## Initial

# Application

## Part I

Received 5/13/21

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



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

Attn: Ms. Adrienne Sandoval, Director

Re: Solaris Water Midstream, LLC Authorization to Inject, Gobbler Fed SWD #1 Located: Section 14, T20S-R28E Eddy County, New Mexico

Dear Ms. Sandoval,

Attached for your review is Form C-108, Application for Authorization to Inject for Gobbler Fed SWD #1. A published legal notice will run this week in the Artesia Daily Press and all offset operators and other interested parties have been notified individually.

If you or your staff require additional information or has any questions, please do not hesitate to contact me.

Thank you,

Whitney McKee

**Regulatory Specialist** 

Solaris Water Midstream, LLC

(432) 203-9020

whitney.mckee@solariswater.com

5/13/21 RECEIVED: REVIEWER: APP NO: TYPE: pBL2113447760

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

#### **NEW MEXICO OIL CONSERVATION DIVISION**



- Geological & Engine	
1220 South St. Francis Drive,	Santa Fe, NM 87505
ADMINISTRATIVE APPLI	
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE REGULATIONS WHICH REQUIRE PROCESSING	
A P - FC1 : We Will a via	
Applicant: Solaris Water Midstram, LLC Well Name: Gobbler Fed SWD No. 1	OGRID Number: 371643
Pool: SWD; Devonian-Silurian	API: TBD Pool Code: 97869
SUBMIT ACCURATE AND COMPLETE INFORMATION R INDICATED	
1) TYPE OF APPLICATION: Check those which apply	
A. Location – Spacing Unit – Simultaneous Dedi	
_ · · · ·	
D. Charles and substantial and H.I.	SWD-2420
<ul><li>B. Check one only for [1] or [1]</li><li>[1] Commingling – Storage – Measurement</li></ul>	
DHC DCTB DPLC DPC	□ols □olm
[    ] Injection – Disposal – Pressure Increase –	
□ WFX □ PMX ■ SWD □ IPI	EOR PPR FOR OCD ONLY
2) NOTIFICATION REQUIRED TO: Check those which of	vlagr
A. Offset operators or lease holders	Notice Complete
B. Royalty, overriding royalty owners, revenu	pe owners Application
C. Application requires published notice D. Notification and/or concurrent approval	by SLO
E. Notification and/or concurrent approval	
F. Surface owner	·
G. For all of the above, proof of notification	or publication is attached, and/or,
H. No notice required	
3) <b>CERTIFICATION:</b> I hereby certify that the information	on submitted with this application for
administrative approval is accurate and complete	e to the best of my knowledge. I also
understand that <b>no action</b> will be taken on this ap notifications are submitted to the Division.	plication until the required information and
Note: Statement must be completed by an individu	al with managerial and/or supervisory capacity.
	May 13, 2021
Whitney McKee	Date
Print or Type Name	
, this of type than to	(432) 203-9020
1 1 DA A. IN	Phone Number
1 huh Bru	whitney makao@salariawatan com-
Signature	whitney.mckee@solariswater.com

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

#### APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Solaris Water Midstream, LLC
	ADDRESS: 907 Tradewinds Blvd., 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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*VII	1. 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: Whitney McKee TITLE: Regulatory Specialist
	SIGNATURE: What Bryk DATE: 5/13/2021
*	E-MAIL ADDRESS: whitney.mckee@solariswater.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:
DISTE	RIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

#### 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.

OPERATOR: Solaris Water Midstream, LLC

#### INJECTION WELL DATA SHEET

WELL NAME & NUM	BER: Gobbler Fed SWD #1					
WELL LOCATION: _	274' FSL & 1350' FEL		)	14	20S	28E
	FOOTAGE LOCATION	UNIT L	ETTER	SECTION	TOWNSHIP	RANGE
	WELLBORE SCHEMATIC					
See Wellb	ore Diagram (Item III, attachment 1)	•				
į	WELL CONSTRUCTION DATA			WELL CO	NSTRUCTION DATA	<u>4</u> ,
	Surface Casing			Inter	mediate 3 Casing	
Hole Size: 26"	Casing Size: 20"	<del></del>	Hole Size:12-1/4	4"	Casing Size: 9-5	/8"
Cemented with: 745	sx. <i>or</i>	ft³	Cemented with: 1	,725	SX. <i>or</i>	ft <sup>-</sup>
Top of Cement: Surface	Method Determined: Cir	culation	Top of Cement: Su	rface	Method Determin	ned: Circulation
	Intermediate 1 Casing				Liner	
Hole Size: 18-1/2"	Casing Size: 16"		Hole Size: <u>8-1/2"</u>		Casing Size: 7-5	/8"
Cemented with: 575	sx. <i>or</i>	ft <sup>3</sup>	Cemented with: 29	0	SX. <i>or</i>	ft <sup>3</sup>
Top of Cement: Surface	Method Determined: Circ	ulation	Top of Cement: 8,9	920'	Method Determin	ned: Calculated
	Intermediate 2 Casing			Injection	on Interval	
Hole Size: 14-3/4"	Casing Size: 13-3/8"				et to 13,400 feet pen Hole)	
Cemented with: 680	SX. <i>or</i>	ft <sup>3</sup>				
Top of Cement: Surface	Method Determined: Cir	culation				

#### INJECTION WELL DATA SHEET

Tul	ping Size: 7" 26#, HCP-110, from 0'-8,820' and 5.5", 20#, HCP-110 from 8,820'-11,875'
Lin	ing Material: Nickel Plated Double Grip Retrievable Packer or Equivalent
Тур	be of Packer: Duoline
Pac	eker Setting Depth: 11,875'
Oth	ner Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?X_YesNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: _ Devonian, Fusselman
3.	Name of Field or Pool (if applicable): SWD; Silurian-Devonian
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.
	a <del></del>
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _Delaware, Bone Spring, Wolfcamp, Canyon, Strawn, Atoka, Morrow

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District 11
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District 111

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

1220 S. St. Francis Dr., Sunta Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

API Number

## 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

Pool Code

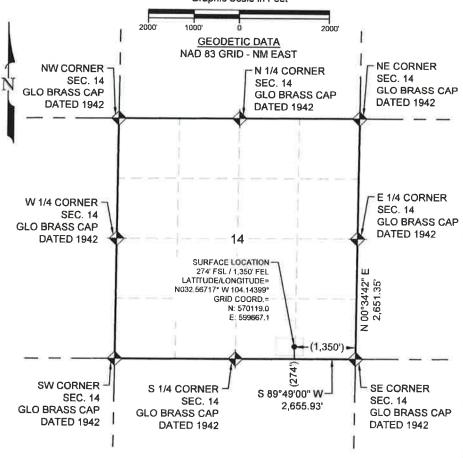
				97869	1	s	WD; SILURIAN-I		
⁴ Property Code				<sup>5</sup> Property Name GOBBLER FED SWD					Vell Number #1
<sup>7</sup> OGRID 37164	71643 SOLARIS WATER MIDSTREAM, LLC.					<sup>9</sup> Elevation 3,241'			
	W				Surface L	ocation		•	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	14	20-S	28-E		274'	SOUTH	1,350'	EAST	EDDY
	,	410	" Bott	tom 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

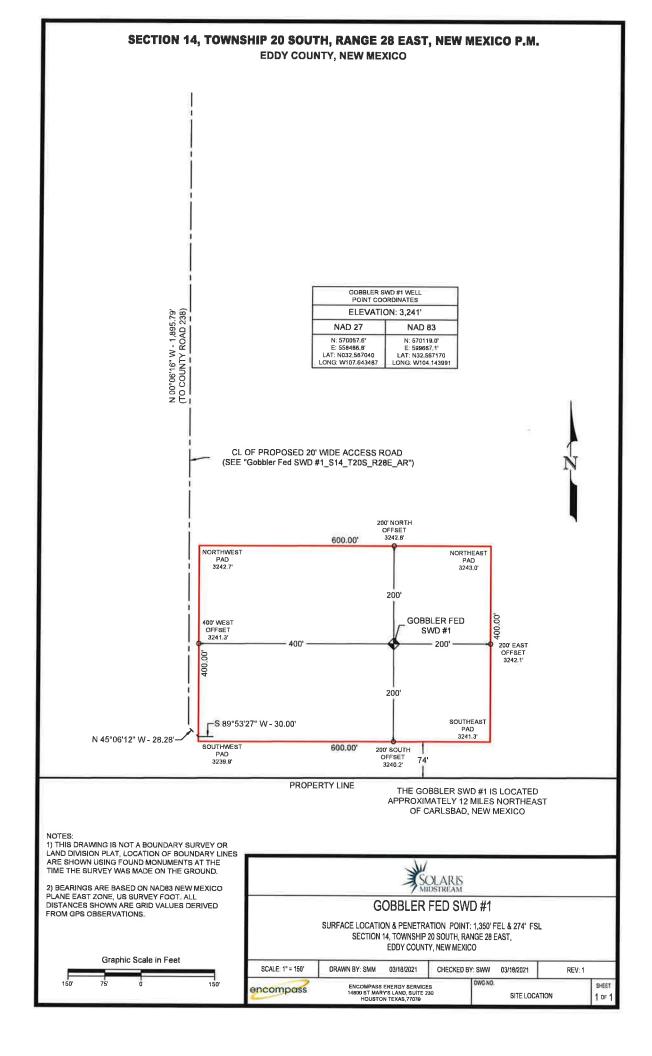
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

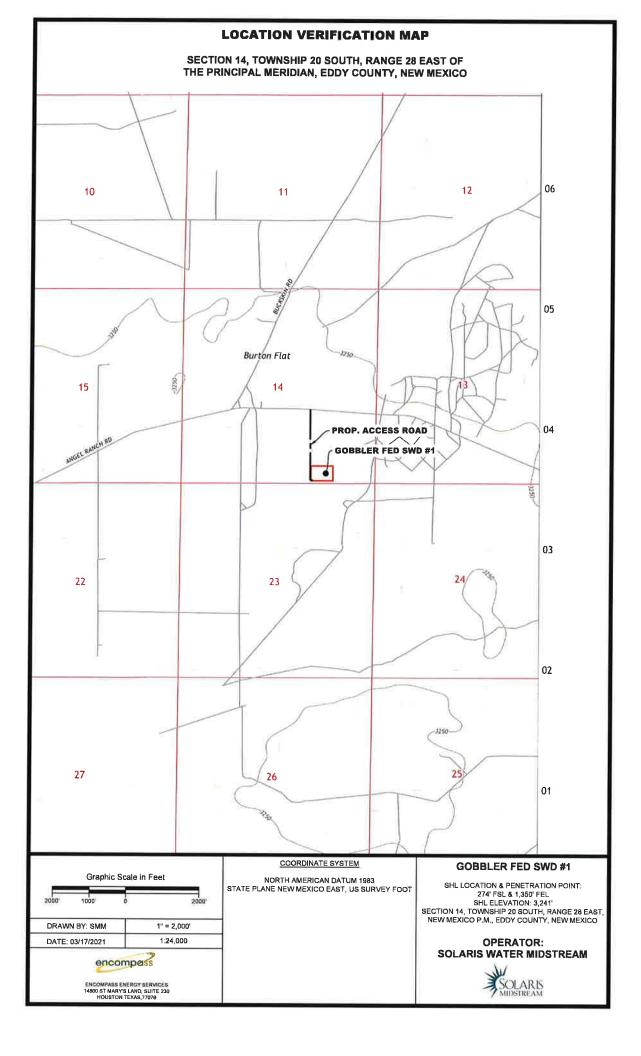
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

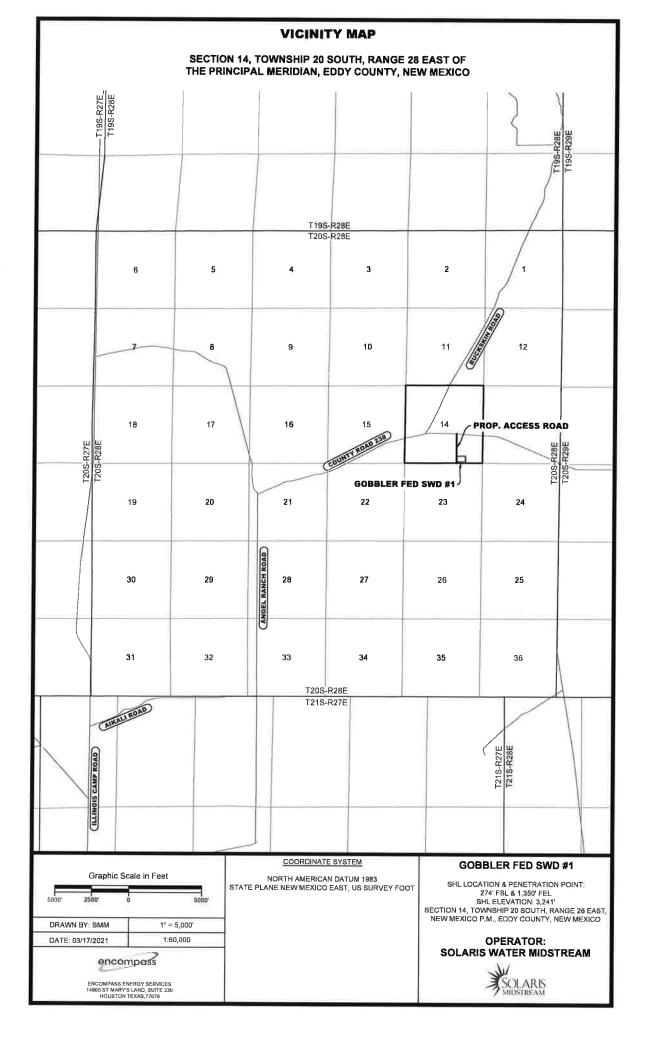
Graphic Scale in Feet



#### "OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this ition pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division 3/18/21 Date Whitney McKee Printed Name whitney.mckee@solariswater.com E-mail Address "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my sup same is true and corre 03/13/2021 Date of Survey 22896 FOR & ON BEHALF OF ENCOMPASS ENERGY SERVICES



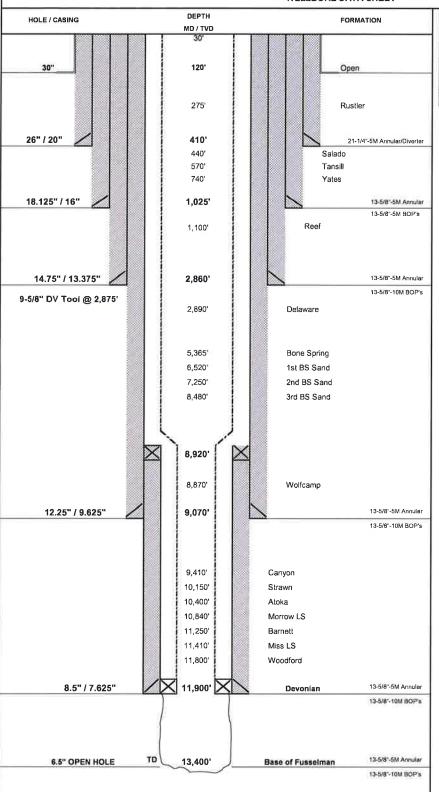




Item III – Well Data
Casing Information
Attachment 1

### SOLARIS WATER MIDSTREAM, LLC GOBBLER FED SWD #1

**WELLBORE DATA SHEET** 



LOCATION	Sec 14, T20S - R28E
SHL	274' FSL & 1,350' FEL
COORDS	32.567170 / -104.143991
COUNTY	Eddy
STATE	New Mexico
TOTAL DEPTH	13,400

Formation Tops	SS	TVD
Rustler	2983	275
Salado	2818	440
Tansill	2688	570
Yates	2518	740
Capitan Reef	2158	1100
Delaware	368	2890
Bone Spring	-2107	5365
1st BS Sand	-3262	6520
2nd BS Sand	-3992	7250
3rd BS Sand	-5222	8480
Wolfcamp	-5612	8870
Canyon	-6152	9410
Strawn	-6892	10150
Atoka	-7142	10400
Morrow	-7582	10840
Barnett	-7992	11250
Miss LS	-8152	11410
Woodford	-8542	11800
Devonian	-8642	11900
Injection Interval	11,900	13,400

### Solaris Water Midstream, LLC Gobbler Fed SWD #1

#### FORM C-108 Supplemental Information

#### III. Well Data

#### A. Wellbore Information

1

Well Information			
Lease Name Gobbler Fed SWD			
Well No.	1		
Location	S 14 T20S - R28E		
Footage Location	274' FSL & 1,350' FEL		

2

#### a) Wellbore Description

		Casing In	formation		
ТҮРЕ	Surface	intermediate 1	Intermediate 2	2nd Stage Intermediate 3	Liner
Hole Size	26"	18-1/8"	14-3/4"	12-1/4"	8-1/2"
Casing Size	20"	16"	13-3/8"	9-5/8"	7-5/8"
Weight	94 lb/ft	84 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft
Grade	H-40	K-55	N-80	HCP-110, BTC	HCP-110, FJ
Depth Set	410'	1,025'	2,860'	9,070'	11,900'
ID	19,124"	15,010"	12.415"	8.535"	6.625"
Drift ID	18.936"	14.822"	12,259"	8.500"	6.500"

#### b) Cementing Program

			Cement Information			
CASING STRING	Surface	Intermediate 1	Intermediate 2	2nd Stage Intermediate 3 Stage 1	2nd Stage Intermediate 3 Stage 2	Liner
Lead Cement	100 Class C Premium	100 Class C Premium	85:15% Class C Premium:Compass Poz- Mix	100% HSLD 94	65:35% Class C Premium	100% HSLD 87 Cement
Lead Cement Volume (sacks)	745	400	450	860	415	290
Lead Cement Density (ft3/sack)	13.5	13,5	11.8	10.5	11.8	15,6
Tail Cement	3	100 Class C Premium	100 Class C Premium	100% HSLD 125	100% Class C Premium	ж
Fail Cement Volume (sacks)	2	175	230	315	165	8
Fail Cement Density (ft3/sack)	ia	14.8	14.8	13.8	14,8	9
Cement Excess	100%	250% 50%	250% 150%	100% 50%	30% 30%	65%
Fotal Sacks	745	575	680	1,145	580	290
гос	Surface	Surface	Surface	2,875' 8,070'	Surface 2,375'	8,920
Viethod	Circulated	Circulated	Circulated	Circulated	Circulated	Calculated

#### Tubing Desctiption

Tubing	Information	
	7"	
OD	5,5*	
	26#	
WT	20#	
	6.276"	
ID	4.778"	
	6,151"	
Drift ID	4,653"	
Grade	HCP-110	
ХО	@ 8,820	
Depth Set	11,875	

### Item XIII – Proof of Notice Attachment 7

#### **Affidavit of Publication**

No. 2575
State of New Mexico Publisher
County of Eddy:
Danny Scott / Lo
being duly sworn sayes 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
Consecutive weeks/day on the same
day as follows:
First Publication May 13, 2021
Second Publication
Third Publication
Fourth Publication
Fifth Publication
Sixth Publication
Seventh Publication
Subscribed and sworn before me this
13th day of May 2021
OFFICIAL SEAL Latisha Romine NOTARY PUBLIC STATE OF NEW MEXICO My commission expires: 5/12/2023
Λ.

Latisha Romine

Notary Public, Eddy County, New Mexico

#### Copy of Publication:

#### Legal Notice

LEGAL NOTICE MAY 13, 2021 Solaris Water Midstream, LLC (701 Tradewinds Blvd., Suite C, Midland, TX 79706, contact Whitney McKee 432-203-9020) is seeking administrative approval from the New Mexico Oil Conservation Division to inject produced water in the Gobbler Fed SWD #1, in the Devonian-Silurian formation. The well is located 274' FSL & 1,350' FEL, Section 14, T20S-R28E, Eddy County, NM. The injection interval is 11,900' – 13,400'. The maximum expected injection rate is 50,000 BWPD at a maximum surface pressure of 2,380 psi. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505 within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., May 13, 2021 Legal No. 25757.



OXY USA WTP LP 6 Desta Dr. #6000 Midland, TX 79705

RE:

#### **NOTIFICATION TO INTERESTED PARTIES**

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

To whom it may concern,

Enclosed for your review is a copy of Solaris Water Midstream, LLC's C-108 Application to Inject for the above referenced well. The proposed commercial operation will be for produced water disposal from area operators. Interested parties wishing to object the proposed application must file in writing to NMOCD, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of the date of this notice.

Should you have any questions please contact me at 432-203-9020 or whitney.mckee@solariswater.com.

Sincerely,

Whitney McKee

**Regulatory Specialist** 

Solaris Water Midstream, LLC

White & rike



UNION OIL CO OF CA 6301 Deauville Midland, TX 79706

RE: NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1
274' FSL, 1,350' FEL
Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M.
Eddy County, New Mexico

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Sincerely,

Whitney McKee

**Regulatory Specialist** 

Solaris Water Midstream, LLC

What & heller



MARTIN CECILE E 411 Meadowlakes Dr. Meadowlakes, TX 78654

RE: NOTIFICATION TO INTERESTED PARTIES

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Sincerely,

Whitney McKee

**Regulatory Specialist** 

Solaris Water Midstream, LLC

White to help



HURT JAMES R P.O. Box 72 Odessa, TX 79760

RE:

**NOTIFICATION TO INTERESTED PARTIES** 

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Sincerely,

Whitney McKee

**Regulatory Specialist** 



HURT PROPERTIES LP P.O. Box 1927 Abingdon, VA 24212

RE: NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1
274' FSL, 1,350' FEL
Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M.
Eddy County, New Mexico

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Sincerely,

Whitney McKee

**Regulatory Specialist** 



GILMORE RESOURCES INC P.O. Box 577 Kimball, NE 69145

RE: NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

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Sincerely,

Whitney McKee Regulatory Specialist



WHEELER FREDDIE JEAN 1000 Cordova Pl. #454 Santa Fe, NM 87505

RE:

**NOTIFICATION TO INTERESTED PARTIES** 

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

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Sincerely,

Whitney McKee

Regulatory Specialist

Solaris Water Midstream, LLC

White Breken



THE KATHERINE E GILMORE BYPASS TRUST 505 N. Big Spring St., Ste 303 Midland, TX 79701

RE: NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

To whom it may concern,

Enclosed for your review is a copy of Solaris Water Midstream, LLC's C-108 Application to Inject for the above referenced well. The proposed commercial operation will be for produced water disposal from area operators. Interested parties wishing to object the proposed application must file in writing to NMOCD, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of the date of this notice.

Should you have any questions please contact me at 432-203-9020 or whitney.mckee@solariswater.com.

Sincerely,

Whitney McKee Regulatory Specialist

Solaris Water Midstream, LLC

Whatspile



DEVON ENERGY PRODUCTION CO LP 333 W Sheridan Ave. Oklahoma City, OK 73102

RE: NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

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Sincerely,

Whitney McKee Regulatory Specialist



SABINAL ENERGY OPERATING LLC 1780 Hughes Landing Blvd. The Woodlands, TX 77380

RE: NOTIFICATION TO INTERESTED PARTIES

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Sincerely,

Whitney McKee Regulatory Specialist

Solaris Water Midstream, LLC

Whom Broken



TANOS ENERGY HOLDINGS II LLC 821 E Southeast Loop 323 Tyler, TX 75701

RE: NOTIFICATION TO INTERESTED PARTIES

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Sincerely,

Whitney McKee

**Regulatory Specialist** 



COLGATE PRODUCTION LLC 300 N. Marienfeld St., Ste 1000 Midland, TX 79701

RE:

**NOTIFICATION TO INTERESTED PARTIES** 

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Whitney McKee Regulatory Specialist

Solaris Water Midstream, LLC

White Bry



LLJ VENTURES LLC P.O. Box 3188 Roswell, NM 88202

RE: NOTIFICATION TO INTERESTED PARTIES

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Whitney McKee Regulatory Specialist

Solaris Water Midstream, LLC

Whate Burge



OXY USA INC 5 Greenway Plaza, Ste 110 Houston, TX 77046

RE: NOTIFICATION TO INTERESTED PARTIES

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Whitney McKee Regulatory Specialist



OXY Y-1 CO 5 Greenway Plaza, Ste 110 Houston, TX 77046

RE:

**NOTIFICATION TO INTERESTED PARTIES** 

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Sincerely,

Whitney McKee

**Regulatory Specialist** 

Solaris Water Midstream, LLC

Nhow Bloger



BUREAU OF LAND MANAGEMENT 620 E. Greene Street Carlsbad, NM 88220

RE:

NOTIFICATION TO INTERESTED PARTIES

Gobbler Fed SWD #1 274' FSL, 1,350' FEL Unit O, Section 14, Township 20 South, Range 28 East, N.M.P.M. Eddy County, New Mexico

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Whitney McKee

**Regulatory Specialist** 

#### SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent X ☐ Addressee so that we can return the card to you. Attach this card to the back of the mailplece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No **BUREAU OF LAND MANAGEMENT** 620 E. Greene Street Carlsbad, NM 88220 □ Priority Mail Express® □ Registered Mail™ □ Registered Mail Restricted Delivery □ Return Receipt for Merchandise □ Signature Confirmation™ □ Signature Confirmation Restricted Delivery Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery 9590 9402 5940 0049 9799 70 ☐ Collect on Delivery 2. Article Number (Transfer from service label) ☐ Collect on Delivery Restricted Delivery 7020 0090 0001 5959 5484 Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

B.4	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECEIPT  Domestic Mail Only	
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Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name)	C. Date of Delivery
Article Addressed to:	D. Is delivery address different from If YES, enter delivery address	m Item 1?  Yes
COLGATE PRODUCTION LLC		
300 N Marienfield, Suite 1000		
Midland, TX 79701		
	O Contact	
9590 9402 5940 0049 9794 13	Service Type     Adult Signature     Adult Signature Restricted Delivery     Certified Mail®     Certified Mail Restricted Delivery	Priority Mail Express®     Registered Mail™     Registered Mail Restricted Delivery
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Adult Signature Restricted Delivery \$ 0600 \$1.40 Total Postage and Fees \$7.85 7020 Sent To COLGATE PRODUCTION LLC Street and 300 N Marienfield, Suite 1000 City, State, Midland, TX 79701 PS Form 3800, April 2015 PSN 7539-02-000-9047

#### SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent X so that we can return the card to you. ☐ Addressee Attach this card to the back of the mailpiece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No DEVON ENERGY PROD CO LP 333 W. Sheridan Avenue Oklahoma City, OK 73102 3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® ☐ Priority Mall Express® ☐ Registered Mail™ Begistered Mall Restricted Delivery Return Receipt for Merchandise 9590 9402 5940 0049 9794 06 ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) □ Signature Confirmation™ Signature Confirmation 7020 0090 0001 5959 5347 Restricted Delivery stricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

U.S. Postal Service™ **CERTIFIED MAIL® RECEIPT** 47 Domestic Mail Only For delivery information, visit our website at www.usps.com L Oklahoma City, OK 73102 59 Certified Mail Fee \$3.60 59 Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) 007 Return Receipt (electronic) \$0.00 Certified Mall Restricted Delivery \$0.00 Adult Signature Required  $\overline{\Box}$ \$0.00 Adult Signature Restricted Delivery \$ 0600 Postage Total Postage and Fees 85 Street and Ap DEVON ENERGY PROD CO LP 333 W. Sheridan Avenue Oklahoma City, OK 73102 PS Form 3800, April 2015 PSN 7530-02-000-9047



PS Form 3811, July 2015 PSN 7530-02-000-9053

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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

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#### SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent so that we can return the card to you. ☐ Addressee B. Received by (Printed Name) Attach this card to the back of the mailpiece, C. Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? $\square$ Yes If YES, enter delivery address below: HURT JAMES R. P.O. Box 72 Odessa, TX 79760 Service Type ☐ Priority Mail Express® Adult Signature ☐ Registered Mail™ ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery Registered Mail Restricted Delivery Return Receipt for Merchandise ☐ Collect on Delivery 2. Article Number (Transfer from service label) ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery fall 7020 0090 0001 5959 5408 all Restricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 5408 Domestic Mail Only For delivery information, visit our website at www.usps.com® Odessg , TX 79760 59 Certified Mall Fee \$3.60 9710 5 xtra Services & Fees (check box, add for Return Receipt (hardcopy) 0007 Return Receipt (electronic) \$0.00 Postmark Certified Mail Restricted Delivery **\$0.00** Here Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ Postagiessa , 0600 \$2.85 7020 \$0.00 HURT JAMES R P.O. Box 72 Odessa, TX 79760

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PS Form 3811, July 2015 PSN 7530-02-000-9053

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Restricted Delivery

Domestic Return Receipt

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PS Form 3811, July 2015 PSN 7530-02-000-9053

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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

97	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECEIPT  Domestic Mail Only  For delivery information, visit our website at www.usps.com <sup>®</sup> .
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	P31 0111 0001 1

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U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only m 54 For delivery information, visit our we Santa Feb NII 87505 Г Certified Mail Fee Ġ \$3.60 59 Extra Services & Fees (check box, add Return Receipt (electronic) \$0.00 000 Certifled Mail Restricted Delivery \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ ostage 0600 \$1.40 S Total Postage and Fees \$7 . 85 Sent 1 7020 WHEELER FREDDIE JEAN Street 1000 Cordova Pl. #454 City, S Santa Fe, NM 87505 PS Form 3800, April 2015 PSN 7530-02 000-9047

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

#### APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Solaris Water Midstream, LLC
	ADDRESS: 907 Tradewinds Blvd., 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: Yo
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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*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: Whitney McKee TITLE: Regulatory Specialist
	NAME: Whitney McKee  TITLE: Regulatory Specialist  DATE: 5/13/2021
*	E-MAIL ADDRESS: whitney.mckee@solariswater.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:
	The state of the s

#### 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.

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Gobbler Fed SWD #1	Gobbler Fed SWD #1				
WELL LOCATION: 27/	274' FSL & 1350' FEL	0	14	20S	28E
FOC	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELL See Wellbore Di	WELLBORE SCHEMATIC See Wellbore Diagram (Item III, attachment 1)				
WELL	WELL CONSTRUCTION DATA		WELL CON	WELL CONSTRUCTION DATA	
	Surface Casing		Interme	Intermediate 3 Casing	
Hole Size: 26"	Casing Size: 20"	Hole Size: 12-1/4"		Casing Size: 9-5/8"	
Cemented with: 745	SX. 07	ft <sup>3</sup> Cemented with: 1,725		sx. or	ft <sup>3</sup>
Top of Cement: Surface	Method Determined: Circulation	Top of Cement: Surface	ų.	Method Determined: Circulation	: Circulation
Inte	Intermediate 1 Casing		il.	Liner	
Hole Size: 18-1/2"	Casing Size: 16"	Hole Size: 8-1/2"		Casing Size: 7-5/8"	
Cemented with: 575	sx. orf	ft <sup>3</sup> Cemented with: 290	SX.	01	ft3
Top of Cement: Surface	Method Determined: Circulation	Top of Cement: 8,920'		Method Determined: Calculated	Calculated
Inte	Intermediate 2 Casing		Injection Interval	Interval	
Hole Size: 14-3/4"	Casing Size: 13-3/8"	î	11,900 feet to 13,400	to 13,400 feet	
Cemented with: 680	SX. or	ft³		(Open 11016)	
Top of Cement: Surface	Method Determined: Circulation	ſ			

## Side 2

# INJECTION WELL DATA SHEET

Tubing Size: 7" 26#, HCP-110, from 0'-8,820' and 5.5", 20#, HCP-110 from 8,820'-11,875'

Lining Material: Nickel Plated Double Grip Retrievable Packer or Equivalent  Type of Packer: Duoline	Packer Setting Depth: 11,875'	Other Type of Tubing/Casing Seal (if applicable):	Additional Data  1. Is this a new well drilled for injection?  X Yes No	If no, for what purpose was the well originally drilled?	2. Name of the Injection Formation: Devonian, Fusselman	3. Name of Field or Pool (if applicable): SWD; Silurian-Devonian	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.		5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Delaware, Bone Spring, Wolfcamp, Canyon, Strawn, Atoka, Morrow		
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District.1
1025 N. French Dr., Hobbs, NM 88.240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 882.10
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Roud, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

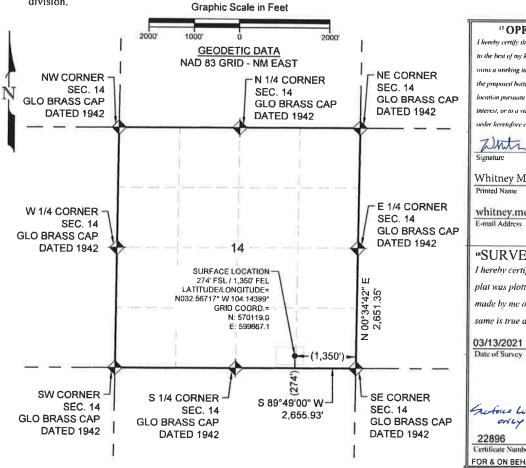
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

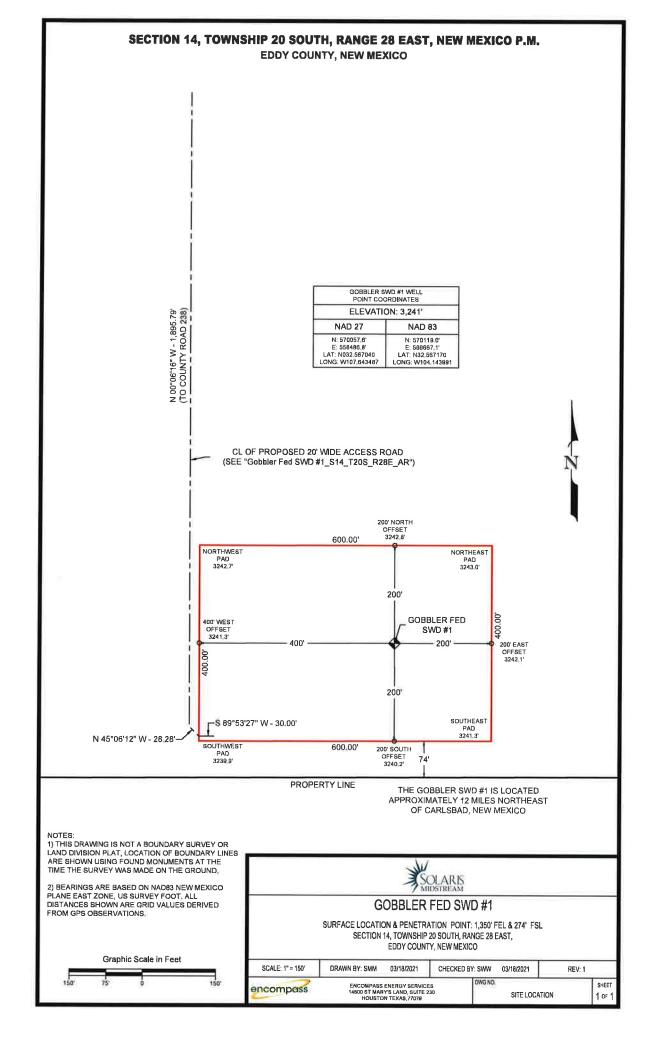
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

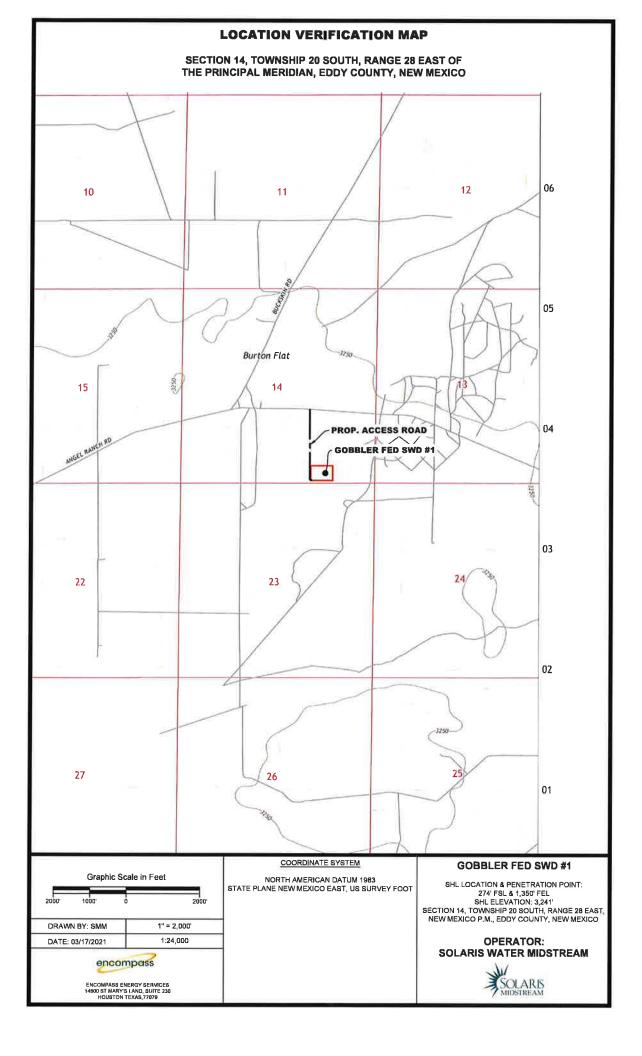
,	API Numbe	г		<sup>2</sup> Pool Code 97869		S	Pool Nam SWD; SILURIAN-		
<sup>4</sup> Property	Code				* Property	Name		6 V	Vell Number
					GOBBLER F	ED SWD			#1
<sup>7</sup> OGRID	No.				<sup>a</sup> Operator	Name			Elevation
37164	13			SOLA	RIS WATER MI	DSTREAM, LLC.		1	3,241'
					<sup>19</sup> Surface 1	Location		- Air	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	14	20-S	28-E		274'	SOUTH	1,350'	EAST	EDDY
	V		" Bot	tom Hol	e Location If	Different From	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	East/West line	County
12 Dedicated Acre	es 13 Joint or	r Infill 14 Co	nsolidation C	Code 15 Or	der No.				

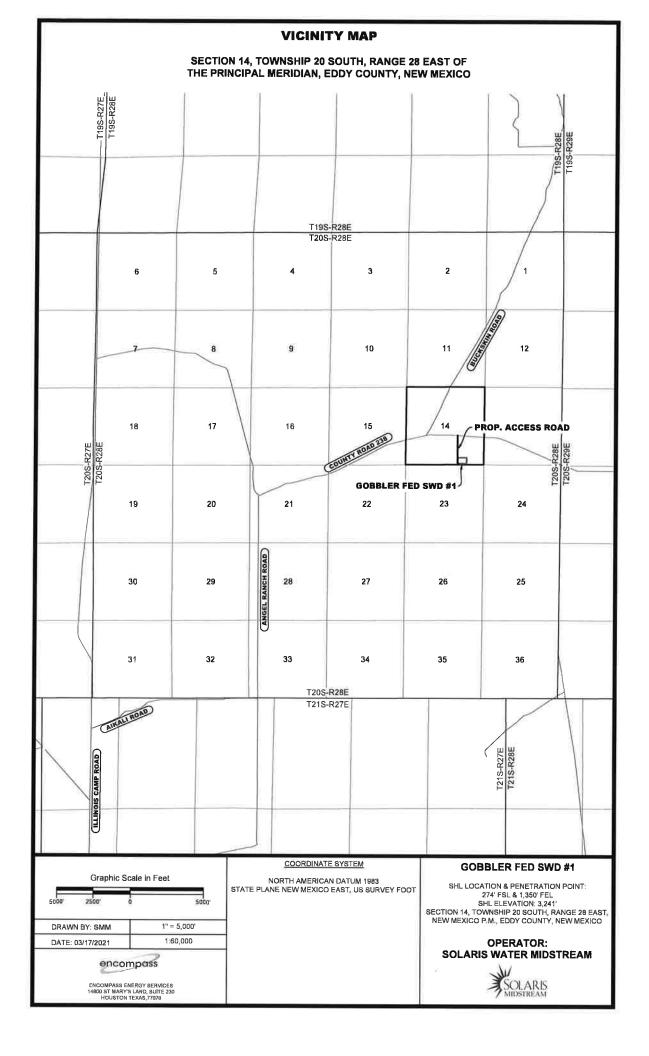
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



#### "OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including osed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division 3/18/21 Whitney McKee whitney.mckee@solariswater.com "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my sup same is true and cor only -Certificate Number FOR & ON BEHALF OF ENCOMPASS ENERGY SERVICES

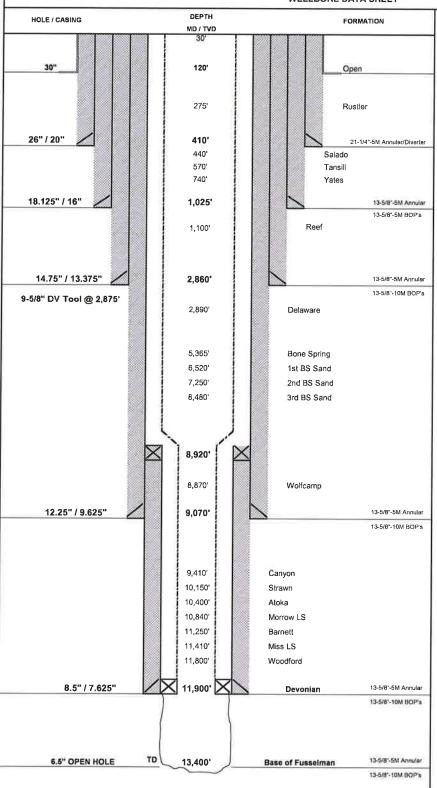






### SOLARIS WATER MIDSTREAM, LLC GOBBLER FED SWD #1

WELLBORE DATA SHEET



LOCATION	Sec 14, T205 - R28E
SHL	274' FSL & 1,350' FEL
COORDS	32.567170 / -104.143991
COUNTY	Eddy
STATE	New Mexico
TOTAL DEPTH	13,400

Formation Tops	SS	TVD
Rustler	2983	275
Salado	2818	440
Tansill	2688	570
Yates	2518	740
Capitan Reef	2158	1100
Delaware	368	2890
Bone Spring	-2107	5365
1st BS Sand	-3262	6520
2nd BS Sand	-3992	7250
3rd BS Sand	-5222	8480
Wolfcamp	-5612	8870
Canyon	-6152	9410
Strawn	-6892	10150
Atoka	-7142	10400
Morrow	-7582	10840
Barnett	-7992	11250
Miss LS	-8152	11410
Woodford	-8542	11800
Devonian	-8642	11900
Injection Interval	11,900	13,400

#### Solaris Water Midstream, LLC Gobbler Fed SWD #1

#### FORM C-108 Supplemental Information

#### III. Well Data

#### A. Wellbore Information

1

V	Vell Information
Lease Name	Gobbler Fed SWD
Well No.	1
Location	S 14 T20S - R28E
Footage Location	274' FSL & 1,350' FEL

2

#### a) Wellbore Description

Casing Information									
ТҮРЕ	Surface	Intermediate 1	Intermediate 2	2nd Stage Intermediate 3	Liner				
Hole Size	26"	18-1/8"	14-3/4"	12-1/4"	8-1/2"				
Casing Size	20"	16"	13-3/8"	9-5/8"	7-5/8"				
Weight	94 lb/ft	84 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft				
Grade	H-40	K-55	N-80	HCP-110, BTC	HCP-110, FJ				
Depth Set	410"	1,025'	2,860'	9,070'	11,900'				
D	19.124"	15,010"	12.415"	8.535"	6.625"				
Drift ID	18,936"	14,822"	12.259"	8,500"	6.500"				

#### b) Cementing Program

			Cement Information			
CASING STRING	Surface	Intermediate 1	Intermediate 2	2nd Stage Intermediate 3 Stage 1	2nd Stage Intermediate 3 Stage 2	Liner
Lead Cement	100 Class C Premium	100 Class C Premium	85:15% Class C Premium:Compass Poz- Mix	100% HSLD 94	65:35% Class C Premium	100% HSLD 87 Cement
Lead Cement Volume (sacks)	745	400	450	860	415	290
Lead Cement Density (ft3/sack)	13,5	13,5	11.8	10.5	11.8	15.6
Fail Cement	×	100 Class C Premium	100 Class C Premium	100% HSLD 125	100% Class C Premium	8
Fall Cement Volume	2	175	230	315	165	2
Fall Cement Density ft3/sack)	3	14,8	14.8	13.8	14.8	×
Cement Excess	100%	250% 50%	250% 150%	100% 50%	30% 30%	65%
Total Sacks	745	575	680	1,145	580	290
гос	Surface	Surface	Surface	2,875' 8,070'	Surface 2,375'	8,920
Method	Circulated	Circulated	Circulated	Circulated	Circulated	Calculated

#### 3 Tubing Desctiption

<b>Tubing Information</b>									
	7*								
OD	5,5**								
	26#								
WT	20#								
	6.276"								
ID	4.778"								
	6.151"								
Drift ID	4,653"	_							
Grade	HCP-110								
ХО	@ 8,820								
Depth Set	11,875'								

#### III. WELL DATA

#### A.

#### (1) GENERAL WELL INFORMATION

Operator: Solaris Water Midstream, LLC Well Name: Gobbler Fed SWD #1 Location: Sec. 14, T20S-R28E Footage Call: 274' FSL & 1,350' FEL

#### (2) CASING INFORMATION

See Attachment 1 (Item III – Well Data). (insert from WBD page).

#### (3) TUBING INFORMATION

7" (26#) internal Plastic Coated Liner swedged down to 5.5" (20#) with setting depth of 11,875'.

#### (4) PACKER INFORMATION

Lok-set or equivalent packer set at 11,875'.

В.

#### (1) INJECTION FORMATION NAME

Devonian, Silurian and Fusselman formations.

#### (2) INJECTION INTERVAL

Open-hole injection between 11,900' – 13,400'

#### (3) DRILLING PURPOSE

New drill for Salt Water Disposal.

#### (4) OTHER PERFORATED INTERVALS

No other perforated intervals exist.

#### (5) OVERLAYING OIL AND GAS ZONES

Delaware	2,890'
Bone Spring	5,365'
Wolfcamp	8,870′
Canyon	9,410'
Strawn	10,150'
Atoka	10,400'
Morrow	10,840'

#### **UNDERLYING OIL AND GAS ZONES**

No underlying oil and gas zones exist.

#### V. AOR WELL AND LEASE MAPS

See Attachment 2 (Item V – AOR Well and Lease Maps).

#### VI. AOR TABULATION

See Attachment 2 (Item VI - AOR Tabulation).

#### **VII. PROPOSED OPERATION**

1. PROPOSED MAXIMUM INJECTION RATE: 50,000 BPD PROPOSED AVERAGE INJECTION RATE: 40,000 BPD

2. OPEN OR CLOSED LOOP SYSTEM: Closed Loop

3. AVERAGE INJECTION PRESSURE: 1,904 psi
MAXIMUM INJECTION PRESSURE: 2,380 psi

- SOURCE WATER ANALYSIS: Attached are produced water sample analysis taken from the closest wells. See <u>Attachment 3 (Item VII – Proposed Operation – Source Water Analysis)</u>.
- **5. INJECTION FORMATION WATER ANALYSIS:** The disposal interval is non-productive. No water samples are available from the surrounding area.

#### **VIII. GEOLOGIC INFORMATION**

The Devonian and Silurian consists of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thing 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 in section 14 and adjacent sections. If the base of Devonian come in as expected the well will only be drilled deep enough for adequate logging rathole.

At the proposed injection interval of 11,900′ – 13,400′ BGL (Below Ground Level) the well will TD approximately 13,400′. Mud logging through the interval will ensure the target interval remains in Devonian and Fusselman. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 11,900′ 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 date 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.

See Attachment 4 (Item VIII - Geologic Information).

#### IX. PROPOSED STIMULATION PROGRAM

50,000 gallon acid job.

#### X. LOGGING AND TEST DATA

Logs will be submitted to the Division upon completion of the well.

#### XI. FRESH GROUNDWATER SAMPLES

Fresh water in the area is generally available from the Rustler formation and some alluvial deposits. State Engineer's records show water wells in the area are usually drilled between 29' and 400' in depth. Water depths range from 10' - 186'.

There is one (1) water well located within one mile of the proposed SWD; a chemical analysis of the fresh water well will be submitted when received.

#### XII. NO HYDROLOGIC CONNECTION STATEMENT

See Attachment 5 (Item XI - Groundwater).

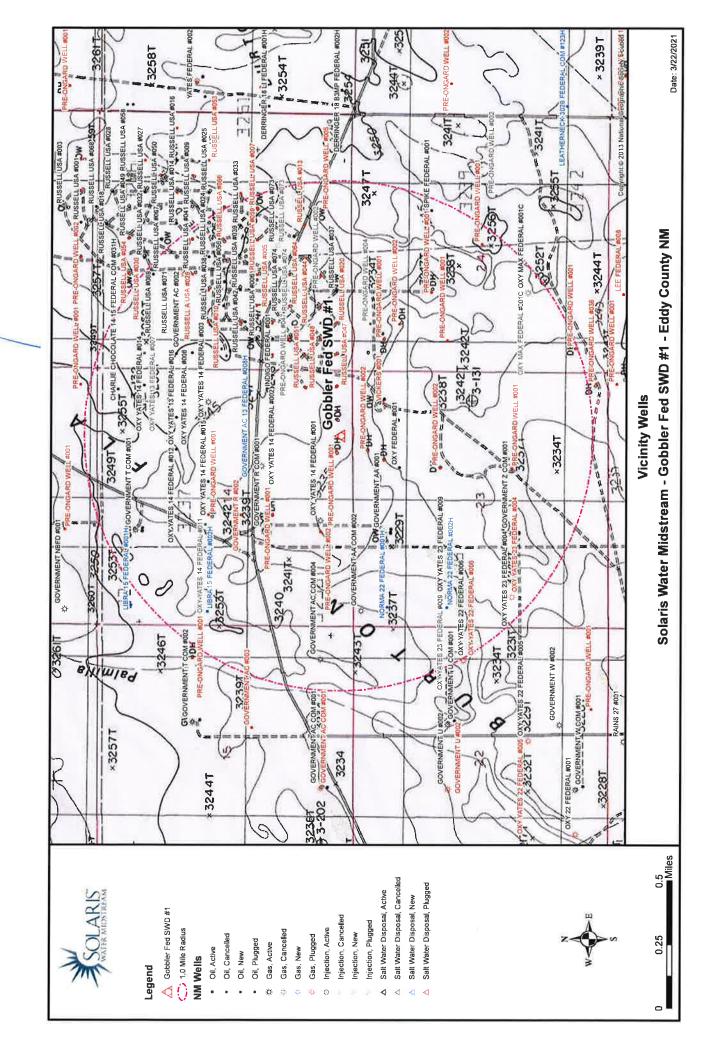
No faulting is present in the area that would provide a hydrologic connection between the injection interval and the overlying USDW's. Additionally, the casing program has been designated to ensure there will be no hydrologic connection between the injection interval and overlying USDW's. See **Attachment 6 (Item XII – Geologic Affirmation)**.

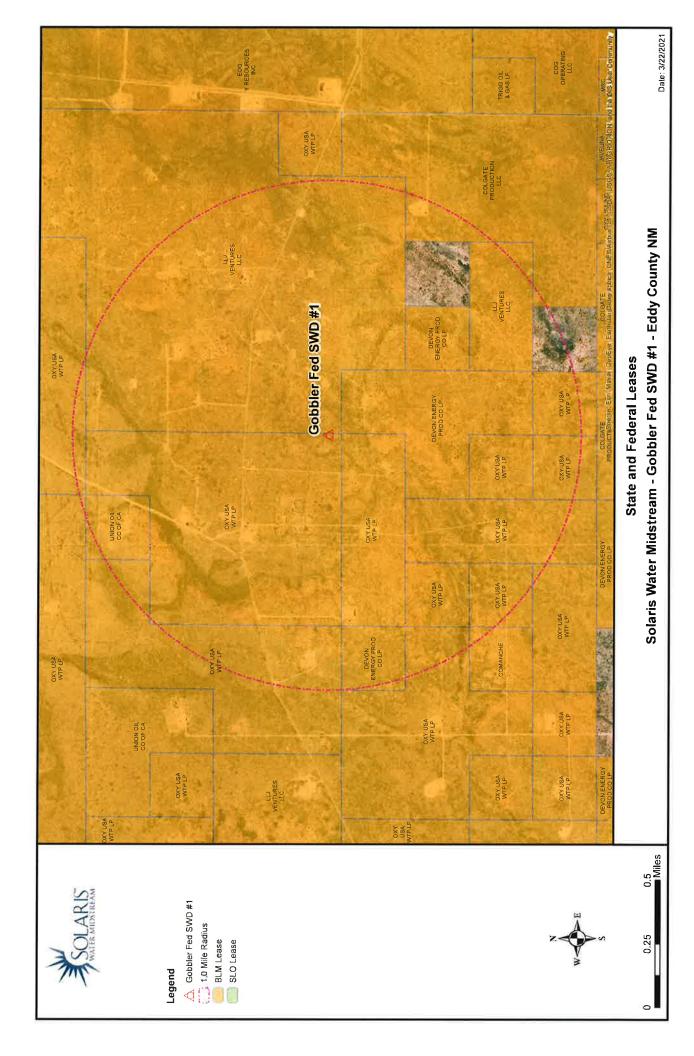
#### XIII. PROOF OF NOTICE

A Public Notice was filed with the Artesia Daily PressDela and an affidavit is included in **Attachment 7** (Item XIII – **Proof of Notice**).

A copy of the application was mailed to the OCD District Office, landowner and leasehold operator within the AOR of the proposed SWD location. A list of the receipts, as well as delivery confirmations, are included in *Attachment 7 (Item XIII – Proof of Notice Cont)*.

## Item V and VI – AOR Well Data, Lease Maps and Tabulation Attachment 2





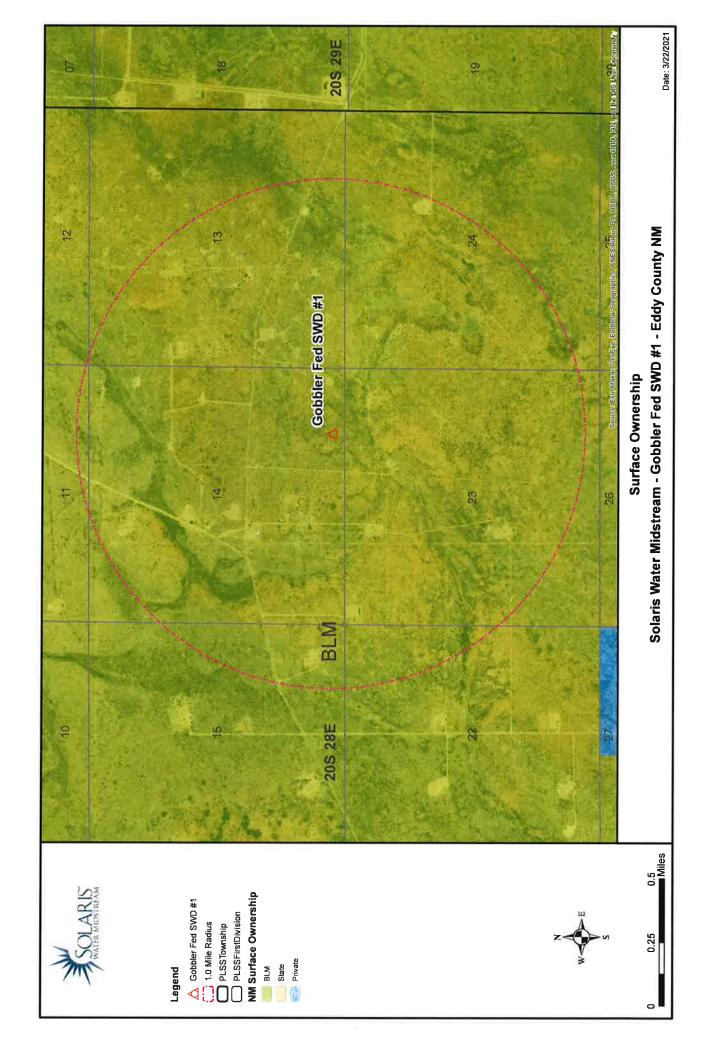


Table 1 Wells Within 1.0 Miles

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22403	375504	20056 20000 20000 20000	10,114	10/1/1	10/25/06	10000	11/21/06	17.00	11.8.17	88655	1000	11,8717	27675	11.8/17	\$220715	5/20/15	0000	71/5/21	570015	10/17/13	000	375607	32807	7/19/17	10/25/99	88	Tahrita	32607	100	T118117	12/1/03	CORTO LITTO	77977 77977 77977
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15-32656	20-015-33283	36 015 30555 36 015 43555 36 015 43254 36 015 43405 36 015 30807	30.015.21242	30-015-20956	30-015-28391	30 015 02397	30-015-20871	30 015 02401	015.30516	20015 0229 20015 0229 20015 0222 20015 0222	015-3240	015.32592	015 02400	015 30900	30-015-43121	30-015-20467	30-015-40880	30 015 02419	30-015-43123	015 2567	015 21330	015 02398	30 015 02371	30-015-02152	30 015 30800 30 015 02366 30 015 02426	015-26676	30.015.36107	015 05 185	20 015 02425	20 015 10420	30-015-02378	30-015-31884	30 015 02391 30 015 26491 30 015 10204 30 015 02346

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NAMA 015003	NAME O15003 BUREAU OF LAND WOMT	1720 Odg we sime public land		O/Agas 3	371/1972	HB# OXY USA WTP LP	SAWTE (P	100		00000		0.000		0 000		0000	0	9000		0 000 12/1/2017	2017 99	9933076 14	24990 19
NWW 008941	BUREAU OF LAND MOST	170 Oág ise simo public land		D: K gas 3	3717969 8	HIR OXYUEAWTPLP	TAWTPLP	100		0000		0000		00000		0 000	0	0000		12/1/21	12/1/2017	592357,12	3847,32
NWW DS28804	BUREAU OF LAND MONT	CRO Odg he sme public land		0/4 gm 4	ATTEMPT	HIP OXY US	oxy usawite LP	8		0 000		00000		0.000		0.000	0	0000		12/1/2	12/1/2017 6	691094 73	57.8972
NMNM 0541560	NANN OSCISSO BUREAU OF LAND MONT	160 Obg he sime publiciand		014 500 5	Striller H	HEP UNION	HBP. UNION OIL CO OF CA.	100		0.000		0.000		0 000		0.000	0	0000		0 000 12/1/	12/1/2017	153360.97	5767.92
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NAME 015293	BUREAL OF LAND MONT	T20 D&g he comp pusic		Ot & gas 5	STREETS P	HIS OXY US	OXY USA WITH LP	82.44 5.48	ABINAL ENERGY OPERATING LLC	8216 1	TANDS ENERGY HOLDINGS ILLIC	8 342		0.000	:	00000	٥	0 000		0.000   12/1/2017	- 3	21.609269	3840.30
NMNM 006856	BUREAU OF LAND MONT	ALC: OAG Se comp public		00 K gas &	A11115G8 P	HIP OXY US	OXY USA WTP LP	100		0000		0 000 0		0000		0000	٥	0 000		71.77 000 0	12/1/2017	551181183	8857.64
NWW 100255	BUREAU OF LAND AGAT	320 G4g her sime public land		01.6 gas 5	Munikk H	HBP COLGA	COLGATE PRODUCTION LLC	60		9 500		0000		0 000		0000	a	0 000		71.77	12/1/2017 18:	B54435 37	6739 92
NMNM 082983	BUREAU OF LAND MOUT	400 Obg he noncomp published Of 8 per	gop rand Os		6rt/1863	HBP OXY US	OXY USAWTP LP	901		0000		0.000		0,000		0000	0	0 0 0 0		0.000 12/17	12/1/2017 23	2304268.41	3473.73
NALC 0090797	BUREAU OF LAND MOMT	1200 Olg sxchange issser-pd		016 944	SYLTHMO H	HBP LLIVENTURES LLC	NTURESLICE	100		0,000		0.000		0000		0000	0	0 000 0		0.000 12/1/2	12/1/2017 69	695454243	17326 03
NMNM 017220 E	BUREAU OF LAND MGMT	400 Oâg ise simo public land		Of & g## 1	USTRATO H	HBP OXY USA WTP LP	GAWTP LP.	100		0.000		0.000		0.000		0000	0	0000		0.000 12/1/	12/1/2017 23	2309397.70	2498.10
NAME 002277	BUREAU OF LAND MONT	440 Oag te sime public land		O & g g B B	E/1/1867	HEP OXY USA WTP LP	LAWTPLP	100		0 000		0 000		0.000		0000	10	0.000		0.000 12/1/	12/1/2017 25	254952132	7700 23
NMNM 0554216	NMNM 0554216 BUREAU OF LAND MGMT	350 Oåg se sima public land		Oi & gim	77111364 H	HBP OXY US	OKY USA WTP LP	100		0000		0.000		0 000		0000	a	0000		0.000 12/1/	12/1/2017 20	2077783 00	25.23
NALC COURSE	BUREAU OF LAND MONT	200 Olg her narrows published Old gas	0 000		10/29/1942 HBP	HBP DEVON	DEVON ENERGY PROD CO LP	05	OXY USA WTP LP	90 00		0.000		0 000		0000	0	0000		0.000 12712	127/2017	154134.38	6728 18
NMNM 017099 E	BUREAU OF LAND MGMT	40 Oligitie noncomp publisher Oil 8 gas	publishe Of		3711864 H	HSP: OXY USA W7P LP	IN W7P LP	100		0 000		0.000		0.000		0000	0	0000		0.000 12/1/2	2712017 2	23077445	1921.51
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BUREAU OF LAND MANAGEMENT

3/22/2021

## Item VII – Source Water Analysis Attachment 3

#### **DELAWARE**

Avalon Delaware Unit #258
30-015-24546
Sec. 30, T20S-R28E
Eddy
Delaware

ph	10	barium_mgL	
ph_temp_F		magnesium_mgL	3660
specificgravity		potassium_mgL	
specificgravity_temp_F		strontium_mgL	
tds_mgL	100084	manganese_mgL	
tds_mgL_180C		chloride_mgL	100500
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	460
hardness_mgL		sulfate_mgL	792
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	
conductivity_temp_F		o2_mgL	
sodium_mgL	56097	anionremarks	
calcium_mgL	244	generalinforemarks	
iron_mgL			

<sup>\*</sup>Produced water data: NMT Octane NM WAIDS database.

#### **DELAWARE**

Well Name	Burton Flat Deep Unit #047H
API	30-015-40517
Location	Sec. 28, T20S-R28E
Lat/Long	
County	Eddy
Field	
Formation	Bone Spring
Lab ID	
Sample ID	
Sample Date	
Analysis Date	
Sample Source	
Depth (if known)	
Water Type	

		/	
ph	7.1	barium_mgL	
ph_temp_F		magnesium_mgL	366.9
specificgravity		potassium_mgL	
specificgravity_temp_F		strontium_mgL	
tds_mgL	192409.6	manganese_mgL	
tds_mgL_180C		chloride_mgL	114048.2
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	2074
hardness_mgL		sulfate_mgL	
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	4.5
conductivity_temp_F		o2_mgl	
sodium_mgL	72267.4	anionremarks	
calcium_mgL	1344.2	generalinforemarks	
iron_mgL	18.2		

<sup>\*</sup>Produced water data: NMT Octane NM WAIDS database.

#### **WOLFCAMP**

Well Name	Fed Union #001
API	30-015-02416
Location	Sec. 22, T20S - R28E
Lat/Long	
County	Eddy Co., NM
Field	
Formation	Wolfcamp
Lab ID	
Sample ID	
Sample Date	
Analysis Date	
Sample Source	
Depth (if known)	
Water Type	

ph	6.7	barium_mgL	
ph_temp_F		magnesium_mgL	
specificgravity		potassium_mgL	
specificgravity_temp_F		strontium_mgL	
tds_mgL	55965	manganese_mgL	
tds_mgL_180C		chloride_mgL	32400
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	252
hardness_mgL		sulfate_mgL	2260
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	
conductivity_temp_F		o2_mgL	
sodium_mgL		anionremarks	
calcium_mgL		generalinforemarks	
iron_mgL			

<sup>\*</sup>Produced water data: NMT Octane NM WAIDS database.

#### **STRAWN**

Well Name	Slinkard UR Federal Com #002	
API	30-015-24722	
Location	Sec. 11, T20S-R29E	
Lat/Long		
County	Eddy	
Field		
Formation	Strawn	
Lab ID		
Sample ID		
Sample Date		
Analysis Date		
Sample Source		
Depth (if known)		
Water Type		

ph	6.2	barium_mgL	
ph_temp_F		magnesium_mgL	1197.8
specificgravity		potassium_mgL	
specificgravity_temp_F		strontium_mgL	
tds_mgL		manganese_mgL	
tds_mgL_180C		chloride_mgL	77532
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	244
hardness_mgL		sulfate_mgL	12.5
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	
conductivity_temp_F		o2_mgL	
sodium_mgL		anionremarks	
calcium_mgL	11480	generalinforemarks	
iron_mgL	43.8		

<sup>\*</sup>Produced water data: NMT Octane NM WAIDS database.

#### **MORROW**

Well Name	Dooley #001
API	30-015-10044
Location	Sec. 24, T20S-R29E
Lat/Long	
County	Eddy
Field	
Formation	Morrow
Lab ID	
Sample ID	
Sample Date	
Analysis Date	
Sample Source	
Depth (if known)	
Water Type	

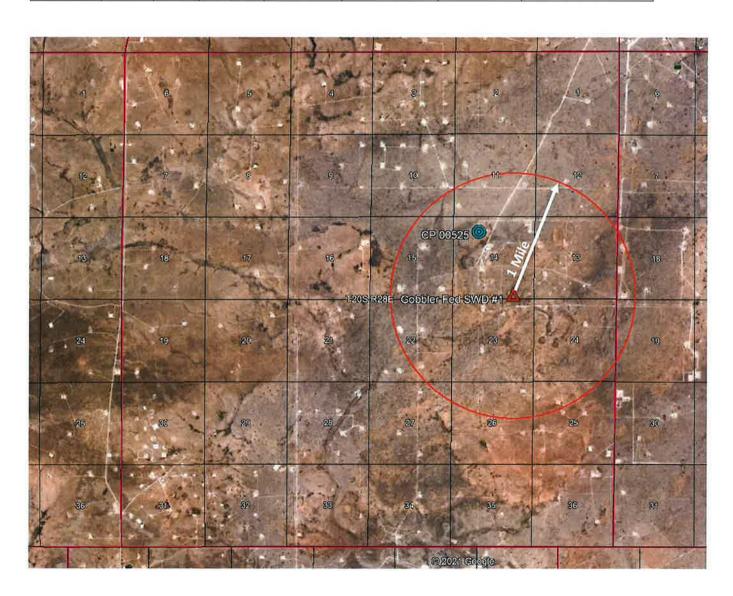
			7.V
ph		barium_mgL	
ph_temp_F		magnesium_mgL	
specificgravity		potassium_mgL	
specificgravity_temp_F		strontium_mgL	
tds_mgL	11718	manganese_mgL	
tds_mgL_180C		chloride_mgL	4466
alkalinity_as_caco3_mgL		carbonate_mgL	
hardness_as_caco3_mgL		bicarbonate_mgL	1634
hardness_mgL		sulfate_mgL	1441
resistivity_ohm_cm		hydroxide_mgL	
resistivity_ohm_cm_temp_F		h2s_mgL	
conductivity		co2_mgL	
conductivity_temp_F		o2_mgL	
sodium_mgL		anionremarks	
calcium_mgL		generalinforemarks	
iron_mgL			

<sup>\*</sup>Produced water data: NMT Octane NM WAIDS database.

## Item XI – Fresh Groundwater Samples Attachment 5

There is one (1) water well located within one mile of the proposed SWD; a chemical analysis of the fresh water well will be submitted when received.

POD#	SUB BASIN	USE	DEPTH OF WELL	DEPTH TO WATER	LAT/LONG	OWNER	ADDRESS
CP 00525	СР	PRO	171′	140′	32.578214, -104.151325	Cities Service Oil Company	P.O. BOX 4906 Midland, TX 79701





#### New Mexico Office of the State Engineer

#### **Water Right Summary**

get image list

WR File Number: CP 00525

Subbasin: CP

Cross Reference: -

Primary Purpose: PRO

72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

**Primary Status: PMT** PERMIT

Total Acres:

Subfile:

Header: -

**Total Diversion:** 

Cause/Case: -

Owner: CITIES SERVICE OIL COMPANY

**Documents on File** 

Status

From/

1 2 Transaction Desc.

To

Acres Diversion Consumptive

Doc File/Act 473864 72121 1973-10-05

PMT LOG CP 00525

T

**Current Points of Diversion** 

(NAD83 UTM in meters)

POD Number CP 00525

Well Tag Source 64Q16Q4Sec Tws Rng

Shallow 3 2 1 14 20S 28E

X 579656 3604847\* S 940' FNL, 1855' FWL

Other Location Desc

\*An (\*) after northing value indicates 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

3/31/21 9:23 AM WATER RIGHT SUMMARY

#### Item XII – No Hydrologic Connection Statement Geologic Affirmation Attachment 6

#### C-108 Item XII Geologic Affirmation

I have examined available geological 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.

Chris Giese

**Drilling Engineer** 

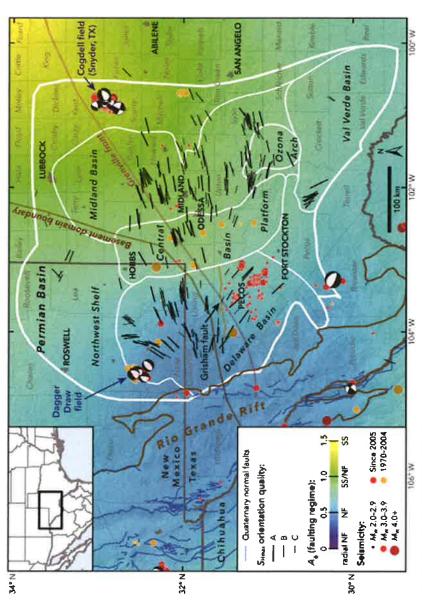
Solaris Water Midstream, LLC

Project: Gobbler Fed SWD #1

#### Item VIII – Geologic Information Attachment 4

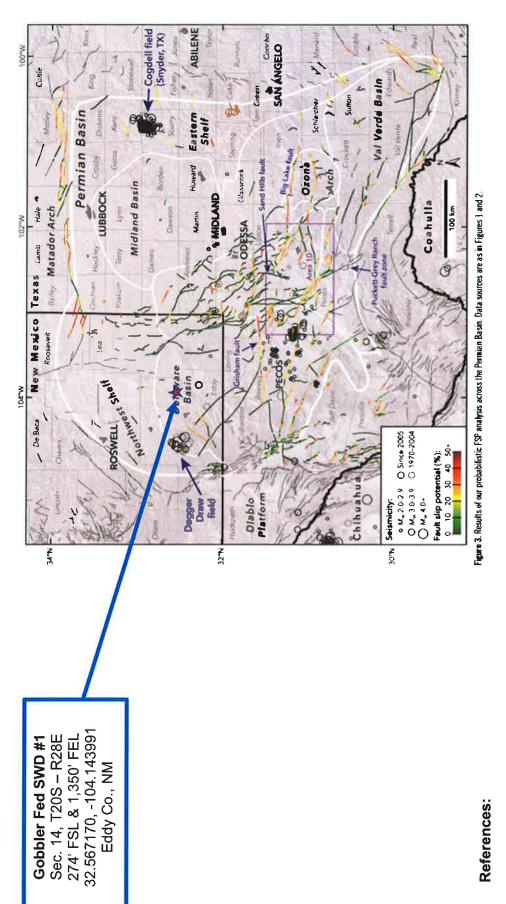
# C-108 Item VIII Geological Data – Earthquake/Seismic Information

ess than a 10% probability of being critically stressed to the point of creating an induced seismicity event. Low probability Based on publicly available data for the subject area, it is reasonable to believe the risk of induced seismic activity due to is due to the relationship of the strike of this fault to the regional Shimax orientation (N 35-45 degrees E) as shown below. The study by Snee and Zoback "State of Stress in the Permian Basin, Texas and New Mexico: Implications for induced using probabilistic FSP (Fault Slip Potential) analysis of know faults in the Permian Basin. The study indicates there is seismicity", was published in the February 2018 edition of the Leading Edge. The strike-slip probability was evaluated disposal injection is low.



colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A<sub>s</sub> 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 Miseeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Georyville Front is from Domas (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. Earthqualess are from the USOS National Earthquake Information Ceater, the TerMet Seismic Maniforing Program, Figure 1. State of stress in the Permian Basin, Tozas and New Mexico. Black lines are the measured orientations of S.... with line langth scaled by data quality. The and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Hermann et al., 2011).

C-108 Item VIII Geological Data – Earthquake/Seismic Information Cont.



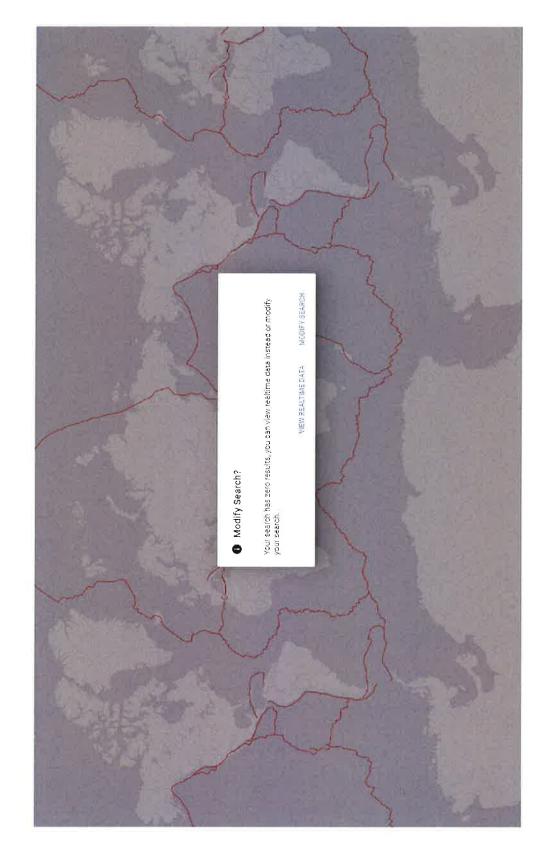
# Jens-Erik Lund Snee and Mark D. Zoback, 2018, State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity: The Leading Edge, February 2018

# C-108 Item VIII Geological Data – Earthquake/Seismic Information Cont.

# Search Earthquake Catalog

Search results are formed to 20,000 events. To get URL for a search, click the search button, then copy the URL from the broncer eddress bar.	ben copy, the USL from the browser eddress ban	
MASS Comparherative Earthquake Catalog (ComCat) Documentation     Developer - Control - Approvaled for the NEIC's ComCat data     Significant Earthquakes Archive	ER and using tools for the NEIC's ComCat data	
Basic Options		
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Geographic Region	Depth (km)	
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Quker Radius (km)	( ) Reviewed	
15		
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Sarhquakes		
Earthquake		

C-108 Item VII Geological Data – Earthquake/Seismic Information Cont.



#### III. WELL DATA

#### A.

#### (1) GENERAL WELL INFORMATION

Operator: Solaris Water Midstream, LLC Well Name: Gobbler Fed SWD #1 Location: Sec. 14, T20S-R28E Footage Call: 274' FSL & 1,350' FEL

#### (2) CASING INFORMATION

See Attachment 1 (Item III – Well Data). (insert from WBD page).

#### (3) TUBING INFORMATION

7" (26#) internal Plastic Coated Liner swedged down to 5.5" (20#) with setting depth of 11,875'.

#### (4) PACKER INFORMATION

Lok-set or equivalent packer set at 11,875'.

В.

#### (1) INJECTION FORMATION NAME

Devonian, Silurian and Fusselman formations.

#### (2) INJECTION INTERVAL

Open-hole injection between 11,900' – 13,400'

#### (3) DRILLING PURPOSE

New drill for Salt Water Disposal.

#### (4) OTHER PERFORATED INTERVALS

No other perforated intervals exist.

#### (5) OVERLAYING OIL AND GAS ZONES

Delaware	2,890'
Bone Spring	5,365'
Wolfcamp	8,870'
Canyon	9,410'
Strawn	10,150'
Atoka	10,400'
Morrow	10,840′

#### **UNDERLYING OIL AND GAS ZONES**

No underlying oil and gas zones exist.

#### V. AOR WELL AND LEASE MAPS

See Attachment 2 (Item V - AOR Well and Lease Maps).

#### VI. AOR TABULATION

See Attachment 2 (Item VI - AOR Tabulation).

#### VII. PROPOSED OPERATION

1. PROPOSED MAXIMUM INJECTION RATE: 50,000 BPD PROPOSED AVERAGE INJECTION RATE: 40,000 BPD

2. OPEN OR CLOSED LOOP SYSTEM: Closed Loop

3. AVERAGE INJECTION PRESSURE: 1,904 psi MAXIMUM INJECTION PRESSURE: 2,380 psi

- SOURCE WATER ANALYSIS: Attached are produced water sample analysis taken from the closest wells. See <u>Attachment 3 (Item VII – Proposed Operation – Source Water Analysis)</u>.
- **5. INJECTION FORMATION WATER ANALYSIS:** No water samples are available from the surrounding area.

#### VIII. GEOLOGIC INFORMATION

The Devonian and Silurian consists of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thing 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 in section 14 and adjacent sections. If the base of Devonian come in as expected the well will only be drilled deep enough for adequate logging rathole.

At the proposed injection interval of 11,900′ – 13,400′ BGL (Below Ground Level) the well will TD approximately 13,400′. Mud logging through the interval will ensure the target interval remains in Devonian and Fusselman. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 11,900′ 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 date 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.

See Attachment 4 (Item VIII - Geologic Information).

#### IX. PROPOSED STIMULATION PROGRAM

50,000 gallon acid job.

#### X. LOGGING AND TEST DATA

Logs will be submitted to the Division upon completion of the well.

#### XI. FRESH GROUNDWATER SAMPLES

Fresh water in the area is generally available from the Rustler formation and some alluvial deposits. State Engineer's records show water wells in the area are usually drilled between 29' and 400' in depth. Water depths range from 10' - 186'.

There is one (1) water well located within one mile of the proposed SWD; a chemical analysis of the fresh water well will be submitted when received.

See Attachment 5 (Item XI – Groundwater).

#### **XII. NO HYDROLOGIC CONNECTION STATEMENT**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and the overlying USDW's. Additionally, the casing program has been designated to ensure there will be no hydrologic connection between the injection interval and overlying USDW's. See **Attachment 6 (Item XII – Geologic Affirmation)**.

#### XIII. PROOF OF NOTICE

A Public Notice was filed with the Artesia Daily PressDela and an affidavit is included in **Attachment 7** (**Item XIII – Proof of Notice**).

A copy of the application was mailed to the OCD District Office, landowner and leasehold operator within the AOR of the proposed SWD location. A list of the receipts, as well as delivery confirmations, are included in *Attachment 7 (Item XIII – Proof of Notice Cont)*.