

RECEIVED:	REVIEWER:	TYPE:	APP NO.:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: Solaris Water Midstream, LLC**OGRID Number:** 371643**Well Name:** 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

- | |
|---|
| <input type="checkbox"/> Notice Complete |
| <input type="checkbox"/> 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

Digital signature of Randall Hicks
Date: 2019-04-24 08:06:19 -07:00

Signature

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: Randall H

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: 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

OPERATOR: Solaris Water Midstream, LLC

WELL NAME & NUMBER: Ironside SWD #1

WELL LOCATION: 1270 FSL 175 FEL
FOOTAGE LOCATIONWELLBORE SCHEMATICP
UNIT LETTER32
SECTION
WELL CONSTRUCTION DATA
Surface CasingHole Size: See Attachments _____
Cased Size: _____ Casing Size: _____Cemented with: _____ sX. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sX. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sX. or _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____ Injection Interval

Injection Interval

feet to _____

4

(Perforated or Open Hole; indicate which)

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 _____

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

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						1							
SOLARIS WATER MIDSTREAM						3317'							

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)
<u>SURFACE LOCATION</u> Lat - N 32.083115° Long - W 103.689228° NMSPCE - N 394569.9 E 740823.8 (NAD-83)				
175' 1270'				
N:393253.2 E:735675.2 (NAD 83)		N:393276.7 E:738338.9 (NAD 83)		N:393301.8 E:741002.9 (NAD 83)

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.

Signature

Date

Printed Name

Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my 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

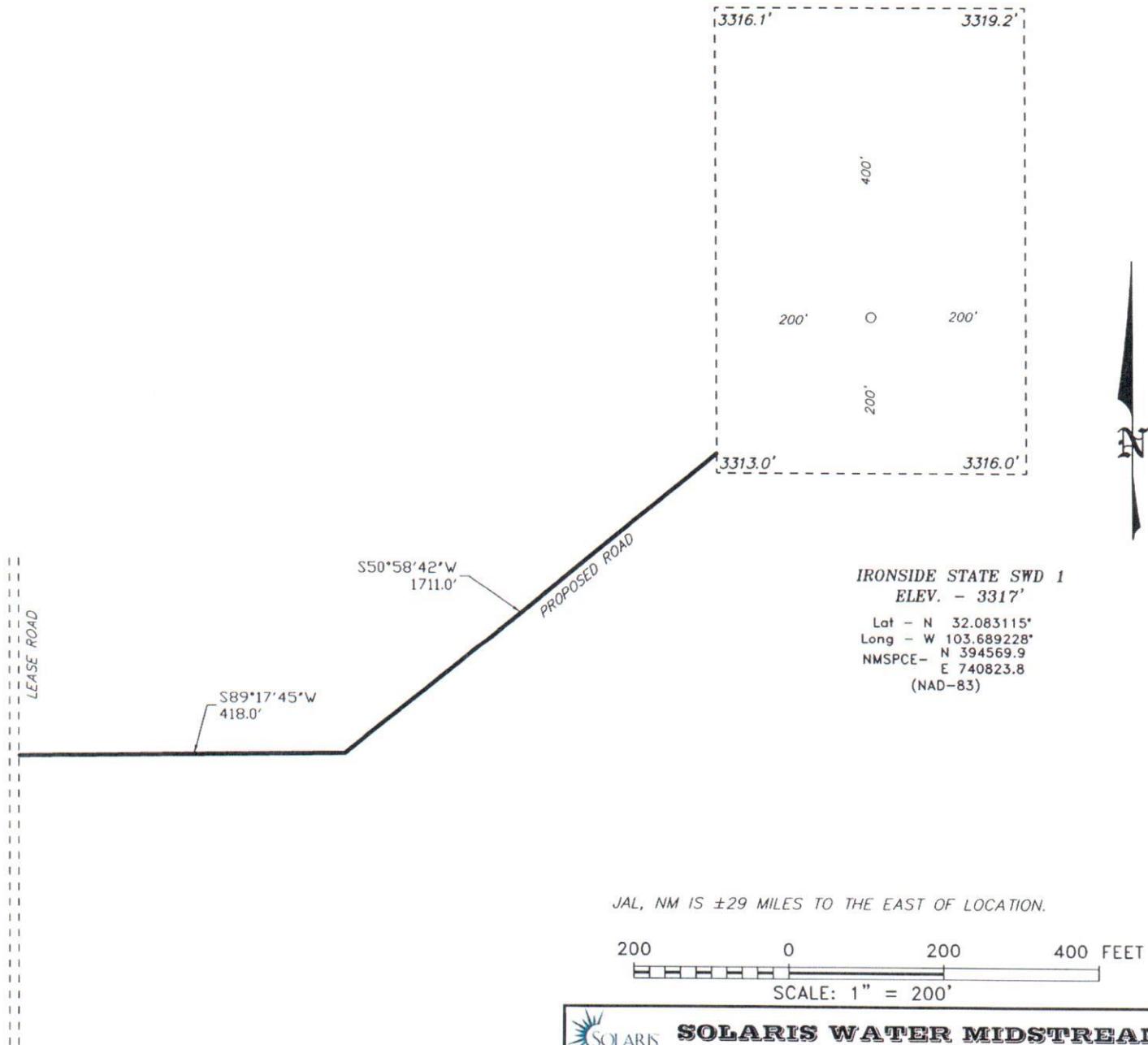


Certificate No. Gary L. Jones 7977
DASH SURVEYOR

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 34390

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

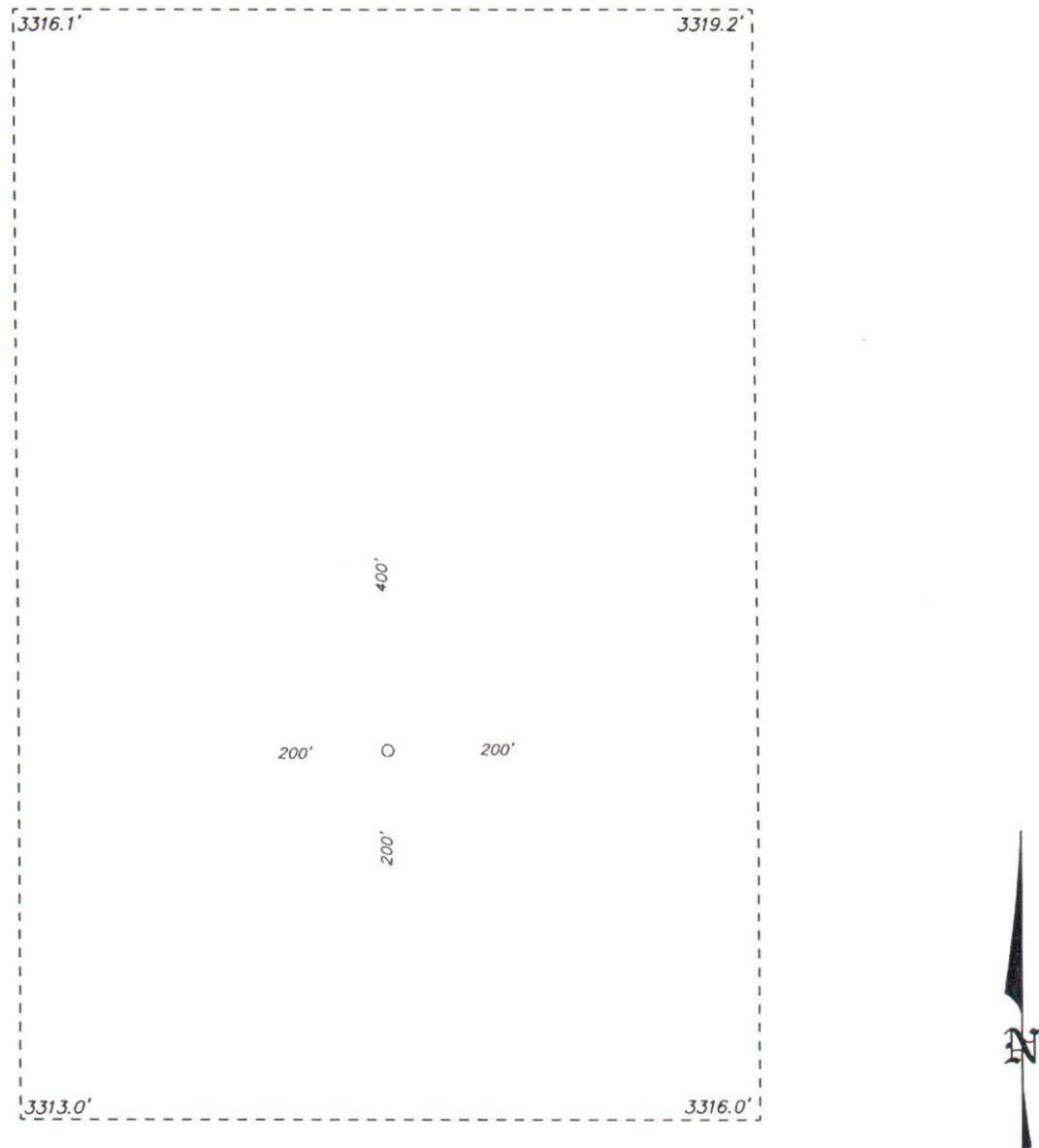


SOLARIS WATER MIDSTREAM

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 / WELD PAD TOPO

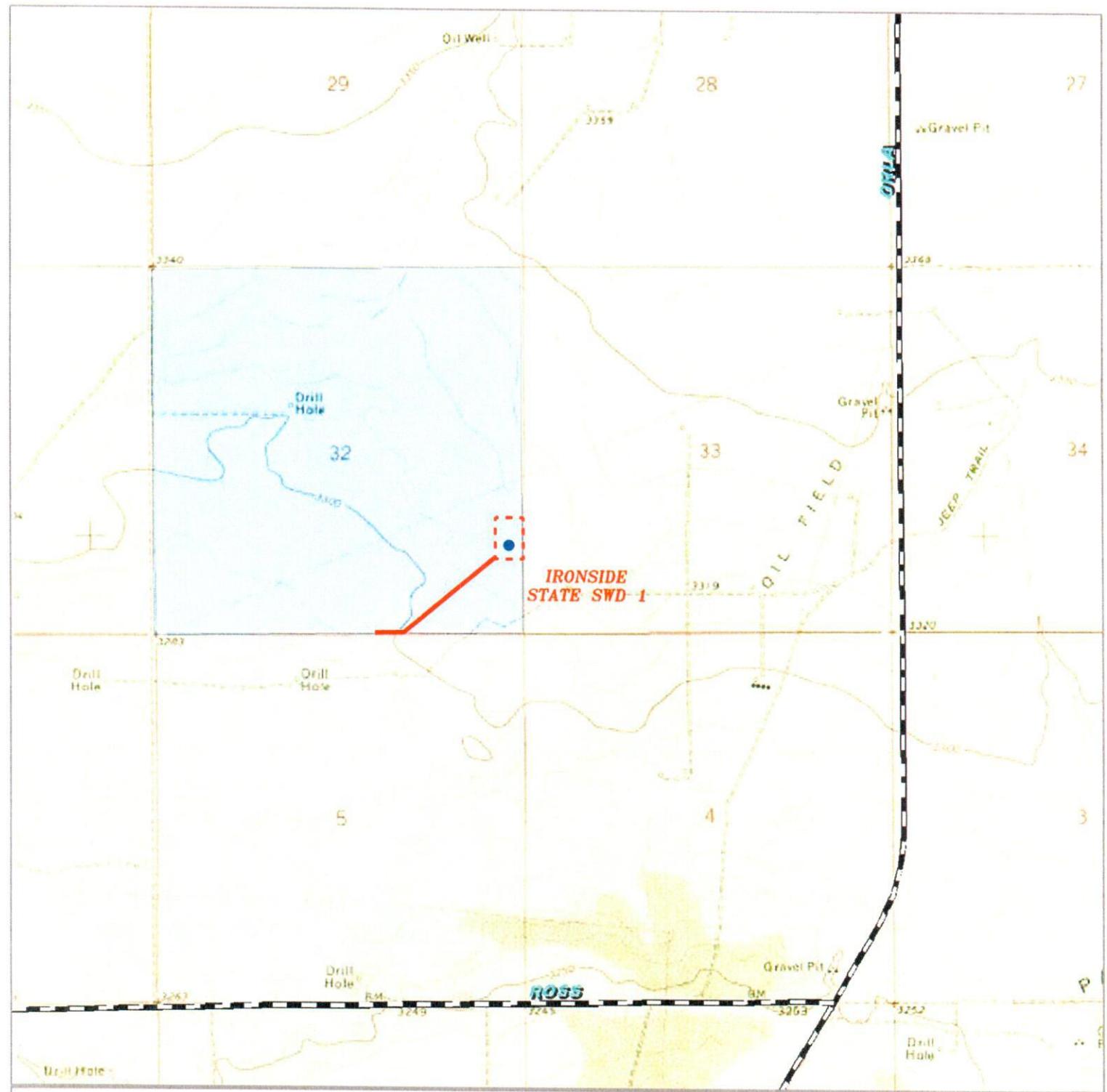
THE IRONSIDE STATE SWD 1 LOCATED 1270' FROM

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.

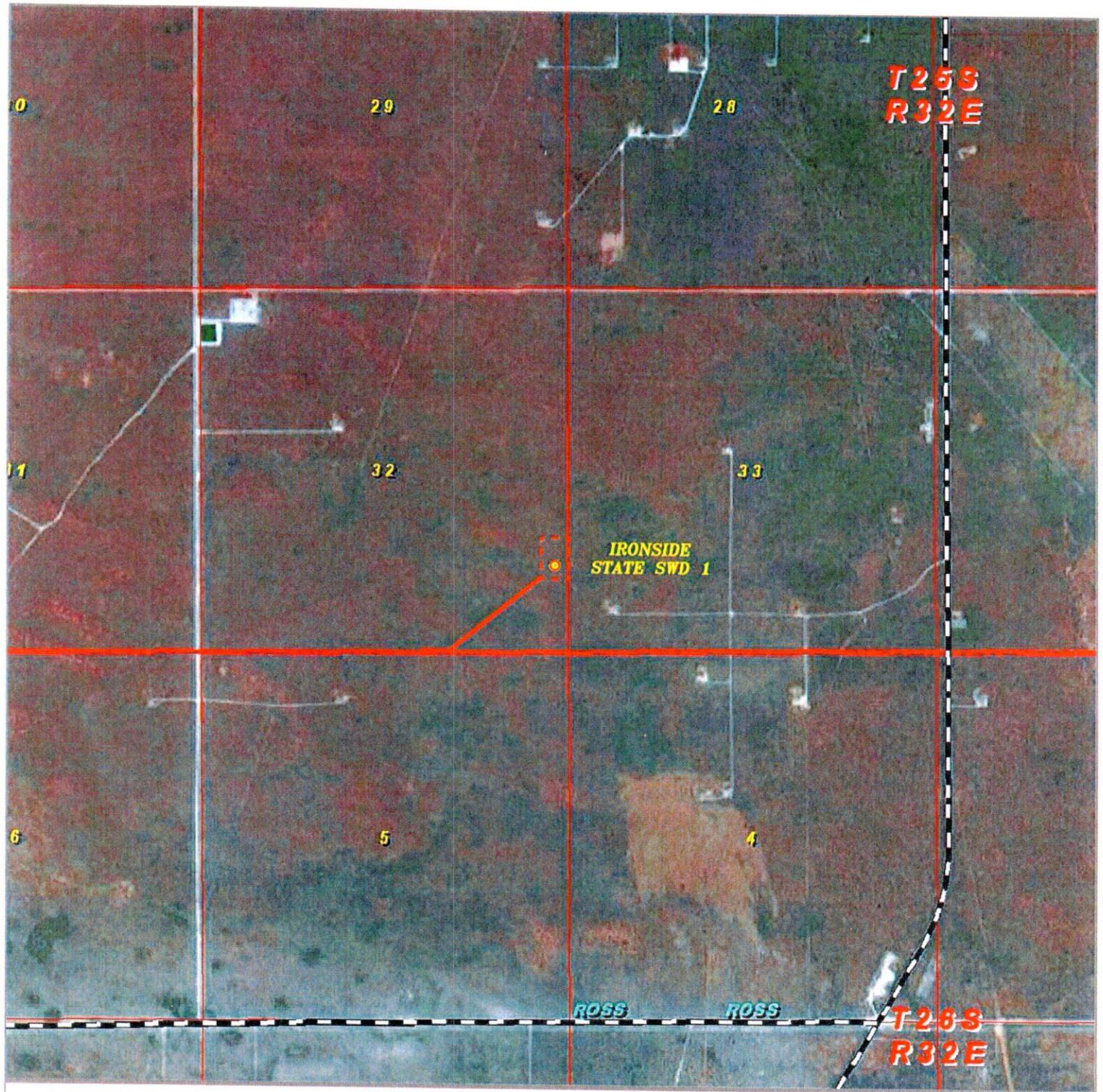
8



IRONSIDE STATE SWD 1

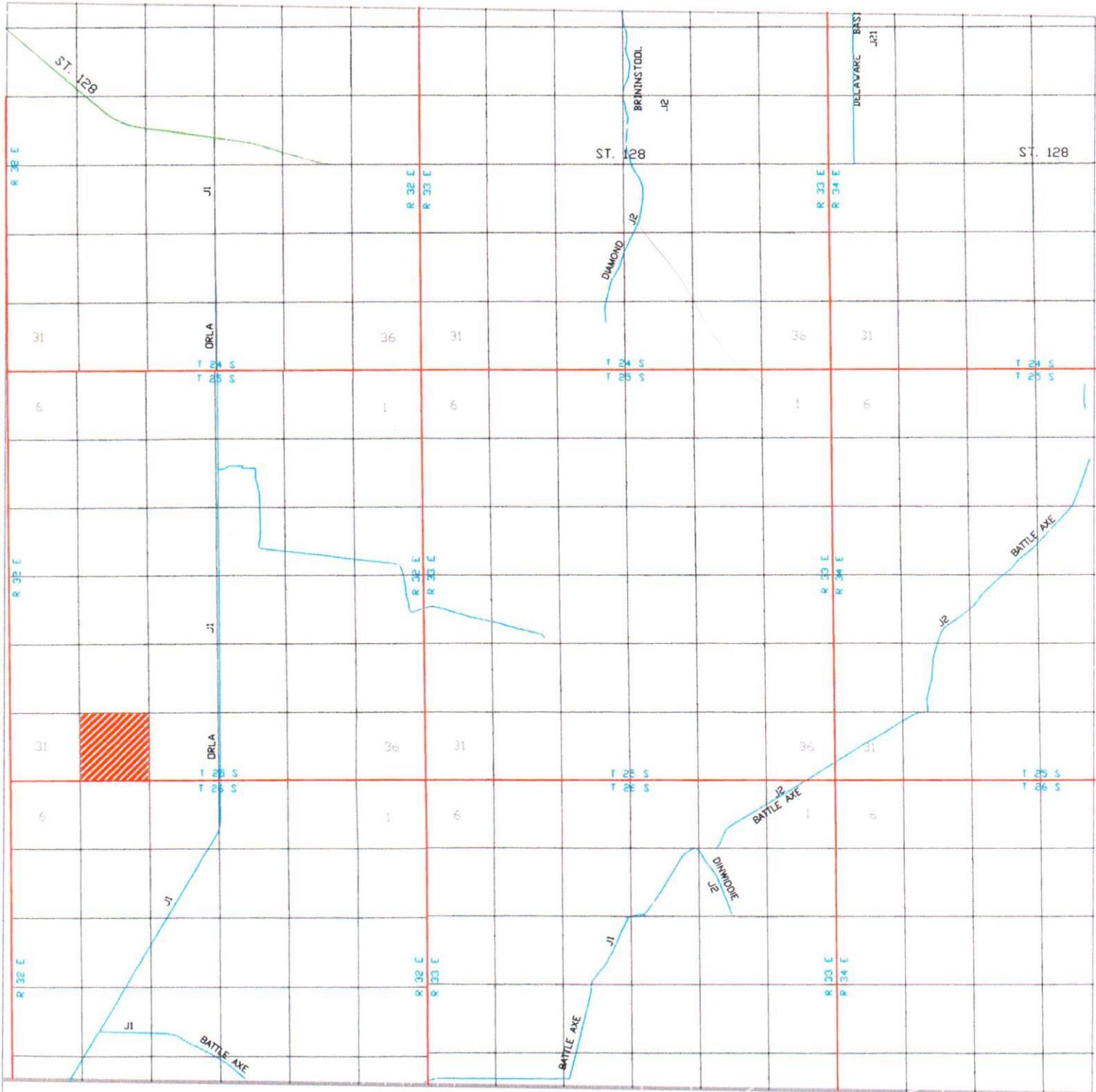
Located 1270' FSL & 175' FEL
 Section 32, Township 25 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.





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.



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.



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.

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

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. P	Section 32	Township 25 S	Range 32 E	Lot Idn	Feet from the 1270	North/South line SOUTH	Feet from the 175	East/West line EAST	County 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. #1H 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
Bell Canyon	-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
Wolfcamp	-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		
Devonian	-13778	17125
Fusselman		
T/Montoya	-15403	18750
Injection Interval	17125	18550
TD		18550

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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				
* Surface Location										
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.

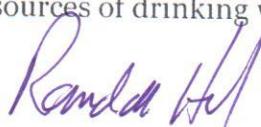
***XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken**

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.

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 ¹
- 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 east²
- 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



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

² 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)

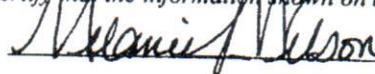
Submit To Appropriate District Office
 Two Copies
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 811 S. First St., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

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.	30-025-43379
2. Type of Lease	<input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN
3. State Oil & Gas Lease No.	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:	5. Lease Name or Unit Agreement Name									
<input checked="" type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)										
<input type="checkbox"/> C-144 CLOSURE ATTACHMENT (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)										
7. Type of Completion:	1Y									
<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	9. OGRID									
MESQUITE SWD, INC.	161968									
10. Address of Operator	11. Pool name or Wildcat									
PO BOX 1479 CARLSBAD NM 88221	[96101] SWD;DEVONIAN									
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.)				
08/01/2016	03/04/2017	04/11/2017	04/09/2017			3285' GR				
18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run							
18881'	18881'	No	Comp GR/Borehole Profile/CBL							
22. Producing Interval(s), of this completion - Top, Bottom, Name	17310' - 18881' (OH) Devonian									
23. CASING RECORD (Report all strings set in well)										
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD			AMOUNT PULLED			
20"	94#	950'	26"	1730 sx			0			
13 3/8"	68#	4329'	17 1/2"	2570 sx			0			
*9 5/8"	53.5#	11930'	12 1/4"	2860 sx			0			
*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.	LINER RECORD					TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
7 5/8"	10365'	17310'	2120 sx		4 1/2"	17329'	17284'			
					5 1/2"	9926'				
26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.									
17310' - 18881' Open Hole	DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED									
28.	PRODUCTION									
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in)				
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 (Sold, used for fuel, vented, etc.)					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  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>										

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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.

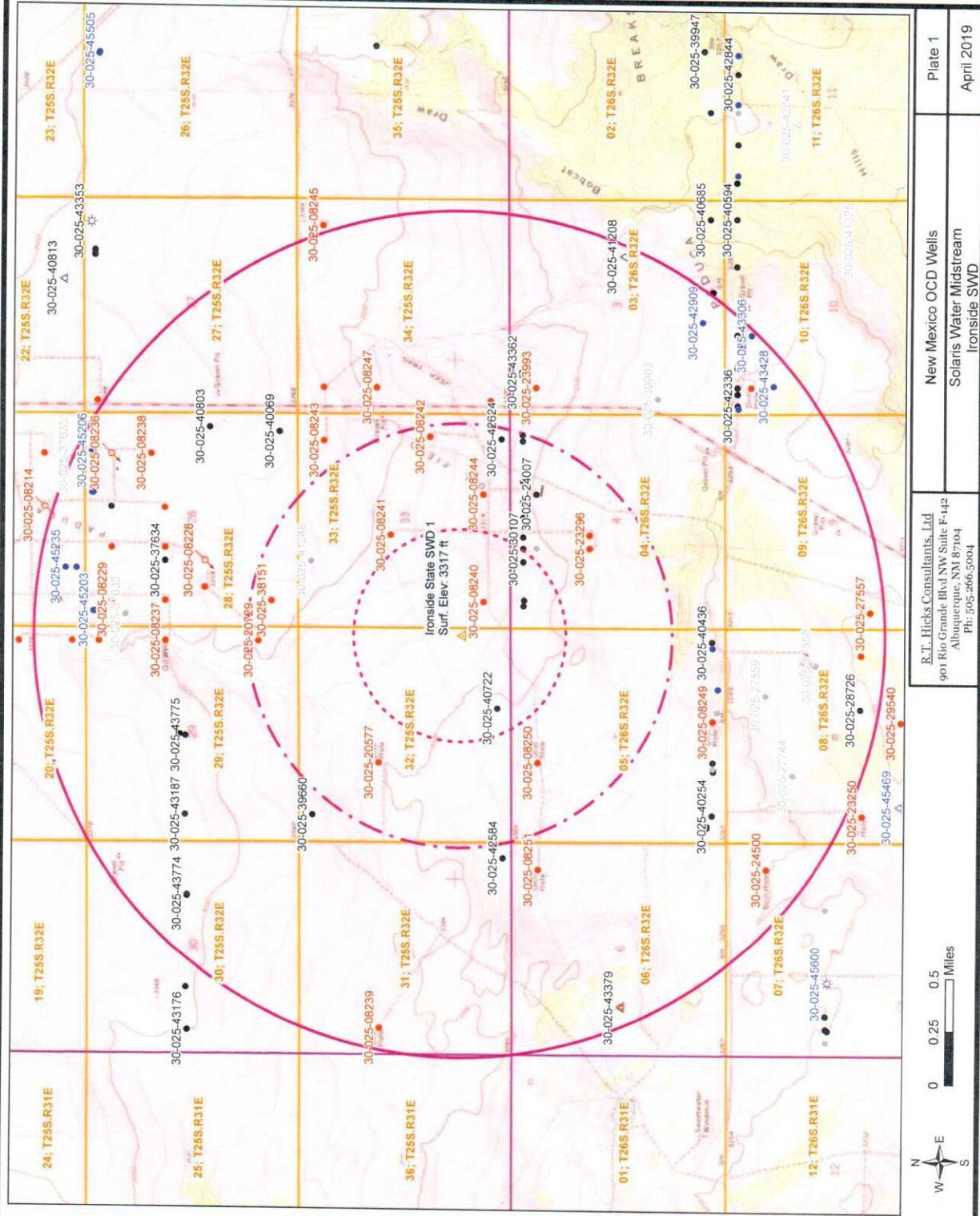
No. 1, from..... to..... feet.....
No. 2, from..... to..... feet.....
No. 3, from..... to..... feet.....

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

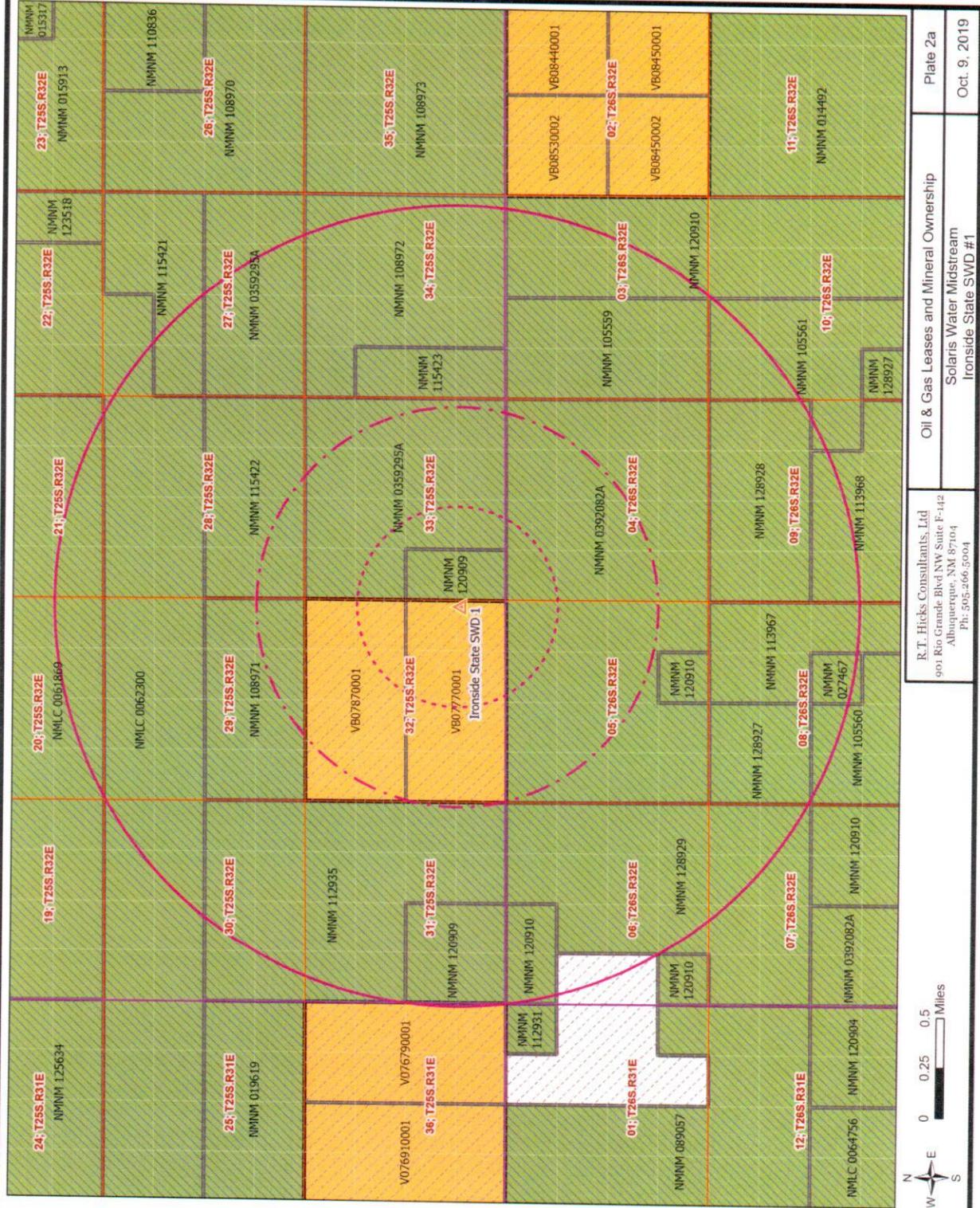


Symbology	
▲	SWD
---	Distance (miles)
0.5	
1	
2	
○	New Mexico OCD Wells - District 1
●	Oil, Active
○	Oil, Cancelled
●	Oil, New
△	Oil, Plugged
◆	Salt Water Injection, Active
○	Salt Water Injection, Cancelled
△	Salt Water Injection, New
○	Salt Water Injection, Plugged

Plate 1

April 2019

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505-266-5004	New Mexico OCD Wells
	Solaris Water Midstream Ironside SWD



R.T. Hicks Consultants, Ltd.
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505-266-5004

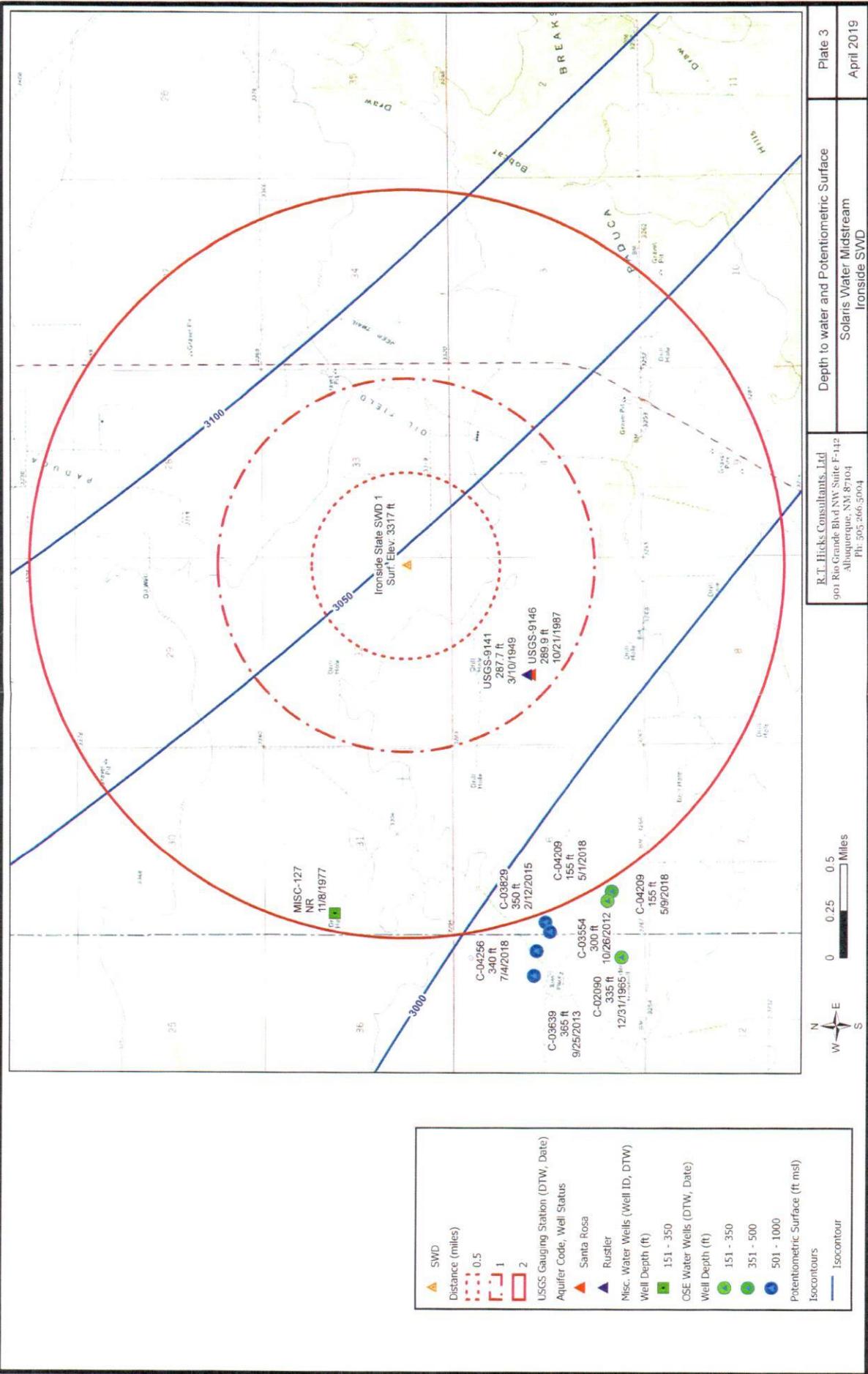
Oil & Gas Leases and Mineral Ownership
Solaris Water Midstream
Ironside State SWD 1

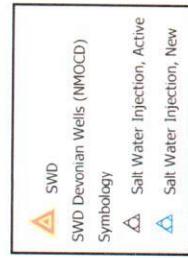
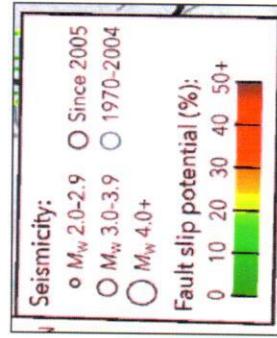
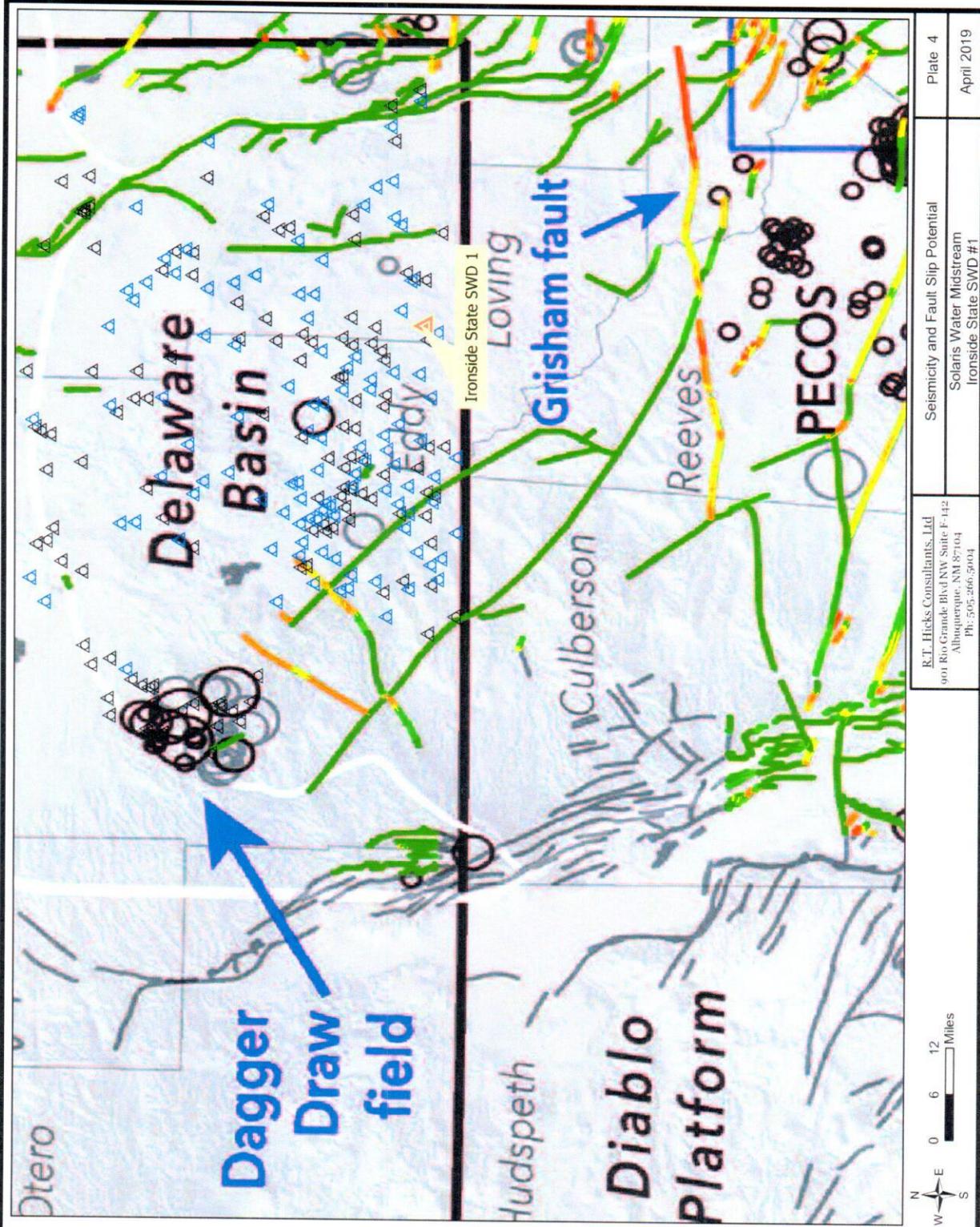
Plate 2a
Oct. 9, 2019

26





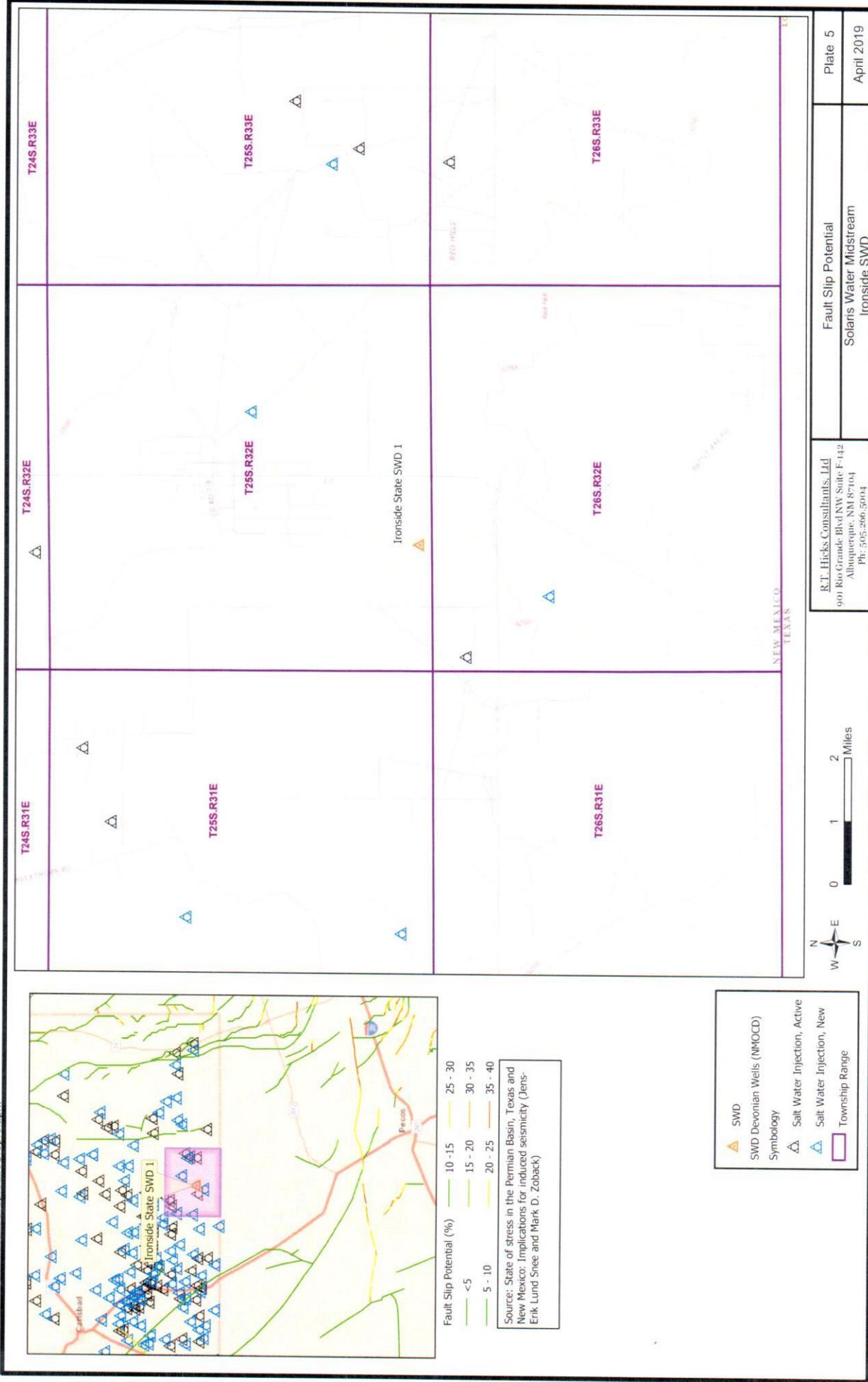




Seismic and Fault Slip source:
State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity (Jens-Erik Lund Snee and Mark D. Zoback)

25B

R.T. Hicks Consultants, Ltd	Seismicity and Fault Slip Potential
901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Solaris Water Midstream
Ironside State SWD #1	Plate 4 April 2019



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 |

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	Spud Date	Plug Date
30-025-27079	PRE-ONGARD WELL #001	O	M-34-255-32E	214263	PRE-ONGARD WELL OPERATOR	P	O	0	0	4650	1/1/1900	1/1/1900
30-025-27557	EXXON FEDERAL #001	O	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	O	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	O	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

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

Solaris Water Midstream

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	32.0505995	-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

Table 1
Oil & Gas Wells within 1-Mile AOR

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	[97903] 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	[97838] JENNINGS, UPPER BONE SPRING SHALE; [97903] 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	[97903] 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	[97903] WC-025 G-08 S253235G, LWR BONE SPRIN
30-025-40722	7377	EG RESOURCES INC	O	A	JEFE B5J FEDERAL COM #001H	1	O-32-255-32E	10526	[97838] 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	[97903] 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	[97838] 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	[97838] 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	[97838] 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	[97838] 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	[97838] 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	[97838] 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

Unique Key	Lease Prefix	Lease Number	Lease Suffix	OGRID Number	OGRID Name
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.

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Table 3 - Produced Water Chemistry of Nearby Wells

api	s	two	RNG	CTY	formation	sampledate	ph	tds_mg/l	resistivity_ohm_cm	sodium_mg/l	calcium_mg/l	iron_mg/l	manganese_mg/l	chloride_mg/l	bicarbonate_mg/l	sulfate_mg/l	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	104.7
3002539949	6.255	32E	Lea	AVALON MIDDLE		12/8/2011 0:00	7	145592.5		55405.5	440	25	71	0.3	84840	2806	109.2
3002540105	6.255	32E	Lea	AVALON LOWER		1/7/2011 0:00	7	145530.9		55235.9	433	27	80		84846	2720.6	109.0
3002541996	10.255	32E	Lea	BONE SPRING 2ND SAND		4/7/2015 0:00	6.5	20714.8	0.05017	68477	40416	41.3	1744.6	1.53	126763.4	122	0
300258176	10.255	32E	Lea	DELAWARE						30560.0					15260.0	112	939
300258182	15.255	32E	Lea	DELAWARE						309960							
300258196	16.255	32E	Lea	DELAWARE						220416					138660	139	462
IRONIDES SWO																	
3002598221	22.255	32E	Lea	DELAWARE						276839					170500	198	552
3002598226	27.255	32E	Lea	DELAWARE						239464					141800	64	908
CALTROPS SWO	32.255	32E	Lea														
3002598242	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	295.3.6		14435.8	528.7	300
3001542113	2.265	31E	EDDY	BONE SPRING 3RD SAND		9/30/2015 0:00	6.5	9495.6	0.08933	30031.5	34012.5	31.7	483.6	0.33	57495.5	244	0
3001542113	2.265	31E	EDDY	BONE SPRING 3RD SAND		1/27/2015 0:00	7.2	94863.9	0.08954	3024.8	3424.8	19.9	438.9		58782.2	355.2	200
3001542168	2.265	31E	EDDY	WOLF CAMP		10/7/2015 0:00	7.3	81366.4	0.1004	2687.4	2687.4	26.1	444.6		59015.2	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	433.7		50281.2	399.7	100
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	56987.4	327.9	150
3001539162	2.265	31E	EDDY	AVALON UPPER		6/26/2014 0:00	6.5	17988.5		71575.7	617.4	21.8	109.6	0	13107.2	366.6	632
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
3001539104	2.265	31E	EDDY	AVALON UPPER		8/31/2011 0:00	6.5	16250.1		57137	3886	42	716	0	101374	3660	844
3001539105	10.265	31E	EDDY			3/20/2015 0:00	6.3	11440.5	0.07008	38922.4	3647.3	76.8	487.9	1.05	66173.2	756	70
3001529605	10.265	31E	EDDY			4/14/2015 0:00	6.3	54116.9		46100	52724	49.6	219.3	3.73	0	73.2	0
3001540994	10.265	31E	EDDY	BONE SPRING 2ND SAND		6/5/2014 0:00	6.6	13816.9		44458.5	6280.8	29.7	781.3	0	84470	122	0
3001540994	10.265	31E	EDDY	BONE SPRING 2ND SAND		6/6/2014 0:00	6.6	13837.6		44458.5	6280.8	29.7	781.3	0	84470	122	0
3001537899	10.265	31E	EDDY	AVALON UPPER		6/26/2014 0:00	6.5	19863.8		68948.2	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	94095	244	0
3001537899	10.265	31E	EDDY	AVALON UPPER		7/19/2011 0:00	7.1	209352.4		70089.5	7327	203	1557		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	13407	366	0
3001538193	11.265	31E	EDDY	AVALON UPPER		7/19/2011 0:00	7	19856.7		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	Lea	DELAWARE						212112					132100	135	425
3002508278	25.265	32E	Lea	DELAWARE						216350					134500	198	998
3002508291	26.265	32E	Lea	DELAWARE						244815					153500	88	220
3002508296	26.265	32E	Lea	DELAWARE						254895					156000	976	373
3002508308	35.265	32E	Lea	DELAWARE						255115					160000	85	310

S

Table 4 - Chemistry of Produced Water from Devonian Formations

wellName	pH	section	township range	county	state	field	formation depth	sample id	sample date	ph	specific gravity	conductivity	conductivity	resistivity	resistivity	specific conductance, mg/l	magnesium, mg/l	calcium, mg/l	bicarbonate, mg/l	chloride, mg/l	bicarbonate, mg/l	chloride, mg/l	magnesium, mg/l
CROSBODS DEVONIAN UNIT #001	6.44	300252073	14-30	14-16	SDN	CROSBOD DEVONIAN	301	17.70	1/17/1965 0:00	7.7	1.019	0.330	0.330	0.330	487.2	63.1	2111	89710	235.1	235.1	629.6	14.8	
CROSBODS DEVONIAN UNIT #001	6.44	300252073	15-25	14-16	SDN	CROSBOD DEVONIAN	301	17.70	1/17/1965 0:00	7.7	1.019	0.330	0.330	0.330	89710	235.1	235.1	89710	235.1	235.1	629.6	14.8	
DEVONIAN STATE #005	6.44	3002540728	20-25	16-17	SDN	UNKNOWN	4/11/1965 0:00	5.8	1.019	0.315	6.5	64.41	54	143.00	1030	159	353.56	44.5	686	39.206	18		
WEST TOLLAIRICH DEVONIAN UNIT #004	5.67	300251299	3-245	28E	SDN	FLOW IN	4/11/1965 0:00	5.6	1.019	0.315	6.5	64.41	54	143.00	1030	159	353.56	44.5	686	39.206	18		
WEST TOLLAIRICH DEVONIAN UNIT #004	5.255	300251297	17-25	38E	LEA	DELLANDER DEVONIAN	50858	50776	5/27/1971 0:00	7.5	1.019	0.330	0.330	0.330	184000	24.4	200	337.00	375	347.0	51105	287	
WEST TOLLAIRICH DEVONIAN UNIT #010	5.255	300251286	14-095	34E	LEA	DELLANDER DEVONIAN	50844	52475	5/27/1971 0:00	7.5	1.019	0.330	0.330	0.330	184000	24.4	200	337.00	375	347.0	51105	287	
DEVONIAN STATE #006	6.44	3002501832	27-095	38E	SDN	UNKNOWN	SEPARATION	5/27/1971 0:00	7.5	1.019	0.330	0.330	0.330	0.330	0.330	487.2	63.1	2111	89710	235.1	235.1	629.6	14.8
CROSBODS STUDIO #13	6.44	3002501810	27-095	34E	LEA	CROSBOD PENNSYLVANIAN	H-107-TR	5/27/1971 0:00	7.5	1.019	0.330	0.330	0.330	0.330	0.330	487.2	63.1	2111	89710	235.1	235.1	629.6	14.8
CROSBODS STUDIO #13	6.44	3002501810	27-095	34E	LEA	CROSBOD PENNSYLVANIAN	H-107-TR	5/27/1971 0:00	7.5	1.019	0.330	0.330	0.330	0.330	0.330	487.2	63.1	2111	89710	235.1	235.1	629.6	14.8

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OSE Well Logs



WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

C. C.
R. S.
M. R.
2019 JUL 13 AM 9:53

1. GENERAL AND WELL LOCATION								
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)	LATITUDE	DEGREES 32	MINUTES 4	SECONDS 23.4	N			
	LONGITUDE	103	43	28.3	W			
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - FSS SECTION, TOWNSHIP, RANGE WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION								
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"/> ARTESIAN <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)	
0	100	17.5 ASTM53 Grade B		Welded	12.57	.188		
0	326	12.25 ASTM53 Grade B		Welded	6.065	.288		
326	666	12.25 SDR 17 PVC		Spiral	5.8	SDR 17	.032	
3. ANNULAR MATERIAL		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	TO		Portland FFI Cement		80	Venice
		0	100	17.5	Portland FFI Cement		132	Venice
		6	315	12.25	Silica Sand 8/16		219	Pour
		315	666	12.25				

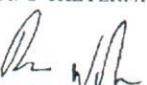
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06-20-17)

FILE NO.	C-4256	POD NO.	1	TRN NO.	62650
LOCATION	26S. 31E. 1.2.4.4	EXPL		WELL TAG ID NO.	NIA

PAGE 1 OF 2

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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 Calcite	Y	✓ N
19	85	66	Red Sand w/ Calcite	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: <input type="checkbox"/> PUMP <input checked="" type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 40.00
5. TEST/RIG SUPERVISION	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:				
6. SIGNATURE:	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 OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. <u>C-4256</u>	POD NG. <u>1</u>	TRN NO. <u>Wallace</u>
LOCATION <u>21as. 31E. 1. 2-4-4</u>	EXPL	WELL TAG ID NO. <u>NIA</u>

PAGE 2 OF 2

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WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

STATE OF NEW MEXICO
ROSENBERG OFFICE

2010 MAY 21 AM 10:46

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO.) C-4209-POD1		WELL TAG ID NO.		OSE FILE NO(S)			
	WELL OWNER NAMES Baker Ranch				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS P.O. Box 24				CITY Silver City	STATE NM	ZIP 88062	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	04 32	MINUTES 02.5	SECONDS N	* ACCURACY REQUIRED ONE HUNDREDTH OF A SECOND		
		LONGITUDE	43 103	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 WD1706	NAME OF LICENSED DRILLER Bryce Wallace			NAME OF WELL DRILLING COMPANY Elite Drillers Corporation			
	DRILLING STARTED 4/28/18	DRILLING ENDED 5/1/18	DEPTH OF COMPLETED WELL (ft) 360	BORE HOLE DEPTH (ft) 360	DEPTH WATER FIRST ENCOUNTERED (ft) 155			
	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) 155			
	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 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 +2	TO 200	11 PVC		Spline	6	SDR 21		
200	360	11 PVC		Spline	6	SDR 21	.032	
3. ANNULAR MATERIAL	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 0	TO 25	Portland LII			25	Slurry/Pour	
	25	360	8-16 Silica Sand			145	Pour	
FOR OSE INTERNAL USE								
FILE NO	C-4209		POD NO.	1	TRN NO.	621334		
LOCATION	205.32E.6.33.2		EXPL		WELL TAG ID NO.	N/A	PAGE 1 OF 2	

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

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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
Newbourne Oil Co.	O	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	Suite 600	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.	Suite 1100	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	310 Old Santa Fe Trail	Santa Fe	NM	87504
Bureau of Land Management	L	Oil & Gas Division	620 E. Greene St.	Carlsbad	NM	88220

O = Operator (Well)

L.BLM = Lessee of Record - Federal

L.S = Lessee of Record - State

L = Landowner

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<p>For delivery information, visit our website at www.usps.com.</p> <p>EUNICE, NM 88231</p> <p>OFFICIAL MAIL RECEIPT</p> <p>Certified Mail Fee \$3.50</p> <p>\$ \$2.80</p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$ \$0.00</p> <p><input type="checkbox"/> Return Receipt (electronic) \$ \$0.00</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Required \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$ \$0.00</p> <p>Postage \$ \$0.55</p> <p>Total Postage and Fees \$ \$3.85</p> <p>Sent To ROBINSON OIL CO. Street and Apt. No., or PO Box No. P.O. Box 364 City, State, ZIP+4 EUNICE, NM 88231</p> <p>PS Form 3800, April 2015 PSN 7530-02-000-9047</p>		<p>For delivery information, visit our website at www.usps.com.</p> <p>MIDLAND, TX 79702</p> <p>OFFICIAL MAIL RECEIPT</p> <p>Certified Mail Fee \$3.50</p> <p>\$ \$2.80</p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$ \$0.00</p> <p><input type="checkbox"/> Return Receipt (electronic) \$ \$0.00</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Required \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$ \$0.00</p> <p>Postage \$ \$0.55</p> <p>Total Postage and Fees \$ \$3.85</p> <p>Sent To COG RESOURCES, INC. Street and Apt. No., or PO Box No. P.O. Box 2267 City, State, ZIP+4 MIDLAND, TX 79702</p> <p>PS Form 3800, April 2015 PSN 7530-02-000-9047</p>	
<p>For delivery information, visit our website at www.usps.com.</p> <p>HOBBS, NM 88241</p> <p>OFFICIAL MAIL RECEIPT</p> <p>Certified Mail Fee \$3.50</p> <p>\$ \$2.80</p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$ \$0.00</p> <p><input type="checkbox"/> Return Receipt (electronic) \$ \$0.00</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Required \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$ \$0.00</p> <p>Postage \$ \$0.55</p> <p>Total Postage and Fees \$ \$3.85</p> <p>Sent To MEWBURNE OIL CO. Street and Apt. No., or PO Box No. P.O. Box 5270 City, State, ZIP+4 HOBBS, NM 88241</p> <p>PS Form 3800, April 2015 PSN 7530-02-000-9047</p>		<p>For delivery information, visit our website at www.usps.com.</p> <p>MIDLAND, TX 79702</p> <p>OFFICIAL MAIL RECEIPT</p> <p>Certified Mail Fee \$3.50</p> <p>\$ \$2.80</p> <p>Extra Services & Fees (check box, add fee as appropriate)</p> <p><input type="checkbox"/> Return Receipt (hardcopy) \$ \$0.00</p> <p><input type="checkbox"/> Return Receipt (electronic) \$ \$0.00</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Required \$ \$0.00</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery \$ \$0.00</p> <p>Postage \$ \$0.55</p> <p>Total Postage and Fees \$ \$3.85</p> <p>Sent To COG PRODUCTION, LLC Street and Apt. No., or PO Box No. P.O. Box 2064 City, State, ZIP+4 MIDLAND, TX 79702</p> <p>PS Form 3800, April 2015 PSN 7530-02-000-9047</p>	

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<input type="checkbox"/> Adult Signature Required	\$ \$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ \$0.00
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\$ \$0.55	
Total Postage and Fees \$6.85	
\$ \$	
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<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	
\$ \$0.55	
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City, State, Zip+4 SANTA FE, NM 87504	
PS Form 3800, April 2015 PSN 7530-02-000-9047	
See Reverse for Instructions	

APR 22 2019

CONRAD 0501 02

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\$ \$0.55	
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APR 22 2019

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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

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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 2018¹
- 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.
 - NMOCD 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 Geology²

¹ https://scits.stanford.edu/sites/default/files/3702_tss_lundsnee_v2.pdf

² http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf

SOLARIS

EXHIBIT 2

Case 20F12

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

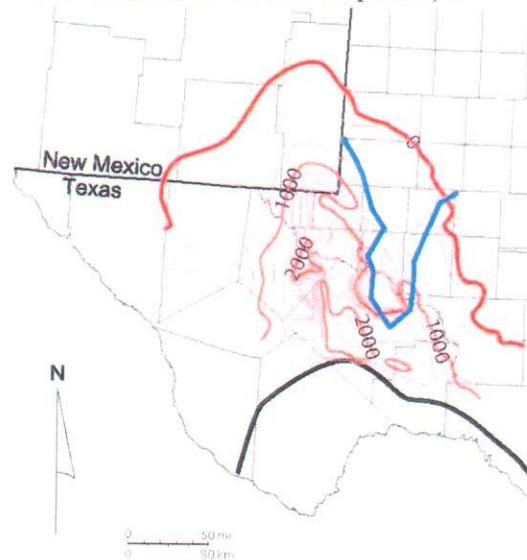
1. Fault traces based upon the references provided above for which Dr. Snee and Dr. Zoback provide a value of the fault slip potential (FSP)
2. Areas of documented seismic activity, such as the Dagger Draw area and a magnitude 2.0-2.9 earthquake that occurred between 1970-2004 about 8-miles northeast 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.

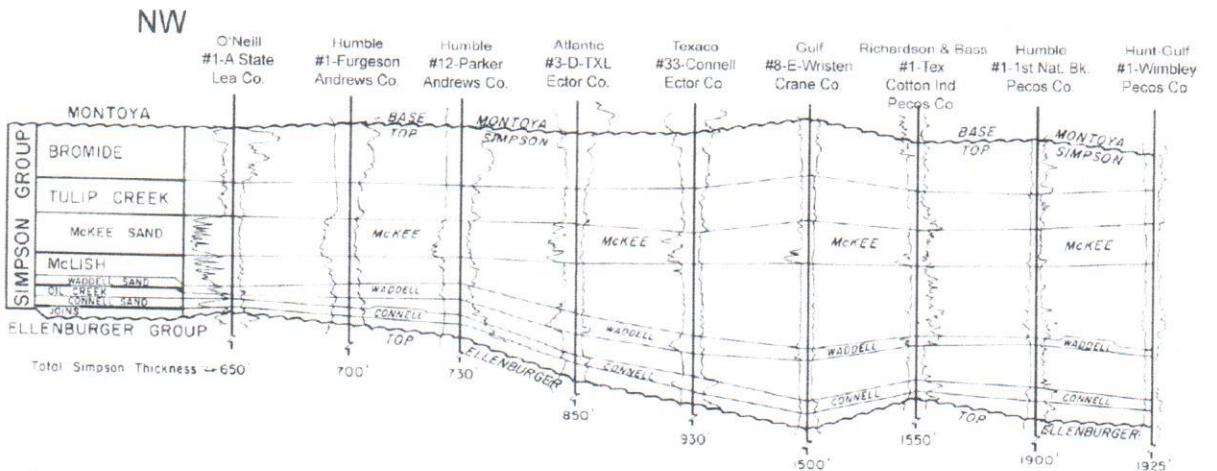


CI = 100 ft in Oklahoma

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.

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 & Lea County, New Mexico

EXHIBIT

SOLARIS
3
Case 20812



24S 31E

N

STRIKER 2 SWD #001

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Ironside
State SWD #1

9.184 Miles

8.568 Miles



Age		Stratigraphic units	
Triassic		Chinle	
	Ochoan	Santa Rosa	Chile
		Dewey Lake	Santa Rosa
		Rusiller	Dewey Lake
		Salado	Rusiller
		Tansill	Salado
		Yates	Tansill
		Seven Rivers	Yates
Guadalupian		Guadalupian	
Atascosa Group		Delaware Mountain Group	
Artesia Group		Bell Canyon	
Seven Rivers		Cherry Canyon	
Queen		Brushy Canyon	
Grayburg			
San Andres			
Glorieta			
Paddock			
Blinebry			
Tubb			
Drinkard			
Abo			
Wolfcampian		Wolfcampian	
Hueco ("Wolfcamp")		Hueco ("Wolfcamp")	
Virgilian		Virgilian	
Cisco		Cisco	
Missourian		Missourian	
Canyon		Canyon	
Des Moinesian		Des Moinesian	
Strawn		Strawn	
Atoka		Atoka	
Atokan		Atoka	
Morrowan		Morrowan	
Morrow		Morrow	
Upper		Upper	
undivided		Lower	
Miss.		Miss.	
Lower		Upper	
Upper		Upper	
Woodford		Woodford	
Middle		Middle	
Dev.		Dev.	
Upper		Upper	
Lower		Lower	
Thirtyone		Thirtyone	
Wrisien		Wrisien	
Sil.		Sil.	
Middle		Middle	
Lower		Lower	
Fusseman		Fusseman	
Upper		Upper	
Montoya		Montoya	
Middle		Middle	
Simpson		Simpson	
Lower		Lower	
Ellenburger		Ellenburger	
Bliss		Bliss	
Cambrian		Cambrian	
Precambrian		Precambrian	
igneous, metamorphics, volcanics		igneous, metamorphics, volcanics	

EXHIBIT 4

Age		Stratigraphic units	
Triassic		Chinle	
	Ochoan	Ochoan	Ochoan
Guadalupian		Guadalupian	
Atascosa Group		Delaware Mountain Group	
Seven Rivers		Bell Canyon	
Queen		Cherry Canyon	
Grayburg		Brushy Canyon	
San Andres			
Glorieta			
Paddock			
Blinebry			
Tubb			
Drinkard			
Abo			
Wolfcampian			
Hueco ("Wolfcamp")			
Virgilian			
Cisco			
Missourian			
Canyon			
Des Moinesian			
Strawn			
Atoka			
Atokan			
Morrowan			
Morrow			
Upper			
undivided			
Miss.			
Lower			
Upper			
Woodford			
Middle			
Dev.			
Upper			
Lower			
Thirtyone			
Wrisien			
Sil.			
Middle			
Lower			
Fusseman			
Upper			
Montoya			
Middle			
Simpson			
Lower			
Ellenburger			
Bliss			
Cambrian			
Precambrian			

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

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'

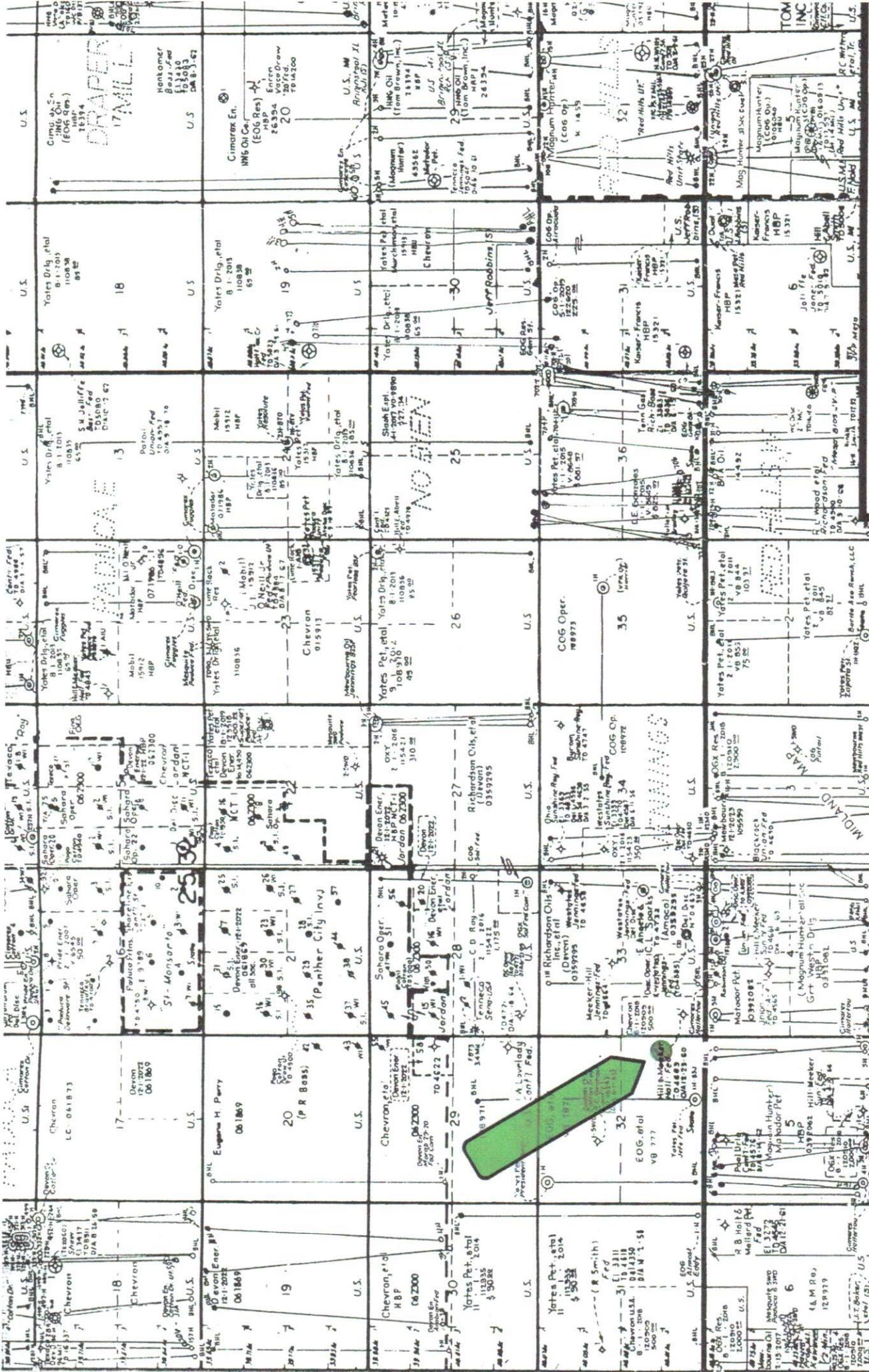
KB: 3,322' (est.)

<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 st BS Sand – Oil	9,475'	-6,153
T/2 nd BS Sand – Oil	10,175'	-6,853
T/3 rd 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 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. #1H Jefe BSJ Fed. Com. In Section 32-T25S-R32E.

SOLARIS WATER MIDSTREAM, LLC
IRONSIDE STATE SWD #1
SECTION 32-T25S-R32E
1,270' FSL & 175' FEL
LEA COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM, LLC



LEA COUNTY, NEW MEXICO

SOLARIS WATER MIDSTREAM, LLC

IRONSIDE STATE SWD #1

SECTION 32-T25S-R32E

1,270' FSL & 175' FWL

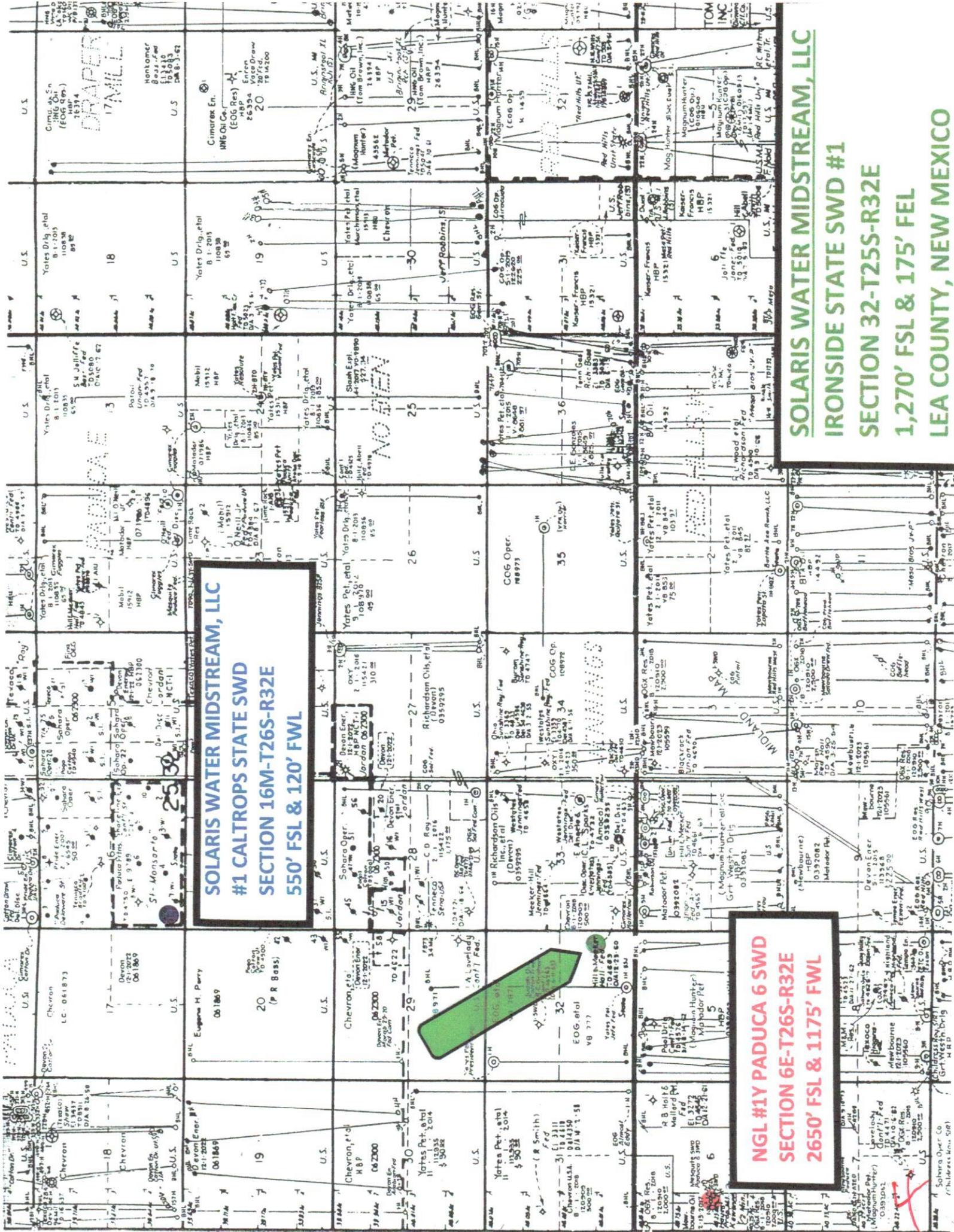
SOLARIS WATER MIDSTREAM, LLC
#1 CALTROPS STATE SWD
SECTION 16M-T26S-R32E
550' FSL & 120' FWL

20 (P R Bass) 42

06/18/69

Eugene H. Perry

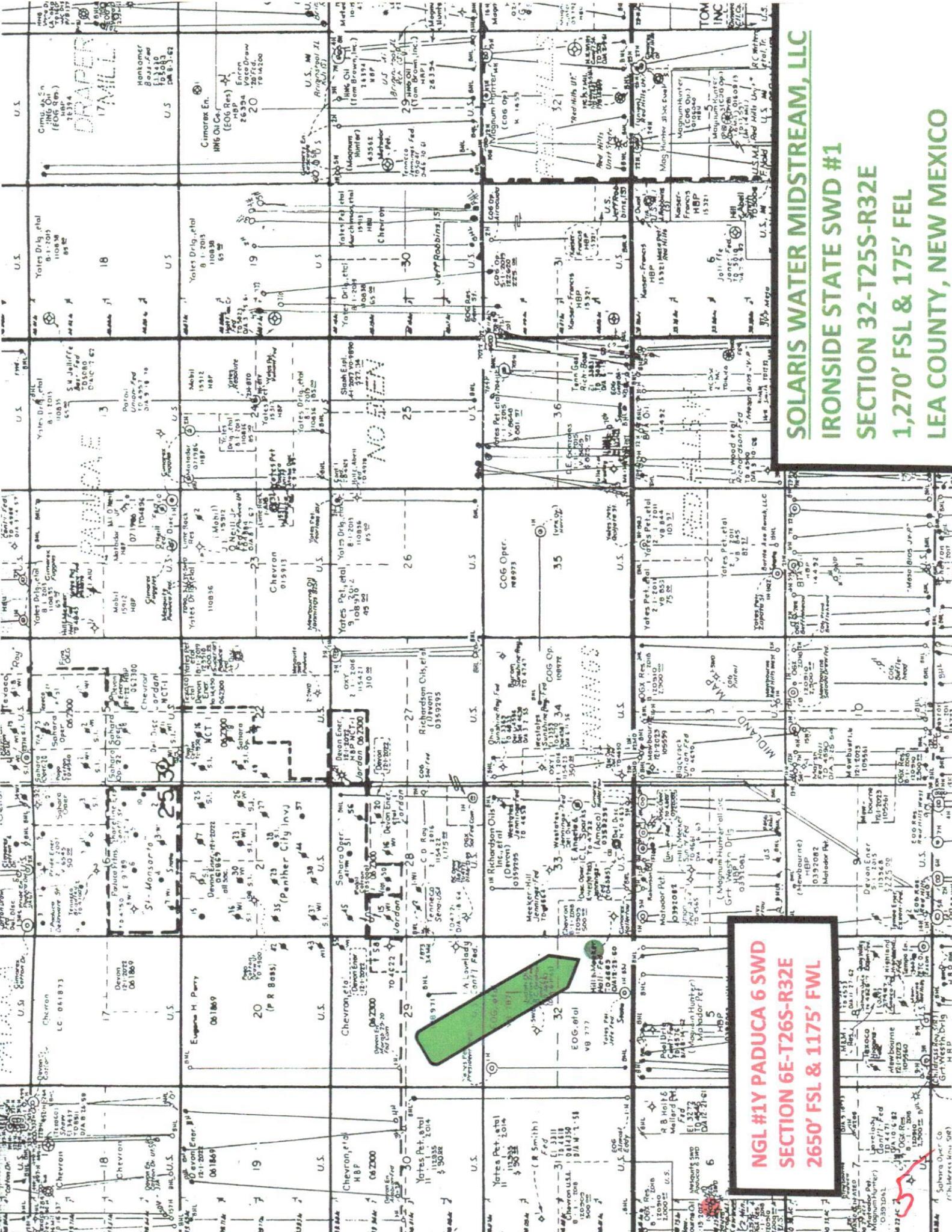
NGL #1Y PADUCA 6 SWD
SECTION 6E-T26S-R32E
2650' FSL & 1175' FWL



SOLARIS WATER MIDSTREAM, LLC
IRONSIDE STATE SWD #1
SECTION 32-T25S-R32E
1,270' FSL & 175' FEL
LEA COUNTY, NEW MEXICO

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

SOLARIS WATER MIDSTREAM, LLC



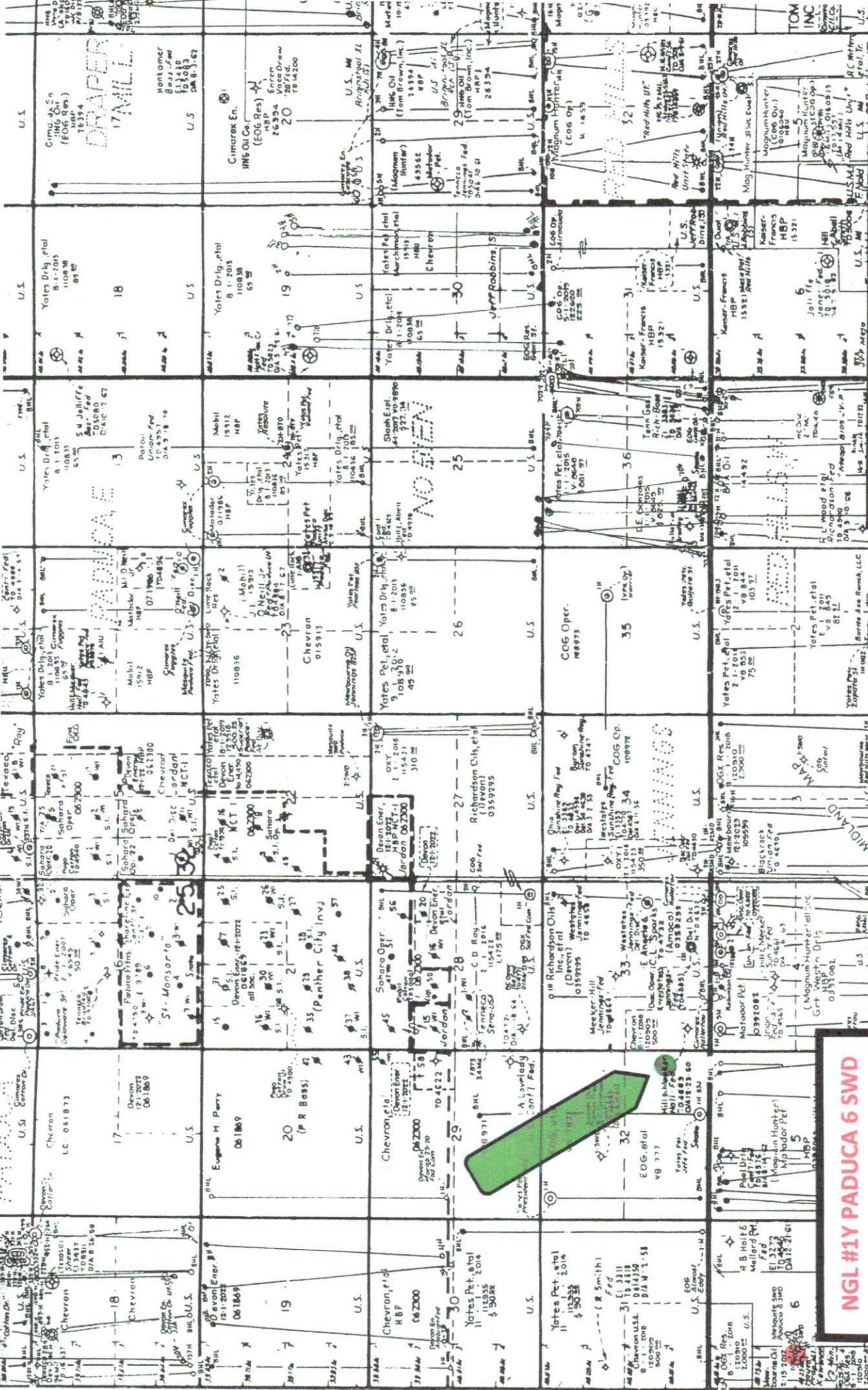
LEA COUNTY, NEW MEXICO

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

SOLARIS WATER MIDSTREAM, LLC

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

51



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 Area

Depths

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

- New Status
- New Field
- New Location
- New Site
- New Well Area

Formation Tops

Formation	Top	Producing	Method Obtained
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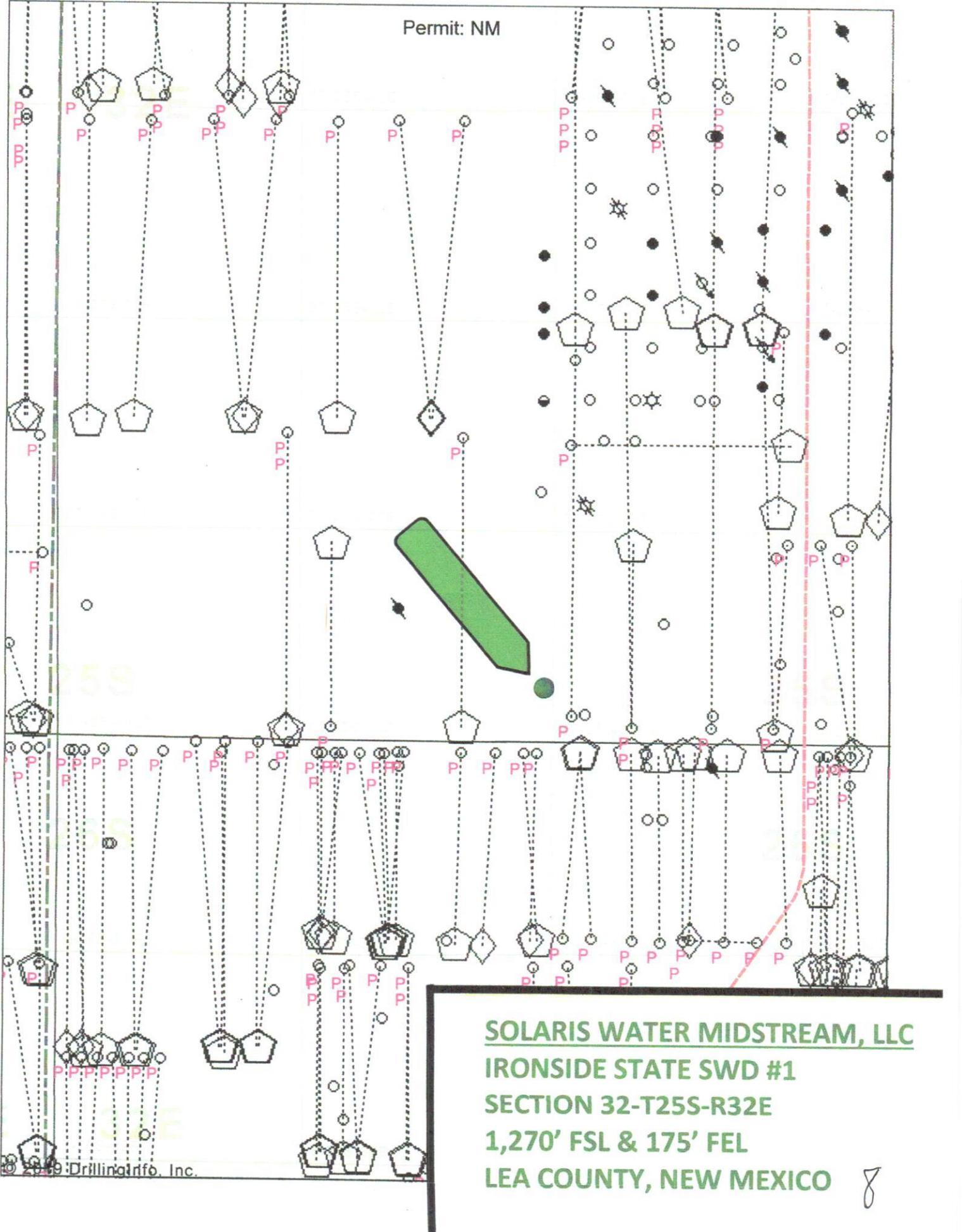
Event Dates

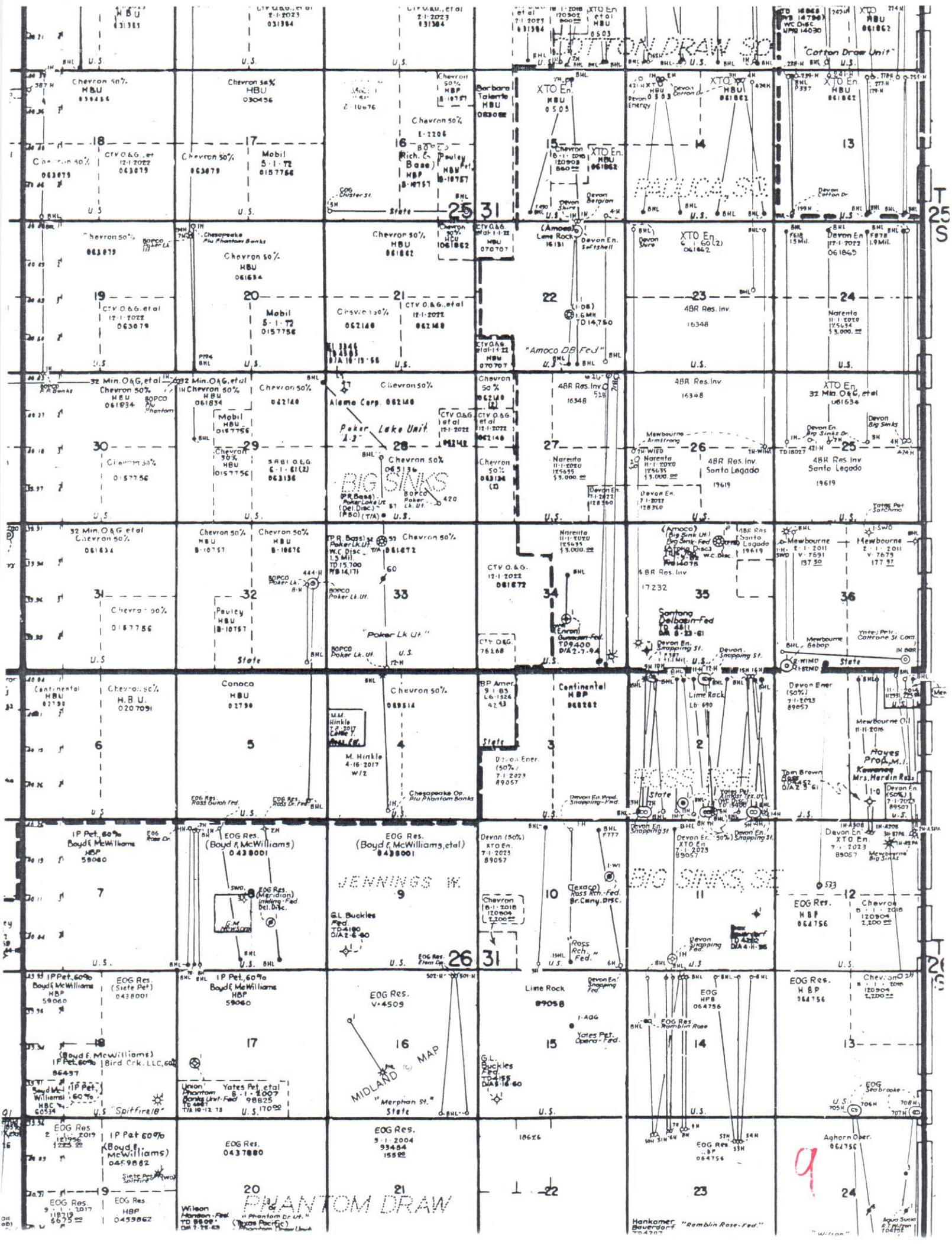
Initial APD Approval:	08/01/2016	Current APD Expiration:	08/01/2018
Most Recent APD Approval:	07/10/2019		
APD Cancellation:			
APD Extension Approval:			
Spud:	08/01/2016	Gas Capture Plan Received:	
Approved Temporary Abandonment:		TA Expiration:	
Shut In:			
Plug and Abandoned Intent Received:		PNR 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





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

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

James Bruce

Attorney for Solaris Water Midstream, LLC

ATTACHMENT

A

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

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.

1. Article Addressed to:

OGX Operating, L.L.C.
OGX Resources
P.O. Box 2064
Midland, Texas 79702



9590 9402 4582 8278 5920 86

2. Article Number (Transferred to)

7018 2290 0000 3426 2248

(over \$500)

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

Domestic Return Receipt

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent Addressee

U.S. POSTAL SERVICE

U.S. POSTAL SERVICE CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Certified Mail Fee

\$ Extra Services & Fees (check box, and fee as appropriate)

 Return Receipt (facsimile) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery

Postage

\$ Total Postage and Fees

\$ Sent To

 Return Receipt (electronic) Adult Signature Required Adult Signature Restricted Delivery

Postmark Here

Street and Apt. No., or P.O. San Angelo, Texas 79703

City, State, ZIP+4®

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

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

Domestic Mail Only



U.S. POSTAL SERVICE

OFFICIAL USE

Certified Mail Fee

\$ Extra Services & Fees (check box, and fee as appropriate)

 Return Receipt (facsimile) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery

Postage

\$ Total Postage and Fees

\$ Sent To

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

Postmark Here

Street and Apt. No., or P.O. Midland, Texas 79702

City, State, ZIP+4®

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

C. Date of Delivery

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

B. Received by (Printed Name)

 Agent Addressee

C. Date of Delivery

D. Is delivery address different from item 1? Yes No3. Service Type
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Restricted Delivery4. Service Type
 Priority Mail Express®
 Registered Mail™
 Delivery
 Merchandise
 Signature Confirmation™
 Restricted Delivery

5. Article Addressed to:

3-M Energy Co.

502 Koenighem Street, No. 2B

San Angelo, Texas 76903



9590 9402 4582 8278 6000 19

2. Article Addressed to:

7018 2290 0000 3426 2361

2361

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

See Reverse for Instructions

Domestic Return Receipt

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

COMPLETE THIS SECTION ON DELIVERY		
A. Signature 	<input checked="" type="checkbox"/> Agent	<input type="checkbox"/> Addressee
B. Received by (Printed Name) 	C. Date of Delivery 7-14	
D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No		
EOG Resources, Inc. EOG Y Resources Inc. 5509 Champions Drive Midland, Texas 79706		
1. Article Addressed to:		
 9590 9402 4582 8278 5921 47		
2. Article Number: <i>7018 2290 0000 3426 2309</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"/> Certified Mail®
	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery
	<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	<input type="checkbox"/> Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053		
S/T Domestic Return Receipt		

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

COMPLETE THIS SECTION ON DELIVERY		
A. Signature 	<input type="checkbox"/> Agent	<input type="checkbox"/> Addressee
B. Received by (Printed Name)	C. Date of Delivery 7/14	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
Commissioner of Public Lands 310 Old Santa Fe Trail Street and Apt. No., or Santa Fe, New Mexico 87501 City, State, Zip/4®		
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions		
 9590 9402 4582 8278 5921 92		
3. Service Type	<input type="checkbox"/> Priority Mail Express®	
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail Restricted Delivery	
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Certified Mail®	
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	
<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	<input type="checkbox"/> Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		

6028 2290 0000 3426 2309

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

5 7 Domestic Return Receipt

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.

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



9590 9402 4582 8278 6002 55

2. Article Number (Transfer from canine label)

7018 2290 0000 3426 2378 (over \$500)

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

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
- B. Received by (Printed Name) C. Date of Delivery
- D. Is delivery address different from above? Yes No
- James Board*

3. Service Type	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature	<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"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Restricted Delivery	

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 3426 2378 (over \$500)

Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Certified Mail Fee	\$ 0.00
Postage	\$ 0.00
Total Postage and Fees	\$ 0.00
Extra Services & Fees (check box, add fee as appropriate)	\$ 0.00
<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

Postmark
Here

Street and Apt. No., or P.O. Box
City, State, Zip+4®

600 West Illinois
Midland, Texas 79701

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.

OFFICIAL USE

Certified Mail Fee	\$ 0.00
Postage	\$ 0.00
Total Postage and Fees	\$ 0.00
Extra Services & Fees (check box, add fee as appropriate)	\$ 0.00
<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

Postmark
Here

Street and Apt. No., or P.O. Box
City, State, Zip+4®

9590 9402 4582 8278 5921 09

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.

OFFICIAL USE

Certified Mail Fee	\$ 0.00
Postage	\$ 0.00
Total Postage and Fees	\$ 0.00
Extra Services & Fees (check box, add fee as appropriate)	\$ 0.00
<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

Postmark
Here

Street and Apt. No., or P.O. Box
City, State, Zip+4®

600 West Illinois
Midland, Texas 79701

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.

OFFICIAL USE

Certified Mail Fee	\$ 0.00
Postage	\$ 0.00
Total Postage and Fees	\$ 0.00
Extra Services & Fees (check box, add fee as appropriate)	\$ 0.00
<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

Postmark
Here

Street and Apt. No., or P.O. Box
City, State, Zip+4®

7018 2290 0000 3426 2378 (over \$500)

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

Domestic Return Receipt

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

U.S. Postal Service™

CERTIFIED MAIL® RECEIPT

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.

1. Article Addressed to:
 Devon Energy Production Company, L.P.
 333 West Sheridan
 Oklahoma City, Oklahoma 73102



9590 9402 4582 8278 5921 16

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

2. Article Number — 7018 2290 0000 3426 2279
 PS Form 3811, July 2015 PSN 7530-02-000-9053

577 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 B. Received by (Printed Name)
 C. Date of Delivery

- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:
 001
 CITY OK 73102
 COUNTY 3
 2019
 USPS

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

3426 2279
 PS Form 3800, April 2015 PSN 7530-02-000-9047

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

For delivery information, visit our website at 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 \$ _____
 Postage \$ _____
 Total Postage and Fees Mewbourne Oil Company
 Sent To Suite 1020
 Street and Apt. No. 500 West Texas
 City, State, Zip+4® Midland, Texas 79701
 PS Form 3800, April 2015 PSN 7530-02-000-9047
 See Reverse for Instructions

Postmark Here

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 \$ _____
 Postage \$ _____
 Total Postage and Fees Mewbourne Oil Company
 Sent To Suite 1020
 Street and Apt. No. 500 West Texas
 City, State, Zip+4® Midland, Texas 79701
 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
 X
 B. Received by (Printed Name)
 C. Date of Delivery

- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:
 577

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



9590 9402 4582 8278 5921 23
 PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number

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

For delivery information, visit our website at 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 \$ _____
 Postage \$ _____
 Total Postage and Fees Devon Energy Production Company, L.P.
 Sent To 333 West Sheridan
 Street and Apt. No. Oklahoma City, Oklahoma 73102
 City, State, Zip+4® PS Form 3800, April 2015 PSN 7530-02-000-9047
 See Reverse for Instructions

Postmark Here

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 \$ _____
 Postage \$ _____
 Total Postage and Fees Mewbourne Oil Company
 Sent To Suite 1020
 Street and Apt. No. 500 West Texas
 City, State, Zip+4® Midland, Texas 79701
 PS Form 3800, April 2015 PSN 7530-02-000-9047
 See Reverse for Instructions

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY

A. Signature 

B. Received by (Printed Name) **L.W. Odde**

C. Date of Delivery **4/30/15**

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

1. Article Addressed to:

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

2. Article Number **7018 2290 0000 3426 2255**

(over 3500) **5** **L** Domestic Return Receipt

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

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Certified Mail Fee \$ **0.62**

Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (handcopy) \$ **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 \$ **0.62**

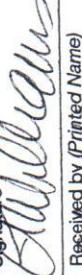
Total Postage and Fees \$ **1.24**

Postmark Here

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

SENDER: COMPLETE THIS SECTION

COMPLETE THIS SECTION ON DELIVERY

A. Signature 

X **J.W. Williams**

B. Received by (Printed Name) **J.W. Williams**

C. Date of Delivery **4/30/15**

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 Number **7018 2290 0000 3426 2255**

(over 3500) **5** **L** Domestic Return Receipt

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

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Certified Mail Fee \$ **0.62**

Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (handcopy) \$ **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 \$ **0.62**

Total Postage and Fees \$ **1.24**

Postmark Here

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

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

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.

OFFICIAL USE

Certified Mail Fee \$ **0.62**

Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (handcopy) \$ **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 \$ **0.62**

Total Postage and Fees \$ **1.24**

Postmark Here

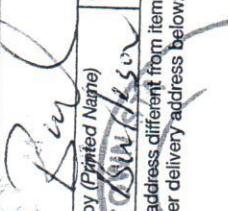
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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® Adult Signature Restricted Delivery Collect on Delivery Return Receipt for Merchandise Restricted Delivery 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.

OFFICIAL U.S. MAIL

Certified Mail Fee

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 \$ _____

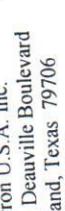
Postmark Here

Postage \$ _____

Total Postage and Fees \$ _____

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 \$ _____

Sent To  Street and Apt. No., or P.O. Box 6301 Deauville Boulevard Midland, Texas 79706 City, State, Zip+4

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.

OFFICIAL U.S. MAIL

Certified Mail Fee

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 \$ _____

Postage \$ _____

PS Form 3800, April 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:

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 Restricted Delivery Collect on Delivery Return Receipt for Merchandise 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.

OFFICIAL U.S. MAIL

Certified Mail Fee

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 \$ _____

Postage \$ _____

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 Restricted Delivery Collect on Delivery Return Receipt for Merchandise Signature Confirmation™ Signature Confirmation Restricted Delivery

4. Postage 

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

Domestic Return Receipt

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

2018 2290 0000 3426 2316

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

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$	
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®	

See Reverse for Instructions

PS Form 3800, April 2015 PSN 7530-02-000-9047

Postmark Here

2018 2290 0000 3426 2316

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

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$	
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®	

See Reverse for Instructions

PS Form 3800, April 2015 PSN 7530-02-000-9047

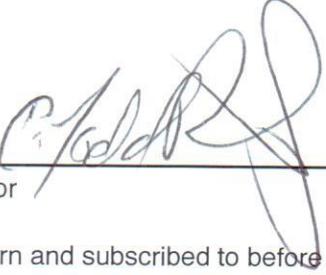
Postmark Here

Affidavit of Publication

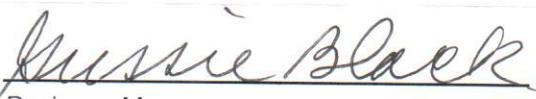
STATE OF NEW MEXICO
COUNTY OF LEA

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.

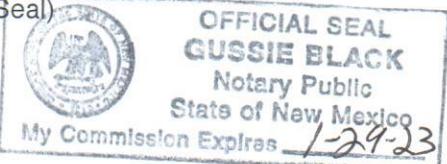

Editor

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
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1937 and payment of fees for said

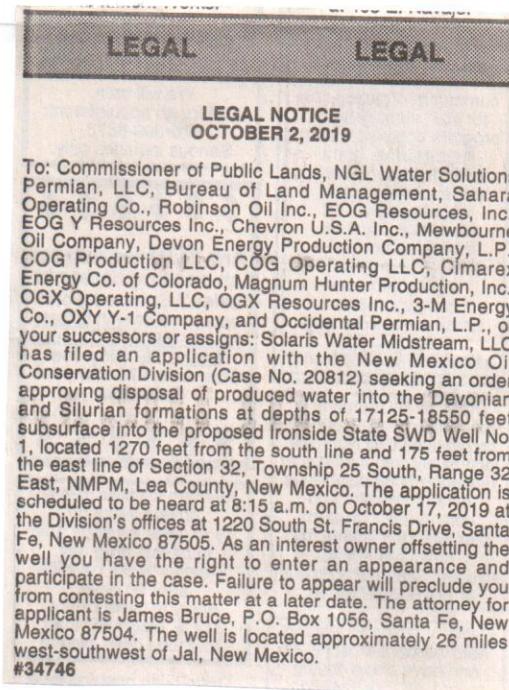


EXHIBIT 6

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