

**BEFORE THE OIL CONSERVATION DIVISION  
EXAMINER HEARING SEPTEMBER 19, 2019**

**CASE No. 20721**

*SOSA SA 17 No. 2 WELL*

**LEA COUNTY, NEW MEXICO**



DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
**- 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

**Application Acronyms:**

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]**

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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.**

Nate Alleman  
 Print or Type Name

Nathan Alleman  
 Signature

Regulatory Specialist - ALL Consulting 6/28/2019  
 Title Date

**BEFORE THE OIL CONSERVATION DIVISION**  
 Santa Fe, New Mexico  
**Exhibit No. 1**

nalleman@all-llc.com  
 Date e-mail Address

Submitted by: **Goodnight Midstream**  
 Hearing Date: September 19, 2019  
 Case No. 20721

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal  
Storage Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
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: Nate Alleman TITLE: Regulatory Specialist - ALL Consulting  
SIGNATURE: Nate Alleman DATE: 06/28/2019  
E-MAIL ADDRESS: nalleman@all-llc.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: \_\_\_\_\_

### 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.

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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.

Application for Authorization to Inject  
Well Name: Sosa SA 17 2

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

#### A.

##### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Sosa SA 17 2  
Location Footage Calls: 470' FSL & 1,815' FWL  
Legal Location: Unit Letter N, S17 T21S R36E  
Ground Elevation: 3,648'  
Proposed Injection Interval: 4,500' – 5,350'  
County: Lea

##### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	12-1/4"	9-5/8"	40.0 lb/ft	1,465'	460	Surface	Circulation
Intermediate 1	8-3/4"	7"	26.0 lb/ft	5,400'	710	Surface	Circulation/ CBL
Tubing	6-3/11"	4-1/2"	20.0 lb/ft	4,480'	N/A	N/A	N/A

##### (3) Tubing Information:

4-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,480

##### (4) Packer Information: Lok-set or equivalent packer set at 4,480'

#### B.

##### (1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

##### (2) Injection Interval: Perforated injection between 4,500' – 5,350'

##### (3) Drilling Purpose: New Drill for Salt Water Disposal

##### (4) Other Perforated Intervals: No other perforated intervals exist.

##### (5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,910')

**Underlying Oil and Gas Zones:** Below are the approximate formation tops for known oil and gas producing zones in the area.

- Tubb (6,365')

## **V – Well and Lease Maps**

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1/2-mile Well Detail List
- Potash Lease Map

## **VI – AOR Well List**

There are no wells within the 1/2-mile AOR that penetrate the proposed injection zone.

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

## **VII – Proposed Operation**

- (1) **Proposed Maximum Injection Rate:** 25,000 bpd  
**Proposed Average Injection Rate:** 17,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 900 psi (surface)  
**Proposed Average Injection Pressure:** approximately 450 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## **VIII – Geologic Description**

The proposed injection interval includes the San Andres formations from 4,500 – 5,350 feet. This formation consists of interbedded carbonate rocks including dolomites, siltstones, and sands. Several thick intervals of porous and permeable rock capable of taking water are present within the subject formation in the area.

The freshwater formation is the Rustler at a depth of approximately 1,440 feet. Water well depths in the area range from approximately 80 - 246 feet below ground surface.

## **IX – Proposed Stimulation Program**

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 – Logging and Test Data**

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

## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location; however, state water well data and conversations with water well owners have revealed that only 1 water well (CP-01485 POD 1) is currently active and a sample was previously collected on 01/28/2019.

A water well map, details of water wells within 1-mile, and any associated water analyses are included in ***Attachment 5***.

## **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in ***Attachment 6***.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in ***Attachment 6***.

# Attachments

**Attachment 1:** Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1/2-mile Well Detail List
- Potash Lease Map

**Attachment 3:** Source Water Analyses

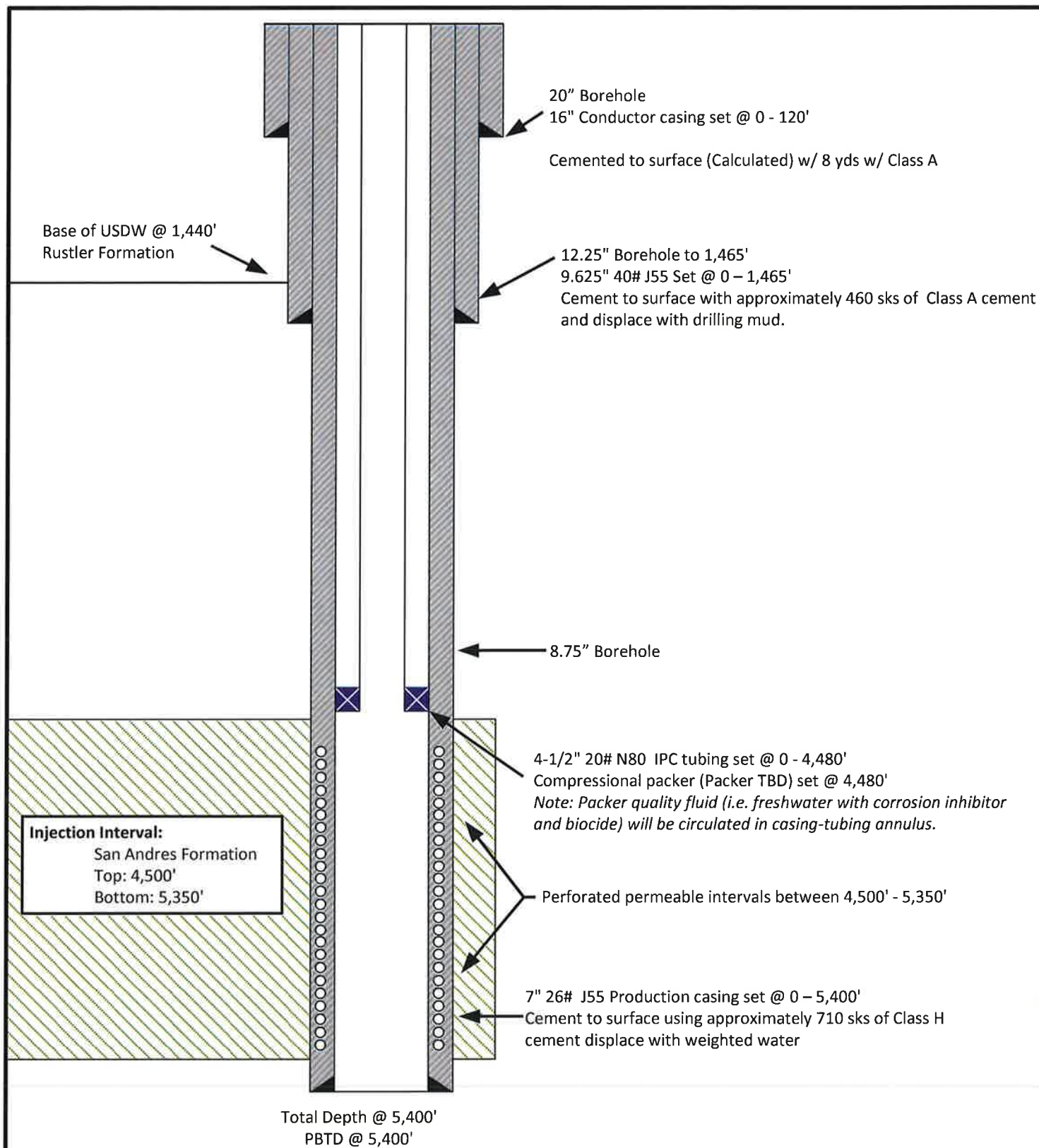
**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations



**Attachment 1**  
Wellbore Diagram



NOT TO SCALE

*Note: Listed depths and cement volumes are approximates based on available information.*

Prepared by:

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/29/2019

**ALL**CONSULTING

Goodnight Midstream Permian, LLC  
Sosa SA 17 2  
Section 17, Twp 21S, Rng 36E  
470' FSL & 1,815' FWL  
Lea County, NM

**EXHIBIT A**

## A-3 and AL-2 LOK-SET Retrievable Casing Packers

Product Family No. H64630 and H64628

### APPLICATION

The A-3™ LOK-SET™ packer combines advantages of a retrievable packer with the features of a permanent packer. An ability to lock down tubing forces makes the A-3 suitable for a broad range of applications, including production, injection, zone isolation, and remedial operations. The AL-2™ LOK-SET packer is similar to the A-3, and has a larger bore.

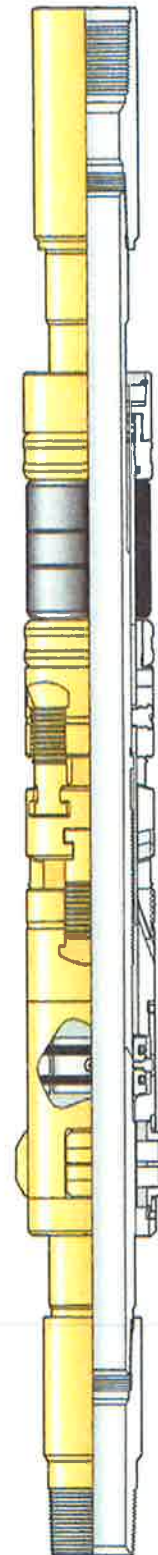
### Advantages

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, controlling tubing forces related to change fluid temperatures
- Opposed, non-transferring, dovetail slips prevent packer movement associated with changing differential pressures, while allowing the landing of the tubing in tension, neutral or compression
- Right-hand tubing rotation controls setting and releasing
- Packing element compression locks in by ratcheting action of lock segments, which restricts rotation to one direction

### Accessories

To provide a simple and reliable injection system for retrieving an injection string without having to unseat the packer:

L-10 or L-316 on-off sealing connectors. Product Family Nos. H68420 and H68422. Baker Hughes blanking plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



A-3 LOK-SET  
Retrievable Casing Packer  
Product Family No. H64630

# SPECIFICATION GUIDES

A-3" LOK-SET Retrieval Casing Packer, Product Family No. H64630

Casing			Packer				
OD		Weight *	Size	Nom ID		Max Gage Ring OD	
In.	mm	lb/ft		In.	mm	In.	mm
4	101.6	9.5-12.9	41A2	1.500	38.1	3.244	82.4
4-1/2	114.3	21.6-23.6	41A2	1.500	38.1	3.244	82.4
4	101.6	9.5	41A4	1.500	38.1	3.423	112.4
4-1/2	114.3	18.8	41A4	1.500	38.1	3.423	112.4
		13.5-17.7	41B	1.978	50.2	3.578	90.9
		11.6-13.5	43A2			3.786	96.2
		9.5-10.5	43A4			3.786	96.2
5	127.0	15-18	43B	1.978	50.2	4.140	105.2
		11.5-15	43C			4.265	108.3
5-1/2	139.7	26	43C	1.978	50.2	4.285	108.3
		20-23	45A2			4.515	114.7
		15.5-20	45A4			4.656	118.3
		13-15.5	45B			4.796	121.8
6	152.4	26	45B	1.978	50.2	4.796	121.8
		20-23	45C			5.078	129.0
		15-18	45D			5.171	131.3
		34	45E			5.421	137.7
6-5/8	168.3	24-32	45F	1.978	50.2	5.499	139.7
		24	47A2	2.441	62.0	5.671	144.0
		17-24	45G	1.978	50.2	5.796	147.2
		17-20	47A4	2.441	62.0	5.827	148.0
7	177.8	38	47A2	2.441	62.0	5.671	144.0
		32-35	47A4			5.827	148.0
		26-29	47B2			5.983	152.0
		23-26	47B4			6.093	154.8
		17-20	47C2			6.281	159.5
7-5/8	193.7	33.7-39	47C4	2.441	62.0	6.468	164.3
		24-29.7	47D2			6.687	169.9
		20-24	47D4			6.827	173.4
8-5/8	219.1	44-49	49A2	3.500	88.9	7.327	186.1
		32-40	49A4			7.546	191.7
		20-28	49B			7.796	198.0
9-5/8	244.5	47-53.5	51A2	3.500	88.9	8.234	209.1
		40-47	51A4			8.452	214.7
		29.3-36	51B			8.608	218.6

AL-2" Large Bore LOK-SET Retrieval Casing Packer Product Family No. H64828

Casing			Packer					
OD		Weight *	Size	Nom ID		Max Gage Ring OD		Max Diameter of Compressed Drag Block
In.	mm	lb/ft		In.	mm	In.	mm	In.
5-1/2	139.7	20	45A2 x 2-3/8	2.375	60.3	4.562	115.9	4.592
		15.5-17	45A4 x 2-3/8			4.656	118.3	4.750
		13	45B x 2-3/8			4.796	121.8	4.902
6	152.4	26	45B x 2-3/8	2.375	60.3	4.796	121.8	4.902

- When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.
- Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrieval Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

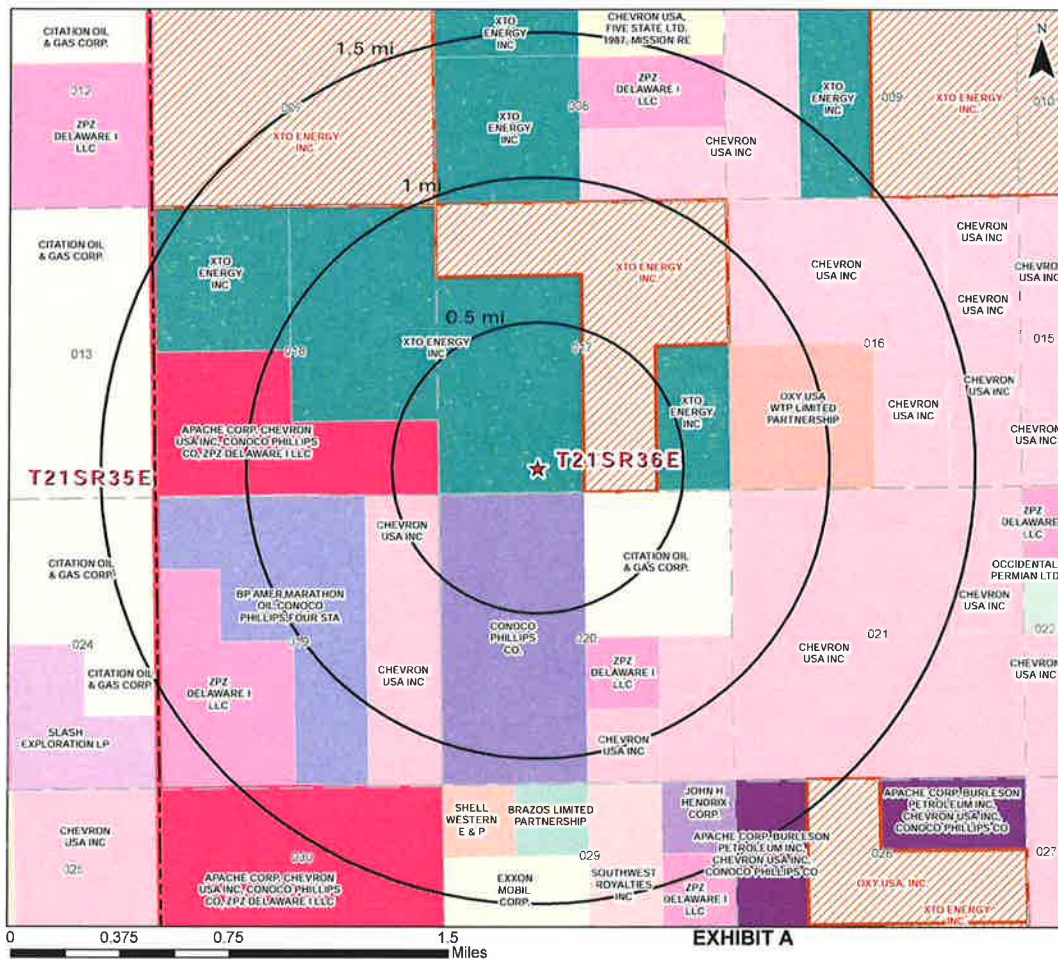
## **Attachment 2**

### **Area of Review Information:**

- 2-mile Oil & Gas Well Map
- 2-mile Lease Map
- 1/2-mile Well Detail List
- Potash Lease Map







### Legend

- ★ Proposed SWD
- ▨ Private Mineral Leases
- BLM Mineral Leases**
  - APACHE CORP, BURLESON PETROLEUM INC, CHEVRON USA INC, CONOCO PHILLIPS CO
  - APACHE CORP, CHEVRON USA INC, CONOCO PHILLIPS CO, ZPZ DELAWARE I LLC
  - XTO ENERGY INC
- NMSLO Mineral Leases**
  - BP AMER, MARATHON OIL, CONOCO PHILLIPS, FOUR STA
  - BRAZOS LIMITED PARTNERSHIP
  - CHEVRON USA INC
  - CHEVRON USA, FIVE STATE LTD, 1987, MISSION RE
  - CITATION OIL & GAS CORP.
  - CONOCO PHILLIPS CO.
  - EXXON MOBIL CORP.
  - JOHN H HENDRIX CORP.
  - LEACO NEW MEXICO EXPL. AND PROD., LLC
  - OCCIDENTAL PERMIAN LTD
  - OXY USA WTP LIMITED PARTNERSHIP
  - SHELL WESTERN E & P
  - SLASH EXPLORATION LP
  - SOUTHWEST ROYALTIES INC
  - XTO HOLDINGS, LLC
  - ZPZ DELAWARE I LLC

### Mineral Lease Area of Review

Sosa SA 17 2  
Lea County, New Mexico

Proj Mgr:  
Nate Aleman

June 12, 2019

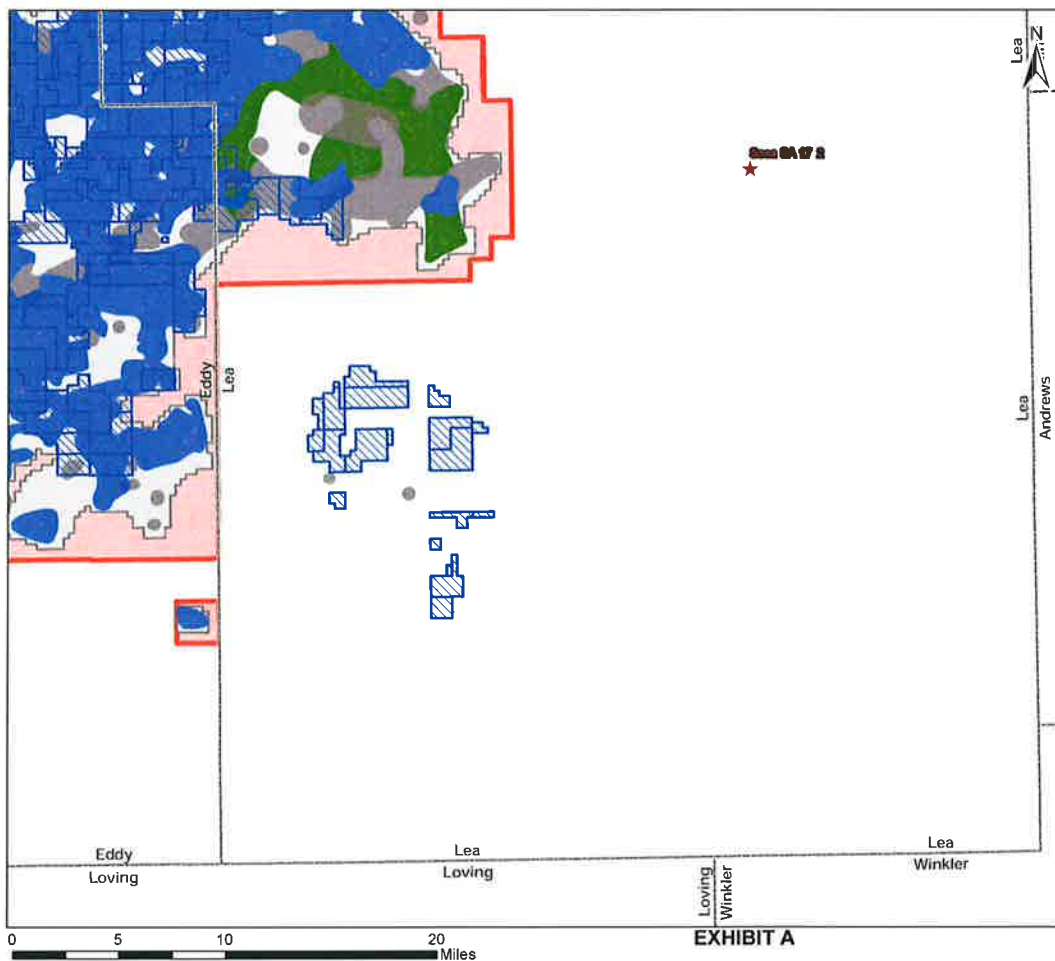
Mapped by:  
Ben Bockelmann

Prepared by:

**ALI CONSULTING**

AOR Tabulation for Sosa SA 17 2 (Top of Injection Interval: 4,500')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
DEVONIAN STATE #002	30-025-04729	G	CITATION OIL & GAS CORP	7/6/1935	B-20-21S-36E	3944	No
EUNICE MONUMENT SOUTH UNIT #418	30-025-04691	Plugged	XTO ENERGY, INC	10/19/1981	N-17-21S-36E	Plugged (4191)	No
EUNICE MONUMENT SOUTH UNIT #408	30-025-04692	I	XTO ENERGY, INC	*Unknown	L-17-21S-36E	4131	No
EUNICE MONUMENT SOUTH UNIT #419	30-025-04695	Approved TA	XTO ENERGY, INC	9/29/1935	O-17-21S-36E	4101	No
EUNICE MONUMENT SOUTH UNIT #407	30-025-24588	O	XTO ENERGY, INC	12/3/1973	K-17-21S-36E	4150	No
EUNICE MONUMENT SOUTH UNIT #416	30-025-04670	Plugged	CHEVRON U S A INC	11/17/1930	P-18-21S-36E	Plugged (3990)	No
STATE C 20 #003	30-025-04720	G	PENROC OIL CORP	3/3/1935	F-20-21S-36E	3891	No
STATE C 20 #006	30-025-04723	G	PENROC OIL CORP	1/21/2008	C-20-21S-36E	3948	No
EUNICE MONUMENT SOUTH UNIT #378	30-025-04687	I	XTO ENERGY, INC	*Unknown	F-17-21S-36E	4048	No
MEYER A 1 #021	30-025-32480	G	PENROC OIL CORP	4/7/1994	M-17-21S-36E	3800	No
STATE C 20 #001	30-025-04718	O	PENROC OIL CORP	6/23/1934	D-20-21S-36E	3950	No
EUNICE MONUMENT SOUTH UNIT #417	30-025-04686	O	XTO ENERGY, INC	*Unknown	M-17-21S-36E	4107	No
EUNICE MONUMENT SOUTH UNIT #406	30-025-04696	Plugged	XTO ENERGY, INC	11/6/1954	J-17-21S-36E	Plugged (4116)	No
MEYER A 1 #011	30-025-04690	Plugged	CONOCOPHILLIPS COMPANY	3/8/1956	K-17-21S-36E	Plugged (3997)	No
COLEMAN #001	30-025-08716	Plugged	CIMAREX ENERGY CO. OF COLORADO	10/19/1930	J-17-21S-36E	Plugged (4005)	No
PRE-ONGARD WELL #001	30-025-04705	Plugged	PRE-ONGARD WELL OPERATOR	7/18/1930	A-19-21S-36E	Plugged (4000)	No
Note: No wells within the 1/2-mile AOR penetrate the injection interval.							





### Legend

- ★ Proposed SWD
- ▨ Potash Leases
- Ore Type - Measured
- Ore Type - Indicated
- Ore Type - Inferred
- KPLA
- SOPA

### Potash Leases Area of Review

Sosa SA 17 2  
Lea County, New Mexico

Proj Mgr:  
Dan Arthur

May 30, 2019

Mapped by:  
Ben Bockelmann

Prepared by:  
**ALL** CONSULTING

EXHIBIT A

**Attachment 3**  
Source Water Analyses

PRODUCED WATER FROM BONE SPRING, DELAWARE, DEVONIAN, WOLFCAMP

API	SECTION	TOWNSHIP	RANGE	FORMATION	tds mgL	chloride mgL	bicarbonate mgL	sulfate mgL
3002502424	11	20S	34E	BONE SPRING	29436	16720	634	1142
3002502427	12	20S	34E	BONE SPRING	15429			
3002502427	12	20S	34E	BONE SPRING	180701	108300	1016	670
3002502429	12	20S	34E	BONE SPRING	202606	118100	5196	992
3002502429	12	20S	34E	BONE SPRING	121800			
3002502431	12	20S	34E	BONE SPRING	147229	89640	108	1038
3002531696	2	20S	34E	DELAWARE	152064	102148	404	691
3002532105	2	20S	34E	DELAWARE	296822	215237	143	294
3002532466	2	20S	34E	DELAWARE	340838	245270	229	147
3002502427	12	20S	34E	DELAWARE	214787	132700	208	1816
3002502431	12	20S	34E	DEVONIAN	33414	18570	227	1961
3002502432	13	20S	34E	DEVONIAN	45778	26440	1145	729
3002501912	16	16S	34E	WOLFCAMP	164004	102500	4204	1249
3002501922	20	16S	34E	WOLFCAMP	104541	64290	280	541
3002501922	20	16S	34E	WOLFCAMP	104033	64080	268	515
3002501922	20	16S	34E	WOLFCAMP	105175	65570	207	192
3002501925	21	16S	34E	WOLFCAMP	86355	51800	610	665
3002501928	21	16S	34E	WOLFCAMP	119102	73300	227	454
3002501928	21	16S	34E	WOLFCAMP	35422	19170	979	1949
3002501930	22	16S	34E	WOLFCAMP	30015	14800	750	3300
3002501931	22	16S	34E	WOLFCAMP	87680	53000	301	681
3002501933	28	16S	34E	WOLFCAMP	59960	35100	515	1500
3002501933	28	16S	34E	WOLFCAMP	60309	35350	586	1297
3002501940	30	16S	34E	WOLFCAMP	82422	49890	361	787
3002501944	30	16S	34E	WOLFCAMP	83960	51410	418	641
3002520222	27	16S	34E	WOLFCAMP	85457	51020	544	1201
3001542895	2	23S	31E	WOLFCAMP	119472	73173		1036

EXHIBIT F

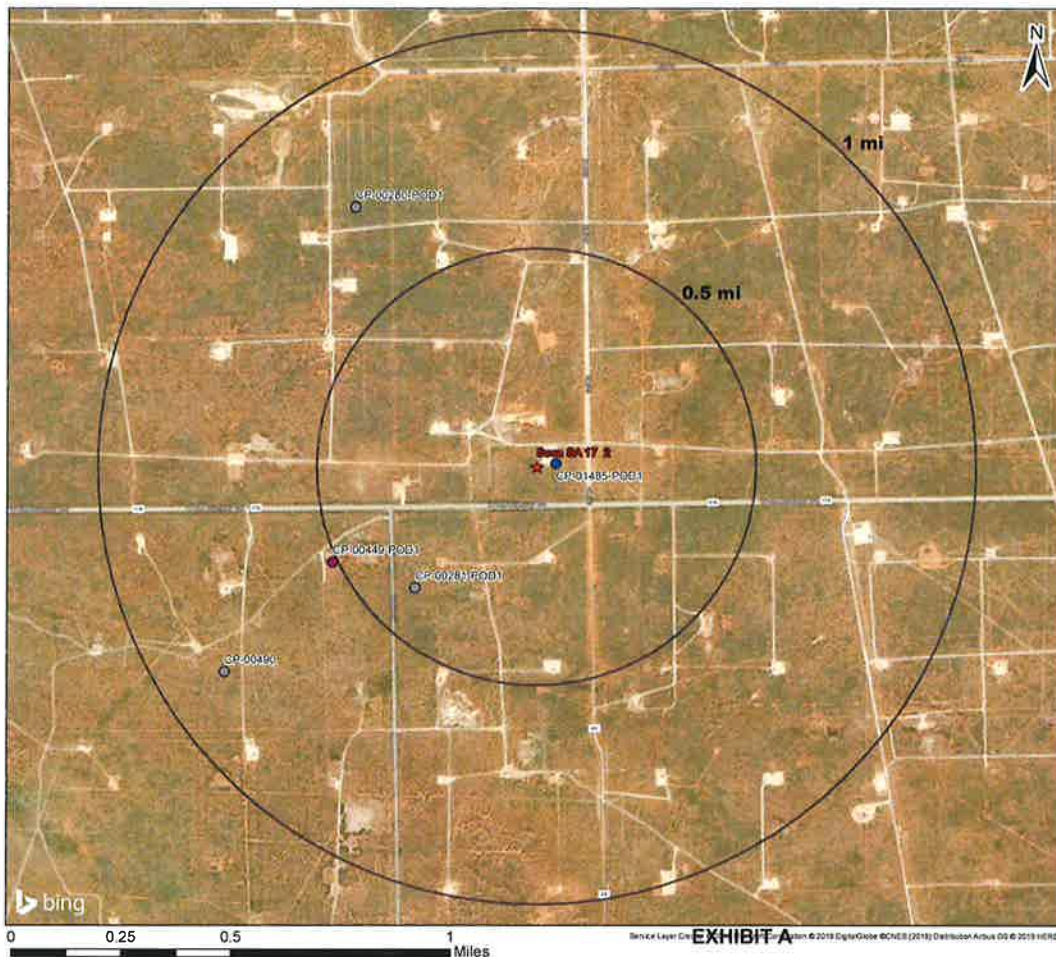
EXHIBIT A

**Attachment 4**  
Injection Formation Water Analyses

Injection Formation Water Analysis													
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Height	Pressure	County	State	Company	Field
STATE AV #001	3002504700	32.470715	-103.297083	19	21S	36E	A	330N	130I	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
STATE AV #001	3002504700	32.470715	-103.297083	19	21S	36E	A	330N	130I	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #800	3002504678	32.470702	-103.298344	18	21S	36E	I	1380S	660W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #818	3002504670	32.47253	-103.297086	18	21S	36E	P	330S	130I	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #850	3002504680	32.474352	-103.302452	18	21S	36E	B	660N	1380E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #809	3002504678	32.472707	-103.298344	18	21S	36E	I	1380S	660W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #808	3002504678	32.472707	-103.298344	18	21S	36E	I	1380S	660W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #804	3002504688	32.477978	-103.277834	18	21S	36E	L	2310S	330W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #788	3002504681	32.480715	-103.244774	15	21S	36E	H	1380N	660E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #800	3002504653	32.472052	-103.305050	15	21S	36E	L	1380S	660W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #204	3002504562	32.495519	-103.298895	8	21S	36E	E	1380N	660W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #282	3002521002	32.498888	-103.281387	8	21S	36E	A	660N	760E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #282	3002521002	32.498888	-103.281387	8	21S	36E	A	660N	760E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #284	3002554641	32.498229	-103.289377	8	21S	36E	C	140N	1380W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #305	3002504697	32.495234	-103.244774	10	21S	36E	H	1380N	660E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #839	3002511408	32.504334	-103.283083	5	21S	36E	O	1330S	1380E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #839	3002511408	32.504334	-103.283083	5	21S	36E	O	1330S	1380E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #838	3002511436	32.504285	-103.278932	5	21S	36E	B	1310S	138E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #284	3002504697	32.506084	-103.284271	5	21S	36E	S	1380S	1380W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #284	3002504697	32.506084	-103.284271	5	21S	36E	S	1380S	1380W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #284	3002504697	32.506084	-103.284271	5	21S	36E	S	1380S	1380W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #459	3002529826	32.519482	-103.284593	5	21S	36E	B	1020N	1740E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #184	3002505513	32.512448	-103.281088	5	21S	36E	A	661N	660E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #384	3002504697	32.506084	-103.284271	5	21S	36E	S	1380S	1380W	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #280	3002504663	32.505545	-103.269203	4	21S	36E	W	330S	2310E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #231	3002504664	32.508781	-103.262802	4	21S	36E	P	2920S	330E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #820	3002510511	32.507885	-103.300369	6	21S	36E	B	2630S	1330E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #820	3002510511	32.507885	-103.300369	6	21S	36E	B	2630S	1330E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #195	3002504552	32.514003	-103.298202	6	21S	36E	A	5460N	660E	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #820	3002510511	32.507885	-103.300369	6	21S	36E	B	2630S	1330E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #820	3002510511	32.507885	-103.300369	6	21S	36E	B	2630S	1330E	LEA	NM	CHEVRON USA INC.	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #221	3002504708	32.509702	-103.306268	6	21S	36E	N	3300S	1380W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE MONUMENT SOUTH UNIT #221	3002504664	32.451388	-103.124031	28	21S	37E	E	2084N	760W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
EUNICE KING #034	3002504664	32.451388	-103.124031	28	21S	37E	E	2084N	760W	LEA	NM	EUNICE MONUMENT	GRAYBURG/SAN ANDRES
C P FALL BY FEDERAL #004	3002510106	32.404513	-103.191434	8	22S	37E	L	1380S	660W	LEA	NM	CARRY	SAN ANDRES
C P FALL BY FEDERAL #001	3002510118	32.408142	-103.187187	8	22S	37E	F	1380N	1380W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES
C P FALL BY FEDERAL #004	3002510125	32.408134	-103.191487	8	22S	37E	E	1382N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES
DAMONS #001	3002510205	32.423267	-103.182194	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES
PERNGE #003	3002510248	32.407871	-103.178807	8	22S	37E	E	2084N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES
HUGH COI #013	3002523275	32.398216	-103.139637	14	22S	37E	O	130N	820W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002510218	32.411808	-103.160278	11	22S	37E	D	660N	660W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523608	32.42556	-103.185629	11	22S	37E	C	910N	1450W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523734	32.407272	-103.141028	11	22S	37E	E	2310N	360W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523734	32.407272	-103.141028	11	22S	37E	E	2310N	360W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523734	32.407272	-103.141028	11	22S	37E	E	2310N	360W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523734	32.407272	-103.141028	11	22S	37E	E	2310N	360W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH
LOU WORTHAM #001	3002523734	32.407272	-103.141028	11	22S	37E	E	2310N	360W	LEA	NM	ANADARKO PETROLEUM CORP.	EUNICE SOUTH

---

**Attachment 5**  
Water Well Map and Well Data



### Legend

★ Proposed SWD

### NMOSE PODs

#### Status

● Active (1)

● Incomplete (1)

● Unknown (3)

### Water Wells Area of Review

Sosa SA 17 2  
LEA County, New Mexico

Proj Mgr:  
Dan Arthur

May 28, 2019

Mapped by:  
Ben Bockelmann

Prepared by:

**ALI**CONSULTING

Water Well Sampling Rationale						
Goodnight Midstream Permian, LLC - Sosa SA 17 2						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Sosa SA 17 2	CP-00281 POD 1	Continental Oil Company	P.O Box 460 Hobbs, NM	Industrial	No	Temporarily abandoned, may re-enter in the future for industrail use.
Sosa SA 17 2	CP-00490	U.R. Cattle Company	P.O. Box 347 Eunice, NM 88231 Ross L. Robinson Jr.	Livestock watering	No	Contact listed on permit, Ross L. Robertson Jr., has two listed phone numbers but both are out of service.
Sosa SA 17 2	CP-00280 POD 1	Continental Oil Company	P.O Box 460 Hobbs, NM	Industrial	No	Temporarily abandoned, may re-enter in the future for industrail use.
Sosa SA 17 2	CP-01485 POD 1	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0309	Commercial	Yes	Sampled on 01-28-2019. Results are shown below.





## Analytical Results For:

CP-01485 Pod 1

Etech Environmental & Safety Solutions  
P.O. Box 301  
Lovington NM, 88260

Project: GOODNIGHT MIDSTREAM  
Project Number: NONE GIVEN  
Project Manager: LANCE CRENSHAW  
Fax To: (575) 396-1429

Reported:  
05-Feb-19 17:18

## PHILLIPS WELL &amp; STOCK TANK

H900304-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

## Cardinal Laboratories

## Inorganic Compounds

Alkalinity, Bicarbonate	224		5.00	mg/L	1	9012407	AC	30-Jan-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9012407	AC	30-Jan-19	310.1	
Chloride*	176		4.00	mg/L	1	9012811	AC	31-Jan-19	4500-Cl-B	
Conductivity*	1200		1.00	uS/cm	1	9013002	AC	30-Jan-19	120.1	
pH*	8.87		0.100	pH Units	1	9013002	AC	30-Jan-19	150.1	
Resistivity	8.35			Ohms/m	1	9013002	AC	30-Jan-19	120.1	
Specific Gravity @ 60° F	1.002		0.000	[blank]	1	9013007	AC	30-Jan-19	SM 2710F	
Sulfate*	242		50.0	mg/L	5	9013006	AC	30-Jan-19	375.4	
TDS*	644		5.00	mg/L	1	9012801	AC	31-Jan-19	160.1	
Alkalinity, Total*	184		4.00	mg/L	1	9012407	AC	30-Jan-19	310.1	

## Green Analytical Laboratories

## Total Recoverable Metals by ICP (E200.7)

Barium*	<0.050		0.050	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	
Calcium*	69.8		0.100	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	
Iron*	0.097		0.050	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	
Magnesium*	36.1		0.100	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	
Potassium*	6.36		1.00	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	
Sodium*	119		1.00	mg/L	1	B901226	AES	04-Feb-19	EPA200.7	

## Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

# Affidavit of Publication

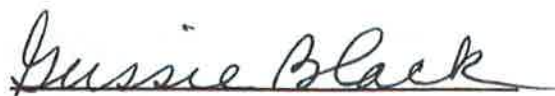
STATE OF NEW MEXICO  
COUNTY OF LEA

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

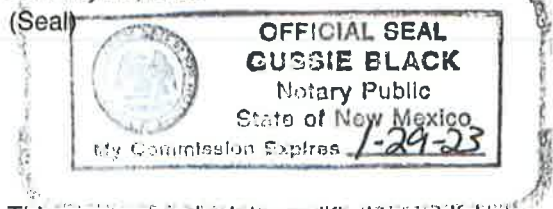
Beginning with the issue dated  
June 08, 2019  
and ending with the issue dated  
June 08, 2019.

  
Publisher

Sworn and subscribed to before me this  
8th day of June 2019.

  
Business Manager

My commission expires  
January 29, 2023



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**LEGAL NOTICE**  
**JUNE 8, 2019**

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream, 5910 N Central Expressway, Suite 850, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Sosa SA 17.2  
SE 1/4 SW 1/4, Section 17, Township 21S, Range 38E  
470' FSL & 1,815' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres  
(4,500' - 5,350')

EXPECTED MAXIMUM INJECTION RATE: 25,000  
Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 900 psi  
(surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
#34267

67115320

00229390

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

Sosa SA 17 2 - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
<b>Landowner</b>				
Dasco Cattle Company (Atlee Snyder)	P.O. Box 727	Hobbs	NM	88241
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Mineral Owner</b>				
Bureau of Land Management Carlsbad Field Office Attention: Chris Walls	620 E. Greene Street	Carlsbad	NM	88220-6292
<b>Leasehold Operators</b>				
Apache Corporation	303 Vet Airpark Lane, Suite 3000	Midland	TX	79705
Chevron USA Inc.	6301 Deauville	Midland	TX	79706
Citation Oil & Gas Corp.	P.O. Box 690688	Houston	TX	77269
Commision of Public Lands - State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Conoco Phillips	P.O. Box 7500	Bartlesville	OK	74005
Penroc Oil Corp	P.O. Box 2768	Hobbs	NM	88241
XTO Energy, Inc.	200 N. Loraine St., Suite 800	Midland	TX	79701
ZPZ Delaware I LLC	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
<b>Note:</b> Tidewater Oil Co. has been acquired by Chevron USA Inc according to the 2018 NADOA Mergers and Acquisitions 2018				

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Carlsbad Field Office  
Bureau of Land Management  
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Carlsbad NM 88220-6292

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Bartlesville OK 74005-7500

Atlee Snyder  
Dasco Cattle Company  
P.O. Box 727  
Hobbs NM 88241-0727

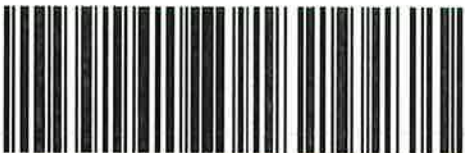
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Hobbs NM 88240-9273

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7,236,956; 7,236,970; 7,343,357; 7,490,065; 7,567,940; 7,613,639; 7,743,043;  
7,882,094; 8,027,926; 8,027,927; 8,027,935; 8,041,644; and 8,046,823; 8,103,647;  
8,195,579; 8,301,572; 8,392,391; 8,498,943.

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

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

**CASE NO. 20721**

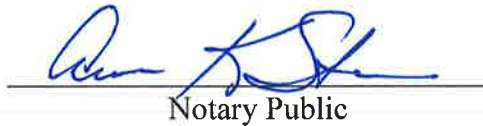
**AFFIDAVIT**

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

Adam G. Rankin, attorney in fact and authorized representative of Goodnight Midstream Permian, LLC -, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications have been provided under the notice letters and proof of receipts attached hereto.

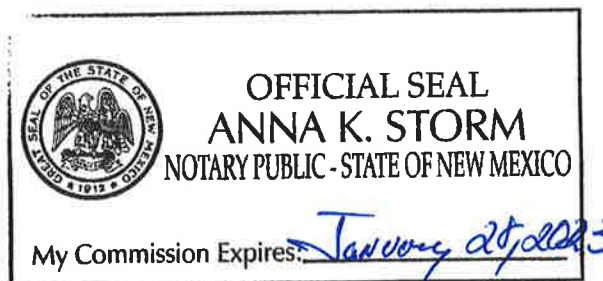
  
Adam G. Rankin

SUBSCRIBED AND SWORN to before me this 18th day of September, 2019 by Adam G. Rankin.

  
Notary Public

My Commission Expires:

January 28, 2023



**BEFORE THE OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico  
**Exhibit No. 2**  
Submitted by: **Goodnight Midstream**  
Hearing Date: September 19, 2019  
Case No. 20721





**Adam G. Rankin**  
**Phone** (505) 988-4421  
**Fax** (505) 983-6043  
agrarkin@hollandhart.com

August 16, 2019

**VIA CERTIFIED MAIL**  
**CERTIFIED RECEIPT REQUESTED**

**TO: AFFECTED PARTIES**

**Re: Application of Goodnight Midstream Permian, LLC for Approval of a Salt Water Disposal Well, Lea County, New Mexico.**  
**Sosa SA 17 No. 2 Well**

Ladies & Gentlemen:

This letter is to advise you that Goodnight Midstream Permian, LLC has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on September 5, 2019 and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint 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, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing.

If you have any questions about this matter please contact ALL Consulting, LLC, at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,

Adam G. Rankin

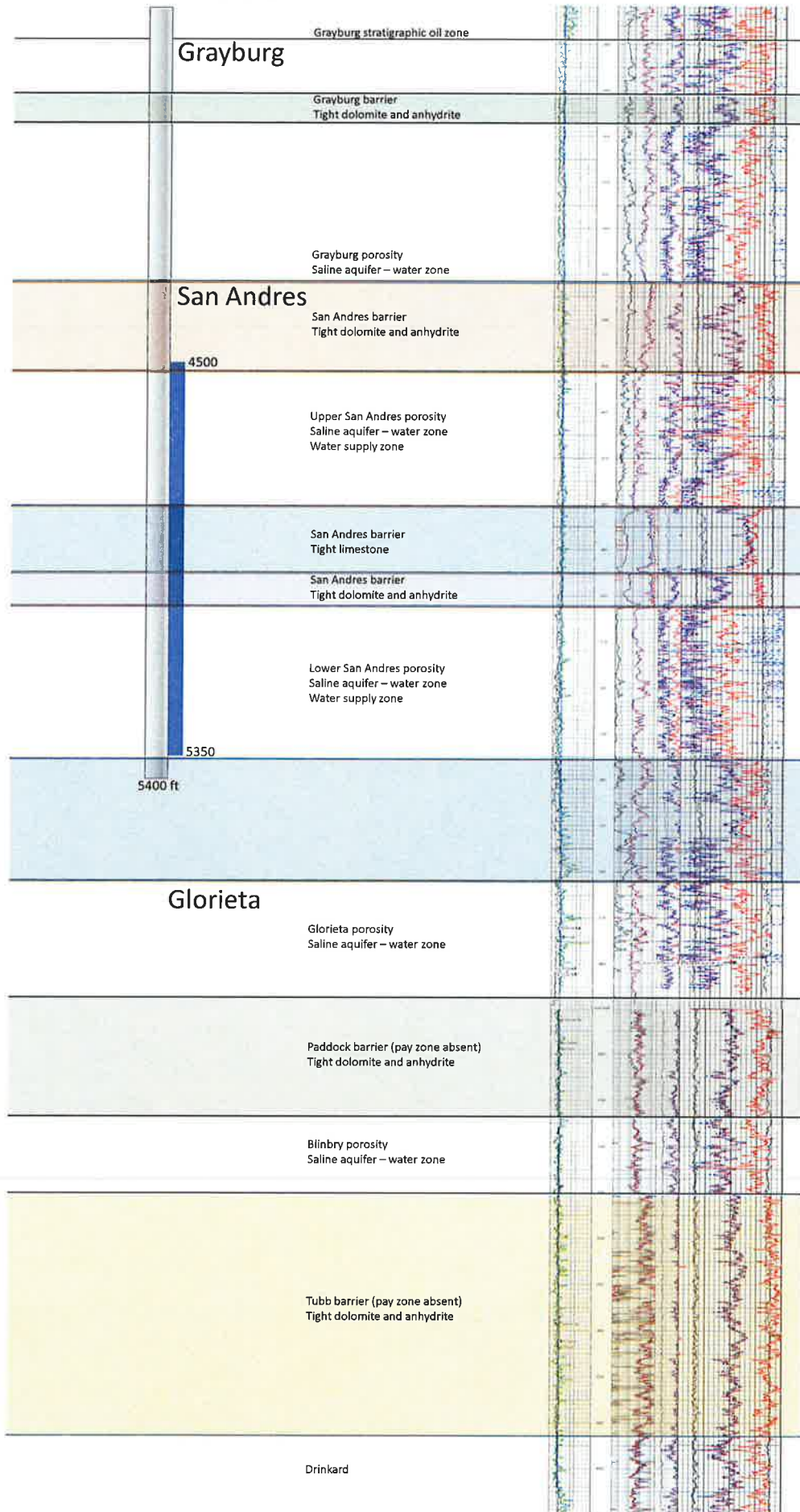
**ATTORNEY FOR GOODNIGHT MIDSTREAM  
PERMIAN, LLC**

Postal Delivery Report  
Goodnight Midstream - Beltre, Noal Ryan, Pudge, Sosa  
Case Nos. 20720-20723

TrackingNo	ToName	DeliveryAddress	City	State	Zip	USPS_Status
9402810898 7650415470 97	New Mexico State Land Office	PO Box 1148	Santa Fe	NM	87504-1148	Your item was delivered at 6:57 am on August 19, 2019 in SANTA FE, NM 87501.

Goodnight Sosa SWD#1  
N-17-21S-36E 30-025-00000  
TD: 5,400 KB: 00-00-2019

Goodnight Snyder (Ryno) SWD#1  
H-17-21S-36E 30-025-43901  
TD: 10,535 KB: 3632 07-09-2018





Steve Drake  
V.P. Geology and Reservoir Engineering  
Goodnight Midstream, LLC  
5910 North Central Expressway, Suite 850  
Dallas, Texas 75206

RE: Goodnight Midstream, LLC Sosa SA 17-2 SWD well permit

Lot N, Section 17, Township 21S Range 36E  
Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight Midstream acquired and evaluated 3D seismic covering the proposed salt water disposal well. The area covered is 5.5 miles N-S by 2.5 miles E-W with the proposed well located in the west center of the survey.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in either the seismic data or the well log data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

A handwritten signature in blue ink that reads 'Steve Drake'.

Steve Drake  
V.P. Geology and Reservoir Engineering  
Goodnight Midstream, LLC

A handwritten date in blue ink that reads '9-17-2019'.

Date

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Exhibit No. 4  
Submitted by: Goodnight Midstream  
Hearing Date: September 19, 2019  
Case No. 20721



