

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO.:
-----------	-----------	-------	----------

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Applicant:** Solaris Water Midstream, LLC**OGRID Number:** 371643**Well Name:** Ironside SWD #1**API:****Pool:** Proposed: SWD, Devonian-Silurian**Pool Code:** 97869

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

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

A. Location – Spacing Unit – Simultaneous Dedication

NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD

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

[ I ] Commingling – Storage – Measurement

DHC     CTB     PLC     PC     OLS     OLM

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

WFX     PMX     SWD     IPI     EOR     PPR

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

- A.  Offset operators or lease holders
- B.  Royalty, overriding royalty owners, revenue owners
- C.  Application requires published notice
- D.  Notification and/or concurrent approval by SLO
- E.  Notification and/or concurrent approval by BLM
- F.  Surface owner
- G.  For all of the above, proof of notification or publication is attached, and/or,
- H.  No notice required

**FOR OCD ONLY**

- Notice Complete
- Application Content Complete

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

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

Randall Hicks (agent)

Print or Type Name

EXHIBIT 1

SOLARIS  
Case 20812

April 15, 2019

Date

505 238 9515

Phone Number

r@rthicksconsult.com

e-mail Address

Randall Hicks

Digitally signed by Randall Hicks  
Date: 2019.04.24 08:06:19 -08'00'

Signature

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  Disposal  Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: Solaris Water Midstream, LLC
- ADDRESS: 907 Tradewinds Blvd, Suite B, Midland, TX 79706
- CONTACT PARTY: Randall Hicks (Agent) PHONE: 505 238 9515
- 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  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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. 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: Randall Hicks

TITLE: Agent

SIGNATURE: 

DATE: 4/23/2019

E-MAIL ADDRESS: R@rthicksconsult.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.

3

Side 1

## INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME &amp; NUMBER: Ironside SWD #1

WELL LOCATION: 1270 FSL 175 FEL  
FOOTAGE LOCATION

P	32	25S	32E
UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: See Attachments \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Intermediate Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Production Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Injection Interval

feet to \_\_\_\_\_

4

(Perforated or Open Hole; indicate which)

Side 2

**INJECTION WELL DATA SHEET**

Tubing Size: \_\_\_\_\_ See Attachments \_\_\_\_\_ Lining Material: \_\_\_\_\_

Type of Packer: \_\_\_\_\_

Packer Setting Depth: \_\_\_\_\_

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: \_\_\_\_\_ Proposed: SWD, Devonian-Silurian \_\_\_\_\_

3. Name of Field or Pool (if applicable): \_\_\_\_\_

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 \_\_\_\_\_

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_ See Attachments \_\_\_\_\_

5

**DISTRICT I**  
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) 748-1263 Fax: (575) 748-9720

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-8178 Fax: (505) 334-8170

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

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-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number		Pool Code		Pool Name													
Property Code		Property Name				Well Number											
OGRID No.		Operator Name				Elevation											
IRONSIDE STATE SWD																	
SOLARIS WATER MIDSTREAM																	

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	25 S	32 E		1270	SOUTH	175	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
Dedicated Acres	Joint or Infill	Consolidation Code	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

N:398525.6 E:735647.8 (NAD 83)	N:398556.9 E:738318.3 (NAD 83)	N:398579.9 E:740986.9 (NAD 83)
32		
N:395891.4 E:735664.1 (NAD 83)	N:395936.7 E:740994.4 (NAD 83)	SURFACE LOCATION Lat - N 32.083115° Long - W 103.689228° NMSPCE - N 394569.9 E 740823.8 (NAD-83)
N:393253.2 E:735675.2 (NAD 83)	N:393276.7 E:738338.9 (NAD 83)	N:393301.8 E:741002.9 (NAD 83)
175'      1270'      1270'		

**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 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.*

**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 supervision and that the same is true and correct to the best of my belief.*

MARCH 19, 2019  
Date Surveyed  
Signature & Seal of Professional Surveyor

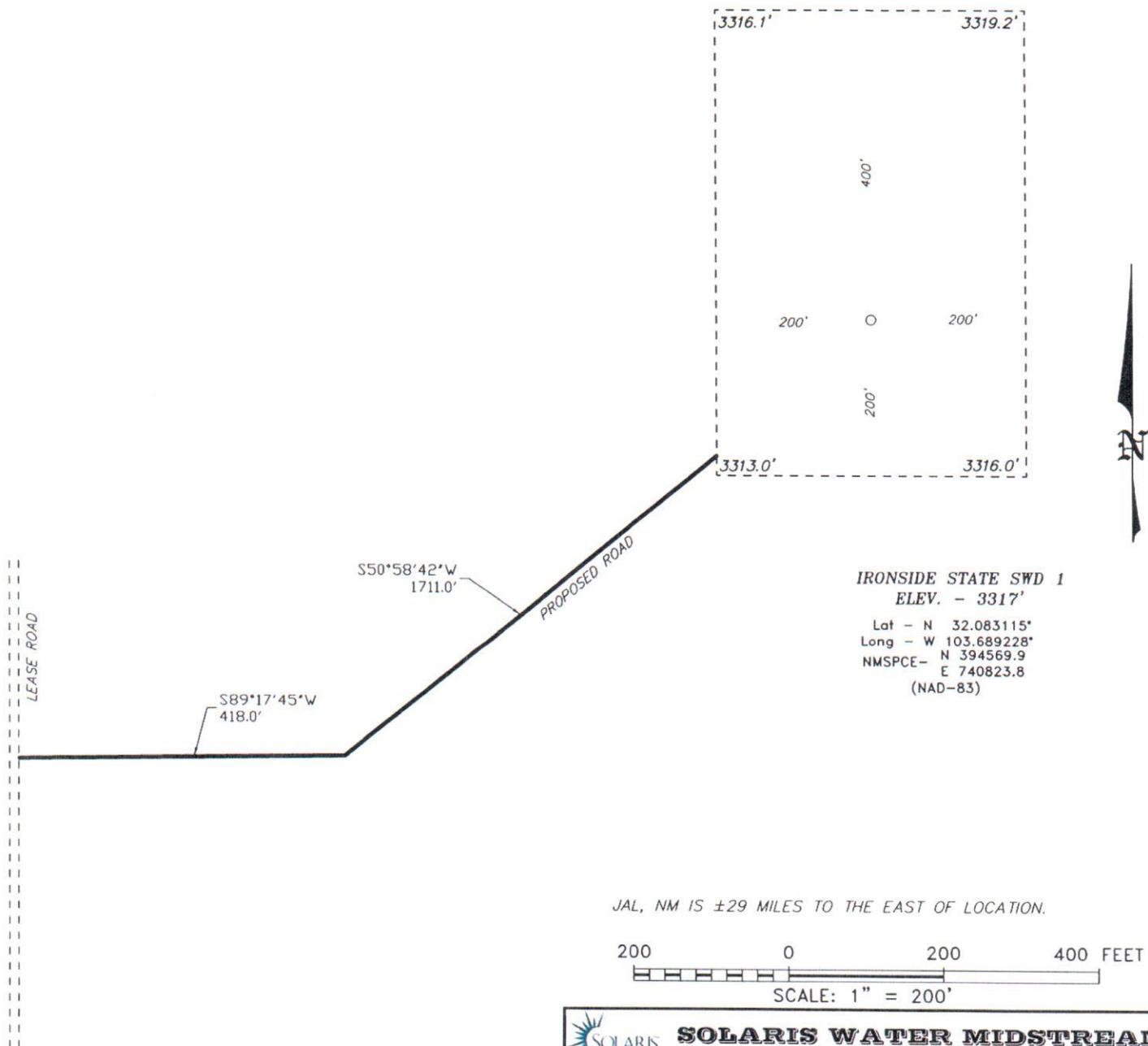


7977

Certificate No. Gary L. Jones 7977  
DASH SURVEYOR

SCALE: 1" = 1000'  
WO Num.: 34390

**SECTION 32 TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.**



200 0 200 400 FEET  
SCALE: 1" = 200'

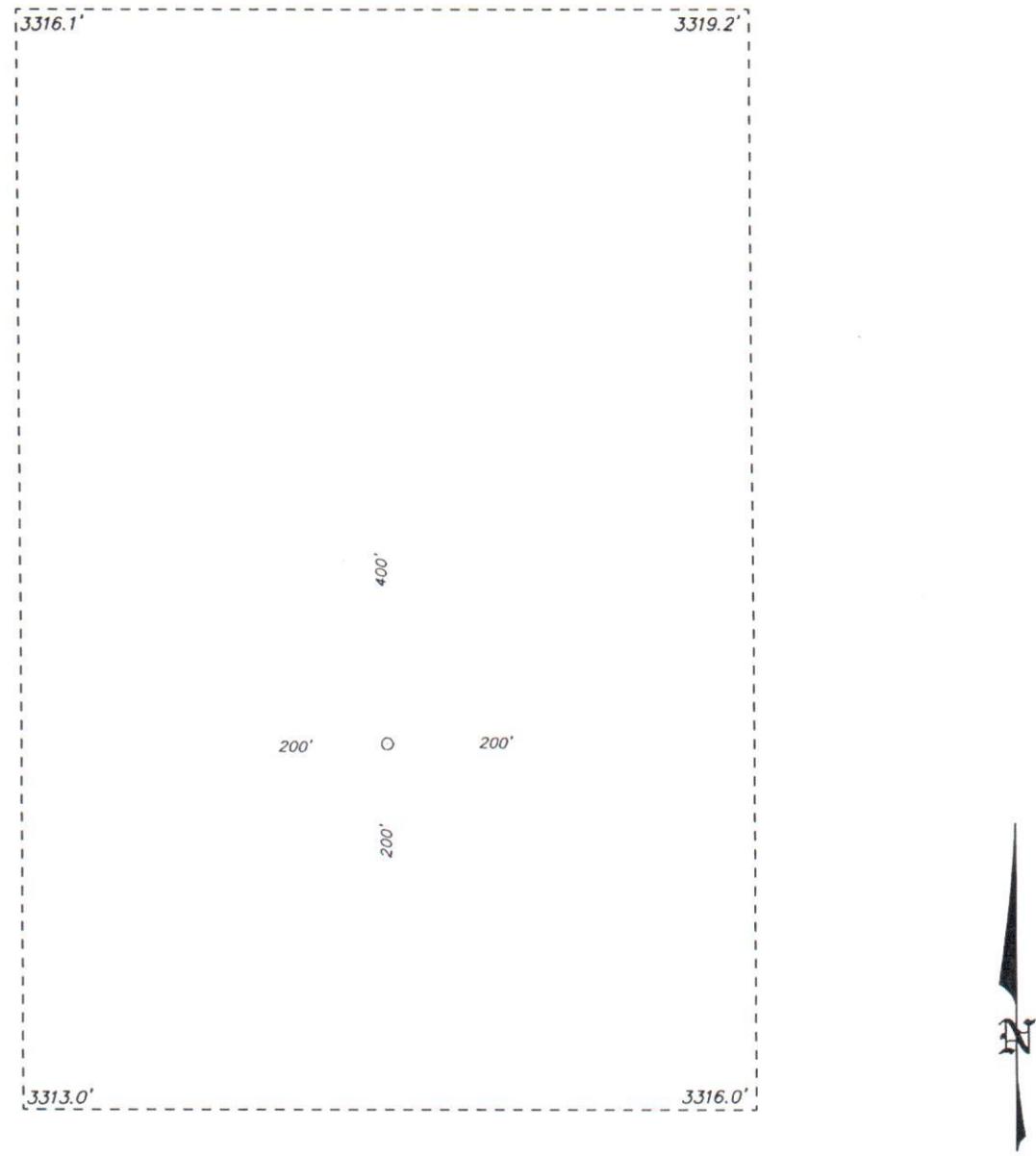


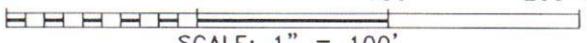
**SOLARIS WATER MIDSTREAM**

REF: IRONSIDE STATE SWD 1 / WELL PAD TOPO

THE IRONSIDE STATE SWD 1 LOCATED 1270' FROM  
THE SOUTH LINE AND 175' FROM THE EAST LINE OF  
SECTION 32, TOWNSHIP 25 SOUTH, RANGE 32 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

**SECTION 32 TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.**



100                    0                    100                    200 FEET  


SCALE: 1" = 100'



**SOLARIS WATER MIDSTREAM**

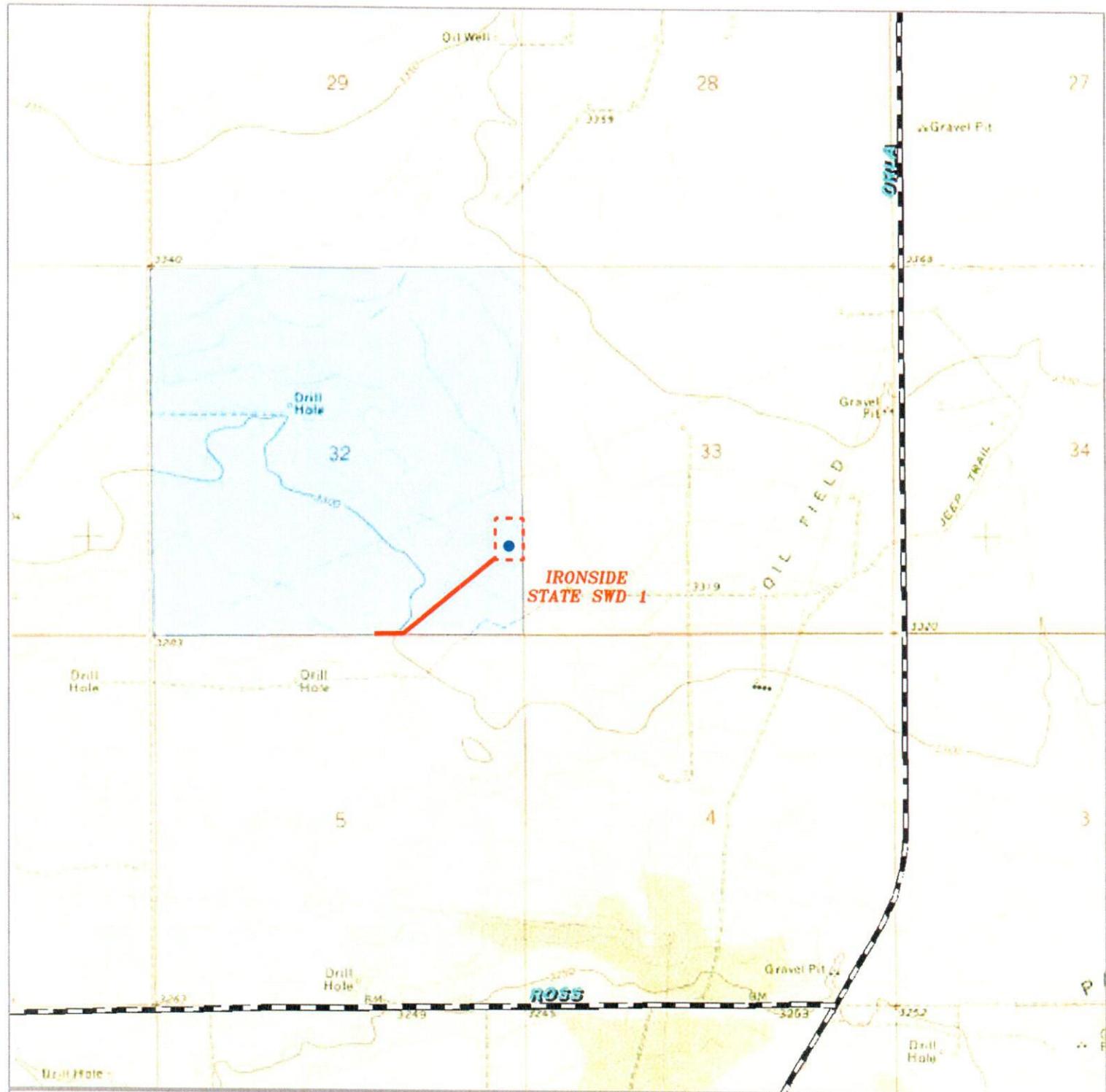
REF: IRONSIDE STATE SWD 1 / WEL# PAD TOPO

THE IRONSIDE STATE SWD 1 LOCATED 1270' FROM  
THE SOUTH LINE AND 175' FROM THE EAST LINE OF  
SECTION 32, TOWNSHIP 25 SOUTH, RANGE 32 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.



P.O. Box 1786                    (575) 393-7316 - Office  
 focused on excellence                    1120 N. West County Rd.                    (575) 392-2206 - Fax  
 in the oilfield                    Hobbs, New Mexico 88241                    basinsurveys.com

W.O. Number: 34390	Drawn By: J GOAD	Date: 3-21-2019	Survey Date: 3-19-2019	Sheet 1 of 1 Sheets
--------------------	------------------	-----------------	------------------------	---------------------



### IRONSIDE STATE SWD 1

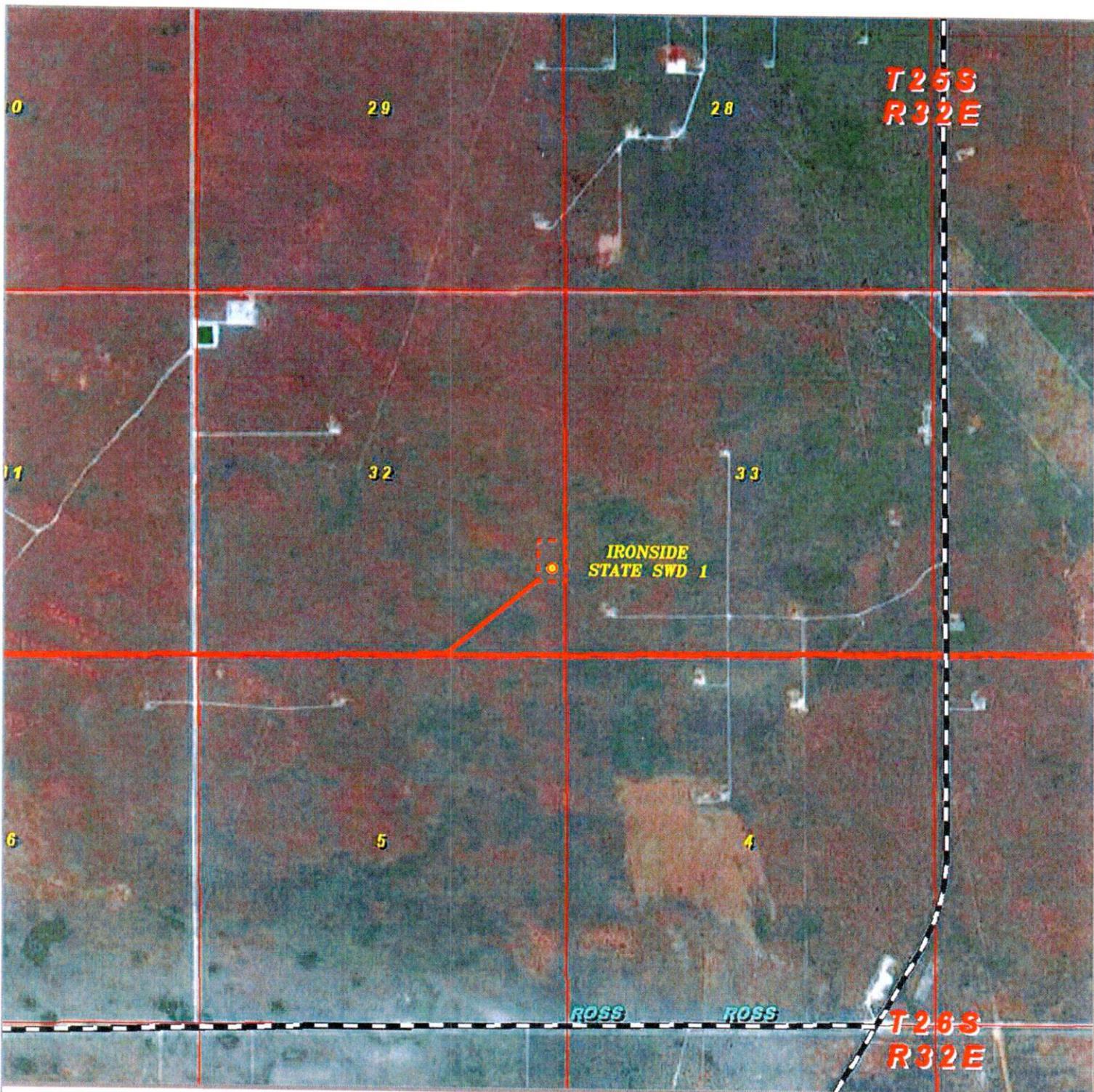
Located 1270' FSL & 175' FEL  
 Section 32, Township 25 South, Range 32 East,  
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
[basinsurveys.com](http://basinsurveys.com)

0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number:	JG - 34390			
Survey Date:	3-19-2019			





### IRONSIDE STATE SWD 1

Located 1270' FSL & 175' FEL  
 Section 32, Township 25 South, Range 32 East,  
 N.M.P.M., Lea County, New Mexico.

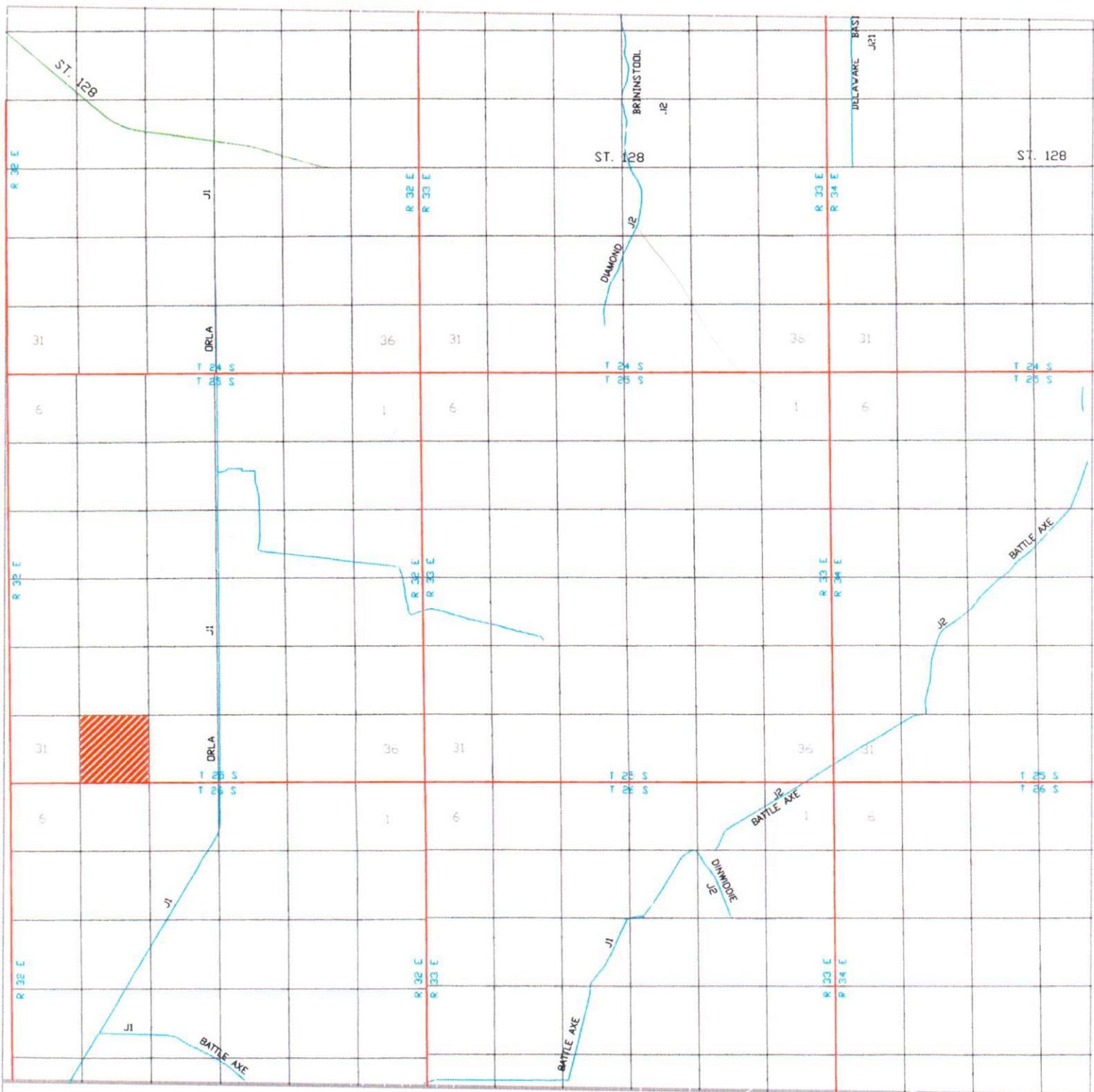


P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
[basinsurveys.com](http://basinsurveys.com)

0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number:	JG -	34390		
Survey Date:	3-19-2019			
YELLOW TINT - USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - FEE LAND				



10



### IRONSIDE STATE SWD 1

Located 1270' FSL & 175' FEL  
 Section 32, Township 25 South, Range 32 East,  
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
[basinsurveys.com](http://basinsurveys.com)

0	1 MI	2 MI	3 MI	4 MI
SCALE: 1" = 2 MILES				
W.O. Number:	JG - 34390			
Survey Date:	3-19-2019			
YELLOW TINT - USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - FEE LAND				



**SECTION 32 TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY,  
NEW MEXICO.**



100        0        100        200 FEET  
 SCALE: 1" = 100'



**SOLARIS WATER MIDSTREAM**

REF: IRONSIDE STATE SWD 1 / CUT & FILL

THE IRONSIDE STATE SWD 1 LOCATED 1270' FROM  
THE SOUTH LINE AND 175' FROM THE EAST LINE OF  
SECTION 32, TOWNSHIP 25 SOUTH, RANGE 32 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

**Basin Surveys**  
 focused on excellence in the oilfield  
 P.O. Box 1786                              (575) 393-7316 – Office  
 1120 N. West County Rd.                      (575) 392-2206 – Fax  
 Hobbs, New Mexico 88241                      basinsurveys.com

W.O. Number: 34390	Drawn By: J GOAD	Date: 3-21-2019	Survey Date: 3-19-2019	Sheet 1 of 1 Sheets
--------------------	------------------	-----------------	------------------------	---------------------

## Attachments to C-108

---

Copy of well bore diagram

Section III-XII Written descriptions to supplement C-108

Plates referenced in written descriptions

Tables referenced in written descriptions

OSE well logs referenced in written descriptions

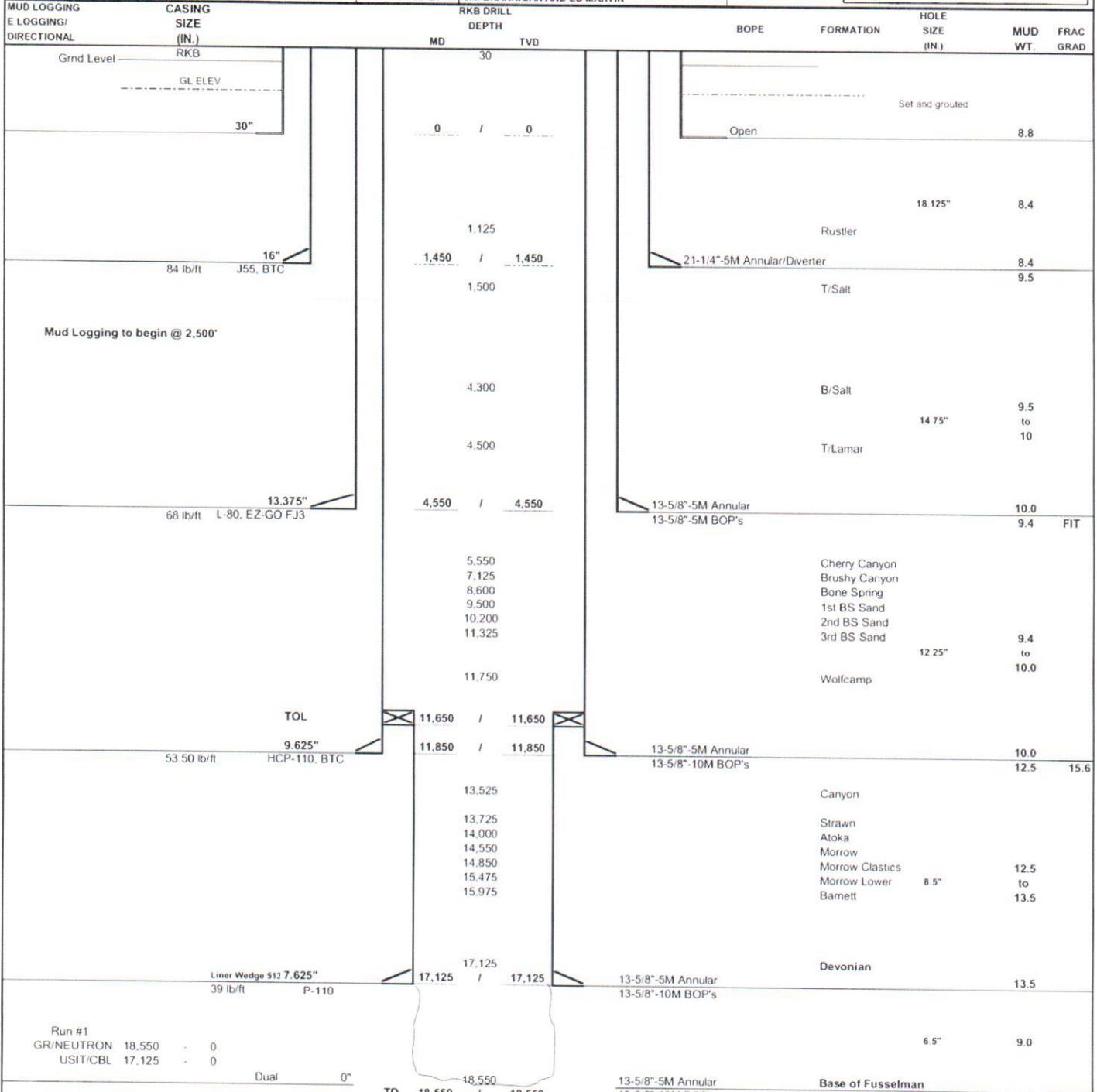
Section XIII Proof of Notice

## SOLARIS WATER MIDSTREAM - WELLBORE DATA SHEET

Ironside State SWD #1

AREA/SYSTEM:	Pecos Star System
WELL NAME:	Ironside State SWD #1
OBJECTIVE:	Devonian
SHL:	1270' FSL & 175' FEL
BHL:	Same as SHL
SURFACE ELEV.:	3317
TOTAL DEPTH:	18,550'
WELL DESIGN BY	CHRIS GIESE

REVIEWED BY JIM BRANNIGAN AND ED MARTIN



Casing Set Depths/ Cement

					Setting Depth			
Conductor = 120'	Hole Size	Casing Size	Casing Grade	Casing Weight	TOP	Bottom	Sacks of Cement	TOC
Surface	18.125"	16"	J55, BTC	84 lb/ft	0	1450	3,343	Surface
1st Intermediate	14.75"	13.375"	L-80, EZ-GO FJ3	68 lb/ft	0	4550	2,742	Surface
2nd Intermediate	12.25"	9.625"	HCP-110, BTC	53.50 lb/ft	0	11850	2,829	Surface
Liner Wedge 513	8.5"	7.625"	P-110	39 lb/ft	11650	17125	223	Liner Top
Openhole	6.5"				17125	18550		

### 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**

Lease Name: Ironside SWD #1

Property Code		Property Name IRONSIDE STATE SWD						Well Number 1	
OGRID No.		Operator Name SOLARIS WATER MIDSTREAM						Elevation 3317'	
Surface Location									
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the North/South line	North/South line	Feet from the East/West line	East/West line	County
P	32	25 S	32 E		1270	SOUTH	175	EAST	LEA

**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**

The attached Wellbore Data Sheet provides all of the design specifics required and a tabulation of these data are shown on the diagram...

The formation tops were established by Jim Brannigan, R.G. CPG. Tops below the 2nd Bone Spring Sand were picked using intervals from wells with e-logs or the NMOCD Form C-105. The upper section was picked by using the Yates Petroleum Corp. #1 H Jefe BSJ Fed. Com. In Section 32-T25S-R32E. The result of the evaluation of Mr. Brannigan is presented to the right.

**3. A description of the tubing to be used including its size, lining material, and setting depth**

5-1/2" (20#) internal plastic coated tubing swaged down to 5" (18#) with setting depth of 17,025'

**4. The name, model, and setting depth of the packer used or a description of any other seal system or assembly used**

Halliburton BWS or equivalent packer set at 17,025'.

Formation	GL	3317
Tops	KB	3347
	SS	TVD
Rustler	2222	1125
T/Salt	1847	1500
B/Salt	-953	4300
T/Lamar	-1153	4500
<b>Bell Canyon</b>	-1178	4525
Cherry Canyon	-2203	5550
Brushy Canyon	-3778	7125
Bone Spring	-5253	8600
1st BS Sand	-6153	9500
2nd BS Sand	-6853	10200
3rd BS Sand	-7978	11325
<b>Wolfcamp</b>	-8403	11750
Canyon	-10178	13525
Strawn	-10378	13725
Atoka	-10653	14000
Morrow	-11203	14550
Morrow Clastics	-11503	14850
Morrow Lower	-12128	15475
Barnett	-12628	15975
Miss LS	-12828	16175
Woodford		
<b>Devonian</b>	-13778	17125
Fusselman		
T/Montoya	-15403	18750
<b>Injection Interval</b>	<b>17125</b>	<b>18550</b>
<b>TD</b>		<b>18550</b>

15

**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**

The proposed injection intervals include both the Devonian and Fusselman and the top 100' of The Montoya in an open-hole interval.

**(2) The injection interval and whether it is perforated or open-hole.**

The depth interval of the open-hole injection interval is 17,125-18,550 (1,425 feet).

**(3) State if the well was drilled for injection or, if not, the original purpose of the well.**

The well will be drilled for disposal.

**(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**

There are no perforated intervals, only the open-hole completion described above.

**(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.**

Overlying Oil and Gas Zones:

Delaware (4,500')  
Bone Spring (8,575')  
Wolfcamp (11,725')  
Canyon (13,500')  
Strawn (13,700')  
Atoka (13,975')  
Morrow (14,825')

Underlying Oil and Gas Zones:

No underlying oil and gas zones exist.

**IV. Is this an expansion of an existing project**

No.

**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**

Plate 1 identifies all OCD listed wells and API numbers. Note that where numerous wells are closely-spaced, the API number may not be labeled for clarity. Table 1 lists all of these wells within the 2-mile area of review.

Plate 2 shows all of the leases and the leaseholder name within the 2-mile area of review. Tabular listing of all mapped leases are presented in

Table 2a      BLM leases

Table 2b      State of NM leases

Note that Plate 1 shows one apparent BLM lease on private land. This single parcel is the only private land within the area of review. Information on this parcel is presented below.

UPC	TWP	RNG	SECTION	Parcel Code	Number	Name	Address	City	State	Zip Code	Zip Ext
4186151686338	26	32	06		4950302104125	203021	BAKER, JESSE T PO BOX 24	SILVER CITY NM	88062	0024	

**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**

One well is either several hundred feet inside or a similar distance outside the area of review, based upon examination of several maps. This well is:

* Operator Name and Address MESQUITE SWD INC PO BOX 1479 CARLSBAD NM, 88221					✓	OGRID Number 161968				
						* API Number 30-025-43379				
* Property Code 316377	✓	* Property Name PADUCA 6 SWD			✓	* Well No 001Y				
<b>* Surface Location</b>										
UL - Lot E 2	Section 6	Township 26S	Range 32E	Lot Idn	Feet from 2650	N/S Line S	Feet From 1175	E/W Line W	County LEA	✓

All information on this well can be downloaded from  
<http://ocdimage.emnrd.state.nm.us/imaging/WellFileView.aspx?RefType=WF&RefID=30025433790000>.

Data on this well are highlighted in Table 1 and form C-105 follows this text.

## VII. Attach data on the proposed operation, including:

### **1. Proposed average and maximum daily rate and volume of fluids to be injected**

Proposed Maximum Injection Rate: 40,000 bbl/day  
Proposed Average Injection Rate: 30,000 bbl/day

### **2. Whether the system is open or closed**

This will be an open system. All Solaris SWDs may receive produced water from recycling storage facilities, such as in-ground containments or above-ground steel-walled containments, which are registered or permitted under Rule 34.

### **3. Proposed average and maximum injection pressure**

Proposed Maximum Injection Pressure: 4,081 psi  
Proposed Average Injection Rate: 2,800 psi

### **4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water**

The attached Table 3 "Produced Water Chemistry of Nearby Wells" provides the requisite analyses. The Bone Springs and Avalon Formations are the subjects of most of the analyses. These formations, in addition to the Wolfcamp, will provide most of the produced water to the proposed SWD. At the time of writing, we are unaware of any problems associated with disposal of produced water derived from the Bone Springs, Avalon and Wolfcamp into the Devonian injection zone.

### **5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).**

Table 4 presents formational water quality data from the Go-Tech site for Devonian-producing wells. The closest wells represented in Table 4 are more than 30 miles to the east. The value of these data for the purpose of evaluating potential problems relating to the injections of produced water into the proposed injection interval is probably poor. As stated above, we are unaware of any problems associated with disposal of produced water derived from the Bone Springs, Avalon and Wolfcamp into the Devonian injection zone.

**\*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth.**

The proposed injection intervals include both the Devonian and Fusselman and the top 100' of The Montoya in an open-hole interval. The highly cemented carbonate nature of the Devonian and Fusselman indicate that favorable open-hole integrity will exist, allowing for the saltwater to be injected without concern of collapse in the open-hole injection interval.

As indicated in Section III.A.2, the approximate depth to the top of the Devonian and Montoya are 17,125 and 18,750 respectively. The depth interval of the injection interval is 17,125-18,550 (1,425 feet).

***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.***

The Rustler Formation and the Chinle Formation yield water to supply wells in southeastern Eddy County and southwestern Lea County. In the area of the Ironside SWD, the Chinle yields water to wells from 100-200 feet below the ground surface to a depth of about 600 feet. The upper portion of the Rustler Formation yields fresh water to wells in Eddy County and in the area of the Ironside SWD, the depth interval of this potential source of fresh water is about 1125-1400.

The locations of all water supply wells listed in public databases are shown in Plate 3. The USGS database identified two wells about 1 mile southeast of the proposed SWD. Our examination of Google Earth images found no evidence of water supply wells at these locations. We conducted a ground survey of the area was April 17, 2019 and found several water troughs and evidence of water pipelines, but there is no evidence of the USGS wells shown on Plate 3. These wells are mis-located on the USGS database.

Two water well driller's logs are attached to this response and show the following relationships that will also exist in the area of the proposed Ironside SWD.

- Well C-4209 shows
  - groundwater was first encountered at a depth of 155 feet
  - red clay that did not yield water was penetrated at a depth of 350 feet
  - the nearly 200-foot water-bearing zone can produce at a rate of about 25 GPM
- Well C-4256 shows
  - Groundwater was first encountered at a depth of 340 feet
  - The red and tan sand logged from the depth interval 85-290 feet is probably the same unit that yielded water to well C-4209

- The red and blue clay logged from 290-330 feet below ground is probably the red clay observed in well C-4209
- The red and blue siltstone, sandstone and gravel logged from a depth of 330 to 610 are probably a mix of sandstones and siltstones that characterize the Chinle. Alternatively, the lower sandstones could be considered the Santa Rosa Sandstone horizon of the Chinle, which is the basal unit
- The variegated clay encountered from 610-690 may be the underlying Quartermaster Formation (AKA Dewey Lake)

In the area of the Ironside SWD, the depth interval of the Rustler is 1125-1500, according to the BLM and OCD and, we agree with this assessment. Thus, no water supply wells in the arear of the Ironside SWD penetrate the Rustler. The bottom of the Rustler Formation is characterized by evaporates (anhydrite) and is not considered an underground source of drinking water. Thus, in this area, surface casing required by OCD to prevent impairment of fresh water runs from ground surface to a depth of 1450 feet at the proposed Ironside SWD.

#### **IX. Describe the proposed stimulation program, if any**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

#### **\*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)**

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

#### **\*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**

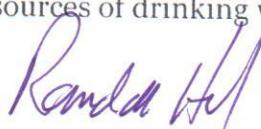
No active water supply wells were identified within one mile of the proposed SWD. Data from various sources permit a conclusion that groundwater within the Chinle Formation is potable.

20

## 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

Randall T. Hicks, a Professional Geologist with decades of experience in hydrogeology, affirms, on behalf of Solaris Water Midstream, that

- The USGS has mapped quaternary faults in New Mexico and no such faults are mapped in the area of the proposed Ironside State SWD <sup>1</sup>
- The Texas Bureau of Economic Geology has mapped older faults (e.g. basement and Woodford) in New Mexico and the closest mapped fault is more than 11 miles to the east<sup>2</sup>
- With respect to migration of produced water from the injection zone to underground sources of drinking water via faults or other natural conduits, the following conditions were considered
  - The lowest underground source of drinking water is the middle and upper Rustler Formation. Within the area shown in Plate 3, several wells are thought to draw water from the Rustler (e.g. USGS-9141)
  - Wells in the USGS database are sometimes mis-located and examination of Google Earth images did not identify any evidence of wells in the area where the two USGS wells are shown southwest of the Ironside SWD location. A ground survey of the area identified water trough and water pipelines near the area of the USGS wells was conducted on April 17, 2019 and did not identify any evidence of the mapped USGS wells shown on Plate 3.
  - More than 15,000 feet of sedimentary rock separates the bottom of the Rustler Formation and the top of the injection zone. Many of the formations that lie between the injection zone and the lowermost aquifer are permeable and contain oil, gas or water at various pressures. Any excursion of injected fluids from the Devonian disposal zone would undoubtedly enter these permeable formations prior to moving through the 2800-foot low-permeability salt zone that underlies the Rustler Formation.
  - There is no evidence that the pressure regime in the oil and gas reservoirs is sufficient to cause the upward migration of formation water through the bedded salt and into the Rustler or Chinle aquifers.
- There is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water



<sup>1</sup> <https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9boaadf88412fcf>

<sup>2</sup> Bureau of Economic Geology (Accessed April 2019). University of Texas at Austin. Basement Faults (Ewing 1990, Tectonic Map of Texas); Precambrian Faults (Frenzel et al. 1988, Figure 6); Woodord Faults (Comer 1991, plate 1). [Http://www.beg.utexas.edu/resprog/permianbasin/gis.htm](http://www.beg.utexas.edu/resprog/permianbasin/gis.htm)

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised August 1, 2011							
				1. WELL API NO. <b>30-025-43379</b>							
				2. Type of Lease <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN							
				3. State Oil & Gas Lease No.							
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>											
4. Reason for filing: <input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)											
5. Lease Name or Unit Agreement Name <b>PADUCA 6 SWD</b>											
6. Well Number: <b>1Y</b>											
7. Type of Completion: <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER											
8. Name of Operator <b>MESQUITE SWD, INC.</b>											
9. OGRID <b>161968</b>											
10. Address of Operator <b>PO BOX 1479 CARLSBAD NM 88221</b>											
11. Pool name or Wildcat <b>[96101] SWD;DEVONIAN</b>											
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	E	6	26S	32E	2	2650	S	1175	W	LEA	
BH:											
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released			16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)			
<b>08/01/2016</b>	<b>03/04/2017</b>	<b>04/11/2017</b>			<b>04/09/2017</b>			<b>3285' GR</b>			
18. Total Measured Depth of Well <b>18881'</b>			19. Plug Back Measured Depth <b>18881'</b>			20. Was Directional Survey Made? <b>No</b>			21. Type Electric and Other Logs Run <b>Comp GR/Borehole Profile/CBL</b>		
22. Producing Interval(s), of this completion - Top, Bottom, Name <b>17310' – 18881' (OH) Devonian</b>											
23. <b>CASING RECORD (Report all strings set in well)</b>											
Casing Size		Weight lb./ft.	Depth Set	Hole Size	Cementing Record			Amount Pulled			
<b>20"</b>		<b>94#</b>	<b>950'</b>	<b>26"</b>	<b>1730 sx</b>			<b>0</b>			
<b>13 3/8"</b>		<b>68#</b>	<b>4329'</b>	<b>17 1/2"</b>	<b>2570 sx</b>			<b>0</b>			
<b>*9 5/8"</b>		<b>53.5#</b>	<b>11930'</b>	<b>12 1/4"</b>	<b>2860 sx</b>			<b>0</b>			
*Cmt retainer set @ 11668' w/50 sx cmt on top. Milled window 11605-11627', Drid out w/ 8 1/2" bit to 17310'. Drid 6 1/2" hole to 18881'. TD.											
24. <b>LINER RECORD</b>						25. <b>TUBING RECORD</b>					
Size	Top	Bottom	Sacks Cement	Screen	Size	Depth Set	Packer Set				
<b>7 5/8"</b>	<b>10365'</b>	<b>17310'</b>	<b>2120 sx</b>		<b>4 1/2"</b>	<b>17329'</b>	<b>17284'</b>				
					<b>5 1/2"</b>	<b>9926'</b>					
26. Perforation record (interval, size, and number) <b>17310' – 18881' Open Hole</b>						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED					
28. <b>PRODUCTION</b>											
Date First Production		Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )					Well Status ( <i>Prod. or Shut-in</i> )				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio				
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)					
29. Disposition of Gas ( <i>Sold, used for fuel, vented, etc.</i> )						30. Test Witnessed By					
31. List Attachments											
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.											
33. If an on-site burial was used at the well, report the exact location of the on-site burial:											
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Signature <u>Melanie J. Wilson</u> Name <u>Melanie J. Wilson</u> Title <u>Regulatory Analyst</u> Date <u>05/15/2017</u>											
E-mail Address <u>mjp1692@gmail.com</u>											

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn 14056'	T. Kirtland	T. Penn. "B"
B. Salt 4195'	T. Atoka 14191'	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss 16860'	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian 17302'	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya 18854'	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 9416'	T. Todilto	
T. Abo	T. Morrow 14956'	T. Entrada	
T. Wolfcamp 11852'	T. Barnett 16342'	T. Wingate	
T. Penn		T. Chinle	
T. Cisco (Bough C)		T. Permian	

## OIL OR GAS SANDS OR ZONES

No. 1, from..... to.....  
 No. 2, from..... to.....

No. 3, from..... to.....  
 No. 4, from..... to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.....  
 No. 2, from..... to..... feet.....  
 No. 3, from..... to..... feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

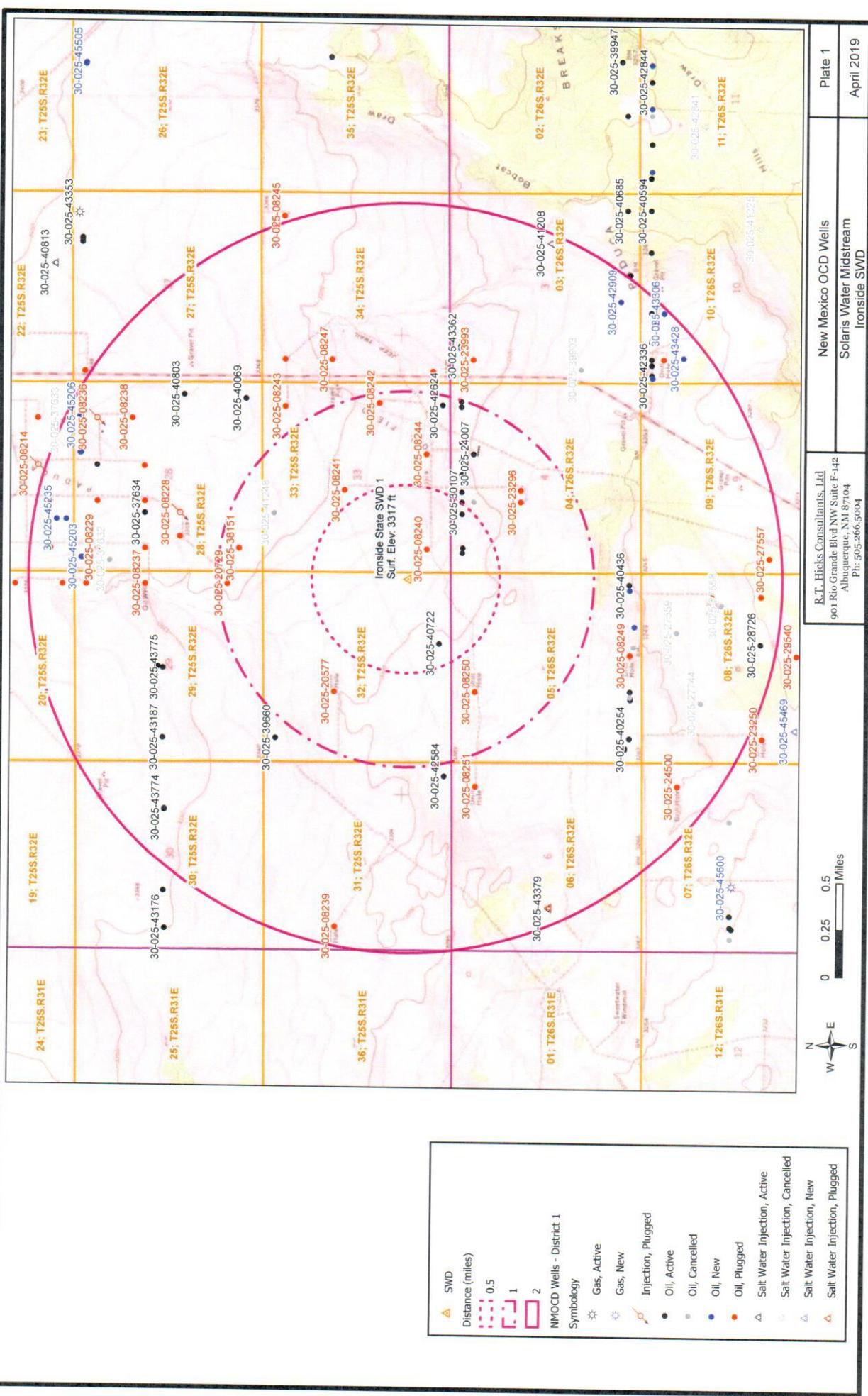
From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

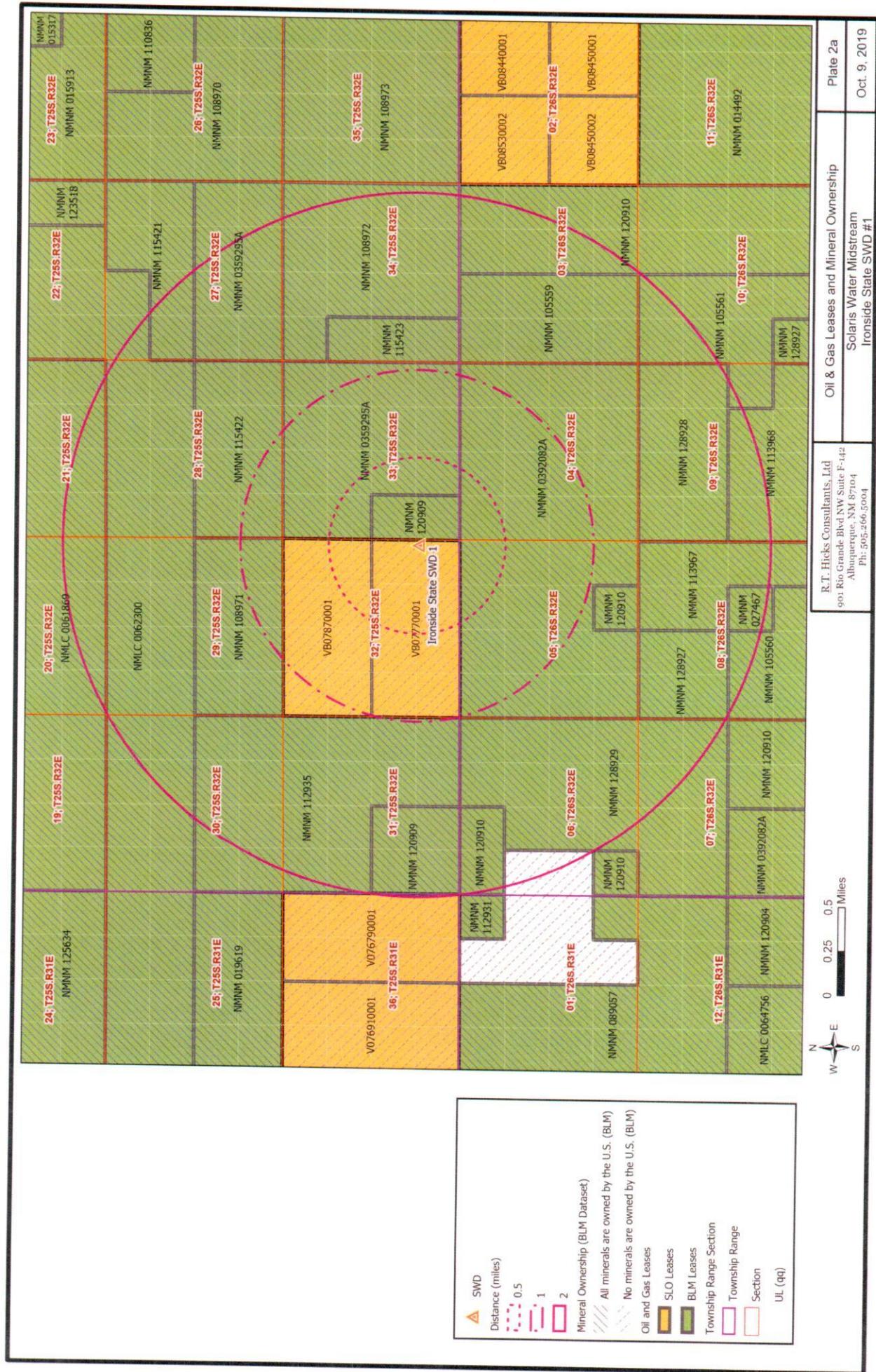
## Plates

---

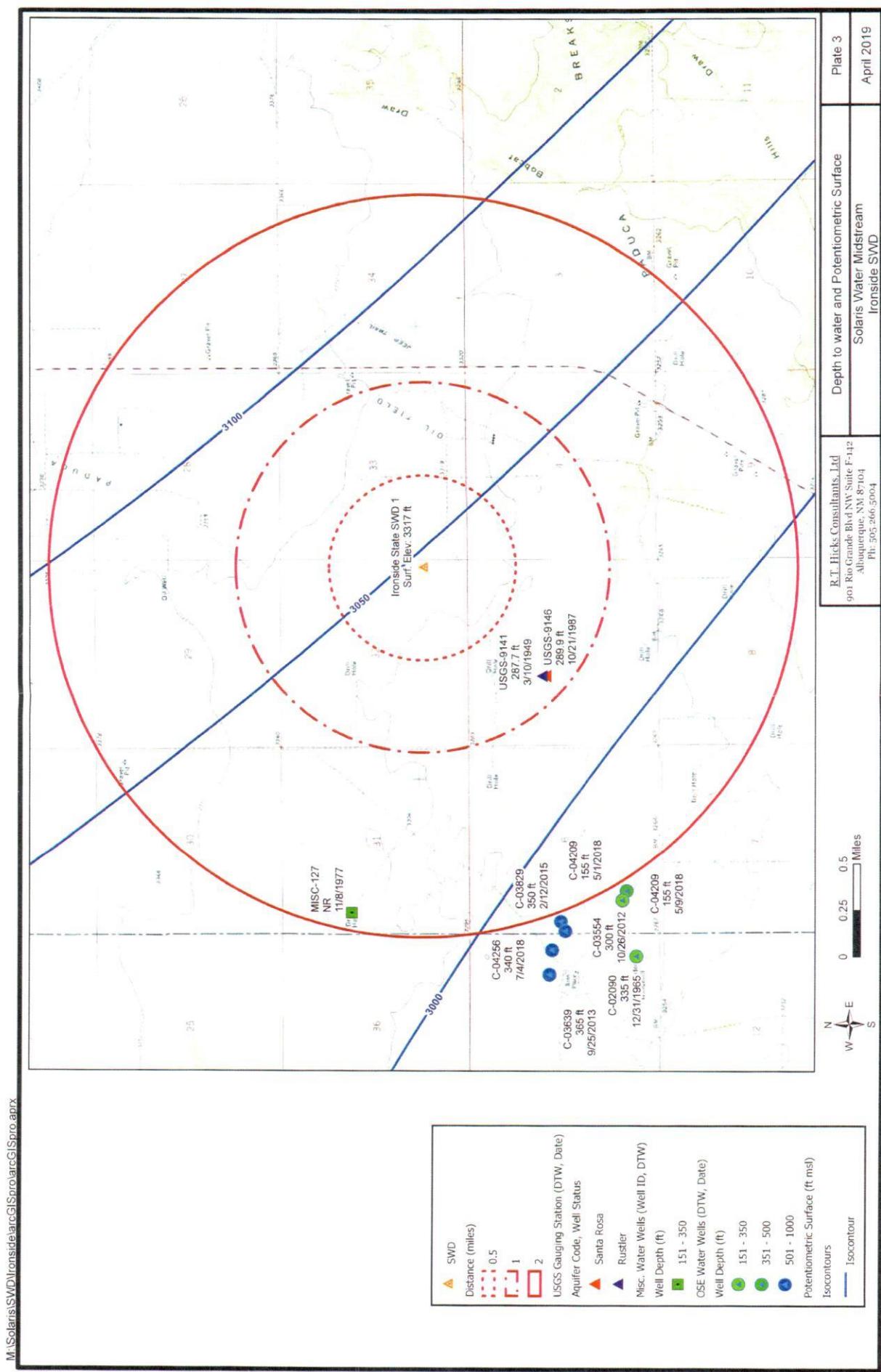
- Plate 1      OCD wells within the area of review
- Plate 2      Mineral leases within the area of review
- Plate 3      Water supply wells within the area of review

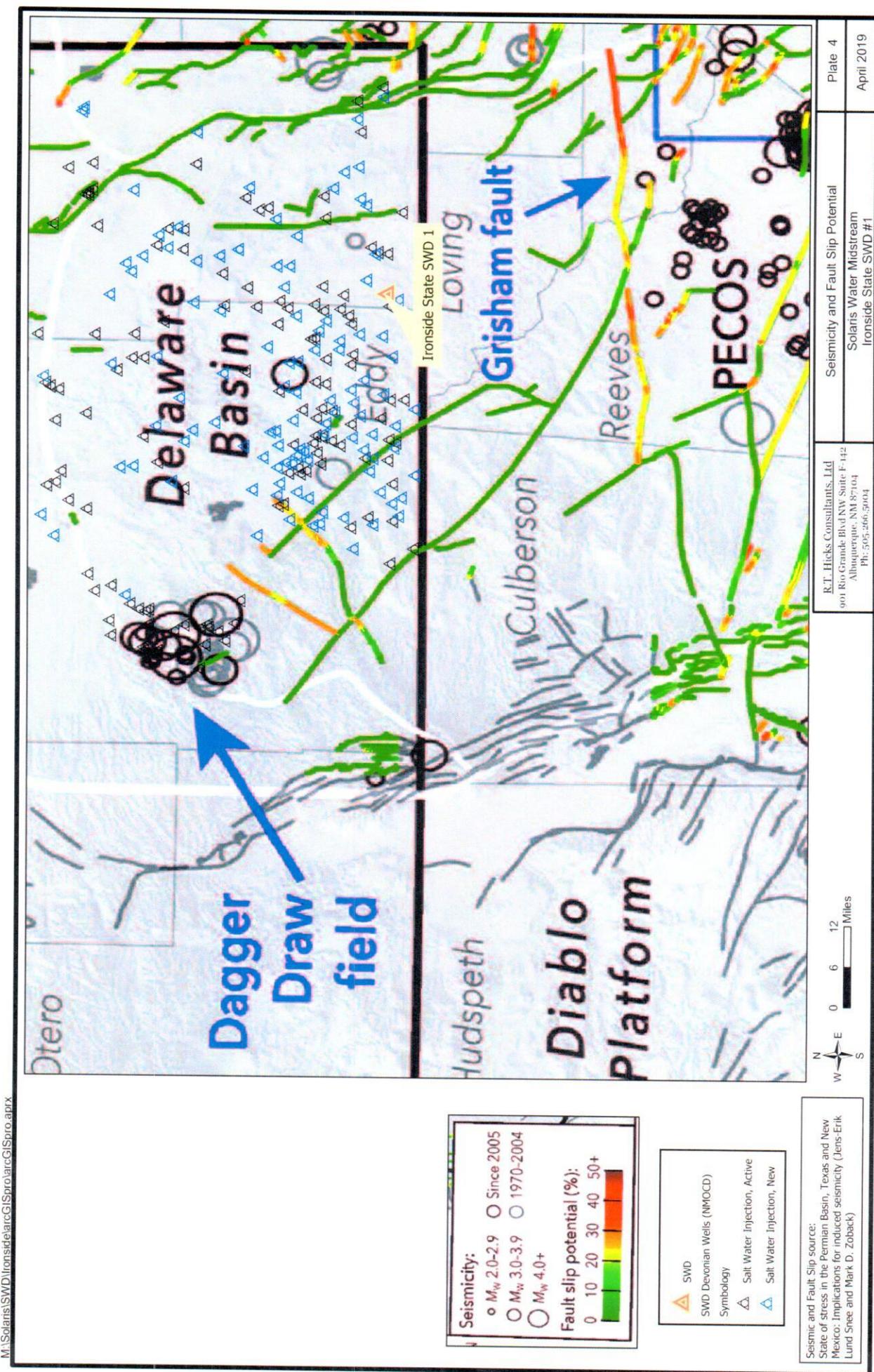
24

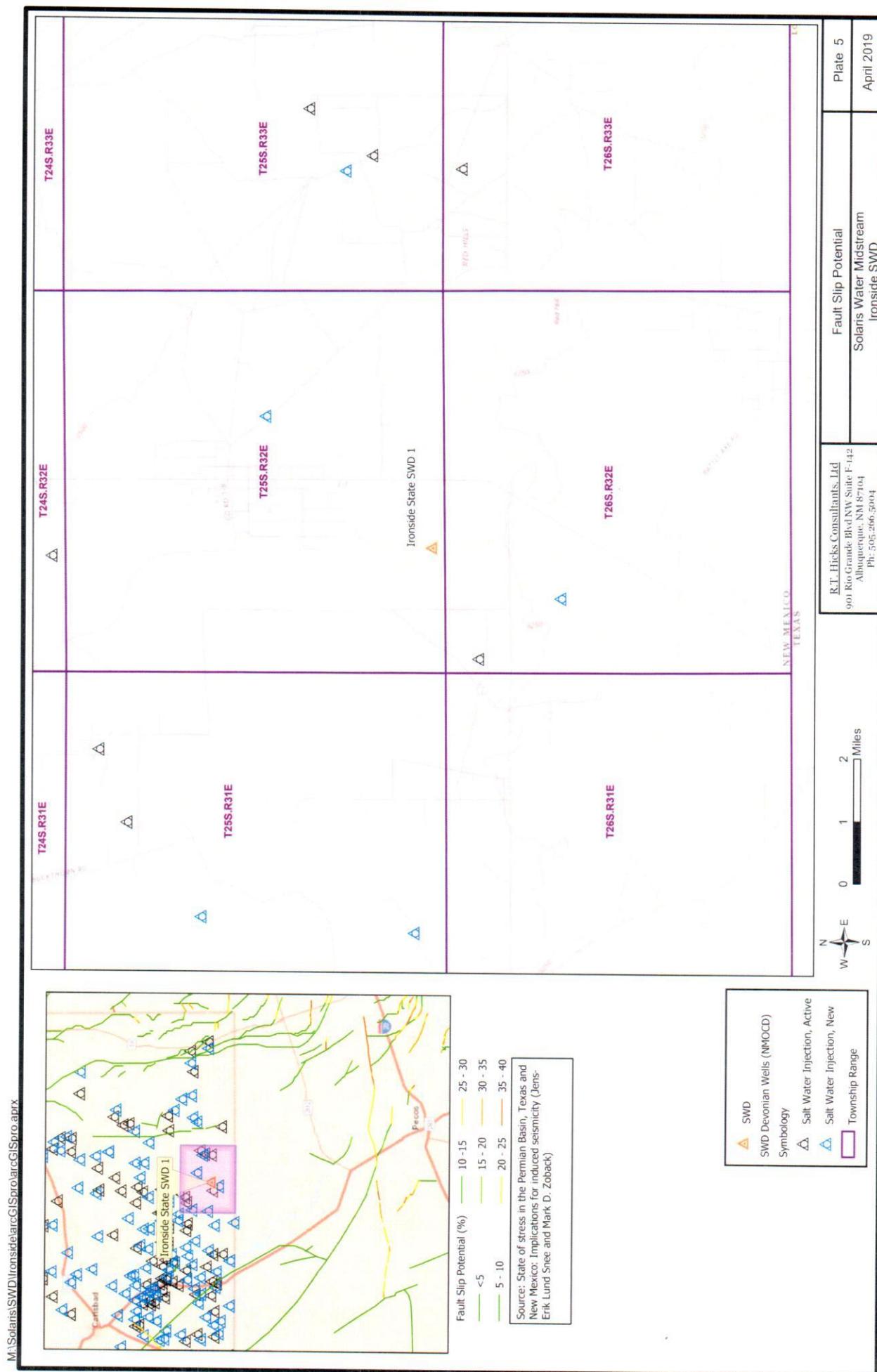












## Tables

---

- |          |   |
|----------|---|
| Table 1  | OCD wells within the area of review             |
| Table 2a | BLM leases within the area of review            |
| Table 2b | State leases within the area of review          |
| Table 3  | Produced Water Chemistry of Nearby Wells        |
| Table 4  | Available Devonian formation water quality data |

29



Table 1 - NIMOC Wells within 2-miles of Ironside State SWD #1

API	Well Name	Effective Date	APR Date	Latitude	Longitude	District	Pool ID
30-025-08232 COTTON DRAW UNIT #051		6/3/2015	1/1/1900	32.1068764	-103.6789322	1. [49460] PADUCA, DELAWARE	
30-025-24007 UNION FEDERAL #002		10/25/2012	1/1/1900	32.0788858	-103.677883	1. [34010] JENNINGS, DELAWARE	
30-025-28726 ANOCO FEDERAL #002		4/4/2004	10/1/1984	32.0557795	-103.695076	1. [4859] IMASON, DELAWARE, NORTH	
30-025-30107 UNION B FEDERAL #001		3/1/1997	1/1/1988	32.0787811	-103.682251	1. [34010] JENNINGS, DELAWARE	
30-025-37634 COTTON DRAW UNIT #101		6/3/2015	1/5/2006	32.1032295	-103.6833191	1. [49460] PADUCA, DELAWARE	
30-025-39660 PRESIDENTE BPD STATE COM #001H		1/16/2019	2/4/2010	32.0931968	-103.7037125	1. [96403] WILDCAT, BONE SPRING; [97838] JENNINGS, UPPER BONE SPRING SHALE; [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-39911 RED HILLS WEST UNIT #002H		12/1/2012	9/14/2010	32.0641365	-103.6650009	1. [96403] WILDCAT, BONE SPRING; [97838] JENNINGS, UPPER BONE SPRING SHALE; [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40069 SOL 28 FEDERAL #001H		12/1/2011	2/16/2011	32.0954285	-103.67728316	1. [96403] WILDCAT, BONE SPRING; [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-40254 HALLETTAU 5 FEDERAL #004H		8/23/2011	8/23/2011	32.0658951	-103.6736896	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-40436 HALLETTAU 5 FEDERAL #001H		12/14/2011	12/14/2011	32.0658798	-103.6898673	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40455 HALLETTAU 5 FEDERAL #003H		2/21/2012	2/21/2012	32.0658931	-103.69943248	1. [97838] JENNINGS, UPPER BONE SPRING SHALE; [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-40474 HALLETTAU 4 FEDERAL #003H		2/28/2012	2/28/2012	32.0787964	-103.6784668	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40475 HALLETTAU 4 FEDERAL #004H		2/28/2012	2/28/2012	32.0788116	-103.6735611	1. [97838] JENNINGS, UPPER BONE SPRING SHALE; [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40476 HALLETTAU 4 FEDERAL #007H		2/28/2012	2/28/2012	32.0788216	-103.6767578	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40477 HALLETTAU 4 FEDERAL #008H		2/28/2012	2/28/2012	32.0788116	-103.67370728	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-40687 RED HILLS WEST UNIT #004H		12/1/2012	7/12/2012	32.0638313	-103.6657257	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-40722 JEFF BS FEDERAL COM #001H		1/16/2019	8/10/2012	32.080555	-103.6953378	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-40833 SOL 28 FEDERAL #002H		9/28/2012	9/28/2012	32.1001587	-103.6725082	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41052 HALLETTAU 4 FEDERAL #005H		3/15/2013	3/15/2013	32.0787241	-103.6866385	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-41059 HALLETTAU 4 FEDERAL #001H		3/15/2013	3/15/2013	32.0787659	-103.6868362	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41119 HALLETTAU 4 FEDERAL #002H		3/15/2013	3/15/2013	32.0787773	-103.68331315	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41136 HALLETTAU 4 FEDERAL #005H		4/19/2013	4/19/2013	32.0641212	-103.6697845	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41208 PINTAIL 3 FEDERAL SWD #001		7/16/2013	6/5/2013	32.0719331	-103.6587219	1. [97003] SWD, CHERRY CANYON	
30-025-41628 HALLETTAU 4 FEDERAL #006H		1/21/2014	1/21/2014	32.0787849	-103.6813431	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41849 RED HILLS WEST UNIT #007H		5/16/2014	5/14/2014	32.0641289	-103.6676865	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41878 HALLETTAU 4 FEDERAL #001H		5/28/2014	5/6/2014	32.0787885	-103.6779756	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-42336 RED HILLS WEST UNIT #005H		12/12/2014	12/12/2014	32.0641196	-103.6706547	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-42417 RED HILLS WEST UNIT #012H		2/21/2015	1/27/2015	32.06412355	-103.6692546	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-42624 ALMOST TEDDY 31 FEDERAL #001H		5/18/2015	5/18/2015	32.08016508	-103.7071072	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-42666 HALLETTAU 5 FEDERAL #007H		6/10/2015	6/6/2015	32.08025571	-103.67374083	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-41849 RED HILLS WEST UNIT #009H		7/6/2015	6/26/2015	32.06625	-103.674675	1. [97838] JENNINGS, UPPER BONE SPRING SHALE; [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-41877 MORAB 29 FEDERAL COM #001H		4/25/2016	4/19/2016	32.1018807	-103.7037373	1. [96641] PADUCA, BONE SPRING (O); [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-43303 HALLETTAU 5 FEDERAL #009H		6/17/2016	6/14/2016	32.065817	-103.6970072	1. [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43304 HALLETTAU 5 FEDERAL #010H		6/17/2016	6/14/2016	32.0658182	-103.6970072	1. [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43362 JENNINGS 34 WAIMO FEDERAL COM #001H		3/30/2017	7/11/2016	32.07884799	-103.6688033	1. [97838] JENNINGS, UPPER BONE SPRING SHALE; [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43379 PAUDUA 6 SWD #001Y		8/1/2016	8/1/2016	32.07216184	-103.7192409	1. [96101] SWD, DEVONIAN	
30-025-43374 ARBIAN 30-19 FEDERAL COM #003H		5/1/2017	4/25/2017	32.1017508	-103.7101203	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-43387 MORAB 29 20 FEDERAL COM #002H		4/25/2017	4/25/2017	32.1018629	-103.6973335	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-43376 MORAB 29 20 FEDERAL COM #003H		5/1/2017	4/25/2017	32.102242	-103.6972207	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-43378 ARBIAN 30-19 FEDERAL COM #004H		5/8/2017	4/26/2017	32.101751	-103.7002171	1. [97903] WC-025 G-08 S253235G, LWR BONE SPRIN	
30-025-43386 HALLETTAU 5 FEDERAL #011H		7/3/2017	6/27/2017	32.06625	-103.704544	1. [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43387 HALLETTAU 5 FEDERAL #016H		7/3/2017	6/27/2017	32.06625	-103.704608	1. [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43393 HALLETTAU 5 FEDERAL #007H		8/1/2017	7/21/2017	32.0653817	-103.6922008	1. [98065] WC-025 G-08 S263205N, UPPER WOLFCA	
30-025-43394 HALLETTAU 5 FEDERAL #010H		8/1/2017	7/21/2017	32.07787304	-103.6822183	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43395 PRE-ONGARD WELL #002		1/1/1900	1/1/1900	32.05878082	-103.6915358	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43396 PRE-ONGARD WELL #003		1/1/1900	1/1/1900	32.06323734	-103.6939764	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43397 PRE-ONGARD WELL #001		1/1/1900	1/1/1900	32.060403937	-103.700444	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43398 COTTON DRAW UNIT #099		2/14/2008	1/5/2006	32.10592691	-103.687588	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43399 COTTON DRAW UNIT #100		2/14/2008	1/5/2006	32.104947651	-103.6749689	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43400 RED HILLS WEST 3 FEDERAL COM #001		3/15/2012	9/14/2010	32.06956336	-103.6701765	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	
30-025-43404 HALLETTAU 5 FEDERAL COM #002C		2/21/2012	2/21/2012	32.0655632	-103.695343	1. [97838] JENNINGS, UPPER BONE SPRING SHALE	



Table 1 - NMOCD Wells within 2-miles of Ironside State SWD #1

API	Well Name	Effective Date	APR Date	Latitude	Longitude	District	Pool ID
30-025-41063	HALLERTAUS FEDERAL #07/C	3/15/2013	32.0658493	-103.699913	1 [97903] WC-025 G-08 S253235G, LWR BONE SPRIN		
30-025-41248	RED HILLS WEST UNIT #010C	6/24/2013	32.0932693	-103.6832809	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-42438	RED HILLS WEST UNIT #010C	2/12/2015	32.06412849	-103.6674544	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-42665	HALLERTAUS FEDERAL #005H	7/6/2015	32.06553889	-103.6901944	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-42673	HALLERTAUS FEDERAL #005H	7/1/2015	32.06548611	-103.6934694	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-42708	RED HILLS WEST UNIT #013H	10/30/2015	32.06406944	-103.6709417	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-42908	RED HILLS WEST UNIT #016H	10/30/2015	32.06635006	-103.66359846	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-43006	RED HILLS WEST UNIT #015H	6/17/2016	32.06315923	-103.66565017	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-43374	JENNINGS 34 A3MD FEDERAL COM #002H	7/20/2016	32.0788473	-103.16682911	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-43428	RED HILLS WEST UNIT #012C	9/21/2016	32.0616815	-103.66911228	1 [97838] JENNINGS, UPPER BONE SPRING SHALE		
30-025-45202	VAN DOO DAH 28 33 FEDERAL COM #231H	9/18/2018	32.1080191	-103.6873562	1 [97903] WC-025 G-08 S253235G, LWR BONE SPRIN		
30-025-45203	VAN DOO DAH 28 33 FEDERAL COM #232H	9/18/2018	32.1093014	-103.6873567	1 [96715] WC-025 G-06 S2532306M, BONE SPRING		
30-025-45204	MARWARI 28 16 STATE FEDERAL COM #234H	9/18/2018	32.1092557	-103.6839049	1 [96715] WC-025 G-06 S2532306M, BONE SPRING		
30-025-45205	MARWARI 28 16 STATE FEDERAL COM #236H	9/18/2018	32.1081974	-103.67777937	1 [96715] WC-025 G-06 S2532306M, BONE SPRING		
30-025-45206	MARWARI 28 16 STATE FEDERAL COM #238H	9/18/2018	32.1082121	-103.67474838	1 [96715] WC-025 G-06 S2532306M, BONE SPRING		
30-025-45235	VAN DOO DAH 21 33 FEDERAL COM #233H	9/27/2018	32.1099771	-103.6839051	1 [97903] WC-025 G-08 S253235G, LWR BONE SPRIN		
30-025-45236	VAN DOO DAH 28 33 FEDERAL COM #235H	9/27/2018	32.1081149	-103.677793	1 [97903] WC-025 G-08 S253235G, LWR BONE SPRIN		
30-025-45237	VAN DOO DAH 28 33 FEDERAL COM #237H	9/27/2018	32.108298	-103.6744837	1 [96715] WC-025 G-06 S2532306M, BONE SPRING		
30-025-08202	COTTON DRAW UNIT #043	8/5/1995	32.1095500	-103.6897354	1 [97903] WC-025 G-08 S253235G, LWR BONE SPRIN		
30-025-08211	COTTON DRAW UNIT #037	3/1/2008	32.1104736	-103.6865463	1 [94960] PADUCA, DELAWARE		
30-025-08212	COTTON DRAW UNIT #038	2/21/1986	32.1104927	-103.6822815	1 [94960] PADUCA, DELAWARE		
30-025-08227	PRE-ONGARD WELL #015	1/1/1900	32.1005211	-103.6854401	1 [94960] PADUCA, DELAWARE		
30-025-08228	PRE-ONGARD WELL #001	1/1/1900	32.10053287	-103.6833038	1 [94960] PADUCA, DELAWARE		
30-025-08229	COTTON DRAW UNIT #045	1/1/1900	32.108642	-103.6865321	1 [94960] PADUCA, DELAWARE		
30-025-08230	COTTON DRAW UNIT #050	4/29/1985	32.1033333	-103.682251	1 [94960] PADUCA, DELAWARE		
30-025-08231	COTTON DRAW UNIT #047	3/1/2008	32.1068611	-103.6822662	1 [94960] PADUCA, DELAWARE		
30-025-08233	PRE-ONGARD WELL #015	1/1/1900	32.1032143	-103.6865158	1 [94960] PADUCA, DELAWARE		
30-025-08234	PRE-ONGARD WELL #016	1/1/1900	32.1032486	-103.67910161	1 [94960] PADUCA, DELAWARE		
30-025-08235	COTTON DRAW UNIT #055	1/29/1989	32.1073734	-103.6897354	1 [94960] PADUCA, DELAWARE		
30-025-08236	COTTON DRAW UNIT #056	8/14/1995	32.1068993	-103.6746674	1 [94960] PADUCA, DELAWARE		
30-025-08237	G E JORDAN NCT-1 #019	7/29/1997	32.1031961	-103.6897125	1 [94960] PADUCA, DELAWARE		
30-025-08238	G E JORDAN NCT-1 #020	7/25/1997	32.1041756	-103.6746597	1 [94960] PADUCA, DELAWARE		
30-025-08239	PRE-ONGARD WELL #001	1/1/1900	32.0886154	-103.7293932	1 [94960] PADUCA, DELAWARE		
30-025-08240	PRE-ONGARD WELL #001	1/1/1900	32.0814896	-103.6865082	1 [94960] PADUCA, DELAWARE		
30-025-08241	PRE-ONGARD WELL #001	1/1/1900	32.0873372	-103.6818116	1 [94960] PADUCA, DELAWARE		
30-025-08242	PRE-ONGARD WELL #001	1/1/1900	32.0851631	-103.673233	1 [34010] JENNINGS, DELAWARE		
30-025-08243	PRE-ONGARD WELL #002	1/1/1900	32.0924034	-103.6735535	1 [34010] JENNINGS, DELAWARE		
30-025-08244	JENNINGS FEDERAL #001	10/25/2012	32.0815201	-103.6778259	1 [34010] JENNINGS, DELAWARE		
30-025-08245	PRE-ONGARD WELL #001	1/1/1900	32.0924187	-103.6692886	1 [34010] JENNINGS, DELAWARE		
30-025-08247	PRE-ONGARD WELL #001	1/1/1900	32.0887871	-103.6692963	1 [34010] JENNINGS, DELAWARE		
30-025-20417	PRE-ONGARD WELL #001	1/1/1900	32.0658607	-103.6860907	1 [94960] PADUCA, DELAWARE		
30-025-20577	COTTON TREE STATE SWD #001	1/1/1900	32.0781598	-103.6594553	1 [96838] DRY AND ABANDONED		
30-025-20729	PRE-ONGARD WELL #001	1/1/1900	32.077931	-103.7079849	1 [96838] DRY AND ABANDONED		
30-025-08251	PRE-ONGARD WELL #001	1/1/1900	32.0595245	-103.6807501	1 [96838] DRY AND ABANDONED		
30-025-08253	PRE-ONGARD WELL #001	1/1/1900	32.06332172	-103.6692581	1 [96838] DRY AND ABANDONED		
30-025-08254	PRE-ONGARD WELL #001	1/1/1900	32.074493	-103.6811829	1 [96838] DRY AND ABANDONED		
30-025-20417	PRE-ONGARD WELL #001	1/29/2015	5/27/1963	32.0886765	1 [96838] DRY AND ABANDONED		
30-025-08250	PRE-ONGARD WELL #001	1/1/1900	32.0968742	-103.689682	1 [96838] DRY AND ABANDONED		
30-025-08251	PRE-ONGARD WELL #001	1/1/1900	32.074495	-103.6824233	1 [96838] DRY AND ABANDONED		
30-025-08252	PRE-ONGARD WELL #001	1/1/1900	32.0779152	-103.6692963	1 [96838] DRY AND ABANDONED		
30-025-24500	PRE-ONGARD WELL #002	1/1/1900	32.0622052	-103.7079544	1 [96838] DRY AND ABANDONED		

Table 1 - NMOCD Wells within 2-miles of Ironside State SWD #1

API	Well Name	Well Type	ULSTR	OGRID	OGRID Name	Status	DIR Status	Elevation	Measured Depth	Total Depth	Spird Date	Plug Date
30-025-27079	PRE-ONGARD WELL #001	0	M-34-255-32E	214263	PRE-ONGARD WELL OPERATOR	P	0	0	0	4650	1/1/1900	1/1/1900
30-025-27557	EXXON FEDERAL #001	0	L-09-265-32E	22223	TEMPO ENERGY INC	P	V	3198	4452	4452	9/4/1991	9/4/1991
30-025-28483	EXXON FEDERAL #001	0	I-08-265-32E	10461	QUAY VALLEY INC.	P	V	3195	4445	4445	4/27/1984	3/1/2004
30-025-38151	IKE FEDERAL #001	0	M-38-255-32E	160825	BC OPERATING, INC.	P	V	3357	4771	4771	10/26/2006	3/10/2010
30-025-43277	PADUCA 6 SWD #001	s	3-06-265-32E	161968	MESQUITE SWD, INC	P	V	3285	960	960	7/20/2016	7/29/2016

## Solaris Water Midstream

Table 1 - NVOCD Wells within 2-miles of Ironside State SWD #1

API	Well Name	Effective Date	APR Date	Latitude	Longitude	District	Pool ID
30-025-27079	PFE-ONGARD WELL #001	1/1/1900	32.0810127	-103.6703644	1		
30-025-27557	EXXON FEDERAL #001	9/4/1991	32.0505095	-103.6873169	1	[44859]	MASON, DELAWARE, NORTH
30-025-28483	EXXON FEDERAL #001	6/1/1984	32.0557251	-103.6907425	1	[44859]	MASON, DELAWARE, NORTH
30-025-38151	IKE FEDERAL #001	9/12/2006	32.0959816	-103.6864853	1	[4980]	PADUCA, DELAWARE, EAST
30-025-43277	PADUCA 6 SWD #001	6/28/2016	32.07215062	-103.7190976	1	[96101]	SWD, DEVONIAN [96838] DRY AND ABANDONED

API	OGRID	OGRID Name	Well Type	Status	Well Name	District	UL-S-T-R	Total Depth	Pool
30-025-08240	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	M-33-255-32E	4633	
30-025-08241	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	F-33-255-32E	4664	
30-025-08242	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	I-33-255-32E	4625	[34010] JENNINGS, DELAWARE
30-025-08244	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	P	JENNINGS FEDERAL #001	1	O-33-255-32E	4632	[34010] JENNINGS, DELAWARE
30-025-08250	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	C-05-265-32E	4572	
30-025-20417	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	F-04-265-32E	4622	
30-025-20577	245872	JUDAH OIL LLC	O	P	COTTON TREE STATE SWD #001	1	F-32-255-32E	5795	[95838] DRY AND ABANDONED
30-025-20729	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	P-29-255-32E	4720	
30-025-23296	214263	PRE-ONGARD WELL OPERATOR	O	P	PRE-ONGARD WELL #001	1	F-04-265-32E	4542	
30-025-24007	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	P	UNION FEDERAL #002	1	B-04-265-32E	4620	[34010] JENNINGS, DELAWARE
30-025-24158	214263	PRE-ONGARD WELL OPERATOR	O	C	PRE-ONGARD WELL #003	1	C-04-265-32E	0	
30-025-30107	37636	ROBINSON OIL INC	O	A	UNION B FEDERAL #001	1	C-04-265-32E	4578	[34010] JENNINGS, DELAWARE
30-025-38151	160825	BC OPERATING, INC.	O	P	IKF FEDERAL #001	1	M-28-255-32E	4771	[49480] PADUCA, DELAWARE, EAST
30-025-40474	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #003H	1	B-04-265-32E	9463	[9793] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-40475	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #004H	1	A-04-265-32E	9110	[9783] JENNINGS, UPPER BONE SPRING SHALE; [9793] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-40476	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #007H	1	B-04-265-32E	10713	[9793] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-40477	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #008H	1	A-04-265-32E	10720	[9793] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-40722	7377	EG RESOURCES INC	O	A	JEFE B51 FEDERAL COM #001H	1	O-32-255-32E	10526	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-41062	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #005H	1	D-04-265-32E	9400	[9793] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-41069	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #001H	1	D-04-265-32E	9034	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-41119	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #003H	1	C-04-265-32E	9408	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-41248	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	C	VAN DOO DAH 33 FEDERAL #001C	1	C-33-255-32E	0	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-41628	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #006H	1	C-04-265-32E	9456	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-41878	162683	CIMAREX ENERGY CO. OF COLORADO	O	A	HALLETTAU 4 FEDERAL #009H	1	B-04-265-32E	9440	[9783] JENNINGS, UPPER BONE SPRING SHALE
30-025-42624	6137	DEVON ENERGY PRODUCTION COMPANY, LP	O	A	VAN DOO DAH 33 FEDERAL #003H	1	P-33-255-32E	9495	[9783] JENNINGS, UPPER BONE SPRING SHALE

Table 2a - Oil and Gas Leases on BLM Surface within 2-Miles of Ironside State SWD #1

Solaris Water Midstream

SerialNumb	Name 1	Name 2	Name 3	Name 4
NMLC 0062300	3-M ENERGY CO	CHEVRON USA INC	DEVON ENERGY	PROVIDENCE MINERALS LLC
NMLC 0061869	DEVON ENERGY PROD CO LP			
NMNM 027467	OCCIDENTAL PERMIAN LP			
NMNM 105560	MEWBOURNE OIL CO			
NMNM 108972	COG OPERATING LLC			
NMNM 105559	MEWBOURNE OIL CO			
NMNM 108971	OXY Y-1 COMPANY	EOG A RESOURCES INC	EOG M RESOURCES INC	
NMNM 105561	MEWBOURNE OIL CO			
NMNM 115421	OXY USA INC			
NMNM 128927	COG OPERATING LLC			
NMNM 120910	COG PRODUCTION LLC			
NMNM 115422	OGX RESOURCES INC			
NMNM 128928	MAGNUM HUNTER PRODUCTION INC			
NMNM 113968	DEVON ENERGY PROD CO LP			
NMNM 113967	DEVON ENERGY PROD CO LP			
NMNM 112935	OXY Y-1 COMPANY	EOG A RESOURCES INC	EOG M RESOURCES INC	
NMNM 115423	OXY USA INC			
NMNM 120909	CHEVRON USA INC			
NMNM 128929	OCCIDENTAL PERMIAN LP			
NMNM 0359295A	DEVON ENERGY OPER CO LP			
NMNM 0392082A	MAGNUM HUNTER PRODUCTION INC			

Table 2b Oil and Gas Leases On State Surface within 2-Miles of Ironside State SWD #1

Solaris Water Midstream

<b>Unique Key</b>	<b>Lease Prefix</b>	<b>Lease Number</b>	<b>Lease Suffix</b>	<b>OGRID Number</b>	<b>OGRID Name</b>
V076790001	VO		7679	1	90712 MEWBURNE OIL COMPANY
VB07770001	VB		777	1	25575 EOG Y RESOURCES, INC.
VB07870001	VB		787	1	25575 EOG Y RESOURCES, INC.





Table 3 - Produced Water Chemistry of Nearby Wells

api	S	TWO	RNG	CTY	formation	sampledate	ph	tds_mgl	resistivity_ohm_cm	sodium_mgl	calcium_mgl	iron_mgl	manganese_mgl	bicarbonate_mgl	sulfate_mgl	co2_mg/l		
3002539948	6	255	32E	Lea	AVALON LOWER	12/8/2011 0:00	7	144951	54645.4	605	22	113	0.3	84551	2708.4	1047		
3002539949	6	255	32E	Lea	AVALON MIDDLE	12/8/2011 0:00	7	145592.5	55405.5	440	25	71	0.3	84840	2806	1092		
3002540105	6	255	32E	Lea	AVALON LOWER	12/8/2011 0:00	7	145592.9	55423.9	433	27	80	0.5	84856	2720.6	1090		
3002541956	10	255	32E	Lea	BONE SPRING 2ND SAND	4/7/2015 0:00	6.5	207154.8	0.05017	68477	40416	41.3	1744.6	1.53	126763.4	122	0	
3002508176	10	255	32E	Lea	DELAWARE											15260	112	
3002508182	15	255	32E	Lea	DELAWARE												939	
3002508186	16	255	32E	Lea	DELAWARE													
IRONIDS SWO	16	255	32E	Lea	DELAWARE													
3002508221	22	255	32E	Lea	DELAWARE													
3002508226	27	255	32E	Lea	DELAWARE													
CALTROPS SWO	32	255	32E	Lea														
3002508242	33	255	32E	Lea														
3001542113	2	265	31E	EDDY	BONE SPRING 3RD SAND	10/8/2015 0:00	6.1	226822	0.05289	57077.4	20081.9	19.4	2953.6	3678.6	31.7	483.6	0	
3001542113	2	265	31E	EDDY	BONE SPRING 3RD SAND	9/30/2015 0:00	6.5	9495.6	0.08933	30031.5	34012.5	19.9	438.9	57499.5	244	0	200	
3001542113	2	265	31E	EDDY	BONE SPRING 3RD SAND	1/27/2015 0:00	7.2	94863.9	0.08934	30248.8	3424.8	12.9	3424.4	444	267.4	57492.2	355.2	200
3001542168	2	265	31E	EDDY	WOLF CAMP	10/7/2015 0:00	7.3	81366.4	0.1004	26319.4	2687.4	26.1	326.7	50281.2	365	200		
3001542113	2	265	31E	EDDY	BONE SPRING 3RD SAND	12/14/2015 0:00	6.8	91289.1	0.089314	2821.3	3440.7	16.3	433.4	56987.4	327.9	150		
3001539036	2	265	31E	EDDY	AVALON UPPER	6/26/2014 0:00	6.1	223019		76001.7	10437.8	209.9	1322.4	4.5	131072	3665	632	1100
3001539162	2	265	31E	EDDY	AVALON UPPER	6/26/2014 0:00	6.5	179788.5		71575.7	617.4	21.8	109.6	0	101374	3660	0	500
3001539162	2	265	31E	EDDY	AVALON UPPER	6/26/2014 0:00	6.5	179938		71575.7	617.4	21.8	109.6	0	101374	3660	0	500
3001539104	2	265	31E	EDDY	AVALON UPPER	8/31/2011 0:00	6.5	162560.1		57132.7	3886	42	76	0	101374	3660	844	500
3001539104	10	265	31E	EDDY	AVALON UPPER	3/20/2015 0:00	6.3	11140.5	0.07008	38922.4	3647.3	76.8	487.9	1.05	66173.2	1403	756	/0
3001529605	10	265	31E	EDDY	AVALON UPPER	4/14/2015 0:00	6.3	54116.9		46100	5272.4	349.6	719.3	3.73	0	300		
3001540954	10	265	31E	EDDY	BONE SPRING 2ND SAND	6/5/2014 0:00	6.6	13816.9		44458.5	6280.8	29.7	788.3	0	84470	122	0	
3001540954	10	265	31E	EDDY	BONE SPRING 2ND SAND	6/6/2014 0:00	6.6	13837.6		44458.5	6280.8	29.7	788.3	0	84470	122	0	
3001537899	10	265	31E	EDDY	AVALON UPPER	6/26/2014 0:00	6.5	19963.8		68948.8	7560.4	111.2	1522.8	2.19	118195	732	0	
3001539866	10	265	31E	EDDY	BONE SPRING 2ND SAND	6/26/2014 0:00	6.5	15249.2		48495.7	6731.3	29.1	801.4	1.06	94055	244	0	
3001537899	10	265	31E	EDDY	AVALON UPPER	7/19/2011 0:00	7.1	209382.4		70089.5	7327	203	1557	2.5	127230	146.4	600	
3001538193	11	265	31E	EDDY	AVALON UPPER	6/26/2014 0:00	6.1	225319.8		7010.7	8743.8	636.1	1649.2	6.75	134075	366	0	
3001538193	11	265	31E	EDDY	AVALON UPPER	7/19/2011 0:00	7	19656.7		68797.3	5059	12	10966	0.9	118943	122	872	
3001505886	26	265	31E	EDDY	DELAWARE	8/31/2011 0:00	7	20308.9		72261.4	4407	112	904	1.5	122172	1098	658	
3001539162	8	265	31E	EDDY	DELAWARE													
3002508278	25	265	31E	EDDY	DELAWARE													
3002508291	26	265	31E	EDDY	DELAWARE													
3002508296	26	265	31E	EDDY	DELAWARE													
3002508308	35	265	31E	EDDY	DELAWARE													

Table 4 - Chemistry of Produced Water from Devonian Formations

wellName	api	section	township range	county	state	field	formation depth	sample no.	sample date	pH	specific gravity	td. mg/l	resistivity	conductivity	conductivity	conductivity	conductivity	conductivity	barium sulfate, mg/l
CROSBODS DEVONIAN UNIT #021			14-25	14-16	SD	CROSBODS DEVONIAN	351		1/17/88			4872	631	2111					
CROSBODS DEVONIAN UNIT #025			15-25	14-16	SD	CROSBODS DEVONIAN	351		1/17/88			89710	2511	2384					
DEVONIAN STATE #025			20-25	3-6	SD	UNKNOWN	153646					89710	4860	1450					
WEST TOLLAIRICH DEVONIAN UNIT #024			3-245	2-8E	SD	UNKNOWN	4/1/1985 0:00	5.6	1/03/9	7.7	0.155								145
WEST TOLLAIRICH DEVONIAN UNIT #024			17-245	3-8E	SD	UNKNOWN	4/1/1985 0:00	5.6	1/03/9	7.7	0.155								686
WEST TOLLAIRICH DEVONIAN UNIT #025			5-255	3-8E	SD	WELLHEAD	50858												886
WEST TOLLAIRICH DEVONIAN UNIT #025			14-095	3-6E	SD	UNKNOWN	50776												80266
CROSBODS STUDIO #025			27-095	3-8E	SD	UNKNOWN	29844												200
CROSBODS STUDIO #025			27-095	3-8E	SD	UNKNOWN	52771571.00	7.5				184000	33700	375					1470
CROSBODS STUDIO #025			300250718.0		SD	SEPARATOR	52771571.00	7.5											50105
CROSBODS STUDIO #025			300250718.0		SD	HATER	52771571.00	7.5											1400
																			81197

52

## OSE Well Logs

13



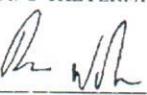
# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

2019 JUL 13 10:18:43  
CPL-00000000000000000000000000000000

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) C-4256-POD		WELL TAG ID NO.	OSE FILE NO(S)			
	WELL OWNER NAME(S) Baker Ranch					PHONE (OPTIONAL) 480-365-8463	
	WELL OWNER MAILING ADDRESS P.O. Box 24				CITY Silver City	STATE NM	ZIP 88062
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	32	MINUTES 4	SECONDS 23.4	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
		LONGITUDE	103	43	28.3	W	* DATUM REQUIRED: WGS 84
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - FSS SECTION, TOWNSHIP, RANGE WHERE AVAILABLE						
	DRILLING NO. WD1706	NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation		
	DRILLING STARTED 06/28/18	DRILLING ENDED 07/04/18	DEPTH OF COMPLETED WELL (FT) 666	BOREHOLE DEPTH (FT) 680	DEPTH WATER FIRST ENCOUNTERED (FT) 340		
	COMPLETED WELL(S): <input checked="" type="checkbox"/> ARTISIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 330		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD	ADDITIVES: SPECIFY:					
DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
DEPTH (feet bgl)	BOREHOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string and note sections of screen)	CASING CONNECTION TYPE (ind coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM 0	TO 00	17.5	ASTM53 Grade B	.57	.188		
0	326	12.25	ASTM53 Grade B	6.065	.288		
326	666	12.25	SDR 17 PVC	.58	SDR 17	.032	
DEPTH (feet bgl)		BOREHOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
FROM 0	TO 100	17.5	Portland FII Cement		.80	Tremie	
6	315	12.25	Portland FII Cement		132	Tremie	
315	666	12.25	Silica Sand 8/16		219	Pour	
FOR OSE INTERNAL USE							
FILE NO.	C-4256		POD NO.	1	TRN NO.	626507	
LOCATION	26S. 31E. 1.2.4.4		EXPL	WELL TAG ID NO.	NIA	PAGE 1 OF 2	

DEPTH (feet bgf)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
FROM	TO				
0	4	4	Red Sand	Y	✓ N
4	19	15	Tan Caliche	Y	✓ N
19	85	66	Red Sard w/ Caliche	Y	✓ N
85	290	205	Red & Tan Sand	Y	✓ N
290	330	40	Red & Blue Clay	Y	✓ N
330	390	60	Red & Blue Siltstone w/ Gravel Stringers	✓ Y	N 10.00
390	430	40	Red Sandstone w/ Siltstone & Gravel	✓ Y	N 10.00
430	480	50	Red & Blue Siltstone w/ Gravel	✓ Y	N 10.00
480	610	130	Red Siltstone & Gray Clay w/ Gravel	✓ Y	N 10.00
610	680	70	Red, Blue & Gray Clay	Y	✓ N
680	690	10	Red Clay	Y	✓ N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
				Y	N
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 40.00
<input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY					
WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ON-SITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
		Bryce Wallace	07/16/18		
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE			

FOR OEM INTERNAL USE

FILE NO.	C-4256	POD NG.	1	TRN NO.	Walson	WR-20 WELL RECORD & LOG (Version 06/30/2017)
LOCATION	21as. 31E. 1. 2.4.4	EXPL		WELL TAG ID NO.	NIA	PAGE 2 OF 2



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

STATE OF NEW MEXICO  
RIO GRANDE, NEW MEXICO

2010 MAY 21 AM 10:46

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) <b>C-4209-POD1</b>			WELL TAG ID NO.		OSE FILE NO.(S)			
	WELL OWNER NAMES Baker Ranch			WONS (OPTIONAL)					
	WELL OWNER MAILING ADDRESS P.O. Box 24			CITY Silver City		STATE NM		ZIP 88062	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	04	02.5	N	* ACCURACY REQUIRED ONE HUNDREDTH OF A SECOND			
		LONGITUDE	103	43	08.8	W	* DATE X REQUIRED WGS 84		
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
	LICENSE NO. <b>WD1706</b>	NAME OF LICENSED DRILLER <b>Bryce Wallace</b>				NAME OF WELL DRILLING COMPANY <b>Elite Drillers Corporation</b>			
	DRILLING STARTED <b>4/28/18</b>	DRILLING ENDED <b>5/1/18</b>	DEPTH OF COMPLETED WELL (ft) <b>360</b>	BORE HOLE DEPTH (ft) <b>360</b>	DEPTH WATER FIRST ENCOUNTERED (ft) <b>155</b>				
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONSOLIDATED)					STATIC WATER LEVEL IN COMPLETED WELL (ft) <b>155</b>			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:								
DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOE <input type="checkbox"/> OTHER - SPECIFY:									
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string and note sections of screen)		CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM <b>0</b>	TO <b>200</b>	<b>11</b>	<b>PVC</b>		<b>Spline</b>	<b>6</b>	<b>SDR 21</b>		
<b>200</b>	<b>360</b>	<b>11</b>	<b>PVC</b>		<b>Spline</b>	<b>6</b>	<b>SDR 21</b>	<b>.032</b>	
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL			AMOUNT (cubic feet)	METHOD OF PLACEMENT		
FROM <b>0</b>	TO <b>25</b>	<b>11</b>	<b>Portland LII</b>			<b>25</b>	<b>Slurry/Pour</b>		
<b>25</b>	<b>360</b>	<b>11</b>	<b>8-16 Silica Sand</b>			<b>145</b>	<b>Pour</b>		
FOR OSE INTERNAL USE									
FILE NO.	<b>C-4209</b>		POD NO.	<b>1</b>	TRN NO.	<b>621334</b>			
LOCATION	<b>205.32E.6.332</b>		EXPL		WELL TAG ID NO.	<b>N/A</b>			
						PAGE 1 OF 2			



**XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.**

18

October 9 2019

Table 2  
Oil & Gas Mineral Interests and Affected Persons within 1-Mile AOR

 Solaris Water Midstream  
Ironside State SWD #1

Township	Range	Section	Unit Letter	Lease Number	UPC	Leasee (O & G Minerals)	Leasor (O & G Minerals)	Surface Owner
25S	32E	28	M	NMNM 115422	4188149268266	OGX RESOURCES INC	BLM (US)	BLM (US)
25S	32E	28	N	NMNM 115422	4188149268266	OGX RESOURCES INC	BLM (US)	BLM (US)
25S	32E	28	O	NMNM 115422	4188149268266	OGX RESOURCES INC	BLM (US)	BLM (US)
25S	32E	29	N	NMNM 108971	4187149268266	OXY Y-1 COMPANY 33.3% EOG A RESOURCES 33.3% EOG M RESOURCES INC 33.3%	BLM (US)	BLM (US)
25S	32E	29	O	NMNM 108971	4187149268266	OXY Y-1 COMPANY 33.3% EOG A RESOURCES 33.3% EOG M RESOURCES INC 33.3%	BLM (US)	BLM (US)
25S	32E	29	P	NMNM 108971	4187149268266	OXY Y-1 COMPANY 33.3% EOG A RESOURCES 33.3% EOG M RESOURCES INC 33.3%	BLM (US)	BLM (US)
25S	32E	31	I	NMNM 112935	4187147225134	OXY Y-1 COMPANY 33.3% EOG A RESOURCES 33.3% EOG M RESOURCES INC 33.3%	BLM (US)	BLM (US)
25S	32E	31	P	NMNM 112935	4187147225134	OXY Y-1 COMPANY 33.3% EOG A RESOURCES 33.3% EOG M RESOURCES INC 33.3%	BLM (US)	BLM (US)
25S	32E	32	A	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	B	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	C	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	D	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	E	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	F	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	G	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	H	VB07870001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	I	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	J	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	K	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	L	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	M	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	N	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	O	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	32	P	VB07770001	4187150268266	EOG Y RESOURCES, INC.	State	State
25S	32E	33	A	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	B	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	C	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	D	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	E	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	F	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	G	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	H	NMNM 0359295A	4188150462352	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	I	NMNM 0359295A	4188150462352	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	J	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	K	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	L	NMNM 120909	4188150217244	CHEVRON USA INC	BLM (US)	BLM (US)
25S	32E	33	M	NMNM 120909	4188150217244	CHEVRON USA INC	BLM (US)	BLM (US)
25S	32E	33	N	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	O	NMNM 0359295A	4188150217244	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
25S	32E	33	P	NMNM 0359295A	4188150462352	DEVON ENERGY OPER CO LP	BLM (US)	BLM (US)
26S	32E	04	A	NMNM 0392082A	4188151355339	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	B	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	C	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	D	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	E	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	F	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	G	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	H	NMNM 0392082A	4188151355339	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	J	NMNM 0392082A	4188151355339	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	K	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	04	L	NMNM 0392082A	4188151170191	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	A	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	B	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	C	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	D	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	E	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	F	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	G	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	H	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	I	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	J	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)
26S	32E	05	K	NMNM 0392082A	4187151268203	MAGNUM HUNTER PRODUCTION INC	BLM (US)	BLM (US)

Solaris Water Midstream Ironsides SWD #1 Notification List		Name	Type	Address1	Address2	City	State	Zip
Sahara Operating	O	P.O. Box 4130				Midland	TX	79704
Devon Energy Production Company, LP	O	333 W. Sheridan				Oklahoma City	OK	73102
Robinson Oil Co.	O	P.O. Box 364				Eunice	NM	88231
EOG Resources, Inc.	O	P.O. Box 2267				Midland	TX	79702
Mewbourne Oil Co.	O, LS	P.O. Box 5270				Hobbs	NM	88241
COG Production, LLC	O	P.O. Box 2064				Midland	TX	79702
Cimarex Energy Co. of Colorado	O	600 N. Marienfeld				Midland	TX	79701
Mesquite SWD, Inc.	O	P.O. Box 1479				Carlsbad	NM	88221
3-M Energy Co.	L,BLM	502 S. Koenigheim St.	#2B			San Angelo	TX	76903
OGX Resources	L,BLM	P.O. Box 2064				Midland	TX	79702
Magnum Hunter Production, Inc.	L,BLM	600 East Las Collinas Blvd.				Irving	TX	75039
Chevron USA, Inc.	L,BLM	6301 Deauville Blvd.				Midland	TX	79706
EOG-Y Resources, Inc.	L,S	104 S. 4th St.				Artesia	NM	88210
State of New Mexico	L	Oil, Gas and Minerals Division				Santa Fe	NM	87504
Bureau of Land Management	L	Oil & Gas Division				Carlsbad	NM	88220

O = Operator (Well)

L,BLM = Lessee of Record - Federal

LS = Lessee of Record - State

L = Landowner

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9622  
MIDLAND, TX 79704  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>SAHARA OPERATING</b> Street and Apt. No., or PO Box No. P.O. Box 4130 City, State, ZIP+4 MIOLAND, TX 79704	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9622  
OKLAHOMA CITY, OK 73102  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>DEVON ENERGY PROD. CO., LP</b> Street and Apt. No., or PO Box No. 333 W. SHERIDAN CITY, STATE, ZIP+4 OKLAHOMA CITY, OK 73102	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9626  
EUNICE, NM 88231  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>ROBINSON OIL CO.</b> Street and Apt. No., or PO Box No. P.O. Box 364 City, State, ZIP+4 EUNICE, NM 88231	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9623  
MIDLAND, TX 79702  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>E&amp;G RESOURCES, INC.</b> Street and Apt. No., or PO Box No. P.O. Box 2267 City, State, ZIP+4 MIOLAND, TX 79702	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9660  
HOBBES, NM 88241  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>MEWBORNE OIL CO.</b> Street and Apt. No., or PO Box No. P.O. Box 5270 City, State, ZIP+4 HOBBES, NM 88241	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

7018 1130 0001 8740 9547  
MIDLAND, TX 79702  
**OFFICIAL MAIL RECEIPT**

Certified Mail Fee	\$ 3.50
Postage	\$ 0.55
Total Postage and Fees	\$ 4.05
Sent To <b>C&amp;G PRODUCTION, LLC</b> Street and Apt. No., or PO Box No. P.O. Box 2064 City, State, ZIP+4 MIOLAND, TX 79702	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APR 22 2019  
0501 02  
Postmark Here

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
MIDLAND, TX 79701

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	CIMAREX ENERGY Co. OF COLO. Street and Apt. No., or PO Box No. 600 N. MARIENFELD, STE. 600 City, State, ZIP+4 MIDLAND, TX 79701

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
CARLSBAD, NM 88221

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	MESQUITE SWD, Inc. Street and Apt. No., or PO Box No. P.O. Box 1479 City, State, ZIP+4 CARLSBAD, NM 88221

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
SAN ANGELO, TX 76903

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	3-M ENERGY Co. Street and Apt. No., or PO Box No. 502 KOENIGHEIM ST. #2B City, State, ZIP+4 SAN ANGELO, TX 76903

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
MIDLAND, TX 79702

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	OGX RESOURCES Street and Apt. No., or PO Box No. P.O. Box 2064 City, State, ZIP+4 MIDLAND, TX 79702

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
IRVING, TX 75039

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	MAGNUM HUNTER PROD. INC. Street and Apt. No., or PO Box No. 600 EAST LAS COLINAS BLVD, #1100 City, State, ZIP+4 IRVING, TX 75039

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).  
IRVING, TX 75039

Certified Mail Fee	\$ 3.50
S	\$ 2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 0.00
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00
Postage	\$ 0.55
S	
Total Postage and Fees	\$ 3.85
S	
Sent To	CHEVRON USA, INC. Street and Apt. No., or PO Box No. 6301 DEANVILLE BLVD. City, State, ZIP+4 MIDLAND, TX 79706

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

0501 02  
Postmark Here  
04/22/2019

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

ARTESIA, NM 88210

Certified Mail Fee \$3.50  
\$ \$2.80  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$ \$0.00  
 Return Receipt (electronic) \$ \$0.00  
 Certified Mail Restricted Delivery \$ \$0.00  
 Adult Signature Required \$ \$0.00  
 Adult Signature Restricted Delivery \$ \$0.00

Postage \$0.55  
\$ \$0.55

Total Postage and Fees \$6.85  
\$ \$6.85

Sent To  
**E&G-Y RESOURCES, INC.**  
Street and Apt. No., or P.O. Box No.  
**104 S. 4TH ST.**  
City, State, Zip+4  
**ARTESIA, NM 88210**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

SANTA FE, NM 87501

Certified Mail Fee \$3.50  
\$ \$2.80  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$ \$0.00  
 Return Receipt (electronic) \$ \$0.00  
 Certified Mail Restricted Delivery \$ \$0.00  
 Adult Signature Required \$ \$0.00  
 Adult Signature Restricted Delivery \$ \$0.00

Postage \$0.55  
\$ \$0.55

Total Postage and Fees \$6.85  
\$ \$6.85

Sent To  
**NEW MEXICO STATE LAND OFFICE**  
Street and Apt. No., or P.O. Box No.  
**310 OLD SANTA FE TRAIL**  
City, State, Zip+4  
**SANTA FE, NM 87504**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

CARLSBAD, NM 88220

Certified Mail Fee \$3.50  
\$ \$2.80  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$ \$0.00  
 Return Receipt (electronic) \$ \$0.00  
 Certified Mail Restricted Delivery \$ \$0.00  
 Adult Signature Required \$ \$0.00  
 Adult Signature Restricted Delivery \$ \$0.00

Postage \$0.55  
\$ \$0.55

Total Postage and Fees \$6.85  
\$ \$6.85

Sent To  
**BUREAU OF LAND MANAGEMENT**  
Street and Apt. No., or P.O. Box No.  
**620 E. GREENE ST.**  
City, State, Zip+4  
**CARLSBAD, NM 88220**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**LEGAL NOTICE**  
April 23, 2019

Solaris Water Midstream, LLC, 907 Tradewinds Blvd Suite B, Midland, TX 79706 is filing Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Ironside SWD No. 1, will be located 1,270 feet from the South line and 175 feet from the East line, Section 32, Township 25 South, Range 32 East, Lea County, New Mexico. Produced water from area production will be commercially disposed into the Devonian, Silurian and Fusselman formations at a depth of 17,125 feet to 18,150 feet at a maximum surface pressure of 4,081 psi and an average injection rate of 30,000 barrels per day. The proposed SWD well is located approximately 27 miles southeast of Loving, New Mexico.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505 (505) 476-3460 within 15 days of the date of this notice.

Additional information can be obtained by contacting Mr. Randall Hicks, agent for Solaris Water Midstream, at 505-238-9515  
**#34044**

54

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996  
 Artesia ▲ Carlsbad ▲ Durango ▲ Midland

October 14, 2019

Mr. Phillip Goetze, P.G.  
 New Mexico Oil Conservation Division  
 1220 South St. Francis Drive  
 Santa Fe, NM 87505

RE: Solaris Water Midstream Ironside State SWD #1  
 UL P Section 32 T25S R32E, Lea County

Dear Mr. Goetze:

On behalf of Solaris Water Midstream LLC, R.T. Hicks Consultants is providing data and an opinion regarding the probability that injection of wastewater in the above referenced well at the proposed rates will cause seismic events of sufficient magnitude to create damage. It is our understanding that OCD is interested in such an opinion as part of the SWD approval process. We elected to provide this opinion as a separate submission as the C-108 does not specifically require such an opinion.

We relied upon the following data to develop our opinion

- State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity, Jens-Erik Lund Snee and Mark D. Zoback, The Leading Edge, February 2018<sup>1</sup>
- Plate 4, which is reproduced from the Snee and Zoback publication, which uses the following references
  - Crone, A. J., and R. L. Wheeler, 2000, Data for Quaternary faults, liquefaction features, and possible tectonic features in the Central and Eastern United States, east of the Rocky Mountain front; U.S. Geological Survey Open-File Report.
  - Ewing, T. E., R. T. Budnik, J. T. Ames, and D. M. Ridner, 1990, Tectonic map of Texas: Bureau of Economic Geology, University of Texas at Austin.
  - Green, G. N., and G. E. Jones, 1997, e digital geologic map of New Mexico in ARC/INFO format: U.S. Geological Survey Open-File Report.
  - Ruppel, S. C., R. H. Jones, C. L. Breton, and J. A. Kane, 2005, Preparation of maps depicting geothermal gradient and Precambrian structure in the Permian Basin: USGS Order no. 04CRSA0834 and Requisition no. 04CRPR01474.
  - NMOCOD database of oil and gas wells
- Plates 4 and 5, which shows the distribution of active and new SWD wells in the area of the proposed Ironside State SWD #1 well
- Stratigraphic and lithologic information from two deep wells in the Delaware Basin
- Data on the thickness and lithology of the Simpson Group from the Texas Bureau of Economic Geology<sup>2</sup>

<sup>1</sup> [https://scits.stanford.edu/sites/default/files/3702\\_tss\\_lundsnee\\_v2.pdf](https://scits.stanford.edu/sites/default/files/3702_tss_lundsnee_v2.pdf)

<sup>2</sup> [http://www.beg.utexas.edu/resprog/permianbasin/PBGSP\\_members/writ\\_synth/Simpson.pdf](http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf)

SOLARIS

EXHIBIT 2

Case 20F12

October 14, 2019

Page 2

Plate 4 reproduces Figure 3 of the 2018 publication of Snee and Zoback and shows

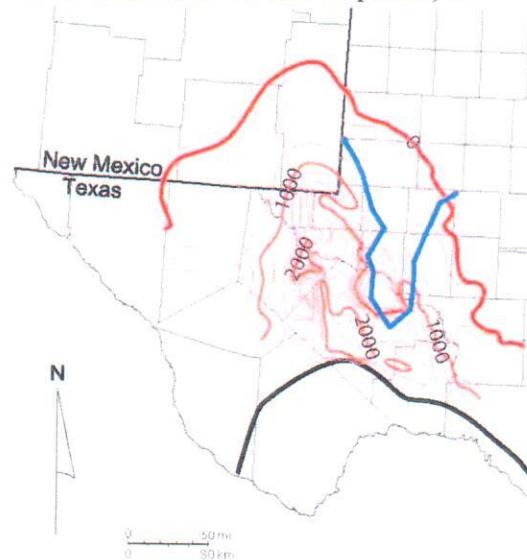
1. Fault traces based upon the references provided above for which Dr. Snee and Dr. Zoback provide a value of the fault slip potential (FSP)
2. Areas of documented seismic activity, such as the Dagger Draw area and a magnitude 2.0-2.9 earthquake that occurred between 1970-2004 about 8-miles northeast of the proposed Ironside State SWD #1.
3. Although Plates 4 and 5 do not show faults that may be identified in confidential seismic data owned by oil and gas operators, the mapped fault that is closest to the Ironside State SWD #1 (about 11 miles to the east) exhibits a low FSP (less than 5%) based upon the modeling and analysis of Snee and Zoback referenced above
4. Other mapped faults in southern Lea County shown on Plate 4 also show a low FSP, except for part of southwest-northeast trending fault about 35 miles north-northwest of the Ironside State SWD #1 well that has a FSP of about 25 – 33% at the northeast end.

Plate 5 reproduces the major elements of Plate 4 in the inset map and also shows that within the approximately 200 square miles displayed on Plate 5, the OCD database shows 7 active and 5 new Devonian SWDs, which translates into an average density of about one SWD for every 16 square miles.

Figure 4 from the referenced Bureau of Economic Geology (The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, And Reservoir Development) is attached to this letter and the portion of that figure for the Delaware Basin is shown to the right. In southern Lea County the mapped thickness appears to be 500-1500 feet thick (note one contour line appears to be missing on the map).

Data from the Amoco Federal CW Com 1 (3002528119) show that the thickness of the Simpson in the Antelope Ridge area of Lea County (Section 3 24S 34E) is about 450 feet thick with. This is consistent with Figure 4 of the BEG paper (probably because this well was used to produce the isopach map). Data from a second well in Lea County is presented in the cross-section below, which is part of Figure 5 from the reverenced BEG publication. The thickness of the Simpson Group in the O'Neill 1A State well appears to be about 650 feet.

The description of each of the Formations from the BEG report are presented below the cross section.

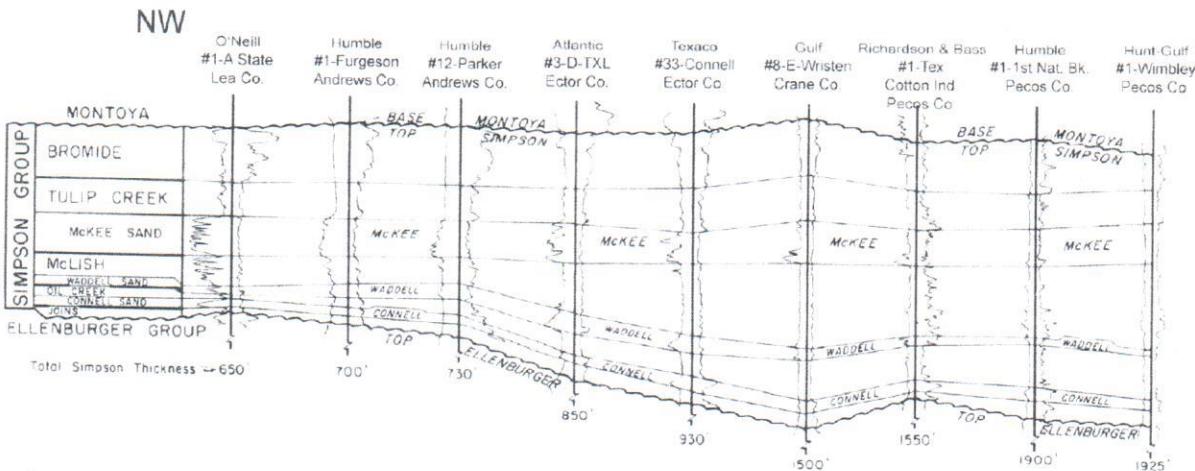


CI = 100 ft in Oklahoma

CI = 250 ft in Texas/New Mexico

October 14, 2019

Page 3



### Bromide Formation

"The Bromide Formation comprises massive fossil-rich limestone that is thinly interbedded with green shale and sandstone in the subsurface; the limestone is increasingly sandy and shaly [shaley] away from the Central Basin Platform, to the south, southeast, and west (Wright, 1979)."

### Tulip Creek

"Rocks of the Tulip Creek Formation are primarily thinly bedded, green shale thinly interbedded with limestone in the subsurface"

### McKee Sand

"Two sandstone layers separated by green shale and sandy limestone characterize the McKee; the sandstones are medium to coarse, white, green, or red in color, and they contain phosphate, as well as abundant frosted quartz (Wright, 1965). The basal McKee Member comprises sandstone, muddy sandstone, and sandy mudstone lithologies in cores from Andrews and Crane (Texas) and Lea (New Mexico) Counties (Bosco and Mazullo, 2000)."

### McLish Formation and Wadell Sand

"The McLish Formation consists of gray-green shale interbedded with sandy limestone and fine-grained sandstone; medium-coarse grained calcareous sandstones make up the Waddell Member at the base of the McLish Formation in the subsurface (Wright, 1965). Shale dominates the section north of Ward and Crane Counties, and shaly limestone dominates the subsurface elsewhere outside of the main producing area."

### Oil Creek Formation and Connell Sandstone

"The Oil Creek Formation is composed primarily of green, and locally red, shale with thin limestone interbeds; the Connell Sandstone Member consists of medium to coarse, well-rounded, calcareous sandstone in the subsurface and is locally iron rich and interbedded with red and gray shale (Wright, 1965)."

Thus, the Simpson Group in southern Lea County, which is clay-rich carbonate interbedded with shale and sandstone, provides an excellent permeability/pressure barrier between the injection zone and the basement faults that were re-activated during Woodford time.

October 14, 2019

Page 4

We contend that the data permit conclusion that unmapped faults (which may be located by confidential seismic data that Solaris Water Midstream does not possess) near the Ironside State SWD #1 would be dominantly north-south normal faults, as is common in Lea County. The data on Plate 4 permit a conclusion that faults near the Ironside State SWD #1 are also most likely to exhibit a low FSP, like the mapped faults shown on Plate 4.

Given the density of Devonian SWDs (planned/new and active) near the proposed Ironside State SWD #1 well and the high likelihood that any unmapped faults in the area would exhibit a low FSP, the probability that injection into the Ironside State SWD #1 would cause an increase in pore pressure to trigger a seismic event of sufficient magnitude to cause damage is very low.

The users of this letter should recognize the uncertainties of using seismic maps of the Permian Basin to determine probability that injection of wastewater into a single SWD well could cause seismic events of sufficient magnitude to cause damage. However, on a regional basis injection by numerous wells into the Devonian/Fusselman/Montoya interval will raise the hydrostatic pressure. If pressure increases sufficiently, fluid could migrate from the injection zone along fault planes, up and down. Downward fluid migration will be intercepted first by the sandstone and similar permeable units of the Simpson Group. After fluid pressure increases in these sandstones and limestones, fluid would migrate downward into the Ellenberger Formation, which lies beneath the Simpson Group. This downward migration will next enter the permeable units of the Ellenberger and, over time, increase the fluid pressure. After fluid pressure in the Ellenberger is sufficiently large to cause downward migration along fault planes or other conduits, the migrating fluid will, in some areas, enter a thinner horizon of granite wash. Downward migrating fluids from the injection zone could then enter basement fault planes (if the pressure in the granite wash horizon is sufficient) and reduce the frictional resistance (lubricate the faults). Reduction in the frictional force in faults due to fluid invasion can and has caused seismic events. In my opinion, the probability that injection into the Ironside State SWD #1 will measurably contribute to the events described above and will cause a seismic event resulting in damage is so low as to be nil.

Sincerely,  
R.T. Hicks Consultants



Randall T. Hicks  
Principal

Copy: Solaris Water Midstream, LLC



**Ironside State SWD #1**  
**NGL Water Solutions Distance Plat**

**Legend**

- Ironside State SWD #1
- NGL Well
- Distance to NGL

Eddy &amp; Lea County, New Mexico

EXHIBIT 3  
Case 20812

SOLARIS

WATER MIDSTREAM

**ELS**  
EXPLORATION LAND SERVICES

**24S 31E**

STRIKER 2 SWD #001



14 13 18 17 16 15 14  
23 24 19 20 21 22 23 24  
26 25 30 29 28 27 26 25  
35 36 31 32 33 34 35 36

**24S 32E****25S 32E**

2 1 6 5 4 3 2 1  
11 12 7 8 9 10 11 12  
14 13 18 17 16 15 14 13  
23 24 19 20 21 22 23 24  
26 25 30 29 28 27 26 25  
35 36 31 32 33 34 35 36

Eddy

Lea

**25S 31E** Ironside  
State SWD #1

9.184 Miles

8.568 Miles

## ENERGY AND MINERAL RESOURCES OF NEW MEXICO, Petroleum Geology

Age	Stratigraphic units	
Triassic	Chinle	Chinle
	Santa Rosa	Santa Rosa
Ochoan	Dewey Lake	Dewey Lake
	Rusiller	Rusiller
	Salado	Salado
	Tansill	Castile
	Yates	
Guadalupian	Seven Rivers	
	Queen	Cherry Canyon
	Grayburg	
Permian	San Andres	Brushy Canyon
	Glorietta	
	Paddock	
	Blinebry	
	Tubb	
	Drinkard	
	Abo	Bone Spring
Wolfcampian	Hueco ("Wolfcamp")	Hueco ("Wolfcamp")
	Cisco	Cisco
	Bough	
Missourian	Canyon	Canyon
Des Moinesian	Strawn	Strawn
Atoka	Atoka	Atoka
Morrowan	Morrow	Morrow
Miss.	undivided	Barnett
	Upper	Upper
	Lower	undivided limestones
Dev.	Woodford	Woodford
	Upper	Woodford
	Middle	
	Lower	Thirtyone
Sil.	Wrislen	Thirtyone
	Middle	Wrislen
	Lower	Wristen
Ord.	Fusseman	Wristen
	Upper	Lower
	Middle	Lower
	Lower	Fusseman
Cambrian	Ellenburger	Fusseman
	Bliss	Montoya
Precambrian	igneous, metamorphics, volcanics	Simpson

EXHIBIT 4

Figure 8. Stratigraphic chart of the Northwest Shelf and Central Basin Platform.

Age	Stratigraphic units	
Triassic	Chinle	Chinle
	Santa Rosa	Santa Rosa
Ochoan	Dewey Lake	Dewey Lake
	Rusiller	Rusiller
	Salado	Salado
	Tansill	Castile
	Yates	
Guadalupian	Seven Rivers	
	Queen	Cherry Canyon
	Grayburg	
Permian	San Andres	Brushy Canyon
	Glorietta	
	Paddock	
	Blinebry	
	Tubb	
	Drinkard	
	Abo	Bone Spring
Wolfcampian	Hueco ("Wolfcamp")	Hueco ("Wolfcamp")
	Cisco	Cisco
	Bough	
Missourian	Canyon	Canyon
Des Moinesian	Strawn	Strawn
Atoka	Atoka	Atoka
Morrowan	Morrow	Morrow
Miss.	undivided	Barnett
	Upper	Upper
	Lower	undivided limestones
Dev.	Woodford	Woodford
	Upper	Woodford
	Middle	
	Lower	Thirtyone
Sil.	Wrislen	Thirtyone
	Middle	Wrislen
	Lower	Wristen
Ord.	Fusseman	Wristen
	Upper	Lower
	Middle	Lower
	Lower	Fusseman
Cambrian	Ellenburger	Fusseman
	Bliss	Montoya
Precambrian	igneous, metamorphics, volcanics	Simpson
		Ellenburger
		Bliss
		igneous, metamorphics, volcanics
		Precambrian

Figure 9. Stratigraphic chart of the Delaware Basin.

**SOLARIS WATER MIDSTREAM, LLC**  
**PROPOSED IRONSIDE STATE SWD #1**  
**Section 32-T25S-R32E**  
**1,270' FSL & 175' FEL**  
**Lea County, New Mexico**  
**12/17/2018**  
**Jim Brannigan, C.P.G., R.G.**

GL: 3,317'  
KB: 3,322' (est.)

<u>Tops</u>	<u>Depths (est.)</u>	<u>Subsea (est.)</u>
Rustler	1,100'	+2,222
T/Salt	1,475'	+1,847
B/Salt	4,275'	-953
T/Lamar	4,475'	-1,153
T/Bell Canyon – Oil	4,500'	-1,178
T/Cherry Canyon – Oil	5,525'	-2,203
T/Brushy Canyon – Oil	7,100'	-3,778
T/Bone Spring	8,575'	-5,253
T/1 <sup>st</sup> BS Sand – Oil	9,475'	-6,153
T/2 <sup>nd</sup> BS Sand – Oil	10,175'	-6,853
T/3 <sup>rd</sup> BS Sand – Oil	11,300'	-7,978
T/Wolfcamp – Oil	11,725'	-8,403
T/Canyon – Gas	13,500'	-10,178
T/Strawn – Gas	13,700'	-10,378
T/Atoka – Gas	13,975'	-10,653
T/Morrow LM	14,525'	-11,203
T/Morrow Clastics – Gas	14,825'	-11,503
T/Lower Morrow – Gas	15,450'	-12,128
T/Barnett	15,950'	-12,628
T/Miss LM	16,150'	-12,828
T/Devonian	17,100'	-13,778
T/Montoya	18,725'	-15,403

Tops below the 2<sup>nd</sup> Bone Spring Sand were picked using intervals from wells with e-logs or the NMOCD Form C-105. The upper section was picked by using the Yates Petroleum Corp. #1H Jefe BSJ Fed. Com. In Section 32-T25S-R32E.

2

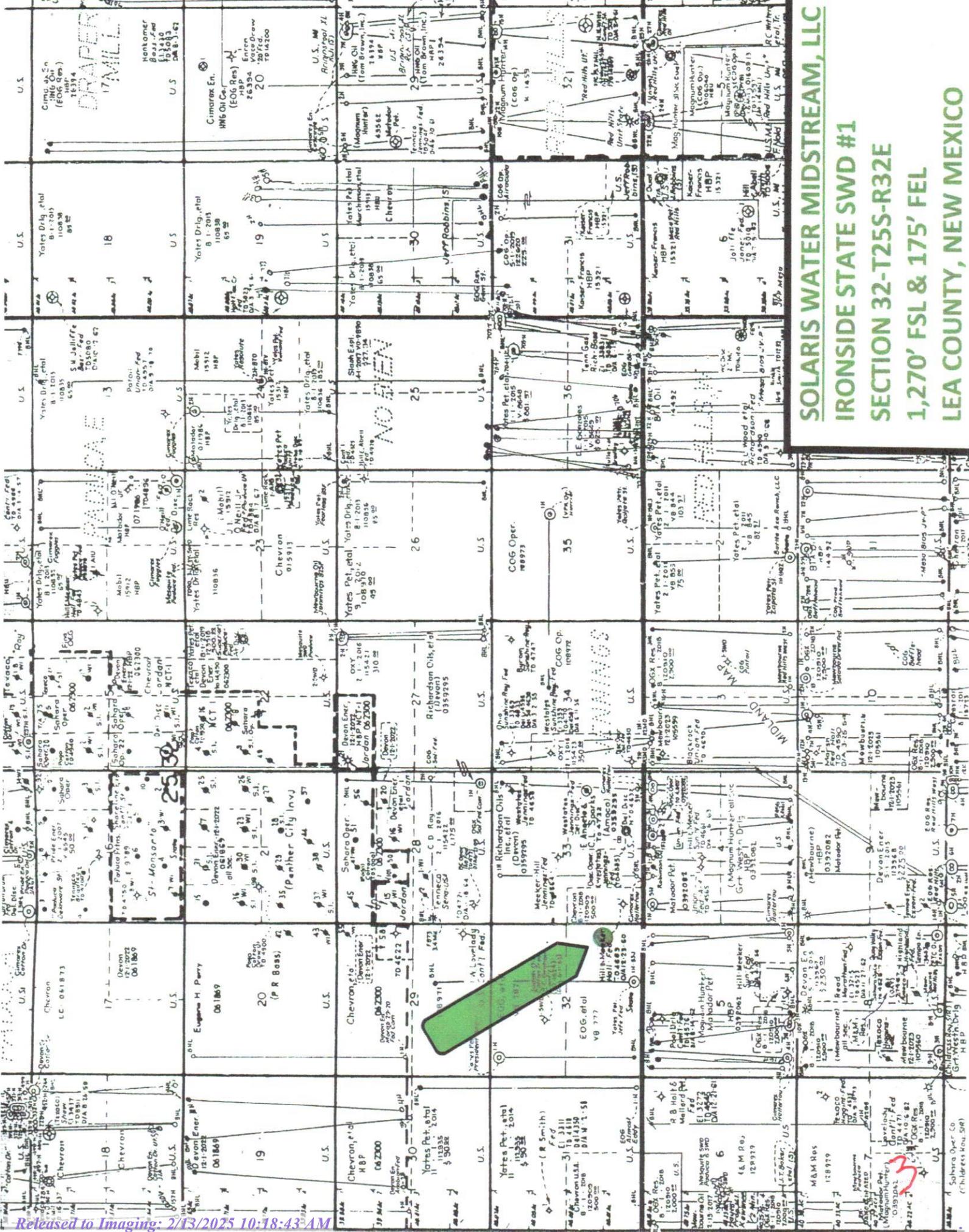
# SOLARIS WATER MIDSTREAM, LLC

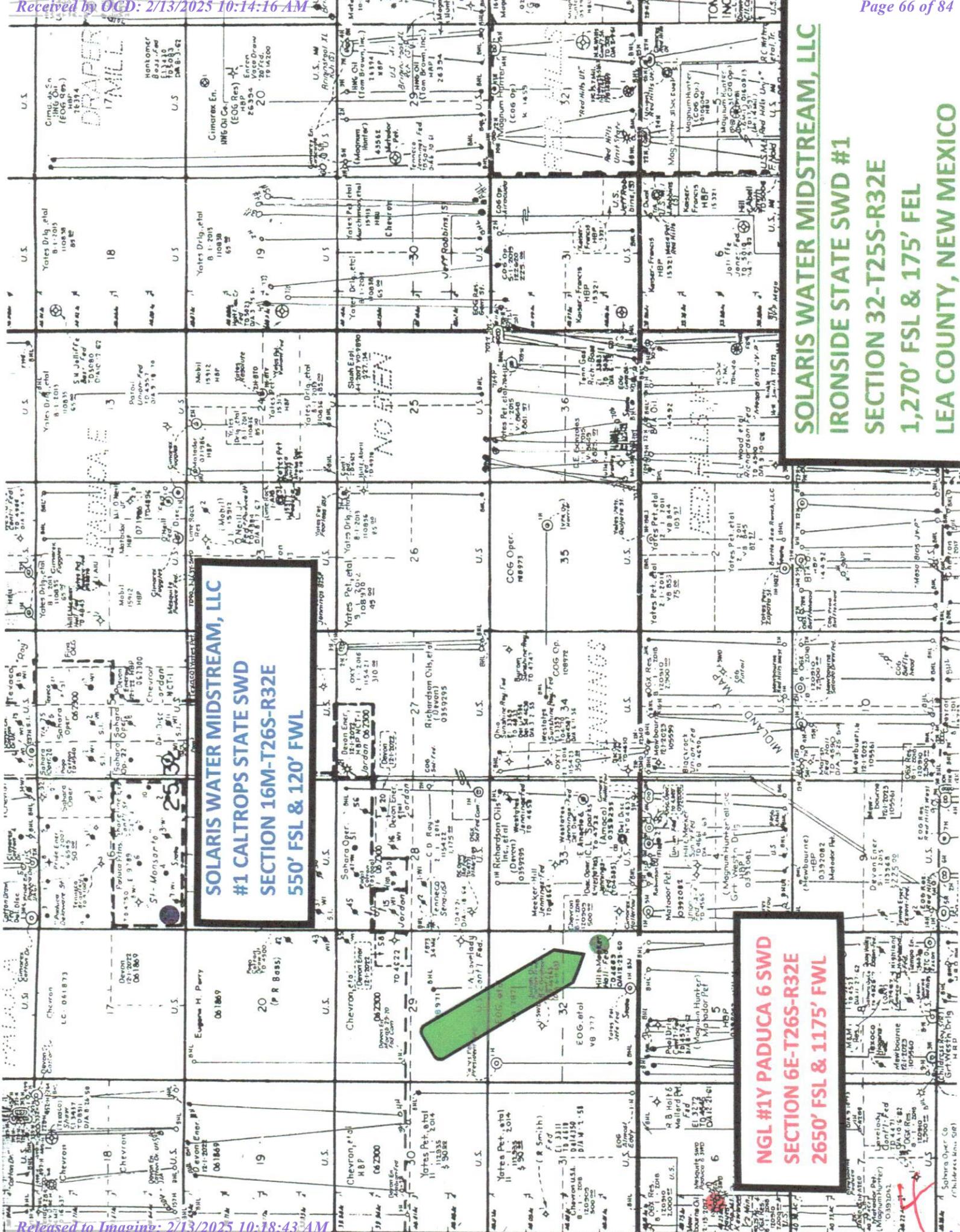
## IRONSIDE STATE SWD #1

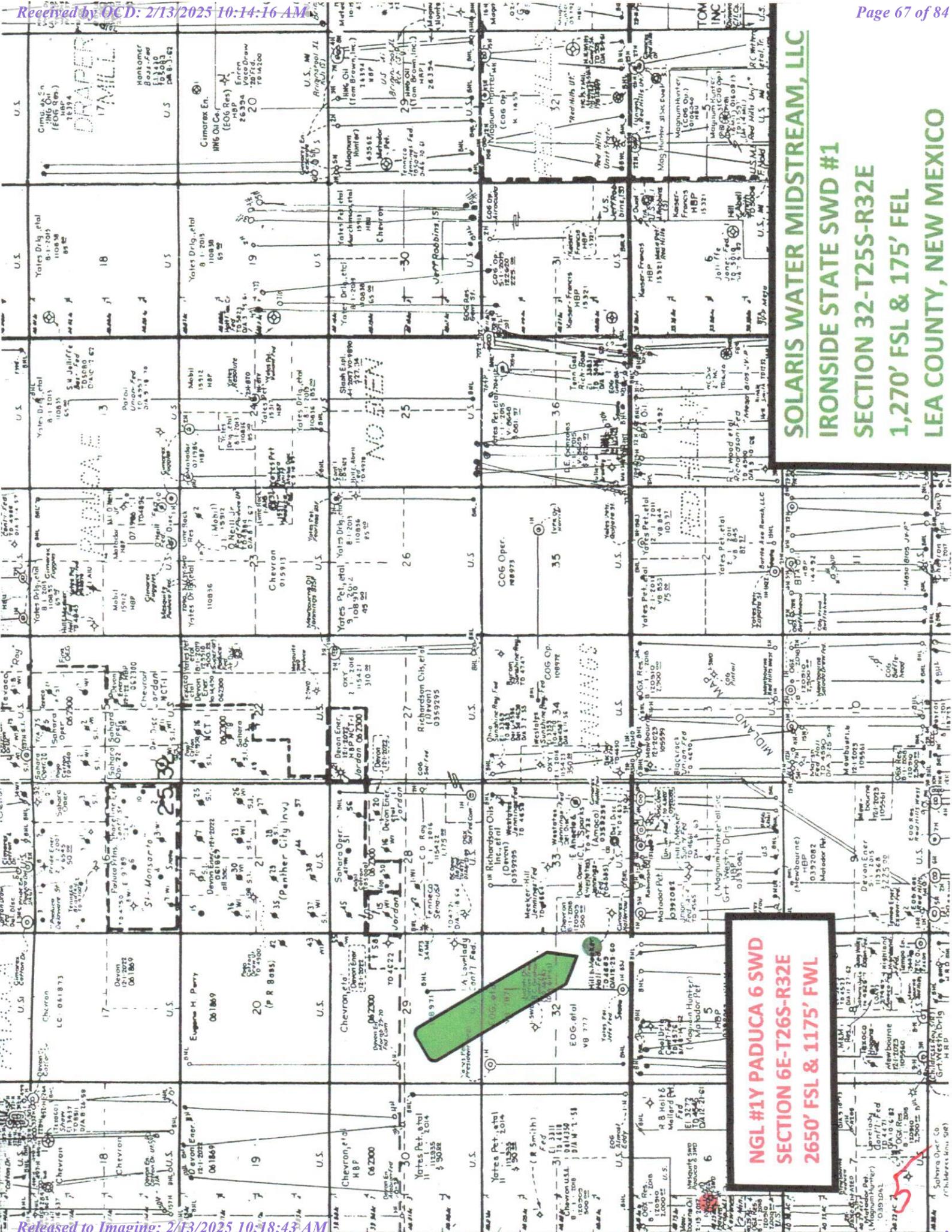
## SECTION 32-T25S-R32E

## 1,270' FSL & 175' FEL

## LEA COUNTY, NEW MEXICO





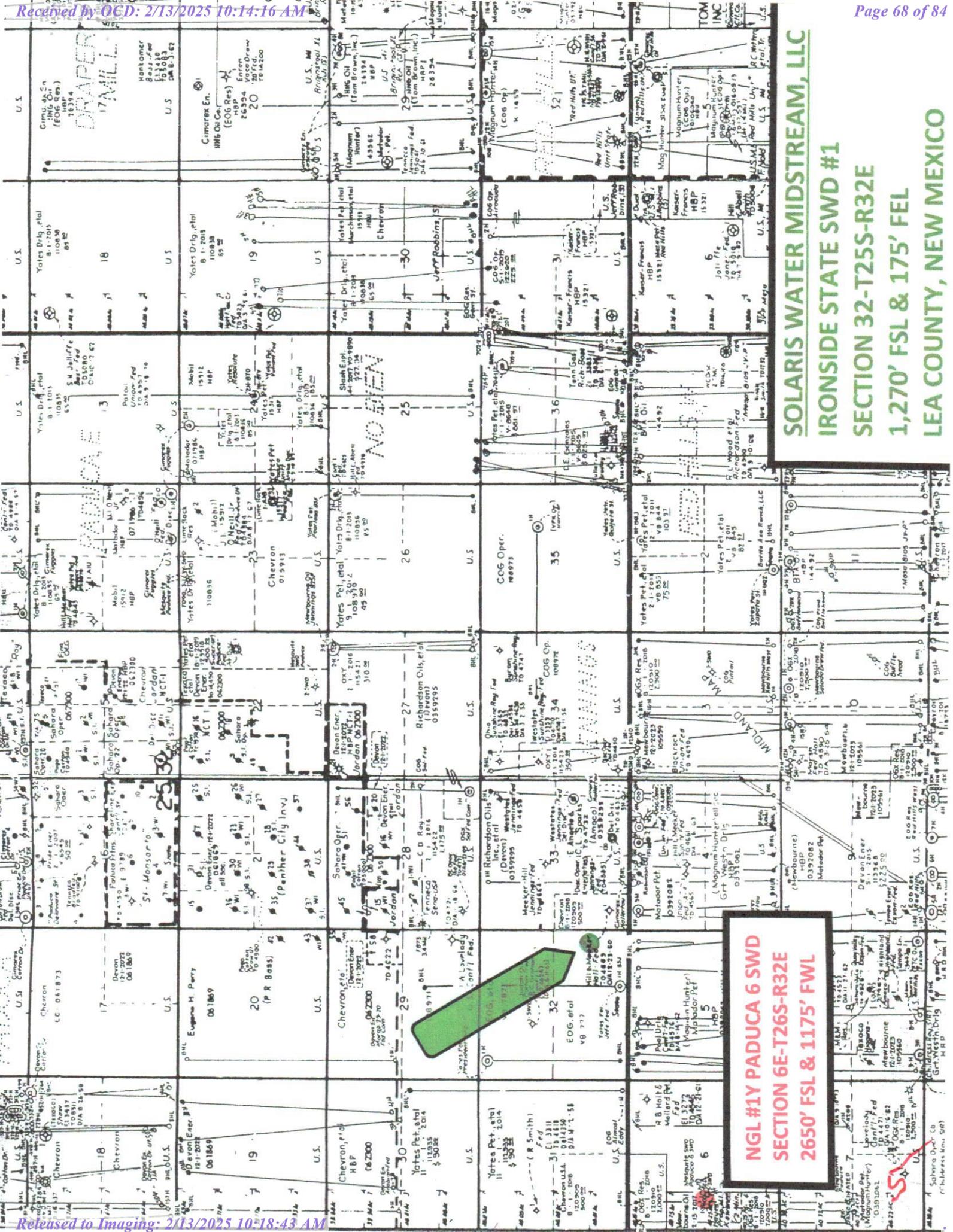


**IRONSIDE STATE SWD #1  
SECTION 32-T25S-R32E  
1,270' FSL & 175' FWL**

**LEA COUNTY, NEW MEXICO**

**SOLARIS WATER MIDSTREAM, LLC**

**NGL #1Y PADUCA 6 SWD  
SECTION 6E-T26S-R32E  
2650' FSL & 1175' FWL**



SIGN-IN HELP

Searches Operator Data Hearing Fee Application

## OCD Permitting

Home Searches Wells Well Details

### 30-025-43379 PADUCA 6 SWD #001Y [325927]

#### General Well Information

Operator:	[372338] NGL WATER SOLUTIONS PERMIAN, LLC	Direction:	Vertical
Status:	Active	Multi-Lateral:	No
Well Type:	Salt Water Disposal	Mineral Owner:	Private
Work Type:	New	Surface Owner:	Private
Surface Location:	E-06-26S-32E Lot: 2 2650 FSL 1175 FWL		
Lat/Long:	32.07216184,-103.7192409 NAD83		
GL Elevation:	3285	Sing/Mult Compl:	Single
KB Elevation:	3314	Potash Waiver:	False
DF Elevation:	3313		

- Quick
- General
- History
- Comments
- Operator
- Pits
- Casing
- Well Completion
- Financial
- Compliance
- Orders
- Production
- Transportation
- Points

#### Proposed Formation and/or Notes

LAND P/P PER BLM GLO

- Associated
- Well Field
- Well Location
- Well Activity

#### Depths

Proposed:	19250	True Vertical Depth:	18881
Measured Vertical Depth:	18881	Plugback Measured:	18881

- New Status
- New Field
- New Location
- New Site
- New Activity

#### Formation Tops

Formation	Top	Producing	Method Obtained
-----------	-----	-----------	-----------------



#### Event Dates

Initial APD Approval:	08/01/2016	Current APD Expiration:	08/01/2018
Most Recent APD Approval:	07/10/2019		
APD Cancellation:			
APD Extension Approval:			
Spud:	08/01/2016	Gas Capture Plan Received:	
Approved Temporary Abandonment:		TA Expiration:	
Shut In:			
Plug and Abandoned Intent Received:		PNR Expiration:	
Well Plugged:		Last MIT/BHT:	06/14/2019
Site Release:			
Last Inspection:	06/14/2019		



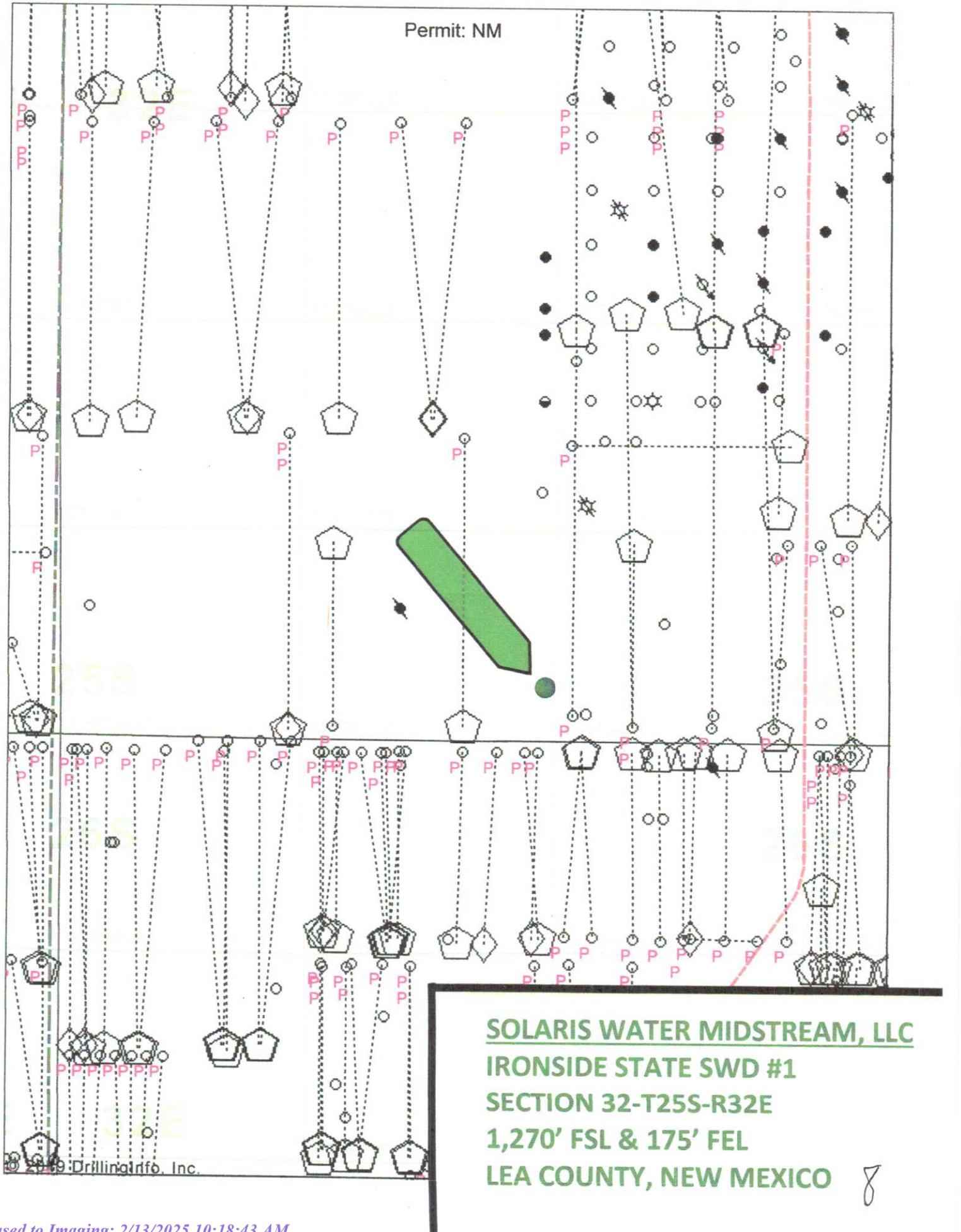
#### History

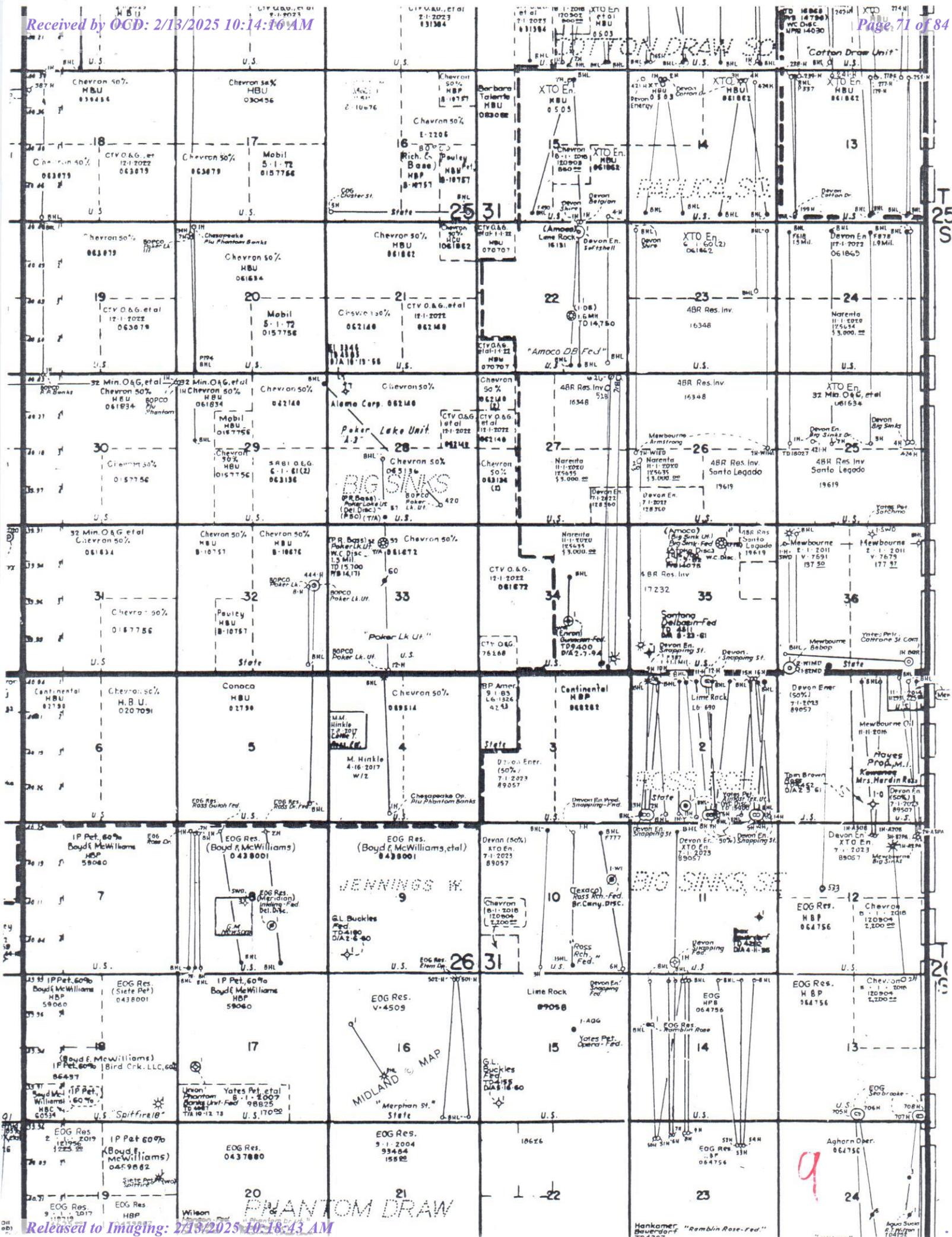
Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
07/10/2019	[325927] PADUCA 6 SWD	#001Y	[372338] NGL WATER SOLUTIONS PERMIAN, LLC	New	Salt Water Disposal	Active		
08/01/2016	[316377] PADUCA 6 SWD	#001Y	[161968] MESQUITE SWD, INC	New	Salt Water Disposal	Active		



#### Comments

6





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

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

Case No. 20812

**SELF-AFFIRMED STATEMENT OF NOTICE**

COUNTY OF SANTA FE )  
                        ) ss.  
STATE OF NEW MEXICO )

James Bruce deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Solaris Water Midstream, LLC.
3. Solaris Water Midstream, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the application filed herein.
4. Notice of the application was provided to the interest owners, at their last known addresses, by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules.
6. I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 5 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 10/16/19

  
\_\_\_\_\_  
James Bruce

EXHIBIT



**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)  
[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

September 26, 2019

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

To: Persons on Exhibit A

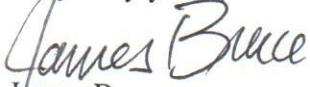
Ladies and gentlemen:

Enclosed is a copy of an application for approval of a salt water disposal well, filed with the New Mexico Oil Conservation Division by Solaris Water Midstream, LLC, regarding the Ironside State SWD Well No. 1 to be located in Unit Letter P of Section 32, Township 25 South, Range 32 East, N.M.P.M., Lea County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, October 17, 2019, at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application or as an objecting person, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting the matter at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, October 10, 2019. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,



James Bruce

Attorney for Solaris Water Midstream, LLC

ATTACHMENT



EXHIBIT A

Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Andrea Antillon

NGL Water Solutions Permian, LLC  
c/o Deanna Bennett  
Modrall Law Firm  
P.O. Box 2168  
Albuquerque, New Mexico 87103

Bureau of Land Management  
620 East Greene  
Carlsbad, New Mexico 88220

Sahara Operating Co.  
P.O. Box 4130  
Midland, Texas 79702

Robinson Oil Inc.  
P.O. Box 1829  
Eunice, New Mexico 88231

EOG Resources, Inc.  
EOG Y Resources Inc.  
5509 Champions Drive  
Midland, Texas 79706

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

Attention: Permitting Team

Mewbourne Oil Company  
Suite 1020  
500 West Texas  
Midland, Texas 79701

Attention: Corey Mitchell

Devon Energy Production Company, L.P.  
333 West Sheridan  
Oklahoma City, Oklahoma 73102

COG Production LLC  
COG Operating LLC  
One Concho Center  
600 West Illinois  
Midland, Texas 79701

Cimarex Energy Co. of Colorado  
Magnum Hunter Production, Inc.  
Suite 600  
600 North Marienfeld  
Midland, Texas 79701

OGX Operating, LLC  
OGX Resources Inc.  
P.O. Box 2064  
Midland, Texas 79702

3-M Energy Co.  
502 Koenigheim Street, No. 2B  
San Angelo, Texas 76903

OXY Y-1 Company  
Occidental Permian, L.P.  
Suite 110  
5 Greenway Plaza  
Houston, Texas 77046

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

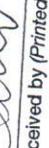
A. Signature 	B. Received by (Printed Name) <u>Scott Connell</u>	C. Date of Delivery <u>10-2-19</u>
D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No		
<p>OGX Operating, L.L.C. OGX Resources P.O. Box 2064 Midland, Texas 79702</p> <p>3. Service Type  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Restricted Delivery         </p>		
<p>4. Article Addressed to:</p> <p>5. Article Number (Transferred to) 7018 2290 0000 3426 2248</p> <p>6. Total Postage and Fees \$ 0622</p> <p>7. Postmark Here</p> <p>8. Certified Mail Fee \$ 0000</p> <p>9. Extra Services &amp; Fees (check box, and fee as appropriate)  <input type="checkbox"/> Return Receipt (facsimile)  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Adult Signature Required  <input type="checkbox"/> Adult Signature Restricted Delivery         </p>		
<p>PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>		

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

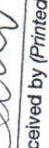
COMPLETE THIS SECTION ON DELIVERY	
<p>A. Signature </p> <p>B. Received by (Printed Name) <u>Scott Connell</u></p> <p>C. Date of Delivery <u>10-2-19</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Restricted Delivery         </p> <p>4. Article Addressed to: 3-M Energy Co. 502 Koenighem Street, No. 2B San Angelo, Texas 79603</p> <p>5. Postmark Here</p> <p>6. Total Postage and Fees \$ 0622</p> <p>7. Postmark Here</p> <p>8. Certified Mail Fee \$ 0000</p> <p>9. Extra Services &amp; Fees (check box, and fee as appropriate)  <input type="checkbox"/> Return Receipt (facsimile)  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Adult Signature Required  <input type="checkbox"/> Adult Signature Restricted Delivery         </p>	
<p>PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>	

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

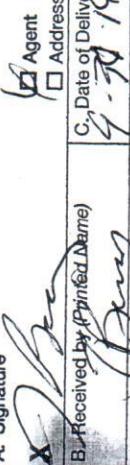
**OFFICIAL USE**

COMPLETE THIS SECTION ON DELIVERY	
<p>A. Signature </p> <p>B. Received by (Printed Name) <u>Scott Connell</u></p> <p>C. Date of Delivery <u>10-2-19</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type  <input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Restricted Delivery         </p> <p>4. Article Addressed to: 3-M Energy Co. 502 Koenighem Street, No. 2B San Angelo, Texas 79603</p> <p>5. Postmark Here</p> <p>6. Total Postage and Fees \$ 0622</p> <p>7. Postmark Here</p> <p>8. Certified Mail Fee \$ 0000</p> <p>9. Extra Services &amp; Fees (check box, and fee as appropriate)  <input type="checkbox"/> Return Receipt (facsimile)  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Adult Signature Required  <input type="checkbox"/> Adult Signature Restricted Delivery         </p>	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 See Reverse for Instructions</p>	

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

<b>A. Signature</b>		<b>B. Received by (Printed Name)</b>	<b>C. Date of Delivery</b>
		<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	7/14
D. Is delivery address different from item 1? If YES, enter delivery address below:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
1. Article Addressed to: EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
2. Article Number: <i>7018 2290 0000 3426 2309</i>			
PS Form 3811, July 2015 PSN 7530-02-000-9053			
3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Adult Signature Required <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Restricted Delivery			
4. Postage <b>Total Postage and Fees</b> \$ <b>0.62</b>			
5. Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ <b>0.00</b> <input type="checkbox"/> Return Receipt (electronic) \$ <b>0.00</b> <input type="checkbox"/> Certified Mail Restricted Delivery \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Required \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Restricted Delivery \$ <b>0.00</b>			
6. Postmark Here			

**COMPLETE THIS SECTION ON DELIVERY**

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

<b>A. Signature</b>		<b>B. Received by (Printed Name)</b>	<b>C. Date of Delivery</b>
		X	7/14
D. Is delivery address different from item 1? If YES, enter delivery address below:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
1. Article Addressed to: EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
2. Article Number: <i>7018 2290 0000 3426 2309</i>			
PS Form 3811, July 2015 PSN 7530-02-000-9053			
3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Adult Signature Required <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Restricted Delivery			
4. Postage <b>Total Postage and Fees</b> \$ <b>0.62</b>			
5. Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ <b>0.00</b> <input type="checkbox"/> Return Receipt (electronic) \$ <b>0.00</b> <input type="checkbox"/> Certified Mail Restricted Delivery \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Required \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Restricted Delivery \$ <b>0.00</b>			
6. Postmark Here			

**COMPLETE THIS SECTION**

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

<b>A. Signature</b>		<b>B. Received by (Printed Name)</b>	<b>C. Date of Delivery</b>
		X	7/14
D. Is delivery address different from item 1? If YES, enter delivery address below:		<input type="checkbox"/> Yes <input type="checkbox"/> No	
EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
1. Article Addressed to: EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706			
2. Article Number: <i>7018 2290 0000 3426 2309</i>			
PS Form 3811, July 2015 PSN 7530-02-000-9053			
3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Adult Signature Required <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Restricted Delivery			
4. Postage <b>Total Postage and Fees</b> \$ <b>0.62</b>			
5. Extra Services & Fees (check box, add fee as appropriate) <input type="checkbox"/> Return Receipt (hardcopy) \$ <b>0.00</b> <input type="checkbox"/> Return Receipt (electronic) \$ <b>0.00</b> <input type="checkbox"/> Certified Mail Restricted Delivery \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Required \$ <b>0.00</b> <input type="checkbox"/> Adult Signature Restricted Delivery \$ <b>0.00</b>			
6. Postmark Here			

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

2922 924E 0000 0622 7028 7022 8722 8722

A. Signature	<input type="checkbox"/> Agent
B. Received by (Printed Name)	<input type="checkbox"/> Addressee
C. Date of Delivery	
D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<i>James Beard</i>	
3. Service Type	
<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery	
Postage \$ <b>7028</b>	
Total Postage and Fees <b>COG Production L.L.C.</b>	
\$ <b>7028</b> Sent To <b>One Concho Center</b>	
Street and Apt. No. <b>600 West Illinois</b>	
City, State, Zip+4® <b>Midland, Texas 79701</b>	
See Reverse for Instructions	
PS Form 3800, April 2015 PSN 7530-02-000-9047	

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature *James Beard*

B. Received by (Printed Name) *James Beard*

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  No

1. Article Addressed to:

OXY Y-1 Company  
Occidental Permian, L.P.  
Suite 110  
5 Greenway Plaza  
Houston, Texas 77046

2. Article Number (Transfer from canine label) *7018 2290 0000 342b 2378*

(over \$500) *ST*

3. Service Type

Priority Mail Express®       Registered Mail™  
 Adult Signature Restricted Delivery       Registered Mail Restricted Delivery  
 Certified Mail®       Return Receipt for Merchandise  
 Certified Mail Restricted Delivery       Collect on Delivery  
 Signature Confirmation™  
 Signature Confirmation Restricted Delivery

Postage \$ **7018 2290 0000 342b 2378**

Total Postage and Fees **COG Production L.L.C.**

\$ **7018 2290 0000 342b 2378** Sent To **One Concho Center**

Street and Apt. No. **600 West Illinois**

City, State, Zip+4® **Midland, Texas 79701**

Domestic Return Receipt *ST*

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

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

2922 924E 0000 0622 7022 8722 8722

A. Signature <i>J. Beard</i>	
<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	
B. Received by (Printed Name) <b>J. Beard</b>	
C. Date of Delivery <b>9/30/15</b>	
D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
1. Article Addressed to:	
COG Production L.L.C. One Concho Center 600 West Illinois Midland, Texas 79701	
2. Article Number (Transfer from canine label) <i>7018 2290 0000 342b 2378</i>	
3. Service Type	
<input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery	
Postage \$ <b>7018 2290 0000 342b 2378</b>	
Total Postage and Fees <b>OXY Y-1 Company</b>	
\$ <b>7018 2290 0000 342b 2378</b> Sent To <b>Occidental Permian, L.P.</b>	
Street and Apt. No. <b>Suite 110</b>	
City, State, Zip+4® <b>5 Greenway Plaza Houston, Texas 77046</b>	
See Reverse for Instructions	
PS Form 3800, April 2015 PSN 7530-02-000-9047	

**U.S. Postal Service™ CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

2922 924E 0000 0622 7022 8722 8722

A. Signature <i>J. Beard</i>	
<input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee	
B. Received by (Printed Name) <b>J. Beard</b>	
C. Date of Delivery <b>9/30/15</b>	
D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
1. Article Addressed to:	
COG Production L.L.C. One Concho Center 600 West Illinois Midland, Texas 79701	
2. Article Number (Transfer from canine label) <i>9590 9402 4582 8278 5921 09</i>	
3. Service Type	
<input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery	
Postage \$ <b>9590 9402 4582 8278 5921 09</b>	
Total Postage and Fees <b>OXY Y-1 Company</b>	
\$ <b>9590 9402 4582 8278 5921 09</b> Sent To <b>Occidental Permian, L.P.</b>	
Street and Apt. No. <b>Suite 110</b>	
City, State, Zip+4® <b>5 Greenway Plaza Houston, Texas 77046</b>	
See Reverse for Instructions	
PS Form 3800, April 2015 PSN 7530-02-000-9047	

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL U.S.**

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

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

Total Postage and Fees \$

Sent To Suite 1020  
500 West Texas  
Street and Apt. No.: Midland, Texas 79701  
City, State, Zip+4: *Midland, TX 79701*

Postmark Here

Postage \$

PS Form 3800, April 2015 PSN 7530-02-000-9047  
See Reverse for Instructions

9822 925E 0000 0622 8T02

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you.

■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Energy Production Company, L.P.  
333 West Sheridan  
Oklahoma City, Oklahoma 73102

2. Article Number — 7018 2290 0000 3426 2279

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

57

Domestic Return Receipt

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL U.S.**

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

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

Total Postage and Fees \$

Sent To 333 West Sheridan  
Oklahoma City, Oklahoma 73102  
Street and Apt. No.: *Oklahoma City, Oklahoma 73102*  
City, State, Zip+4: *Oklahoma City, Oklahoma 73102*

Postmark Here

Postage \$

PS Form 3800, April 2015 PSN 7530-02-000-9047  
See Reverse for Instructions

6722 924E 0000 0622 8T02

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

■ Complete items 1, 2, and 3.  
 ■ Print your name and address on the reverse so that we can return the card to you.  
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mewbourne Oil Company  
Suite 1020  
500 West Texas  
Midland, Texas 79701

**A. Signature**  
*Debbie Hall*  Agent  Addressee

**B. Received by (Printed Name)** *Debbie Hall* **C. Date of Delivery** *5-5-15*

D. Is delivery address different from item 1?  Yes  No

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

57

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL U.S.**

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

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

Total Postage and Fees \$

Sent To 333 West Sheridan  
Oklahoma City, Oklahoma 73102  
Street and Apt. No.: *Oklahoma City, Oklahoma 73102*  
City, State, Zip+4: *Oklahoma City, Oklahoma 73102*

Postmark Here

Postage \$

PS Form 3800, April 2015 PSN 7530-02-000-9047  
See Reverse for Instructions

5722 924E 0000 0622 8T02

Domestic Return Receipt

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

0002	924F	0000	0622	8702
<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>B. Received by (Printed Name) <b>C. P. 30719</b></p> <p>D. Article Addressed to:</p> <p>1. Article Addressed to:  <b>X L W Odde</b></p> <p>2. Article <b>7018 2290 0000 3426 2255</b> (over 3500)</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>				
<p>3. Service Type  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Adult Signature Restricted Delivery  <input type="checkbox"/> Adult Signature Required  <input type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Restricted Delivery</p> <p>4. Postage            \$ <b>0.62</b></p> <p>5. Total Postage and Fees            \$ <b>0.62</b></p> <p>6. Extra Services &amp; Fees (check box, add fee as appropriate)  <input type="checkbox"/> Return Receipt (handcopy) \$ _____  <input type="checkbox"/> Return Receipt (electronic) \$ _____  <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____  <input type="checkbox"/> Adult Signature Required \$ _____  <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____</p> <p>7. Postmark            Here</p> <p>8. Street and Apt. No. <b>600 North Marienfeld</b>            City, State, Zip+4 <b>Midland, Texas 79701</b></p> <p>9. PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>				

**COMPLETE THIS SECTION ON DELIVERY**

**SENDER: COMPLETE THIS SECTION**

■ Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you.

■ Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature **X William**

B. Received by (Printed Name) **C. P. 30719**

C. Date of Delivery **07/01/17**

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

1. Article Addressed to:  
**Bureau of Land Management  
620 East Greene  
Carlsbad, New Mexico 88220**

2. Article **7018 2290 0000 3426 2255** (over 3500)

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

3. Service Type  
 Priority Mail Express®  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Return Receipt for Merchandise  
 Signature Confirmation™  
 Adult Signature Restricted Delivery  
 Adult Signature Required  
 Certified Mail®  
 Certified Mail Restricted Delivery  
 Collect on Delivery  
 Restricted Delivery  
 Restricted Delivery  
 Signature Confirmation  
 Restricted Delivery

4. Postage  
 \$ **0.62**

5. Total Postage and Fees (check box, add fee as appropriate)  
 Return Receipt (handcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

6. Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (handcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

7. Postmark  
 Here

8. Street and Apt. No. **600 North Marienfeld**  
 City, State, Zip+4 **Midland, Texas 79701**

9. PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**

**Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

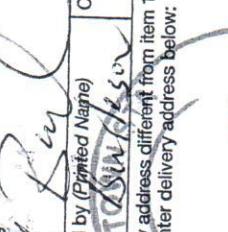
0002	924F	0000	0622	8702
<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>B. Received by (Printed Name) <b>C. P. 30719</b></p> <p>C. Date of Delivery <b>07/01/17</b></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>1. Article Addressed to:  <b>Bureau of Land Management 620 East Greene Carlsbad, New Mexico 88220</b></p> <p>2. Article <b>7018 2290 0000 3426 2330</b> (over 3500)</p> <p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>				
<p>3. Service Type  <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery</p> <p>4. Postage            \$ <b>0.62</b></p> <p>5. Total Postage and Fees (check box, add fee as appropriate)  <input type="checkbox"/> Return Receipt (handcopy) \$ _____  <input type="checkbox"/> Return Receipt (electronic) \$ _____  <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____  <input type="checkbox"/> Adult Signature Required \$ _____  <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____</p> <p>6. Extra Services &amp; Fees (check box, add fee as appropriate)  <input type="checkbox"/> Return Receipt (handcopy) \$ _____  <input type="checkbox"/> Return Receipt (electronic) \$ _____  <input type="checkbox"/> Certified Mail Restricted Delivery \$ _____  <input type="checkbox"/> Adult Signature Required \$ _____  <input type="checkbox"/> Adult Signature Restricted Delivery \$ _____</p> <p>7. Postmark            Here</p> <p>8. Street and Apt. No. <b>600 North Marienfeld</b>            City, State, Zip+4 <b>Midland, Texas 79701</b></p> <p>9. PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions</p>				

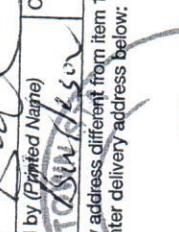
Domestic Return Receipt

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

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature   Agent  Addressee

B. Received by (Printed Name)  C. Date of Delivery SEP 30 2019

D. Is delivery address different from item 1?  Yes  No

If YES, enter delivery address below:

NGL Water Solutions Permian, LLC  
c/o Deanna Bennett  
Modrall Law Firm  
P.O. Box 2168  
Albuquerque, New Mexico 87103

1. Article Addressed to:

2. Article Number: 7018 2290 0000 3426 2347 (over \$500)

3. Service Type  Priority Mail Express®  Registered Mail™  Certified Mail®  Certified Mail Restricted Delivery  Collect on Delivery  Restricted Delivery  Adult Signature Required  Signature Confirmation™  Signature Confirmation Restricted Delivery

4. Postage 

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

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Certified Mail Fee \$ 0.62

Total Postage and Fees (check box, add fee as appropriate) \$ 0.62

Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (handcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark Here

Street and Apt. No., or P.O. Box 2168  
City, State, Zip+4 Albuquerque, New Mexico 87103

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Certified Mail Fee \$ 0.62

Total Postage and Fees (check box, add fee as appropriate) \$ 0.62

Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (handcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage 

1. Article Number: 7018 2290 0000 3426 2347 (over \$500)

2. Article N 

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

Certified Mail Fee \$ 0.62

Total Postage and Fees (check box, add fee as appropriate) \$ 0.62

Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (handcopy) \$ \_\_\_\_\_  
 Return Receipt (electronic) \$ \_\_\_\_\_  
 Certified Mail Restricted Delivery \$ \_\_\_\_\_  
 Adult Signature Required \$ \_\_\_\_\_  
 Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage 

1. Article Number: 7018 2290 0000 3426 2347 (over \$500)

2. Article N 

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature   Agent  Addressee

B. Received by (Printed Name)  C. Date of Delivery SEP 30 2019

D. Is delivery address different from item 1?  Yes  No

If YES, enter delivery address below:

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

1. Article Addressed to:

2. Article Number: 7018 2290 0000 3426 2347 (over \$500)

3. Service Type  Priority Mail Express®  Registered Mail™  Certified Mail®  Adult Signature Required  Adult Signature Restricted Delivery

4. Postage 

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

Domestic Return Receipt

5 L

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

2018 2290 0000 3426 2316 2326 2426

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT** *S*

*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$	
Total Postage and Fees \$	
Sahara Operating Co. Sent To P.O. Box 4130 Street and Apt. No., Midland, Texas 79702	
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

2018 2290 0000 3426 2316 2326 2426

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT** *SF*

*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$ _____	
<input type="checkbox"/> Return Receipt (electronic) \$ _____	
<input type="checkbox"/> Certified Mail Restricted Delivery \$ _____	
<input type="checkbox"/> Adult Signature Required \$ _____	
<input type="checkbox"/> Adult Signature Restricted Delivery \$ _____	
Postage \$	
Total Postage and Fees \$	
Robinson Oil Inc. Sent To P.O. Box 1829 Street and Apt. No., or P.O. Box Eunice, New Mexico 88231	
City, State, ZIP+4®	

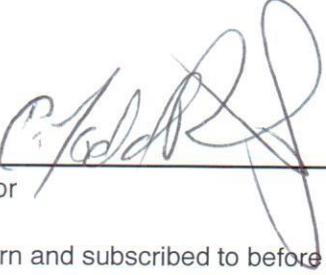
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

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

Beginning with the issue dated  
October 02, 2019  
and ending with the issue dated  
October 02, 2019.

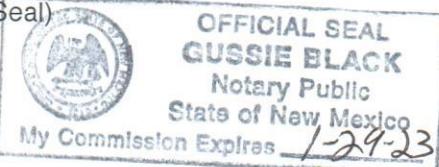
  
Editor

Sworn and subscribed to before me this  
2nd day of October 2019.

Gussie Black  
Business Manager

My commission expires  
January 29, 2023

(Seal)



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

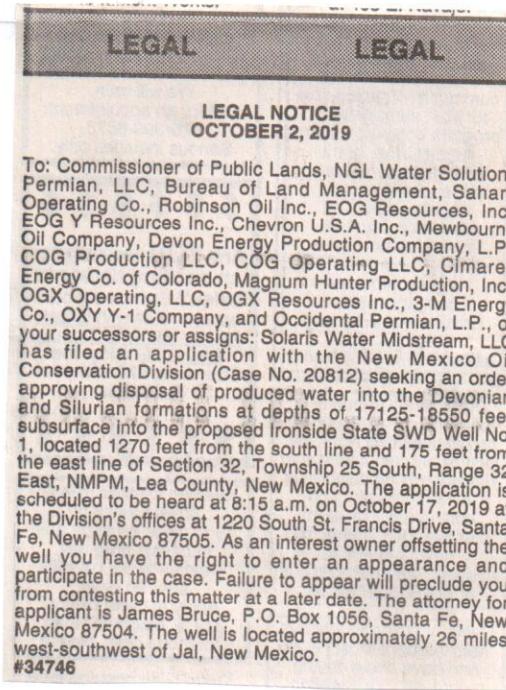


EXHIBIT 6

01101711

00234092

JAMES BRUCE  
JAMES BRUCE, ATTORNEY AT LAW  
P.O. BOX 1056  
SANTA FE, NM 87504

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 431771

**CONDITIONS**

Operator:  NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID:
	264235
	Action Number: 431771

Action Type:  
[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)**CONDITIONS**

Created By	Condition	Condition Date
stacy.sandoval	None	2/13/2025