		257806	5					162000	0	120	
USA LITTLE EDDY UNIT #001	300250096		5 20S	32E	P	LEA	MORROW		28815	5					16160	593	1176	
USA LITTLE EDDY UNIT #001	300250096		5 20S	32E	P	LEA	MORROW		28550	D					14320	818	1280	
LITTLE EDDY UNIT #003	300250177		1 20S	33E	0	LEA	MORROW		195142					V ₁	120000	142	1350	
LITTLE EDDY UNIT #003	300250177		1 20S	33E	0	LEA	MORROW	_	59475	5					34730	380	1560	
LUSK AHB FEDERAL #001	300253080		5 198	32E	В	LEA	MORROW	6.8	128189	9	2505	93			74983	195	3900	4
LUSK AHB FEDERAL #001	300253080		5 198	32E	В	LEA	MORROW	6.2			6878				91979	303	6100	1
LUSK AHB FEDERAL #001	300253080		5 198	32E	В	LEA	MORROW	6.96		7	9018			V-	96978	225	4250	
LUSK AHB FEDERAL #001	300253080		5 198	32E	В	LEA	MORROW	6.59			4717		1311		86980	244	2350	4
LUSK AHB FEDERAL #001	300253080		5 198	32E	В	LEA	MORROW	6.77			3931				74983	259	2800	4
INEXCO AHY FEDERAL #001	300252547		7 198	33E	Н	LEA	PENNSYLVANIAN	6.5			5600	50	975.3		37062	610	12.5	h
BUFFALO FEDERAL UNIT #004	300250166		4 19S	33E	H	LEA	PENNSYLVANIAN	-	163468				-	Ve	99880	415	848	-
BUFFALO FEDERAL UNIT #004	300250166	1	4 198	33E	H	LEA	PENNSYLVANIAN	-	17108					N.	9398	610	991	-
BUFFALO FEDERAL UNIT #004	300250166	1	4 195	33E	Н	LEA	PENNSYLVANIAN	_	21444	1					11400	881	1537	<u> </u>
BUFFALO FEDERAL UNIT #004	300250166	1	4 198	33E	Н	LEA	PENNSYLVANIAN	-	154414	1				*	94260	377	688	h
NELLIS FEDERAL #001	300250166	3	5 198	33E	0	LEA	PENNSYLVANIAN	-	38798	1			-	4	23050	366	360	<u> </u>
NELLIS FEDERAL #001	300250166	3	5 198	33E	0	LEA	PENNSYLVANIAN	_	67912					N.	40630	398	934	I
NELLIS FEDERAL #001	300250166		5 195	33E	0	LEA	PENNSYLVANIAN	_	24440						13420	825	990	<u> </u>
FEDERAL AC #002	300250167		8 198	33E	E	LEA	PENNSYLVANIAN	-	46219						26980	734	850	-
FEDERAL AC #002	300250167		8 198	33E	E	LEA	PENNSYLVANIAN	-	1305					V-	140	232	510	<u> </u>
ELLIOTT HALL A #001	300252010-		0 198	32E	Α	LEA	STRAWN	⊢	38680						22980	620	310	
MIDDELTON A FEDERAL #001	300250810		8 195	32E	Н	LEA	STRAWN	_	147995	5					93600	300	140	
MIDDELTON A FEDERAL #001	300250810		8 198	32E	Н	LEA	STRAWN	-	136947	/								
MIDDELTON A FEDERAL #001	300250810		8 198	32E	Н	LEA	STRAWN	-	146300				-	8	92500	320	140	
LAGUNA PLATA FEDERAL #001	300250167	В 2	2 198	33E	H	LEA	WOLFCAMP		46915	5	l	I			27270	714	1116	1

Seismicity and Faults in the Vicinity of the Proposed Solaris Water Midstream, LLC Ragin Rutley SWD No. 1 Devonian Disposal wells in Lea County, New Mexico

The proposed well is located in Lea County, New Mexico. The proposed Ragin Rutley SWD No.1 well is located in Township 20 South, Range 32 East, Section 14; thirty miles east of Carlsbad. The proposed well is located near the Northwest Shelf of the Delaware Basin.

Seismicity:

Historically, the area near the proposed Devonian disposal wells has not seen any major seismic activity. A search of the USGS Earthquake Hazards Program Earthquake Catalog revealed the nearest event to be located 22 miles south of the proposed location, where a magnitude 3.1 earthquake was recorded on March 18, 2012 at a depth of 5 kilometers. Review of the USGS Earthquake Hazard map indicates a very low risk of seismic activity. The USGS surface geologic map of the area shows no Quaternary-aged faulting, also indicating no recent tectonic activity. In addition to a search of the USGS Earthquake Hazards Program Earthquake Catalog, a seismic event research was conducted on the Bureau of Economic Geology's Seismic Monitoring Program, TexNet. TexNet's seismic history dates from January 1, 2017 to present date. A 15-kilometer radius of investigation detected no seismic events during this time period.

Faulting:

The USGS surface geologic map, a USGS published Devonian structure map, and subscription Geomap regional subsurface structure maps at the Yates, Strawn Lime and Devonian levels were reviewed for faults. The nearest faults mapped at the Devonian level were 10.0 and 17.12 miles northwest and southeast of the proposed locations.

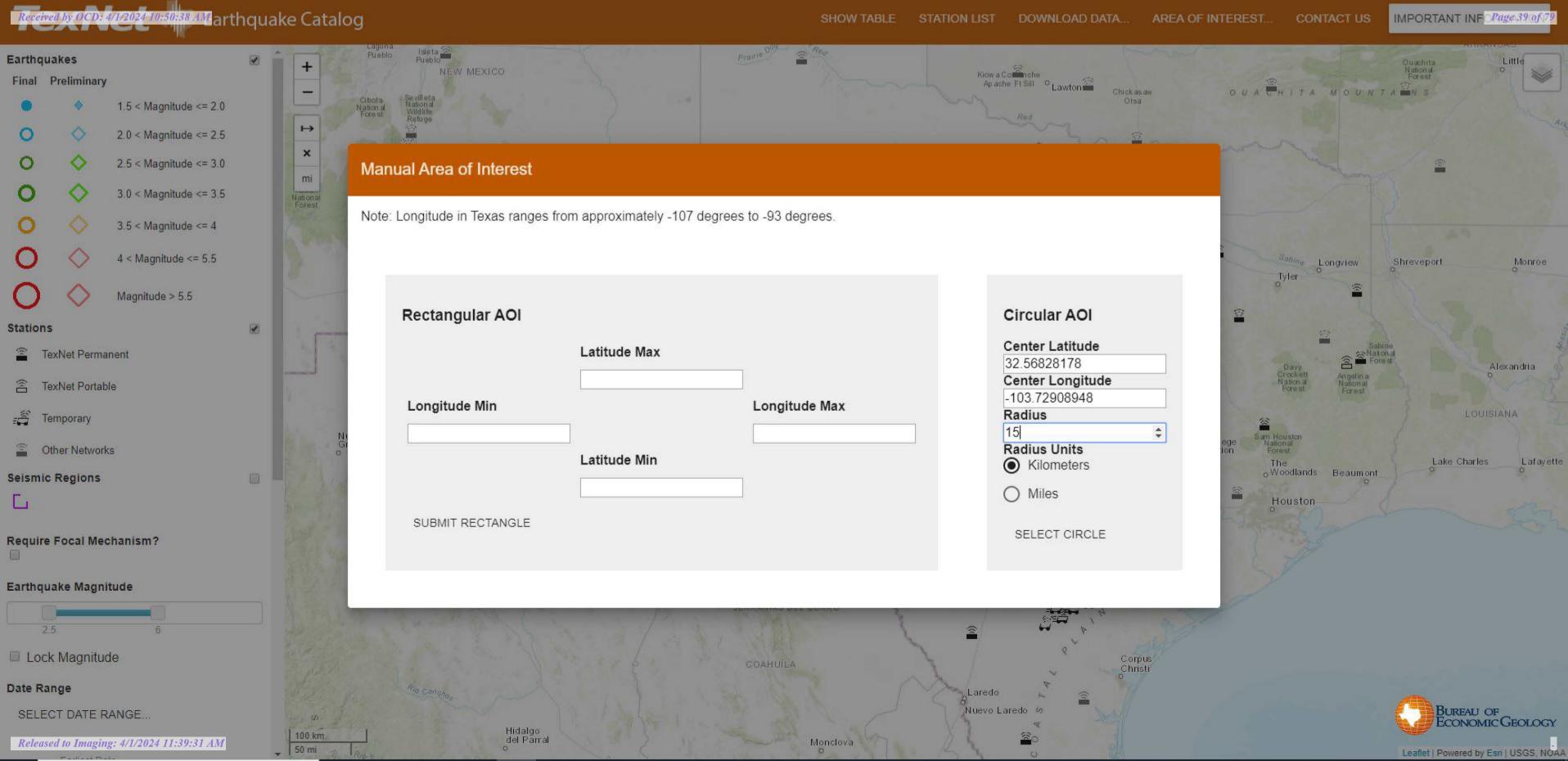
The Snee and Zoback paper "State of Stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity" was also reviewed to evaluate the presence of faults and fault slip potential risk. These regional maps show no faulting in the area of the proposed wells. Faulting in the New Mexico portion of the Delaware Basin generally shows less than a 10% probability of fault slip movement.

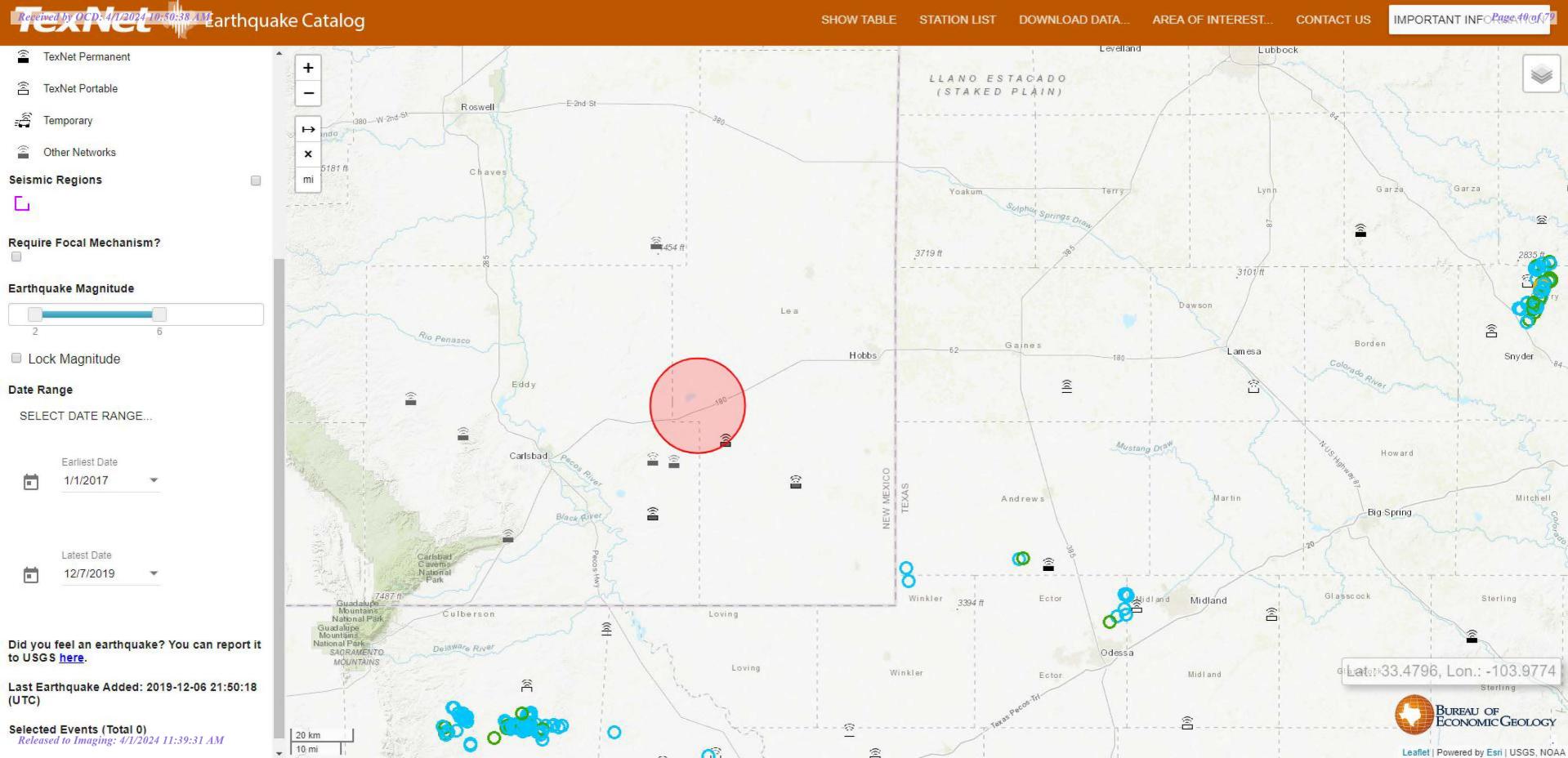
The distance from the proposed wells to the closest mapped faults yields an extremely low probability that the faults will become critically stressed by injection into the referenced wells.

Tyler F. Moehlman

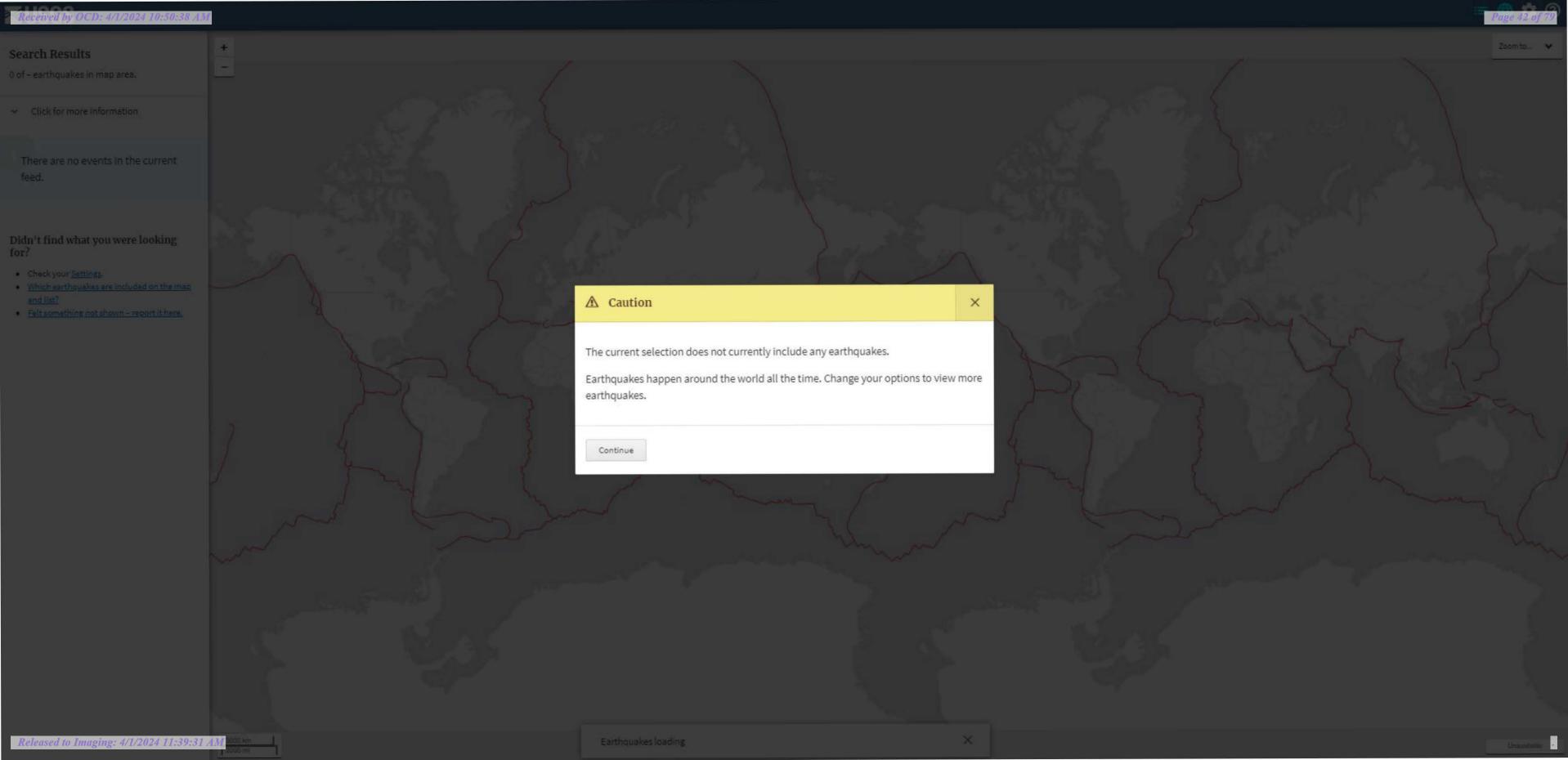
Tyll

Petroleum Engineer, Lonquist & Co. LLC





Magnitude Received by OCD: 4/1/2024 10:50:38 AM		Date & Time		Geographic Re	g <mark>ion</mark>	Page 41 of 79
O 2.5+		Past 7 Days		○ World		
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Minimum		Start (UTC)		Custom Circle		
2		1900-01-01 00:00:00		 32.56828178 Latitu -103.72908948 Lon 		
Maximum		End (UTC)		15 Radius (km)		
		2019-12-07 23:59:59			Draw Rectangle on Map	
- Advanced Options Geographic Region			Depth (km)			
Geographic Region Decimal degree coordinates. North must be greater than South. East must be	pe greater than West.					
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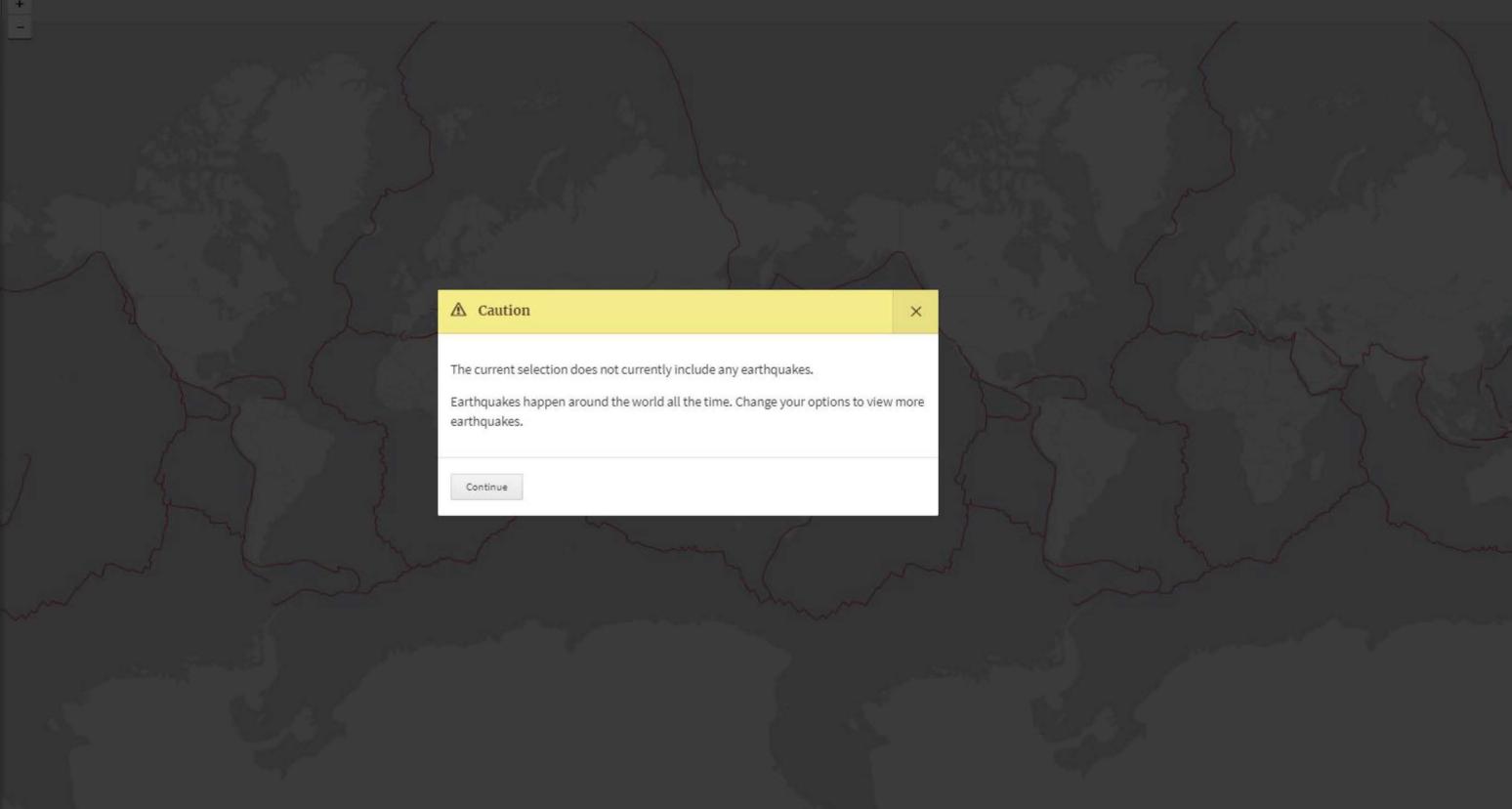


Magnitude Received by OCD: 4/1/2024 10:50:38 AM		Date & Time		Geographic Regio	n	Page 43 of 79
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	South					
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² Released to Imaging: 4/1/2024 11:39:31 AM						•

Didn't find what you were looking

- Check your Settings.
- Which earthouskes are included on the map and list?

 Felt something not shown - report it here.



Magnitude Received by OCD: 4/1/2024 10:50:38 AM		Date & Time		Geograph	i <mark>c Region</mark>	Page 45 of 79
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Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I. Daniel Russell, Publisher 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 04, 2019 and ending with the issue dated December 04, 2019.

Sworn and subscribed to before me this 4th day of December 2019.

e Black **Business Manager**

My commission expires an entering

January 29, 2023



OFFICIAL SEAL **GUSSIE BLACK** Notary Public State of New Mexico My Commission Expires/-29-2

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

LEGALS

LEGAL NOTICE **DECEMBER 4, 2019**

Solaris Water Midstream, LLC, 907 Tradewinds Blvd., Suite B, Midland, TX 79706, is filling Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for administrative approval for its salt water disposal well, Ragin Rutley SWD No. 1. The proposed well will be located 857 FSL & 228' FEL in Section 14, Township 20S, Range 32E in Lea Range 32E in Lea County, New Mexico. Disposal water will be sourced from area production, and will be injected into the Devonian-Siturian Devonian-Siturian formation (determined by offset log analysts) through an open hole completion between a maximum applied for top of 14,463 feet to a maximum depth" of 16,263 feet. The maximum surface injection pressure will not injection pressure will not exceed 2,893 psi with a maximum rate of 40,000 BWPD. Interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis
Drive, Santa Fe, New
Mexico 87505, within 15
days. Additional
information can be
obtained from the
applicant's agent, applicant's agent, Lonquist & Co., LLC, at (512) 600-1777

67112661

00236790

LONQUIST & CO., LLC 12912 HILL COUNTRY BLVD, STE F200 AUSTIN, TX 78738

PETROLEUM Engineers

ENERGY ADVISORS

AUSTIN - HOUSTON - WICHITA - DENVER - CALGARY

DETERMINATION AND NOTICE OF AFFECTED PARTIES – NEW MEXICO

If an operator or mineral lessee has legal acreage or leases within one mile of the proposed salt water disposal well, their contact information is collected for notification purposes. Legal acreage of offset operators is gathered from the New Mexico Oil Conservation District's Permitting website. Minerals leased from the federal government are determined by referencing the Bureau of Land Management's Land and Mineral System Reports database. Minerals leased from the state government are determined by referencing the New Mexico State Land Office's Data Access database. Contact information for the affected parties is then extracted from the reports that were filed with the appropriate regulatory agency. Should any private minerals that are not public information fall within the one-mile radius, a title search was performed to discover the current lessee of those minerals or identifying the mineral owner of the acreage.

Notices were sent for the Ragin Rutley SWD No. 1 application by mailing them a copy of Form C-108 on 12/9/2019. The individual tracking numbers are attached in the following pages of this application. Receipt of each application will be monitored and presented to the Oil Conservation Division upon request.

Tyler Moehlman

Petroleum Engineer

SM

Project: So

Solaris Water Midstream, LLC

Ragin Rutley SWD No. 1

Received by OCD: 4/1/2024 10:50:38 AM

Ragin Rutley SWD No. 1

Ragin Rutley SWD No. 1 1 Mile Offset Operators and Lessees List

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	MINERAL OWNER	SURFACE OWNER	ADDRESS 1	ADDRESS 2
11/T20S/R32E	N,O,P		OXY USA INC	*	-	PO BOX 27570	HOUSTON TX 772277570
	N,O,P		BP AMERICA PRODUCTION CO (OPERATING RIGHTS)	**	-	PO BOX 3092	HOUSTON TX 772533092
	N,O,P		ANADARKO E & P ONSHORE LLC (OPERATING RIGHTS)	16 3	-	PO BOX 173779	DENVER CO 802173779
12/T20S/R32E	M,N	煙	EOG RESOURCES INC	8703		PO BOX 4362	HOUSTON TX 772104362
	M,N	12	SHARBRO ENERGY LLC	N2-1	¥	PO BOX 840	ARTESIA NM 882110840
	M,N	煙	OXY Y-1 COMPANY	1851		PO BOX 27570	HOUSTON TX 772277570
	0	=	EOG RESOURCES INC	N2-1	~	P.O. BOX 2267	MIDLAND, TX 79702
13/T20S/R32E	N	COG OPERATING LLC	.a.	144		600 W ILLINOIS AVE	MIDLAND, TX 79701
	C,D,E,F,L,K,M,N	<u> </u>	COG OPERATING LLC	7 ₽	Ψ.	600 W ILLINOIS AVE	MIDLAND, TX 79701
	A,B,G,H	; ;	XTO DELAWARE BASIN, LLC.	100		22777 SPRINGWOODS VILLAGE PKWY	SPRING, TX 77389
14/T20S/R32E	B,D,E,G,J,L,M,N,O,P	EOG RESOURCES INC	929		<u>e</u>	P.O. Box 2267	MIDLAND, TX 79702
	A	MARATHON OIL PERMIAN LLC		361	-	5555 SAN FELIPE St.	HOUSTON, TX 77056
	ENTIRE SECTION	li li	EOG RESOURCES INC	(1) (1)	<u>a:</u> <u>u:</u>	PO BOX 4362	HOUSTON TX 772104362
	ENTIRE SECTION		OXY Y-1 COMPANY		-	PO BOX 27570	HOUSTON TX 772277570
15/T20S/R32E	I,P	÷	MARATHON OIL PERMIAN LLC (LESSEE)	25	₹	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P	æ	HANLEY PETROLEUM LLC (OPERATING RIGHTS)	X = 1	¥	415 W WALL ST STE 1500	MIDLAND TX 797014455
	I,P	÷	SLADE JARVIS J (OPERATING RIGHTS)	. 		535 MADISON AVE FL 4	NEW YORK NY 100224291
	I,P	2	H6 HOLDING LLC (OPERATING RIGHTS)	144	*	PO BOX 1212	MIDLAND TX 797021212
	I,P		TBO OIL & GAS LLC (OPERATING RIGHTS)	. 		4505 MOCKINGBIRD LN	MIDLAND TX 797071617
	I,P	8	MARATHON OIL PERMIAN LLC (OPERATING RIGHTS)	*	¥	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P		VERITAS PERMIAN RESOURCES LLC (OPERATING RIGHTS)	Y e Y		PO BOX 10850	FORT WORTH TX 761140850
	I,P	*	LHAH PROPERTIES LLC (OPERATING RIGHTS)	7 4 4	¥	415 W WALL ST STE 1500	MIDLAND TX 797014455
22/T20S/R32E	Α	æ	FASKEN LAND & MINERALS LTD	3#0	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	Α	4	WHITING 1988 PROD (OPERATING RIGHTS)		<u>e</u>	1700 BROADWAY #2300	DENVER CO 802902301
	Α	*	FASKEN BARBARA (OPERATING RIGHTS)	<u>;</u> =1	-	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	Α	4	FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	25 - 6		6101 HOLIDAY HILL RD	MIDLAND TX 79707
23/T20S/R32E	К	FASKEN OIL & RANCH LTD	181	X 4 1	¥	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION	÷	FASKEN LAND & MINERALS LTD	3,50	<i>□</i>	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION	-	WHITING 1988 PROD (OPERATING RIGHTS)	**	-	1700 BROADWAY #2300	DENVER CO 802902301
	ENTIRE SECTION		FASKEN BARBARA (OPERATING RIGHTS)		·	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	ENTIRE SECTION	*	FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	7 4 0	-	6101 HOLIDAY HILL RD	MIDLAND TX 79707
24/T20S/R32E	A,B,E,F,G,H	標	TITUS OIL & GAS CORP	Æ	.	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	C,D	<u> </u>	GROSS FAMILY LTD	924	2	PO BOX 358	ROSWELL NM 88202
	C,D	æ	TRAINER PARTNERS LTD	æ		PO BOX 3788	MIDLAND TX 79702378
İ	C,D	12	TITUS OIL & GAS CORP (OPERATING RIGHTS)		8	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	J,K,L,M,N	×	EOG RESOURCES INC	×	-	PO BOX 2267	MIDLAND TX 79702
Surface Location	<u>-</u>	-	**		BLM	<u>.</u>	¥:



9314 8699 0430 0066 4498 61 RETURN RECEIPT (ELECTRONIC)

արդերիրիրիրիրիրիրիրիրիրիրիրի

Total Postage: \$6.55

OIL CONSERVATION DIVISION DISTRICT I 1625 N. French Drive 2241-RAGIN RUTLEY SWD #1 Hobbs, NM 88240



9314 8699 0430 0066 4498 78

RETURN RECEIPT (ELECTRONIC)

իդնոկիկինինիներիներիների հայանիային հայանի

Total Postage: \$6.55

BUREAU OF LAND MANAGEMENT 301 Dinosaur Trail 2241-RAGIN RUTLEY SWD #1 Santa Fe, NM 87508



9314 8699 0430 0066 4498 85 RETURN RECEIPT (ELECTRONIC)

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Total Postage: \$6.55

FAITH CROSBY, OGMD/WATER NEW MEXICO STATE LAND OFFICE 310 OLD SANTA FE TRAIL 2241-RAGIN RUTLEY SWD #1 SANTA FE, NM 87501



9314 8699 0430 0066 4498 92 RETURN RECEIPT (ELECTRONIC)

<u>խըսիսՍոֆոդուդեդիսիսոիրը</u>իդերդկեկիդդեւ

Total Postage: \$6.55

ANADARKO E & P ONSHORE LLC PO BOX 173779 2241-RAGIN RUTLEY SWD #1 DENVER, CO 80217-3779



9314 8699 0430 0066 4499 08 RETURN RECEIPT (ELECTRONIC)

հերդիկվիկիկիկիկութունկայիկիսկիսկվեն

Total Postage: \$6.55

BP AMERICA PRODUCTION CO PO BOX 3092 2241-RAGIN RUTLEY SWD #1 HOUSTON, TX 77253-3092



9314 8699 0430 0066 4499 15 RETURN RECEIPT (ELECTRONIC)

րախվիկիայիների արդարիների հանդիկիների

Total Postage: \$6.55

COG OPERATING LLC 600 W ILLINOIS AVE 2241-RAGIN RUTLEY SWD #1 MIDLAND, TX 79701



9314 8699 0430 0066 4499 22 RETURN RECEIPT (ELECTRONIC)

վրմինդՈրդիկիիիիինդկրովեւՄՈւրգիլեւինի

Total Postage: \$6.55

EOG RESOURCES INC PO BOX 4362 2241-RAGIN RUTLEY SWD #1 HOUSTON , TX 77210-4362



9314 8699 0430 0066 4499 39 RETURN RECEIPT (ELECTRONIC)

Որելիկ-նորերոները Աելիլիելիելիելի իր Ալիիսինելի հեմիվ

Total Postage: \$6.55

EOG RESOURCES INC P.O. BOX 2267 2241-RAGIN RUTLEY SWD #1 MIDLAND, TX 79702



9314 8699 0430 0066 4499 46 RETURN RECEIPT (ELECTRONIC)

||դոհերյոկ||իլիոյիներկիլոհիկիլ||գիկիլիներերեր|||

Total Postage: \$6.55

BARBARA FASKEN FASKEN LAND & MINERALS LTD 6101 HOLIDAY HILL RD FASKEN OIL & RANCH LTD 2241-RAGIN RUTLEY SWD #1 MIDLAND, TX 79707-1631



9314 8699 0430 0066 4499 53 RETURN RECEIPT (ELECTRONIC)

իրոս[[կոլմիկոլմիկորկեր|[իլիլիյունդիկրդեմ

Total Postage: \$6.55

GROSS FAMILY LTD PO BOX 358 2241-RAGIN RUTLEY SWD #1 ROSWELL, NM 88202



9314 8699 0430 0066 4499 60 RETURN RECEIPT (ELECTRONIC)

<u>Որի հարկիկ անրանի արդանի արդինի արդանի արդանու</u>

Total Postage: \$6.55

H6 HOLDING LLC PO BOX 1212 2241-RAGIN RUTLEY SWD #1 MIDLAND , TX 79702-1212



9314 8699 0430 0066 4499 77 RETURN RECEIPT (ELECTRONIC)

հՈւիցեիունկնովոել[[միլի]ՈՈւիլուելովությիւին[

Total Postage: \$6.55

HANLEY PETROLEUM LLC LHAH PROPERTIES 415 W WALL ST STE 1500 2241-RAGIN RUTLEY SWD #1 MIDLAND, TX 79701-4455



9314 8699 0430 0066 4499 84 RETURN RECEIPT (ELECTRONIC)

րժինդիկորդությունը անգականիրիկություն

Total Postage: \$6.55

MARATHON OIL PERMIAN LLC 5555 SAN FELIPE St. 2241-RAGIN RUTLEY SWD #1 HOUSTON, TX 77056



9314 8699 0430 0066 4499 91 RETURN RECEIPT (ELECTRONIC)

ՍիիմիկիլիրոնակակիլՈւնանգրը|ԱլիալժՈրիիկիլ

Total Postage: \$6.55

OXY USA INC OXY Y-1 COMPANY PO BOX 27570 2241-RAGIN RUTLEY SWD #1 HOUSTON, TX 77227-7570



9314 8699 0430 0066 4500 03 RETURN RECEIPT (ELECTRONIC)

Որոնիլիննորին այնիային այնիային իրանի այսին և

Total Postage: \$6.55

SHARBRO ENERGY LLC PO BOX 840 2241-RAGIN RUTLEY SWD #1 ARTESIA, NM 88211-0840



9314 8699 0430 0066 4500 10 RETURN RECEIPT (ELECTRONIC)

րլ||ովուկդ|իպնհեր|րդ|րդ||իլկկ||իլեդոո||դդլհ

Total Postage: \$6.55

JARVIS J SLADE 535 MADISON AVE FL 4 2241-RAGIN RUTLEY SWD #1 NEW YORK , NY 10022-4291



9314 8699 0430 0066 4500 27 RETURN RECEIPT (ELECTRONIC)

հրվունքի[]]]ըցերիլիքկներիիոի[[վլոյե][լիերի]

Total Postage: \$6.55

TBO OIL & GAS LLC 4505 MOCKINGBIRD LN 2241-RAGIN RUTLEY SWD #1 MIDLAND, TX 79707-1617



9314 8699 0430 0066 4500 34 RETURN RECEIPT (ELECTRONIC)

ՎՈՒՐ-ՈՈսիաիդիկիսաՈրգ-իկիկինիկին-րդ-Ոիկիկի

Total Postage: \$6.55

TITUS OIL & GAS CORP 100 THROCKMORTON ST STE 1630 2241-RAGIN RUTLEY SWD #1 FORT WORTH , TX 76102-2846



9314 8699 0430 0066 4500 41 RETURN RECEIPT (ELECTRONIC)

վիոսներիվիկվերկիկներերերութիրութինութի

Total Postage: \$6.55

TRAINER PARTNERS LTD PO BOX 3788 2241-RAGIN RUTLEY SWD #1 MIDLAND , TX 79702-2378



9314 8699 0430 0066 4500 58 RETURN RECEIPT (ELECTRONIC)

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Total Postage: \$6.55

VERITAS PERMIAN RESOURCES LLC PO BOX 10850 2241-RAGIN RUTLEY SWD #1 FORT WORTH, TX 76114-0850



9314 8699 0430 0066 4500 65 RETURN RECEIPT (ELECTRONIC)

մ[[լհւիդուկել]Ով|Ավ|կլիլ|||Որն|_{||}ըելըել||Որելիել||իլի

Total Postage: \$6.55

WHITING 1988 PROD 1700 BROADWAY #2300 2241-RAGIN RUTLEY SWD #1 DENVER, CO 80290-2301



9314 8699 0430 0066 4500 72 RETURN RECEIPT (ELECTRONIC)

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Total Postage: \$6.55

XTO DELAWARE BASIN, LLC. 22777 SPRINGWOODS VILLAGE PKWY 2241-RAGIN RUTLEY SWD #1 SPRING, TX 77389



9314 8699 0430 0066 4500 89 RETURN RECEIPT (ELECTRONIC)

Որհիքիժերիրժչկչներիրիկիսիժյրքը,Ուրիիինիիրեմիվ

Total Postage: \$6.55

Ralph E Williamson PO Box 994 2241-RAGIN RUTLEY SWD #1 Midland, TX 79702



9314 8699 0430 0066 4500 96 RETURN RECEIPT (ELECTRONIC)

րժիրդիվորինինիներինիակինակինակությունների

Total Postage: \$6.55

WPX Energy Permian LLC 3500 One Williams Center 2241-RAGIN RUTLEY SWD #1 Tulsa, OK 74172



C-108 APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

Well Name:	
Applicant:	
PO Number:	
nin Ann No:	

C-108 Item	Description of Required Content	Yes	No
I. PURPOSE	Selection of proper application type.		
II. OPERATOR	Name; address; contact information.		
	Well name and number; STR location; footage location within section.		
	Each casing string to be used, including size, setting depth, sacks of cement, hole size, top of cement, and basis for determining top of cement.		
III WELL DATA	Description of tubing to be used including size, lining material, and setting depth.		
III. WELL DATA	Name, model, and setting depth of packer to be used, or description of other seal system or assembly to be used.		
	Well diagram: Existing (if applicable).		
	Well diagram: Proposed (either Applicant's template or Division's Injection Well Data Sheet).		
IV. EXISTING PROJECT	For an expansion of existing well, Division order number authorizing existing well (if applicable).		
V. LEASE AND WELL MAP	AOR map identifying all wells and leases within 2 mile radius of proposed well, and depicting a 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
VI. AOR WELLS	Tabulation of data for all wells of public record within AOR which penetrate the proposed injection zone, including well type, construction, date drilled, location, depth, and record of completion.		
	Schematic of each plugged well within AOR showing all plugging detail.		
	Proposed average and maximum daily rate and volume of fluids to be injected.		
	Statement that the system is open or closed.		
	Proposed average and maximum injection pressure.		
VII. PROPOSED OPERATION	Sources and analysis of injection fluid, and compatibility with receiving formation if injection fluid is not produced water.		
	A chemical analysis of the disposal zone formation water if the injection is for disposal and oil or gas is not produced or cannot be produced from the formation within 1 mile of proposed well. Chemical analysis may be based on sample, existing literature, studies, or nearby well.		
	Proposed injection interval, including appropriate lithologic detail, geologic name, thickness, and depth.		
VIII. GEOLOGIC DATA	USDW of all aquifers overlying the proposed injection interval, including geologic name and depth to bottom.		
	USDW of all aquifers underlying the proposed injection interval, including including the geologic name and depth to bottom.		



C-108 (SWD) APPLICATION FOR AUTHORIZATION TO INJECT ADMINISTRATIVE COMPLETENESS FORM

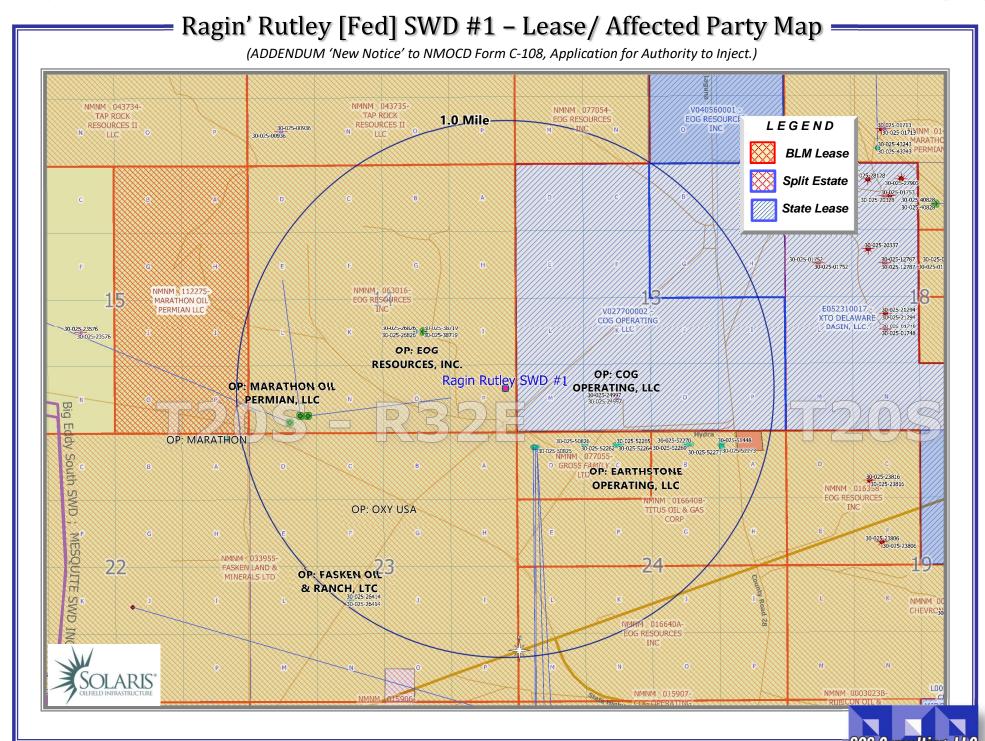
Well Name:	
Applicant:	
PO Number:	
nin App No	

C-108 Item	Description of Required Content	Yes	No
IX. PROPOSED STIMULATION	Description of stimulation process or statement that none will be conducted.		
X. LOGS/WELL TESTS	Appropriate logging and test data on the proposed well or identification of well logs already filed with OCD.		
XI. FRESH WATER	Chemical analysis of fresh water from two or more fresh water wells (if available and producing) within 1 mile of the proposed well, including location and sampling date(s).		
XII. AFFIRMATION STATEMENT	Statement of qualified person endorsing the application, including name, title, and qualifications.		
	Identify of all "affected persons" identified on AOR map in Section V, including all affected persons within 1/2 mile radius circle around any another projected injection well and a 1 mile radius circle around any other projected injection well in the Devonian formation.		
	Identification and notification of all surface owners.		
	BLM and/or NMSLO notified per 19.15.2.7(A)(8)(d) NMAC.		
XIII. PROOF OF NOTICE	Notice of publication in local newspaper in county where proposed well is located with the following specific content:		
	Name, address, phone number, and contact party for Applicant;		
	 Intended purpose of proposed injection wel, including exact location of a single well, or the section, township, and range location of multiple wells; Formation name and depth, and expected maximum injection rates and 		
	pressures; and		
	 Notation that interested parties shall file objections or requests for hearing with OCD no later than 15 days after the admin completeness determination. 		
XIV. CERTIFICATION	Signature by operator or designated agent, including date and contact information.		

Review Date*:	Reviewer:
○ Administratively COMPLETE	

NOTES:

^{*} The Review Date is the date of administrative completeness determination that commences the 15 day protest period in 19.15.26.8 (C)(2) NMAC.



Ragin' Rutley SWD #1 - 1-Mile Area of Review Wells March 28, 2024

API	OGRID Name	Well Name	Well Type	Well Status	PLSS Location (ULSTR)	Lease Type	SPUD Date
30-025-24997	COG OPERATING LLC	HANSON STATE #001	Gas	Active	N-13-20S-32E	State	8/10/1975
30-025-26826	EOG RESOURCES INC	BELCO AIA FEDERAL #001	Oil	Active	J-14-20S-32E	Federal	12/31/9999
30-025-38719	EOG RESOURCES INC	BELCO AIA FEDERAL #003H	Oil	Active	J-14-20S-32E	Federal	2/19/2008
30-025-40230	MARATHON OIL PERMIAN LLC	QUEENIE 15 FEDERAL #001H	Oil	Active	M-14-20S-32E	Federal	10/4/2011
30-025-38818	EOG RESOURCES INC	BELCO AIA FEDERAL #004H	Oil	Active	M-14-20S-32E	Federal	4/3/2008
30-025-38527	EOG RESOURCES INC	BELCO AIA FEDERAL #002H	Oil	Active	M-14-20S-32E	Federal	12/5/2006
30-025-36042	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #003C	Oil	Cancelled	B-23-20S-32E	Federal	12/31/9999
30-025-24405	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Cancelled	F-23-20S-32E	Federal	12/31/9999
30-025-36043	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #009	Oil	Cancelled	H-23-20S-32E	Federal	12/31/9999
30-025-32670	BARBARA FASKEN	BAETZ 23 #002	Oil	Cancelled	J-23-20S-32E	Federal	12/31/9999
30-025-40815	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #002C	Oil	Cancelled	K-23-20S-32E	Federal	12/31/9999
30-025-26414	FASKEN OIL & RANCH LTD	BAETZ 23 FEDERAL #001	Oil	Active	K-23-20S-32E	Federal	12/31/9999
30-025-51448	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #224H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52271	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #114H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52272	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #304H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52273	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #324H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-52274	EARTHSTONE OPERATING, LLC	PAKSE 5 SOUTH FEDERAL COM #434H	Oil	New	A-24-20S-32E	Federal	12/31/9999
30-025-51447	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #223H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52267	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #303H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52268	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #223H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52269	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #213H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52270	EARTHSTONE OPERATING, LLC	PAKSE 4 SOUTH FEDERAL COM #114H	Oil	New	B-24-20S-32E	Federal	12/31/9999
30-025-52262	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #432H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52263	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #322H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52264	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #302H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52265	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #112H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-52266	EARTHSTONE OPERATING, LLC	PAKSE 3 SOUTH FEDERAL COM #113H	Oil	New	C-24-20S-32E	Federal	12/31/9999
30-025-26416	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Cancelled	D-24-20S-32E	Federal	12/31/9999
30-025-50824	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #111H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50825	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #221H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50826	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #301H	Oil	New	D-24-20S-32E	Federal	12/31/9999
30-025-50827	EARTHSTONE OPERATING, LLC	PAKSE SOUTH FEDERAL COM #321H	Oil	New	D-24-20S-32E	Federal	12/31/9999

Ragin' Rutley SWD #1 - Affected Parties List (within 1-Mile Area of Review) March 28, 2024

S/T/R	QQ UNIT LETTER(S)	OPERATOR	MINERAL LESSEE	SURFACE OWNER	ADDRESS	CITY, STATE, ZIP
11/T20S/R32E	N,O,P		OXY USA INC	BLM	PO BOX 27570	HOUSTON TX 772277570
	N,O,P		BP AMERICA PRODUCTION CO (OPERATING RIGHTS)	BLM	PO BOX 3092	HOUSTON TX 772533092
	N,O,P		ANADARKO E & P ONSHORE LLC (OPERATING RIGHTS)	BLM	PO BOX 173779	DENVER CO 802173779
12/T20S/R32E	M,N	-	EOG RESOURCES INC	BLM	PO BOX 4362	HOUSTON TX 772104362
	M,N		SHARBRO ENERGY LLC	BLM	PO BOX 840	ARTESIA NM 882110840
	M,N		OXY Y-1 COMPANY	BLM	PO BOX 27570	HOUSTON TX 772277570
	0		EOG RESOURCES INC	BLM	P.O. BOX 2267	MIDLAND, TX 79702
13/T20S/R32E	N	COG OPERATING LLC	-	STATE	600 W ILLINOIS AVE	MIDLAND, TX 79701
	C,D,E,F,L,K,M,N		COG OPERATING LLC	STATE	600 W ILLINOIS AVE	MIDLAND, TX 79701
	A,B,G,H		XTO DELAWARE BASIN, LLC.	STATE	22777 SPRINGWOODS VILLAGE PKWY	SPRING, TX 77389
14/T20S/R32E	B, D, E, G, J, L, M, N, O, P	EOG RESOURCES INC	-	BLM	P.O. Box 2267	MIDLAND, TX 79702
	A ,M	MARATHON OIL PERMIAN LLC	-	BLM	5555 SAN FELIPE St.	HOUSTON, TX 77056
	ENTIRE SECTION		EOG RESOURCES INC	BLM	PO BOX 4362	HOUSTON TX 772104362
	ENTIRE SECTION		OXY Y-1 COMPANY	BLM	PO BOX 27570	HOUSTON TX 772277570
15/T20S/R32E	I,P	-	MARATHON OIL PERMIAN LLC (LESSEE)	BLM	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P		HANLEY PETROLEUM LLC (OPERATING RIGHTS)	BLM	415 W WALL ST STE 1500	MIDLAND TX 797014455
	I,P		SLADE JARVIS J (OPERATING RIGHTS)	BLM	535 MADISON AVE FL 4	NEW YORK NY 100224291
	I,P		H6 HOLDING LLC (OPERATING RIGHTS)	BLM	PO BOX 1212	MIDLAND TX 797021212
	I,P		TBO OIL & GAS LLC (OPERATING RIGHTS)	BLM	4505 MOCKINGBIRD LN	MIDLAND TX 797071617
	I,P		MARATHON OIL PERMIAN LLC (OPERATING RIGHTS)	BLM	5555 SAN FELIPE ST	HOUSTON TX 770562701
	I,P		VERITAS PERMIAN RESOURCES LLC (OPERATING RIGHTS)	BLM	PO BOX 10850	FORT WORTH TX 761140850
	I,P		LHAH PROPERTIES LLC (OPERATING RIGHTS)	BLM	415 W WALL ST STE 1500	MIDLAND TX 797014455
22/T20S/R32E	A	-	FASKEN LAND & MINERALS LTD	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	A		WHITING 1988 PROD (OPERATING RIGHTS)	BLM	1700 BROADWAY #2300	DENVER CO 802902301
	A		FASKEN BARBARA (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	A		FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
23/T20S/R32E	K	FASKEN OIL & RANCH LTD	-	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION		FASKEN LAND & MINERALS LTD	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
	ENTIRE SECTION		WHITING 1988 PROD (OPERATING RIGHTS)	BLM	1700 BROADWAY #2300	DENVER CO 802902301

	ENTIRE SECTION		FASKEN BARBARA (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 797071631
	ENTIRE SECTION		FASKEN LAND & MINERALS LTD (OPERATING RIGHTS)	BLM	6101 HOLIDAY HILL RD	MIDLAND TX 79707
24/T20S/R32E	E,F,G,H	-	TITUS OIL & GAS CORP	BLM	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
	A,B,C,D	EARTHSTONE OPERATING, LLC	-		300 N. MARIENFELD ST., STE 1000	MIDLAND, TX 79701
	C,D		GROSS FAMILY LTD	BLM	PO BOX 358	ROSWELL NM 88202
	C,D		TRAINER PARTNERS LTD	BLM	PO BOX 3788	MIDLAND TX 79702378
	C,D		TITUS OIL & GAS CORP (OPERATING RIGHTS)	BLM	100 THROCKMORTON ST STE 1630	FORT WORTH TX 761022846
J,K,L,M,N	-		EOG RESOURCES INC	BLM	PO BOX 2267	MIDLAND TX 79702