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

MAY 14 2019 PM03:39

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

CASE NO. 20556

### **APPLICATION**

Goodnight Midstream Permian, LLC ("Goodnight Midstream"), OGRID No. 372311, through its undersigned attorneys, hereby files this application with the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-17, for an order authorizing injection of produced salt water for purposes of disposal. In support, Goodnight Midstream states the following:

1. Attached is a complete Form C-108 application for authorization to inject which contains all the information necessary to authorize the requested approval to inject and filed with the Division for administrative approval on April 3, 2019. *See* C-108, attached as **Exhibit A**, and incorporated herein.

2. Goodnight proposes to drill a new commercial salt water disposal well to be named **Robinson SWD No. 1 Well** (API No. pending), which will be located 1,868 feet from the north line and 1,564 feet from the west line (Unit F), Section 4, Township 22 South, Range 36 East, NMPM, Lea County, New Mexico.

3. The proposed injection disposal interval will be within the Glorieta formation (SWD; Glorieta, Pool Code 91606) between 5,750 feet and 6,500 feet below the ground through an open-hole completion.

4. Disposal fluid will be produced salt water from oil and gas wells in the area producing from the Wolfcamp and Bone Spring formations.

The estimated average injection pressure is expected to be approximately 575 psi.
 The maximum injection pressure will be 1,150 psi.

6. The granting of this application will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. The administrative application was protested. Accordingly, the Applicant hereby requests that its application be set for hearing pursuant to 19.15.26.8(E) NMAC.

WHEREFORE, Goodnight Midstream Permian, LLC requests that this application be set for hearing before an Examiner of the Oil Conservation Division on June 13, 2019. After notice and hearing, as required by law, the Division enter an order approving this application.

Respectfully submitted,

HOLLAND & HART LLP By

Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Post Office Box 2208 Santa Fe, New Mexico 87504-2208 (505) 988-4421 (505) 983-6043 Facsimile mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com kaluck@hollandhart.com

#### **ATTORNEYS FOR GOODNIGHT MIDSTREAM PERMIAN, LLC**

### CASE <u>20556</u>: Application of Goodnight Midstream Permian, LLC for Approval of a Salt Water Disposal Well, Eddy County, New Mexico. Applicant in the abovestyled cause seeks an order authorizing it to drill and operate an injection well for purposes of disposing produced salt water to be named the Robinson SWD No. 1 Well (API No. pending), which will be located 1,868 feet from the north line and 1,564 feet from the west line (Unit F), Section 4, Township 22 South, Range 36 East, NMPM, Lea County, New Mexico. Injection will be into the Glorieta formation (SWD; Glorieta, Pool Code 91606) between 5,750 feet and 6,500 feet below the ground through an open-hole completion. Disposal fluid will be produced water from producing oil and gas wells in the area. Estimated average injection pressure is expected to be approximately 575 psi. The maximum injection pressure will be 1,150 psi. The subject well will be located approximately 8 miles northwest of Eunice, N.M.

DATEIN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

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

TH	HIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	ation Acronym	S:
	[DHC-Down [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AI	PPLICATION - Check Those Which Apply for [A]
	[A]	Location - Spacing Unit - Simultaneous Dedication
	Check [B]	Cone Only for [B] or [C] 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]	NOTIFICAT	<b>ION REQUIRED TO:</b> - Check Those Which Apply, or Does Not Apply
[~]	[A]	Working, Royalty or Overriding Royalty Interest Owners
	[B]	X Offset Operators, Leaseholders or Surface Owner
	[C]	X 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]	X For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ATION 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	Northan Allena	Regulatory Specialist - ALL Consulting	04/03/2019
Print or Type Name	Signature	Title	Date

**EXHIBIT A** 

nalleman@all-llc.com Date e-mail Address STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

PHONE: 214-444-7388(0)

#### APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE:	Secondary Recovery	Pressure	e Maintena	nce	X	Disposal
	Storag	e Application qualifies for administrativ	e approval?	Х	Yes		No

II. OPERATOR: Goodnight Midstream Permian, LLC

ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206

CONTACT PARTY: Grant Adams

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.

- 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:	TITLE:
SIGNATURE:	DATE:
E-MAIL ADDRESS:	

EXHIBIT A

\* 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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

#### Side 2

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.
- XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

Application for Authorization to Inject Well Name: Robinson SWD 1

### 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: Robinson SWD 1 Location Footage Calls: 1,868 FNL & 1,564 FWL Legal Location: Unit Letter F, S4 T22S R36E Ground Elevation: 3,589' Proposed Injection Interval: 5,750' – 6,500' County: Lea

#### (2) Casing Information:

Туре	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	495'	155	Surface	Circulation
Intermediate 1	8-3/4"	7"	26.0 lb/ft	5,750'	750	Surface	Circulation/ CBL
Tubing	6-3/11"	4-1/2"	20.0 lb/ft	5,730'	N/A	N/A	N/A

#### (3) Tubing Information:

4-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 5,730'

(4) Packer Information: Lok-set or equivalent packer set at 5,730'

Β.

- (1) Injection Formation Name: Glorieta Pool Name: SWD; GLORIETA Pool Code: 91606
- (2) Injection Interval: Open-hole injection between 5,750' 6,500'
- (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 (3,945')

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

• Tubb (7,270')

### 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 18 wells within the 1/2-mile AOR, but none of the wells 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: 12,500 bpd
- (2) A closed system will be used.
- (3) Proposed Maximum Injection Pressure: 1,150 psi (surface) Proposed Average Injection Pressure: approximately 575 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 Glorieta 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 Bone Springs, Delaware, Devonian, and Wolfcamp formations in the area are included in Attachment 4.

#### VIII – Geologic Description

The proposed injection interval includes the Glorieta formations from 5,750 - 6,500 feet. This formation consists of interbedded carbonate rocks including dolomites, siltstones, and sands. Several thick intervals of porous and permeable carbonate 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 470 feet. Water well depths in the area range from approximately 222 – 267 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, 3 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 none of the water wells are currently in use. Thus no water samples have been collected.

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

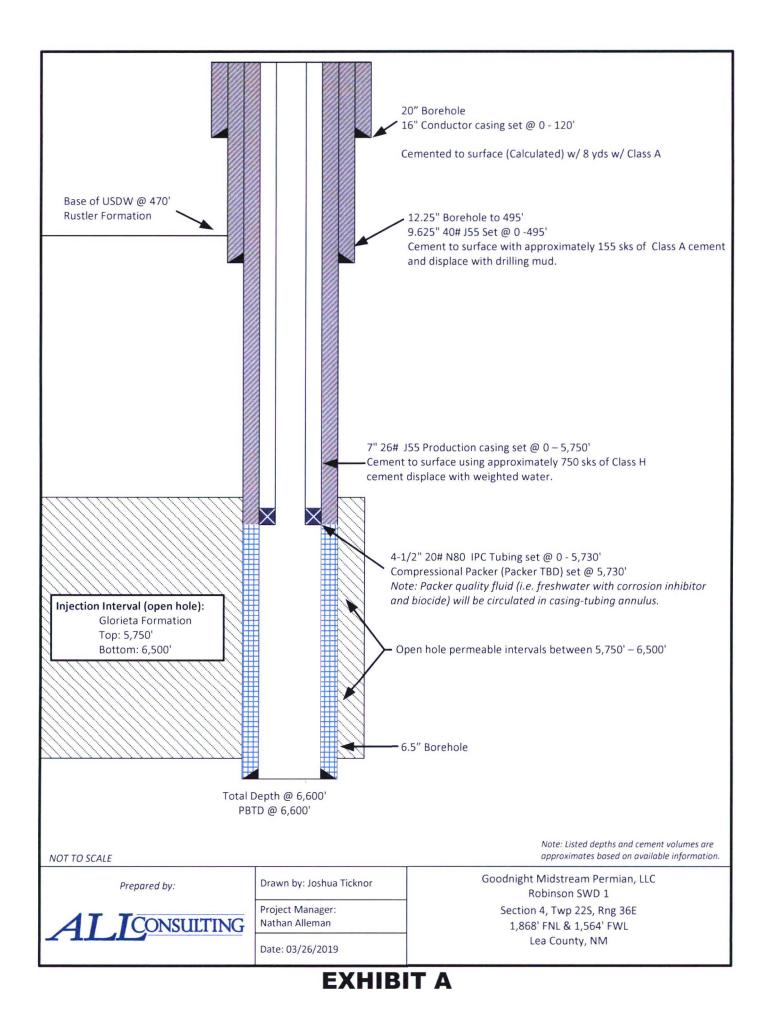
Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

Attachment 6: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

Wellbore Diagram



#### Retrievable Packer Systems

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

#### Product Family No. H64630 and H64628

#### APPLICATION

The A-3<sup>°°</sup> LOK-SET<sup>°°</sup> 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<sup>°°</sup> LOK-SET packer is similar to the A-3, and has a larger bore.

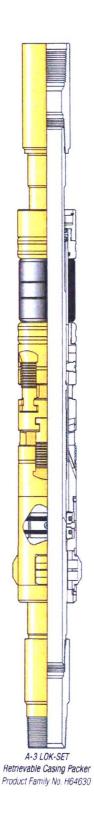
#### Advantages

- 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.





	Casing				Packer		
0	D	Weight •	Size	Non	n ID	Max Ring	Gage J 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	144.3	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
		18.8	41A4	1.500	20.4	3.423	112.4
		13.5-17.7	41B	1.500	36.1	3.578	90.9
4-1/2	114.3	11.6-13.5	43A2			3.786	96.2
		9.5-10.5	43A4	1.978	50.2	3.786	96.2
		15-18	438			4.140	105.2
5	127.0	11.5-15	43C	1.978	50.2	4.265	108.3
		26	43C			4.265	108.3
		20-23	45A2			4.515	114.7
5-1/2	139.7	15.5-20	45A4	1.97B	50.2	4.656	118.3
		13-15.5	45B			4.796	121.8
	1	26	458			4.796	1218
6	152.4	20-23	45C	1.978	50.2	5.078	1290
		15-18	45D			5.171	131.3
		34	45E			5.421	137.7
		24-32	45F	1.978	50.2	5.499	139.7
6-5/8	168.3	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	1480
		38	47A2			5.671	144.0
		32-35	47A4	1		5.827	148.0
7	1778	26-29	47B2	2.441	62.0	5.983	152.0
		23-26	47B4			6.093	154.8
		17-20	4702			6.281	159.5
		33.7-39	4704			6.468	164.3
7-5/8	193.7	24-29.7	47D2	2.441	62.0	6.687	169.9
		20-24	47D4			6.827	173.4
		44-49	49A2			7.327	186.1
8-5/8	219.1	32-40	49A4	3.500	88.9	7.546	191.7
		20-28	49B			7.796	198.0
		47-53.5	51A2			8.234	209.1
9-5/8	244.5	40-47	51A4	3.500	88.9	8.452	214.7
		29.3-36	51B			8.608	218.6

#### SPECIFICATION GUIDES A-3" LOK-SET Retrievable Casing Packer, Product Family No. H64630

#### AL-2" Large Bore LOK-SET Retrievable Casing Packer Product Family No. H64628

Cas	sing				Pa	cker		-	
	D	Weight •	Size	Nor	n ID	Max Gag	e Ring OD	Max Dia Compressed	meter of I Drag Block
in.	mm	lb/ft		in.	mm	in.	mm	in,	mm
		20	45A2 x 2-3/8			4.562	115.9	4.592	116.6
5-1/2	139.7	15.5-17	45A4 x 2-3/8	2.375	60.3	4.656	118.3	4,750	120.7
		13	458 x 2-3/8			4.796	121.8	4.902	124.5
6	152.4	26	45B x 2-3/8	2.375	60.3	4.796	121.8	4.902	124.5

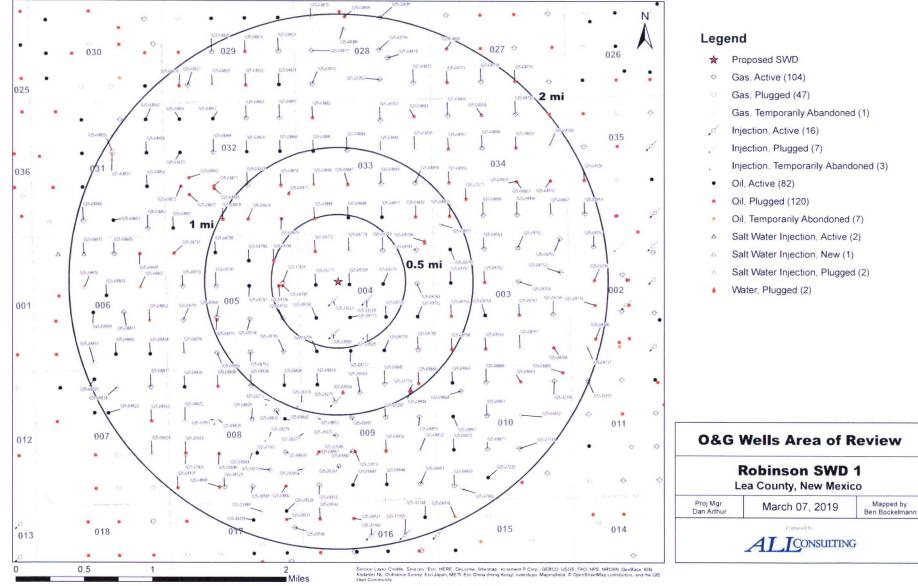
When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running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

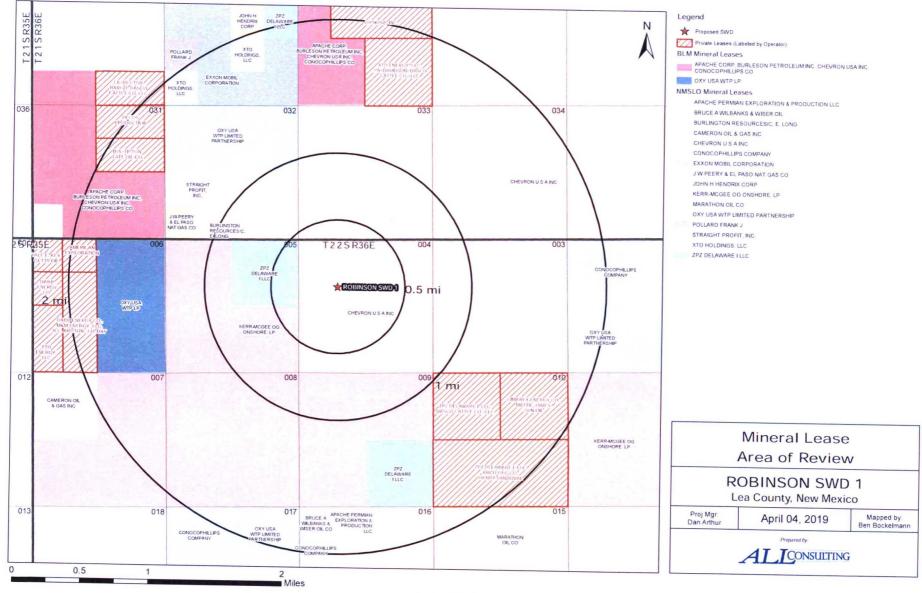
representative. Use only Baker Hughes repair parts.

#### Attachment 2

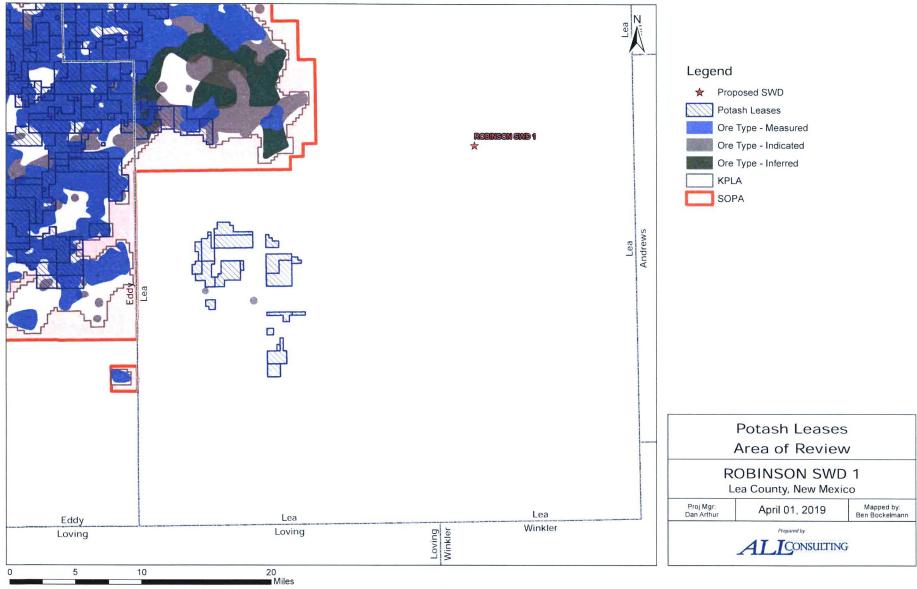
Area of Review Information:

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





Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
STATE 157 G-A #005	30-025-37801	G	BLACKBEARD OPERATING, LLC	4/18/2006	H-05-22S-36E	3800	No
STATE A A/C 2 #028	30-025-08792	G	BLACKBEARD OPERATING, LLC	5/7/1943	I-05-22S-36E	3885	No
F JANDA NCT F #006	30-025-08772	Plugged	CHEVRON U S A INC	7/31/1956	4-04-225-36E	Plugged (3890)	No
F JANDA NCT F #008	30-025-08774	Plugged	CHEVRON U S A INC	6/25/1962	3-04-225-36E	Plugged (3890)	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #012	30-025-28925	Plugged	CHEVRON U S A INC	12/21/1984	O-04-225-36E	Plugged (3970)	No
PRE-ONGARD WELL #001 (Sinclair Oil & Gas)	30-025-08785	Plugged	PRE-ONGARD WELL OPERATOR	9/14/1943	H-05-22S-36E	Plugged (3884)	No
PRE-ONGARD WELL #001Y (Atantic Richfield)	30-025-08786	Plugged	PRE-ONGARD WELL OPERATOR	8/11/1955	H-05-22S-36E	Plugged (3900)	No
F JANDA NCT F #011	30-025-08778	G	XTO ENERGY, INC	5/28/1957	2-04-225-36E	3855	No
ARNOTT RAMSAY NCT D #008	30-025-04889	0	XTO ENERGY, INC	6/25/1962	N-33-21S-36E	3870	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #002	30-025-08768	0	XTO ENERGY, INC	7/28/1981	L-04-22S-36E	3885	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #003	30-025-08769	0	XTO ENERGY, INC	10/31/1984	F-04-22S-36E	3900	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #004	30-025-08770	0	XTO ENERGY, INC	11/15/1984	G-04-22S-36E	3900	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #005	30-025-08771	0	XTO ENERGY, INC	5/6/1956	E-04-225-36E	3900	No
EVEN RIVERS QUEEN WATERFLOOD, NORTH #006	30-025-08773	0	XTO ENERGY, INC	12/20/1981	K-04-22S-36E	3885	No
EVEN RIVERS QUEEN WATERFLOOD, NORTH #007	30-025-08776	0	XTO ENERGY, INC	12/28/1956	J-04-22S-36E	3845	No
EVEN RIVERS QUEEN WATERFLOOD, NORTH #010	30-025-28923	ſ	XTO ENERGY, INC	12/15/1984	F-04-22S-36E	3970	No
EVEN RIVERS QUEEN WATERFLOOD, NORTH #011	30-025-28924	I	XTO ENERGY, INC	11/22/1984	G-04-22S-36E	3977	No
SEVEN RIVERS QUEEN WATERFLOOD, NORTH #013	30-025-28926	I	XTO ENERGY, INC	12/7/1984	K-04-22S-36E	3970	No



Attachment 3

Source Water Analyses

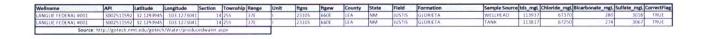
API	SECTION	TOWNSHIP	RANGE	FORMATION	tale mant	chloride	bicarbonate	sulfate
AFI	SECTION	TOWNSHIP	KANGE	FORMATION	tds mgL	mgL	mgL	mgL
3002502424	11	205	34E	BONE SPRING	29436	16720	634	1142
3002502427	12	205	34E	BONE SPRING	15429			
3002502427	12	205	34E	BONE SPRING	180701	108300	1016	670
3002502429	12	205	34E	BONE SPRING	202606	118100	5196	992
3002502429	12	205	34E	BONE SPRING	121800			
3002502431	12	205	34E	BONE SPRING	147229	89640	108	1038
3002531696	2	205	34E	DELAWARE	152064	102148	404	691
3002532105	2	205	34E	DELAWARE	296822	215237	143	294
3002532466	2	205	34E	DELAWARE	340838	245270	229	147
3002502427	12	205	34E	DELAWARE	214787	132700	208	1816
3002502431	12	205	34E	DEVONIAN	33414	18570	227	1961
3002502432	13	205	34E	DEVONIAN	45778	26440	1145	729
3002501912	16	165	34E	WOLFCAMP	164004	102500	4204	1249
3002501922	20	165	34E	WOLFCAMP	104541	64290	280	541
3002501922	20	165	34E	WOLFCAMP	104033	64080	268	515
3002501922	20	165	34E	WOLFCAMP	105175	65570	207	192
3002501925	21	165	34E	WOLFCAMP	86355	51800	610	665
3002501928	21	165	34E	WOLFCAMP	119102	73300	227	454
3002501928	21	165	34E	WOLFCAMP	35422	19170	979	1949
3002501930	22	165	34E	WOLFCAMP	30015	14800	750	3300
3002501931	22	16S	34E	WOLFCAMP	87680	53000	301	681
3002501933	28	165	34E	WOLFCAMP	59960	35100	515	1500
3002501933	28	165	34E	WOLFCAMP	60309	35350	586	1297
3002501940	30	165	34E	WOLFCAMP	82422	49890	361	787
3002501944	30	165	34E	WOLFCAMP	83960	51410	418	641
3002520222	27	165	34E	WOLFCAMP	85457	51020	544	1201
3001542895	2	235	31E	WOLFCAMP	119472	73173		1036

#### PRDUCED WATER FROM BONE SPRING, DELAWARE, DEVONIAN, WOLFCAMP

EXHIBIT F

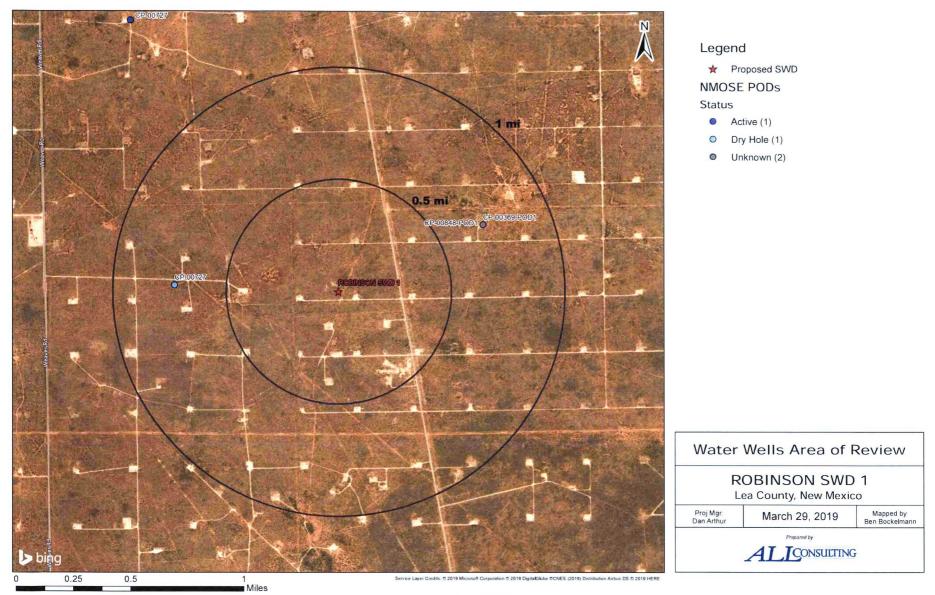
Attachment 4

Injection Formation Water Analyses



### Attachment 5

Water Well Map and Well Data



WI HALLEN BUT LESS	NAME TO STREET RESIDENCES		Vater Well Sampling Rationale		
	如何不可以用 <b>的</b> 的。他们有自己的		Goodnight - Robinson SWD 1		
Water Wells	Owner	Available Contact Information	Use		Notes
CP-00727	Dasco Land Corporation	P.O. Box 2545 Hobbs, New Mexico 88240 505.397.6012	Livestock watering	No	The initial application to appropriate underground wate in accordance with section 72-12-1 New Mexico State statute for well CP-00727 was approved in March of 1988. This well was drilled in NW 1/4 of the SW 1/4 of the NE 1/4 of section 57228 R36E. This well was found 1 be a dry well. Dasco Land Corporation then filed an application for permit to change location of the well to NE 1/4 of the NW 1/4 of the NE 1/4 of section 32 T215 R36E on May 25, 1988 and that application was approved on May 31, 1988. The second location was drilled and resulted in a producing water well with the same well number as the original location. The GPS location for this well number (CP-00727) on the New Mexico Office of the State Enginner GS viewer, still reflects the original location of the well. The new location for this well number is apropproximately 1.4 miles from the proposed SWD location, and thus does not need to be sampled. Attached below are the application to change well location and the two well records.
CP-00848 POD1	Chevron USA INC	P.O. Box 670 Hobbs, New Mexico 88240	Oil Production - Warerflood water supply	No	34.427108, -103.262793, Section 4 T22S R36E Grayburg San Andres 4000' - 5650' Not a freshwater formation.
CP-00369-POD1	Gulf Oil Corporation	P.O. Box 1938 Roswell, New Mexico	Oil Production	No	San Andres Formation 5,650' - 11,370' Not a freshwater formation.

	Revised December 1971	1
		53
	IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM	, /
	Application for Permit to Change Location of Well	
	Date Received May 25, 1988 File No. CP-727	-
	Name of Water Bight Owner DASCO LAND CORPORATION	
1		•
	Street or Post Office Address P. U. BUX 2545 City and State Zip Code 88240	
2	. Source of water supply Shallow, located in Capitan	
	(artesian or shallow water aquifer) (name of underground basin)	
	<ul> <li>Well from which rights are to be severed:</li> <li>(a) Well is in the <u>NW</u> ¼ <u>SW</u> ¼ <u>NE</u> ¼, Section <u>5</u> Township <u>22-S</u> Range <u>36-E</u>N.M.P.M.,</li> </ul>	
	or Tract No of Map No of the	
	Yes	
	(b) Is well to be plugged; If not, state for what use retained	
4	Application is made to change location of well for the following reasons (If well is to be used for only a part of	÷
-	original right describe that part by legal description under item number 6): <u>Dry hole</u>	
E	. Well to which transfer is to be made:	
	(a) Located in the NE 1/2 NW 1/2 NE 1/2, Section 32 Township 21-SRange 36-E N.M.P.M.,	
	or Tract No of Map No of the on land owned by	
	(b) Quantity of water to be appropriated acre feet applied to acres	
	of land; if not for irrigation, specify purposestock	
	(c) If existing well, give File No. <u>ABBOTT BROTHERS</u>	
	(e) Outside diameter of casing <u>6</u> inches; Approximate depth to be drilled <u>267</u> feet. Additional statements or explanations	
0		e <sup>r</sup>
5		
5		
-	Ben Alexander	
=	Ben Alexander, affirm that the foregoing statements are true to the best of my knewledge	
=	Ben Alexander	STA
=	Ben Alexander, affirm that the foregoing statements are true to the best of my knewledge d belief and that I am theSole owner and holder of said water right? (sole, partial, agent for, etc.) DASCO Land CorporationAopplicant	STATE
1, ar	Ben Alexander	STATE ENG Roswell
=	Ben Alexander	STATE ENGINE Roswell, N
1, ar	Ben Alexander	Fig
I, ar	Ben Alexander	LL. NM
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= I, ar B <sup>i</sup> Er pe	Ben Alexander	LL. NM
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B' B' B' Er to Er	Ben Alexander	LL. NM
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B B B C XXX to E coeth to r	Ben Alexander	NGINEER 89
B' B	Ben Alexander	NGINEER 89
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B' B	Ben Alexander	NGINEER 89

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3 all and second 5 DEPORTANT READ INSTRUCTIONS ON BACK REFORE FILLING OUT FREETORN

### Application for Formit to Change Location of Weil

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    - ter i de la Instructions . 20 North a destador

This form shall be executed, preferably typewritten, in triplicate and must be accompanied by a \$5.00 filing fee. Each triplicate copy must be properly signed. If applicant is not recorded owner of water right; Change of Ownership affidavit. must accompany this application. If additional space is required use a separate sheet or sheets and attach securely-hereto.

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60) 41<sup>---</sup> 23 A. J. Marshall Street.

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1				WELL R	ECORD			4	15749
			Section 1	. GENERA	L INFOR	MATIO	N	Ę	, , ,
(A) Owner	of well	DASCO Land	C orpor	ation			Owner	's Well No.	
Street o	r Post Office A	ddress P.O. Hobbs	Box 25	45 Mexico	88	240			
		t No. CP-7							
a	NW	A SW 1/4 NE	¼ of Se	ction	5 To	wnship_	22S Ran	ge_36E	N.M.P.
b. Trac	t No	of Map No		of	the				
c. Lot	No	of Block No.		of	f the				
Subd	livision, recorde	ed inL	28		_ County	<i>(</i> .			
		feet, Y=		feet	t, N.M. Co	oordinate	System		
		Abbert Re-	De De						Gran
B) Drilling	Contractor	ADDOLL BIG	58. UT	lling			License No	WD-46	· · · · · · · · · · · · · · · · · · ·
Address	P.O. Bo	x 637, Hol	obs, No	ew Mexi	ico	88240	)		
Drilling Begar	4/22/8	8 Comple	ted	4/26/8	88 Typ	e tools	Cable	Size of	holei
0 0		•					ft. Total depth		
nevation of la	and surface or _								
Completed we	ell is 🛣 s	shallow 🗆 art	esian.		Deptl	n to wate	r upon completion	of well	KI AULE
		Sectio	on 2. PRIN	CIPAL WA	TER-BEA	ARING S	TRATA		
Depth From	in Feet	Thickness in Feet							nated Yield s per minute)
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2 <u>4</u>		2	5						×00
			Sectio	n 3. RECO	RD OF C	ASING			
Diameter	Pounds	Threads	Depth	in Feet	L	ength	Type of Sho	e	Perforations
(inches)	per foot	per in.	Тор	Bottom	n	(feet)		Fr	om To
12 3/4	33		7		7				
					_		_		
	-	Section	4 RECO	RD OF MU	DDING 4	NDCE	IENTING		
	2. Fred	Hole	Sack	s	Cubic F	eet		d of Placem	ient
Depth		Disc		ud l		ent			
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From Plugging Cont	.0. BOR OFFICE OFFICE	TT BROS. D	Sectio	n S. PLUGO	GING RE		Depth in I		Oubie Fact
From Plugging Cont Address <b>P</b> Plugging Meth	OFFICE OFFICE	TT BROS. D 637 Cap welde	Sectio RILLIN d on t	n S. PLUGO	GING RE	4 No.	Depth in F Top	Feet Bottom	Cubic Feet of Cement
From	A Constant of the second secon	TT BROS. D	Sectio RILLIN d on t	n S. PLUGO	GING RE	<b>4</b> No.			
From Plugging Cont Address P Plugging Meth Date Well Plug	A Constant of the second secon	T BROS. D 637 Cap welde il 27,1988	Sectio RILLIN d on t	n S. PLUG G OP ON	GING RE	<b>4</b> No.			
From Plugging Cont Address P Plugging Meth Date Well Plug	A Constant of the second secon	TT BROS. D 637 Cap welde	Sectio RILLIN d on t	n S. PLUG G OP ON	GING RE	<b>4</b> No.			
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		<u> </u>	Section 6. LOG OF HOLE	· · · ·
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encounte	ered
		-		
<u> </u>	<u>5</u> 10	5	Topsoil Clay	
	- 10		Call	
10	20	10	Sandy 6456832	
20	180	. 160	Sand .	
180	190	10	Hard Blue Sand	
190	225	35	Soft Sand	
225	228	3	Hard Sand	
				<u> </u>
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	· · ·	Section	7. REMARKS AND ADDITIONAL INFORMATION	 T=
		•	•	APR 28
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			· ·	25 AH 88
				AH "

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abott Driller N.B

INSTRUCTIONS: This form should be of the State Engineer. All sections, e drilled, repaired or deepened. When this .

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mited in triplicate, preferably typewritten, and shitted to the appropriate district office ection 5, shall be answered as completely . is used as a plugging record, only Section 1(a, ...d Section 5 need be completed.

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•			ST	ATE ENGINEE			1 -	15753
				WELL REC	ORD	27	Y	607
				1. GENERAL I				
<ul> <li>A) Owner of Street or</li> </ul>	well	ASCO La	nd Corp	2545		Owner's	s Well No	
City and	State	E E	obbs, N	ew Mexico	88240			
ell was drilled	l under Permit	No	CP-727		_ and is located	d in the:		
a	14 NE 1/4	NH 1/4 ]	NE ¼ of S	ection 32	Township	2.1-S Range	- 36-B	
							:*)	•
	o vision, recorded			01 th			••	
d. X=		_ feet, Y=		feet, N	.M. Coordinate	System	· · · · · · · · · · · · · · · · · · ·	Zone ii
the					-			Grant
B) Drilling C	Contractor	bbott B	ros. Dr:	illing		License No	WD-46	
.ddress	P	O. Box	637, Ho	bbs, New	Mexico	882409		
rilling Began .	5/12/88	3 Com	pleted 5/	19/88	_ Type tools _	Cable	Size of hole	10 in
			8			ft. Total depth o		
ompleted well	is 🗶 sł	nallow 🗌	artesian.		Depth to wate	r upon completion o	f well	ft
Depth	in Feet	Thicknes		NCIPAL WATE	R-BEARING S	TRATA	Estimated	Vield
From	То	in Feet		Description of	Water-Bearing	Formation	(gallons per	
212	225	13	San	d				
-					-			
				on 3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.		on 3. RECORD n in Feet Bottom	OF CASING Length (feet)	Type of Shoe	Perfo From	rations To
(inches)	per foot	per in.	Depth Top	Bottom	Length (feet)			
	per foot	and an and a second	Depth	n in Feet	Length	Type of Shoe	From	To
(inches)	per foot	per in.	Depth Top	Bottom	Length (feet)		From	To
(inches)	per foot	per in.	Depth Top	Bottom	Length (feet)		From	To
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			Section 6. LOG OF HOLE
Depti	n in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	Color and Type of Material Encountered
0	7	7	Top Soil
7	20	13	Caliché
20	108	88	Sand with Rock Ledges
108	127	19	Sand
127	165	38	Sandy Clay
165	192	27	Sand
192	212	20	Sandy Clay
212	-225	- 13	Sand-Water
225	265	40	Tight Sandy Clay
265	267	2	Red Bed
	:		1 1
		1	

Section 7. REMARKS AND ADDITIONAL INFORMATION

STATE ENGINEER ROSWELL, NH JUN 6 8 25 AH "88

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell Abbett Driller 2.8.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, expection 5, shall be answered as completely accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



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 April 02, 2019 and ending with the issue dated April 02, 2019.

Publisher

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

**Business Manager** 

My commiss January 29	ion expires	*
(Seal)	CUSSIE BLACK	
1 1	Notary Public State of New Mexico	
8-14	Licion Expired - 29 - 20	10.1

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

#### LEGAL NOTICE APRIL 2, 2019

#### APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 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: <u>Robinson SWD 1</u> SE 14 NW 14. Section 4. Township 22S, Range 36E 1.868 FNL & 1.564 FWL Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Glorieta (5.750' - 6.500')

EXPECTED MAXIMUM INJECTION RATE: 25.000 Bbis/day

EXPECTED MAXIMUM INJECTION PRESSURE: 1.150 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 Alieman at 918-382-7581. #33967

67115320

00226591

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

Entity	Robinson SWD 1 - Notice of Application Recipien Address	City	State	Zip Code
Entity		City	Jale	Zip coue
	Landowner			
Llano Estacado Properties, LLC	5910 North Central Expressway, Suite 850	Dallas	TX	75206
	OCD District	特定的基本组织的		
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
	Mineral Owner	的行为利用的利用	<b>建立</b> 法制制的	
Commissioner of Public Lands				
State Land Office				
Attention: Faith Crosby	310 Old Santa Fe Trail	Santa Fe	NM	87501
Water Resources				
NM State Land Office				
	Leasehold Operators	11.1%自己在分析	Marine and	1724 18 X.M.
Blackbeard Operating, LLC	201 W. Wall St., Suite 900	Midland	TX	79701
Chevron U S A Inc	6301 Deauville Blvd.	Midland	ТХ	79706
Kerr-McGee O/G Onshore, LP	P.O. Box 867	Andrews	ТХ	79714
XTO Energy, Inc	200 N. Loraine St., Suite 800	Midland	ТХ	79701
ZPZ Delaware I LLC	2000 Post Oak Blvd., Suite 100	Houston	ТХ	77056

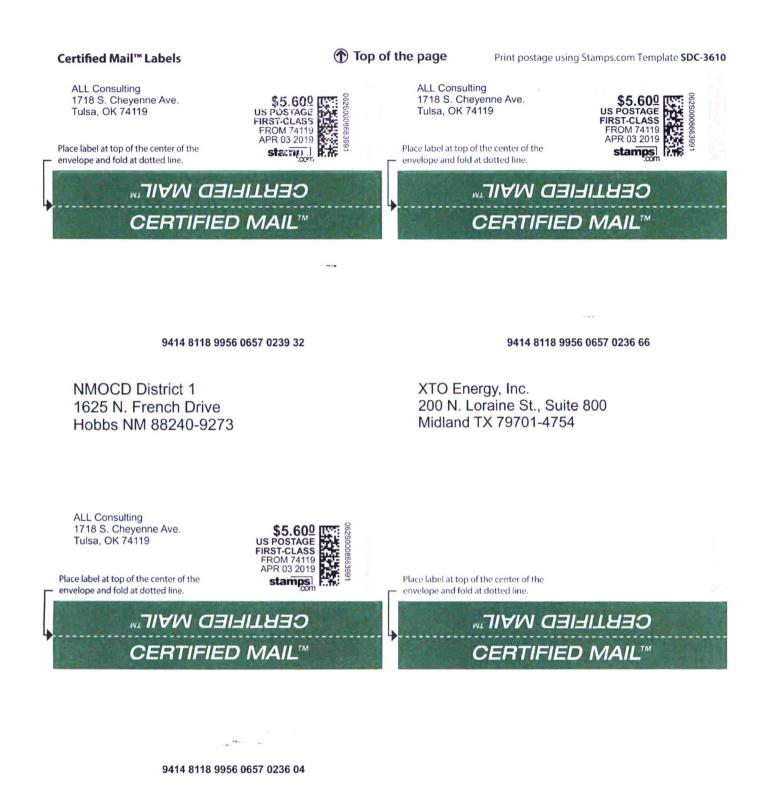


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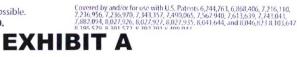






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