BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING NOVEMBER 14, 2019

CASE No. 20825

VERLANDER SWD No.1 WELL

LEA COUNTY, NEW MEXICO



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 NOS. 20825

AFFIDAVIT OF NATHAN ALLEMAN

I, Nathan Alleman, of lawful age and being first duly sworn, declares as follows:

1. My name is Nathan Alleman. I work for ALL Consulting as a regulatory

specialist and project manager. I have been retained by Goodnight Midstream Permian, LLC

("Goodnight Midstream").

2. I have previously testified before the New Mexico Oil Conservation Division as

an expert witness in regulatory matters and permitting salt water disposal wells. My credentials

as an expert in regulatory matters and permitting salt water disposal wells have been accepted by

the Division and made a matter of record.

3. I am familiar with the application filed by Goodnight Midstream in this case, and

I am familiar with the status of the lands in the subject area.

4. This application was originally filed for administrative approval but was protested

during the administrative review period by the New Mexico State Land Office. As a result of that

protest, Goodnight Midstream requested that the application be set for hearing before a Division

Examiner. The New Mexico State Land Office is the only entity that objected to this application.

The State Land Office has stated that it does not oppose presentation of this case by affidavit.

Therefore, I do not expect any opposition at hearing.

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

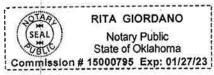
- 5. Exhibit 1, attached hereto, is a full and complete copy of the Form C-108 application filed by Goodnight Midstream.
- 6. In this application, Goodnight Midstream seeks authority to inject produced salt water for purposes of disposal through its proposed Verlander SWD No. 1 Well (API No. pending), which will be located 2,482 feet from the north line and 1,277 feet from the east line (Unit H), Section 12, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 2 in Exhibit 1 contains a C-102 depicting the location for the proposed injection well.
- 7. The proposed injection disposal interval will be within the San Andres-Glorieta formation [SWD; San Andres-Glorieta (Pool Code 96127)] between 4,251 feet and 5,550 feet below the ground through a perforated completion. The estimated average surface injection pressure is expected to be approximately 600 psi. The maximum surface injection pressure will be 850 psi.
- 8. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial salt water disposal well.
- 9. Exhibit 1, page 44, contains a map depicting the location of the proposed injection well and the relative location of three freshwater wells within a one-mile radius. Water sample analyses for each freshwater well are included at pages 41-43 in Exhibit 1.
- 10. Notice of this application was provided to the surface owner and oil and gas lessees and operators of record within a half-mile area of review that are entitled to receive notice. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of New Mexico Oil Conservation Division and BLM operator records as of the time the application was filed. *See* Exhibit 1, page 47-58. Exhibit 1, page 12, is a map that depicts all lease tracts within the half-

mile area of review. A complete list of the parties entitled to notice is included in Exhibit 1 at pages 59-61.

- 11. Exhibit 1, page 62, is a copy of a sample notice letter sent to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Exhibit 1, pages 63-69, is proof that notice of the application was sent by certified mail, return receipt requested, as required by Division rule. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included in Exhibit 1 at page 70.
- 12. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address.
- 13. The U.S. Bureau of Land Management owns both the surface and minerals at the location of the proposed injection well. Page 12 in Exhibit 1 is a map depicting all oil and gas leases within a one-mile radius of the proposed injection well. Page 12 of that same exhibit contains a table identifying each of the lessees of record and the operators for those leases.
- 14. **Exhibit 2** is a copy of an attorney affidavit prepared by Holland & Hart LLP reflecting that notice of this hearing was sent to the State Land Office, as the sole protestant. FURTHER AFFIANT SAYETH NOT.

Nathan Alleman

STATE OF OKLAHOMA)
COUNTY OF Wagoner
SUBSCRIBED and SWORN to before me this 57 day of November
2019 by Nathan Alleman.
Pita Goodane
NOTARY PUBLIC
My Commission Expires:
1.27.23



13775043_v1

District 1
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) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Azlec, NM 87410

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

19.15.14.9 (B) NMAC ☑, if applicable

Rìch

E-mail Address: rrehm@goodnightmidstream.co

Phone: (214)

CO

7/25/19

Signature:

Title:

Printed name:

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Goodnight Midstream Permian, OGRID Number 37231 LLC
5910 N Central API Number 30-025 Property Code Property Name Well No. **VERLANDER** 1 7. Surface Location UL - Lot Township Section Lot Idn Feet from E/W Line N/S Line Feet From County Н 36E 12 218 2482 1277 Proposed Bottom Hole Location UL - Lot Section Township Range Lot ldn Feet from N/S Line Feet From E/W Line County 9. Pool Information Pool Code **9612** Pool Name SWD: San Andres -Additional Well Information Work Type Well Type 14. Lease Type Cable/Rotary 15. Ground Level Elevation Ν S R * Formation No Spud Date Multiple Proposed Depth 19 Contractor 5650' N San Andres - Glorieta TBD Upon C-108 Depth to Ground water Distance from nearest fresh water well Distance to nearest surface water ~3000' southwest of Robert McCasland well 154' in CP 00986 POD1 ~ 2 miles north of We will be using a closed-loop system in lieu of lined pits 21. Proposed Casing and Cement Program Туре Hole Size Casing Size Casing Weight/ft Setting Depth Sacks of Cement Estimated TOC Surface 12.25" 9.625" 40 1280' 705 GL 7" Production 8.75" 26 5650 1475 GL Casing/Cement Program: Additional Comments 22. Proposed Blowout Prevention Program Type Working Pressure Manufacturer Annular & amp; Rams 3000 psi 3000 ps 23. I hereby certify that the information given above is true and complete to the OIL CONSERVATION DIVISION best of my knowledge and belief. I further certify that I have complice with 19.15.14.9 (A) NMAC and/or

Approved By:

Approved Date:

Conditions of Approval Attached

Title:

BEFORE THE OIL CONSERVATION DIVISION

Expiration Date:

Santa Fe, New Mexico Exhibit No. 1

Hearing Date: November 14, 2019 Case No. 20825 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) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
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 & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

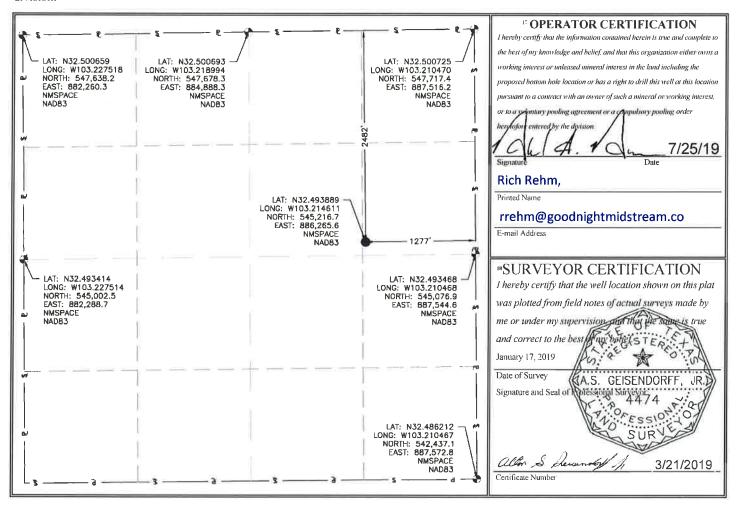
1220 South St. Francis I Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Code									
4 Property (Code				5 Property N	Name		6	⁶ Well Number				
OGRID 1	No.			⁹ Elevation									
		GOODNIGHT MIDSTREAM PERMIAN, 3503.33											
	¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
Н	12	218	36E		2482	NORTH	1277	EAST	LEA				
			" Bo	ttom Hol	e Location If	Different Fron	n Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
12 Dedicated Acres	13 Joint or	r Infill 14 Co	nsolidation	Code 15 Or	der No.		· · · · · · · · · · · · · · · · · · ·		•				

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



RECEIVED:	REVIEWER:	TYPE:	APP NO	
	- Geolog	CO OIL CONSERVA gical & Engineering Francis Drive, Santo	ATION DIVISION Bureau –	
				- Contraction of the Contraction
	THIS CHECKLIST IS MANDATORY FOR	TRATIVE APPLICATION ALL ADMINISTRATIVE APPLICATION		VISION RULES AND
		REQUIRE PROCESSING AT THE [DIVISION LEVEL IN SANTA FE	
pplicant:_	Goodnight Midstream Perr	nian, LLC	OGRID N	lumber: <u>372311</u>
/ell Name:	VERLANDER SWD #1		API: 30	
ool: _ SWD;	San Andres-Glorieta		Pool Cod	de:
SUBMIT AC	CURATE AND COMPLETE IN	NFORMATION REQUIR INDICATED BELO		TYPE OF APPLICATION
	APPLICATION: Check those ation – Spacing Unit – Simu NSP	ultaneous Dedication] Peproration unit SD	
[1]	eck one only for [1] or [11] Commingling – Storage – 1 DHC	PLC PC O	nced Oil Recovery	502 002 GNIV
A. C. R. C. A. D. R. N	ATION REQUIRED TO: Check Offset operators or lease had Royalty, overriding royalty of Application requires publish Notification and/or concur	olders owners, revenue owi hed notice rent approval by SLC	ners D	FOR OCD ONLY Notice Complete Application Content Complete
F. 🔳 S G.🔳 F	Notification and/or concurur urface owner or all of the above, proof No notice required			·
administra understar	ATION: I hereby certify tha ative approval is accurate and that no action will be to ons are submitted to the D	and complete to that aken on this applicat	e best of my knowle	edge. I also
	Note: Statement must be comp	eleted by an individual with r	nanagerial and/or supervis	ory capacity.
			7/25/40	
Rich Rehm C	00		7/25/19 Dale	
Print or Type No	ame			
1	Λ		(214) 391 2039 Phone Number	
106/A	. 1 du		rrehm@goodnightn	nidstream.com

e-mail Address

Signature

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

	ATTECATION FOR AUTHORIZATION TO INSECT
1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Goodnight Midstream Permian, (OGRID
	ADDRESS: 5910 N Central Expressway, Suite 850 Dallas, TX
	CONTACT PARTY: Agent: Midcon Resource Group, LLC - Thomas PHONE: (701)
III,	Agent Email: 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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: RichTITLE: CO
	SIGNATURE: 10 A. 10 DATE: 7/25/19
	E-MAIL ADDRESS: rrehm@goodnightmidstream.co
*	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:

INJECTION WELL DATA SHEET Side 1 **OPERATOR:** Goodnight Midstream Permian, LLC WELL NAME & NUMBER: VERLANDER SWD #001 2482' FNL & 1277' FEL Н 12 WELL LOCATION: **UNIT LETTER SECTION** TOWN! **FOOTAGE LOCATION** WELL CONSTRUCT WELLBORE SCHEMATIC Surface Casing Injection pressure o benatinom solunnA Hole Size: 12-1/4" regulated to <= 850 psi Casing Siz open to atmosphere (MAIP 2 ps. per font) 705 GL: 3503.3' Cemented with: SX, or____ Surface Casing: Top of Cement: 0' Method D 9.625" 40# J-55 set to 1,280' in 12.25" hole with 705 sacks 1000 Intermediate Casing of cement circulated to Anhydrite - 1295 surface Salt # 1765". Casing Siz Hole Size: **Production Casing:** 2000 7.0" 26# J-55 casing set to 5,650' in 8.75" hole with Cemented with: sx. or 1475 sacks of cement Value 2055 circulated to surface Top of Cement: Method D 7 Rivers = 1920 3000 **Production Casing** Tubing: Queen 3420 4.5" 11.6# L-80, LT&C Grayburg - 1705'

fiberglass-lined steel set to

7" Arrowset 1-X stainless packer set at 4,200°

4,200'

Packer:

Perforations:

4,251' - 5,550' San Andres - Giorieta

PBTD: ~5,604'

Total Depth: 5,650'

40000

5000

5000

7000

San Ambres - 4015

Glorieta 5220

Partidock = 5555 Blinetzry - 9765 Hole Size: 8-3/4" Casing Siz Cemented with: 1475 or ____ SX. Top of Cement: 0' Method D 5650' Total Depth: Injection Interval

> 4251' feet to (Perforated or Open Hole; indicate

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2"	Lining Material:Fiberglass
Type of Packer: 7" Arrowset 1-X Stainless	
Packer Setting Depth: Proposed-4,200'	
Other Type of Tubing/Casing Seal (if applicab	le):
Ade	ditional Data
1. Is this a new well drilled for injection?	No
If no, for what purpose was the well origin	nally drilled?
·	
2. Name of the Injection Formation: San Ar	ndres &
3. Name of Field or Pool (if applicable): <u>SW</u>	D; San Andres-Glorieta
4. Has the well ever been perforated in any of intervals and give plugging detail, i.e. sach	
5. Give the name and depths of any oil or gas injection zone in this area: (1/2-mile A	
Over: Yates~ (2655'); Seven Rivers ~(2920	0'); Queen ~(3420'); Grayburg ~(370
Under: Blinebry ~(5765'); Tubb ~(6355');	Drinkard ~(6740')
<u> </u>	

APPLICATION FOR AUTHORIZATION TO INJECT

VERLANDER SWD #1 – API# 30-025-XXXXX 2482' FNL & 1277' FEL, Unit H of Sec 12-T21S-R36E Lea County, New Mexico

PURPOSE: The purpose of this application is to gain approval to drill and complete the VERLANDER SWD #1 well within the San Andres and Glorieta formations. This application DOES qualify for administrative approval.

OPERATOR:

Goodnight Midstream Permian, LLC (OGRID 372311)

ADDRESS:

5910 N Central Expressway, Suite 850 Dallas, TX 75206 OPERATOR PHONE: (214) 891-2039

AGENT:

Midcon Resource Group, LLC - Thomas Schumacher

AGENT PHONE:

(701) 400-9909

AGENT EMAIL: tom@midcongroup.com

- III. WELL DATA: Well data for this application is listed below and detailed on the Proposed Wellbore Schematic that is included as Attachment III-1.
 - The following well data must be submitted for each injection well covered by this application. The data A. must be both in tabular and schematic form and shall include:
 - LEASE NAME: VERLANDER SWD

LEASE TYPE: Fee

WELL NAME & NO.: VERLANDER SWD #1

LOCATION: 2482' FNL & 1277' FEL, Unit H of Sec 12-T21S-R36E

- (2) SURFACE CASING: The 9.625" 40# J-55 will be set to 1,280' in 12.25" hole and cemented with 705 sacks of cement circulated to surface. PRODUCTION CASING: The 7" 26# J-55 production casing will be set to 5,650' in an 8.75" hole and cemented with 1475 sacks of cement circulated to surface and confirmed with CBL.
- (3) TUBING: 4.5" 11.6# L-80, LT&C fiberglass-lined steel tubing will be set to ~4,200'.
- (4) PACKER: 7" Arrowset 1-X stainless packer will be set to ~4,200'.
- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well.
 - (1) INJECTION FORMATION: SWD; San Andres-Glorieta (96127)
 - INJECTION INTERVAL: This application is proposing to perforate the San Andres (2) and Glorieta intervals from 4,251' - 5,550'.
 - WELL'S ORIGINAL PURPOSE: The well will be drilled as a saltwater disposal well. (3)
 - (4) CURRENT PERFORATED INTERVAL STATUS: Well has not yet been drilled.
 - **NEXT HIGHER OIL/GAS ZONE:** (5)

EUNICE MONUMENT, GRAYBURG-SAN ANDRES. The ROY RIDDEL #3 well (API# 30-025-35486) is approximately 2250' south-southeast from the proposed VERLANDER SWD #1 and produces from this "pool" but was never completed within the San Andres Formation.

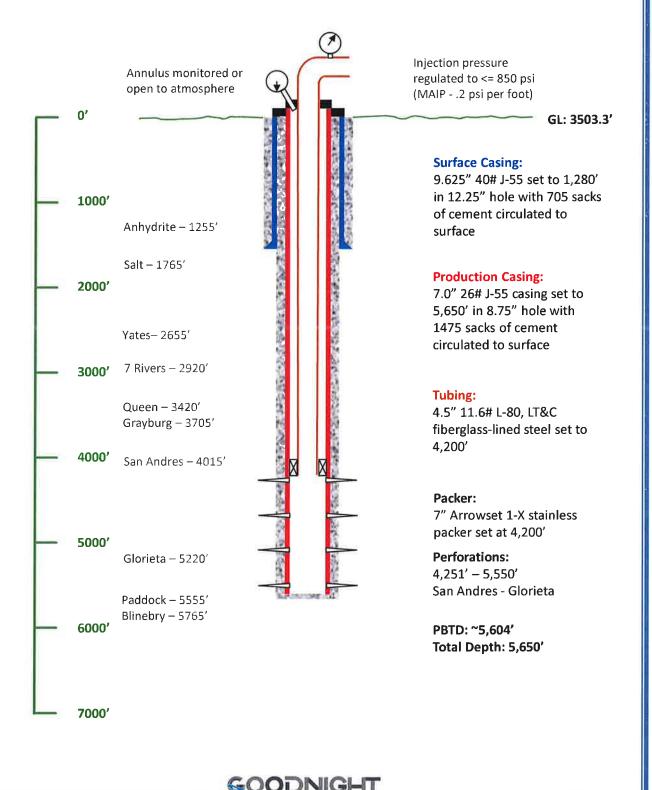
PENROSE SKELLY, GRAYBURG. The ALEXANDER #1 well (API# 30-025-09905) is approximately 2100' east-southeast from the proposed VERLANDER SWD #1 and produces from the Grayburg Formation.

NEXT LOWER OIL/GAS ZONE:

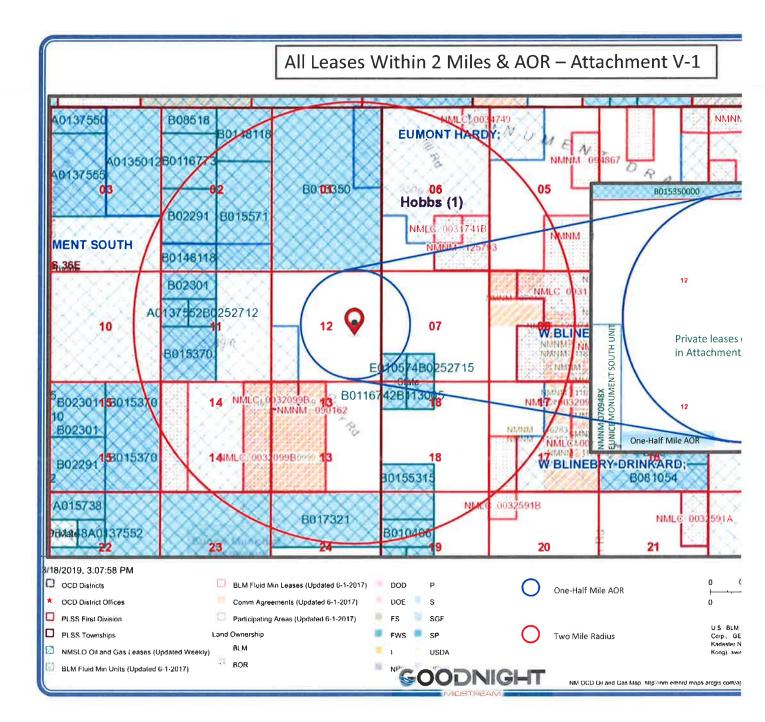
BLINEBRY OIL & GAS. The DECK SATATE 7 #1 well (API# 30-025-33677) is approximately 2450' southwest of the proposed VERLANDER SWD 1 and produces from this pool.

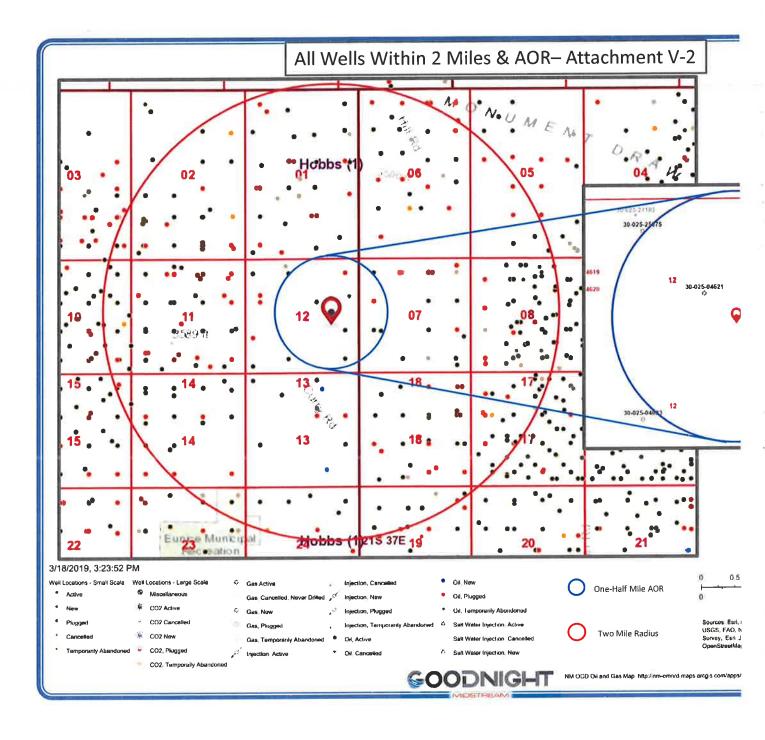
Proposed Wellbore Schematic – Attachment III-1

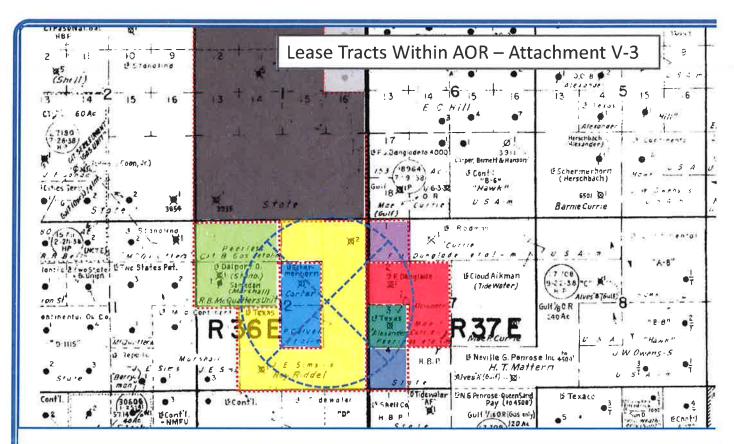
VERLANDER SWD #001 – API# 30-025-XXXXX 2482' FNL & 1277' FEL, Unit H of Sec 12-T21S-R36E Lea County, New Mexico



- IV. EXPANSION PROJECT STATUS: This is not an expansion of an existing project. It is a request to complete the proposed VERLANDER SWD #1 within the San Andres and Glorieta intervals from 4,251′ 5,550′.
- V. AREA OF REVIEW MAPS: Maps that identify New Mexico State Land leases and wells within two miles of the proposed VERLANDER SWD #1 are included as Attachments V-1 and V-2. They both include finer detailed one-half mile inset maps. Attachment V-3 details a historic plat overlain with the individual NM and privately leased tracts and a chart that defines these tracts within the AOR.







A	SE DETAILS WITHIN AOR			
Tract in AOR	Color on Map	Lessor	Lessee	Well Operator(s)
Section 1-21S-36E Less L1, L8, L9		NMSLO (B015350000)	Conoco Phillips Co.	ConocoPhillips Co.
N2NW; S2NW Section 12-21S-36E		Private	See Attachments XIII-1 & XIII-1.1	Petroleum Exploration Company Ltd., Lin
NWSE; SWNE Section 12-21S-36E		Private	See Attachments XIII-2 & XIII-2.1	Special Energy Corp.
NWNE; E2NE; E2SE; SWSE; E2SW Section 12-21S-36E	- 110	Private	See Attachment XIII-3 & XIII-3.1	Chevron U S A INC
Lot 1 (NWNW) Section 7-21S-37E		Private	See Attachment XIII-4	Apache Corporation
Lot 2 (SWNW); SENW; NESW Section 7-21S-37E		Private	See Attachment XIII-5 & XIII-5.1	None
Lot 3 (NWSW) Section 7-21S-37E		Private	See Attachment XIII-6	Upland Production Company/Penroc Oil
Lot 4 (SWSW) Section 7-21S-37E		NMSLO (E01057000)	Fulfer Oil & Cattle LLC	None



One-Half Mile AOR



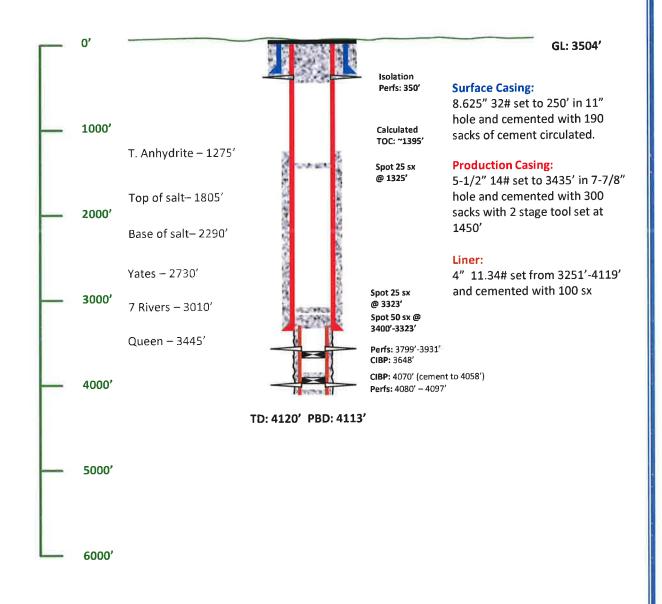
*VI. DATA ON WELLS IN AOR: OCD GIS details 8 wells within the one-half mile AOR consisting of 4 active producers, 3 P&A's and 1 cancelled APD. A tabulation of data of public record for these wells is included as Attachment VI-1. It includes each well's type, status, pool, construction, location, GL, and TVD. Detailed schematics are included as Attachments VI-2, VI-3, VI-4 and VI-5 for four wells that may have penetrated the proposed injection zone.

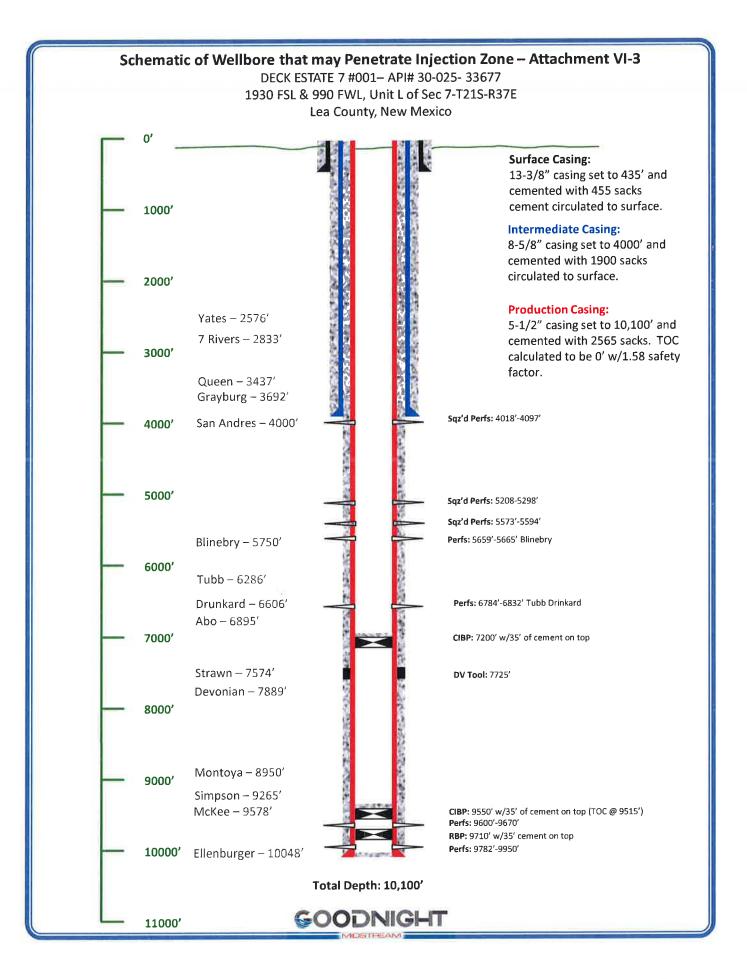
Data on Wells in AOR – Attachment VI-1

ب ل بر باي			VERLA	NDER S	SWD 1 Area of Review Wells	
# API#	Well Name	Operator	Status	Тур	ype Well Completions	
1 30-025-04621		SPECIAL ENERGY CORP	Active		as [76480] EUMONT, YATES-7 RVRS-QUEEN (GAS)	
	-			500 sad	acks circulated to surface, 88 joints of 5-1/2" casing was set to 3416' and cemen	ted with
3430' - 3630' a	nd completed on 9/28/1954	This well never penetrated the San Andres or				
	ROY RIDDEL #002	TEXACO EXPLORATION & PRODUCTION INC			as [76480] EUMONT, YATES-7 RVRS-QUEEN (GAS)	
					ack; 5-1/2" production casing was set to 3530' and cemented with 500 sack; The	
			sx plugs @ 3676' and	3505'; 1	15 sx plugs at top of unrecoverable 5-1/2" and @ bottom of 8-5/8" surface casi	ng; and a
was P&A'd. Thi	s well never penetrated the	San Andres or Glorieta				
	ALEXANDER #001	MILLARD DECK ESTATE	P&A Released		as [76480] EUMONT, YATES-7 RVRS-QUEEN (GAS)	
					with 190 sx; 5-1/2" production casing was ran to 3435' and cemented with 300 sx	
					erfed, and was unproductive. The well was plugged back to 4058' and perfed from	
plug @ 3400'-3	323'; 25 sx plug @ 3323'; 25	sx plug @ 1325' and 92 sx plug @ 350' thru per	fs to surface and the s	ite relea	eased. This well may have penetrated the upper San Andres but no record of pro-	duction c
adequately isol	lates the proposed injection	zone. Wellbore scematic is included as Attachn	nent VI-2			
4 30-025-09905	ALEXANDER #001	UPLAND PRODUCTION COMPANY	Active	Oil	il [50350] PENROSE SKELLY, GRAYBURG	
This is a vert	ical oil well that was spud or	5/13/1936, 13-5/8" casing was set at 239' cen	mented with 250 sx, 9-	5/8" casi	asing set to 1319' with 800 sx and 7" casing to 3157' cemented with 235 sx. The	well was
		open hole then plugged back from 3829' to	o 3817' due to a high o	il/gas ra	ratio and shot from 3760' to 3817'. This well never penetrated the San Andres or	Glorieta
5 30-025-33677	DECK ESTATE 7 #001	PENROC OIL CORP	Active	Oil	il [6660] BLINEBRY OIL AND GAS (OIL); [29760] HARDY, TUBB-DRINKARD; [967	705]
					EUNICE, MCKEE, NORTH; [96835] HARE, SAN ANDRES, NORTHWEST	
This is a vertica	l oil well that was spud on 1	2/17/1996, 13-3/8" surface casing was set @43	35' with 455 sx (circula	ted); 8-5	3-5/8" intermediate casing was set to 4000' with 1900 sx (circulated); and 5-1/2" $$	producti
					ed back, the Glorieta and San Andres were perforated and tested on the way out	
					rforated from 5659'-5665' and 6784'-6832' and completed in the Blinebry Oil & G	as and H
the San Andres	& Glorieta formations but t				Wellbore scematic is included as Attachment VI-3	
6 30-025-35486	ROY RIDDEL #003	CHEVRON U S A INC	Active	Oil	[22800] EUMONT, YATES-7 RVRS-QUEEN (OIL); [23000] EUNICE MONUMEN GRAYBURG-SAN ANDRES	IT,
This well was s	pud on 4/11/2001, 8-5/8" su	rface casing was set to 382' with 300 sx and 5-:	1/2" production casing	was set	set to 4000' with 750 sx, both were circulated. The well was perforated in the Gra	yburg fro
					This well produces from the Eunice Monument, Grayburg-"San Andres" Pool but	
	uded as Attachment VI-4					
7 20 025 25622	ROY RIDDEL #004	CHEVRON U.S.A.INC	P&A Not Released	Oil	I [22800] EUMONT, YATES-7 RVRS-QUEEN (OIL)	
					et to 4000' with 875 sx, both were circulated to surface. The well was perforated	from 25
		race casing was set to 408° with 325 sx and 5-1, ndres. The well was P&A on 3/11/2019. A well				110111 331
	DECK ESTATE 12 #001	CONOCOPHILLIPS COMPANY	Cancelled APD		il (29710] HARDY, BLINEBRY; [29760] HARDY, TUBB-DRINKARD	_
This well was n		CONOCOI IIIEEII 3 COIVIFAINI	Cancelled Ar D	Oil	(23/20) TIAND I, BETTE DATI, (23/00) TIAND I, TOOD DATINAND	
THIS WELL WAS IT	CYCI GITTEU.					

Schematic of Wellbore that may Penetrate Injection Zone – Attachment VI-2

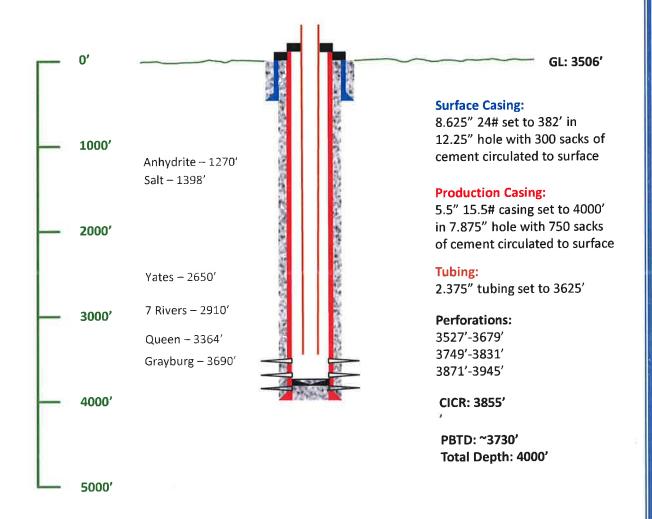
ALEXANDER #001 – API# 30-025- 06429 1980 FNL & 660 FWL, Unit E (Lot 2) of Sec 7-T21S-R37E Lea County, New Mexico





Schematic of Wellbores that may Penetrates Injection Zone – Attachment VI-4

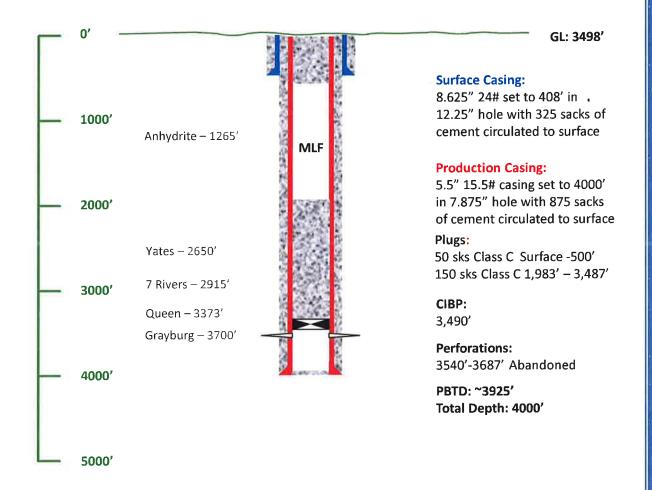
ROY RIDDLE #003— API# 30-025-35486 660 FSL & 660 FEL, Unit P of Sec 12-T21S-R36E Lea County, New Mexico





Schematic of Wellbores that may Penetrate Injection Zone – Attachment VI-5

ROY RIDDLE #004– API# 30-025- 35623 1980 FSL & 660 FEL, Unit I of Sec 12-T21S-R36E Lea County, New Mexico





VII. OPERATIONAL DATA

- (1) PROPOSED AVERAGE & MAXIMUM DAILY RATE: Average Daily Rate ~15,000 bpd/Maximum Daily Rate Limited by MIP (850 psi) only.
- (2) SYSTEM OPEN/CLOSED: System will be closed. Goodnight Midstream Permian, LLC is building a several dozen mile gathering system across multiple townships.
- (3) PROPOSED AVERAGE & MAXIMUM INJECTION PRESSURE: Average Injection Pressure will be ~600 psi. Maximum Injection Pressure will be 850 psi based on the proposed depth to top perf. (0.2 psi/foot X 4251' = 850 psi)
- (4) INJECTION FLUID ANALYSIS: Injection fluid will be produced water from Permian Basin wells including Yates, Seven Rivers, Queen, Grayburg, San Andres, Delaware, Blinebry, Drinkard, Tubb, Bone Spring, Wolfcamp, Strawn, Pennsylvanian, and Morrow. Attachment VII-4.1 details water analysis data from the NM Produced Water Quality Database V.2 of many of these zones from nearby wells in Township 21S, Range 37E. Attachment VII-4.2 details produced water samples from wells in other townships and Attachment VII-4.3 is a recent analysis of typical produced water that is currently being disposed through Goodnight's pipeline/disposal system in this area.
 - COMPATABILITY EOG's RED HAT STATE SWD #1 (API# 30-025-31110) is a similar SWD; San Andres-Glorieta disposal well in Lea County. A total of 2,259,695 barrels have been disposed through this well with no reported problems.
- (5) DISPOSAL ZONE DATA: The most recent sample of San Andres Glorieta formation water was swabbed during the original completion of the neighboring TED 28 SWD #1 located approximately 4.5 miles southwest of the VERLANDER SWD #1 site. The samples were analyzed and the results submitted to the OCD. Those results are included as Attachment VII-5.1
 - See also Section VIII, Appropriate Geologic Data for additional disposal zone information

Produc	ced Water Sam	ples from	Towns	ship 21S, Range 37E - Attachmen	t VII-4.1 (3 pag	ges)		YUKEV.
Well Name	API	Section	Unit		TDS	Chloride	Carbonate	Sulfate
الكورية بالمحادث والمحادث الأنار وبالوادا			70		mg/l	mg/l	mg/l	mg/l
TURNER #020	3002534592	22	Р	ABO	102364	64870	327	2545
EASTBLINEBRY DRINKARD UNIT #026	3002506536	11	G	ABO	203532	140598	246	931
TURNER #020	3002534592	22	Р	ABO	206373	142558	487	1976
ROY BARTON #001	3002506763	23	G	ABO	81045	46135	544	4012
EASTBLINEBRY DRINKARD UNIT #049	3002506582	14	G	ABO	182624			
J G HARE #006	3002506966	33	L	ABO	104072	62570	81	1939
OWEN #001	3002507021	35	Р	ABO		25600		3880
WANTZ FEDERAL#003	3002529688	1	Х	ABO	136800	74600	117	1100
WANTZ FEDERAL#004	3002529728	1	Q	ABO	134300	72600	68	1000
L G WARLICK A #001	3002506664	19	1	ARTESIA	56761	35250	282	1564
EUNICE COM #001	3002506667	19	K	ARTESIA	8324	2751	1004	1757
E 0 CARSON #022	3002506876	28	L	ARTESIA	85857	48380	424	4244
CORDELIA HARDY #002	3002506890	29	D	ARTESIA	10869	4729	2189	329
CORDELIA HARDY #002	3002506890	29	D	ARTESIA	8484	3555	1339	604
CORDELIA HARDY #004	3002506892	29	F	ARTESIA	8251	3300	1338	604
EAST BIINEBRY DRINKARD UNIT #016	3002506526	11	Α	BLINEBRY	172622	116637	204	1402
HUMBLE FEDERAL#001	3002506331	1	Х	BLINEBRY	149754			
WEST BliNEBRY DRINKARD UNIT #041	3002506434	8	- 1	BLINEBRY	163873	102000	493	1560
WEST BliNEBRY DRINKARD UNIT #037	3002506439	9	Р	BLINEBRY	154648	94000	280	2320
EASTBIINEBRY DRINKARD UNIT #047	3002506551	12	J	BLINEBRY	162400	98400	610	1249
EASTBIINEBRY DRINKARD UNIT #054	3002506567	13	В	BLINEBRY	139864			
WEST BIINEBRY DRINKARD UNIT #061	3002506629	16	D	BLINEBRY	156109	97730	772	1041
M E WANTZ #001	3002506706	21	N	BLINEBRY	144900	78550	74	1082
ELLIOTTA #004	3002506719	21	Н	BLINEBRY	112888	68410	796	1499
ELMER CHILL #001	3002506790	26	Р	BLINEBRY	154917	93510	148	1330
MARSHALL B #008	3002506825	27	L	BLINEBRY	94670	56800	340	2500
D HARDY #003	3002506897	29	Н	BLINEBRY	70206	40630	265	2835
V M HENDERSON#003	3002506909	30	Н	BLINEBRY	86101		37.5	
V M HENDERSON#003	3002506909	30	н	BLINEBRY	193811			
MARK OWEN #004	3002507003	34	J	BLINEBRY	159553	97920	856	1530
OWEN #007	3002507028	35	Ī	BLINEBRY	23710	12400	2400	220
STATE C TRACT 13 #005	3002507051	36	Ε	BLINEBRY	86043	53010	464	985
ELMER CHILL #001	3002506790	26	Ρ	BLINEBRY	188764	115958	121	1702
FIELDS#001	3002506553	12	0	BLINEBRY	150574	91350	488	1833
EO CARSON #014	3002506985	33	С	BLINEBRY	124310	78802	280	1120
ELMER CHILL #001	3002506790	26	р	BLINEBRY	173214	106456	291	1223
NORTHEAST DRINKARD UNIT #520	3002534602	10	0	BLINEBRY/TUBB/DRINKARD	30958	16709	688	2708
NORTHEAST DRINKARD UNIT #220	3002506358	2	J	BLINEBRY/TUBB/DRINKARD	33622	18219	475	2940
NORTHEAST DRINKARD UNIT #306	3002506507 3002506459	3 10	R	BLINEBRY/TUBB/DRINKARD BLINEBRY/TUBB/DRINKARD	19094	8981	881	2745 1857
NORTHEAST DRINKARD UNIT #401 NORTHEAST DRINKARD UNIT #204	3002506506	10 3	D L	BLINEBRY/TUBB/DRINKARD	53498 29171	32154 15870	739 1102	1905
NORTHEAST DRINKARD UNIT #619	3002534410	15	A	BLINEBRY/TUBB/DRINKARD	16289	7411	1014	2237
NORTHEAST DRINKARD UNIT #107	3002520315	3	F	BLINEBRY/TUBB/DRINKARD	110630	66400	670	1570
NORTHEAST DRINKARD UNIT #924	3002534595	23	М	BLINEBRY/TUBB/DRINKARD	83002	52796	789	1672
WEST BLINEBRY DRINKARD UNIT #041	3002506434	8	ł	BLINEBRY/TUBB/ DRINKARD	112968	81309	265	887
WEST BLINEBRY DRINKARD UNIT #039	3002506441	9	M	BLINEBRY/TUBB/ DRINKARD	161776	108281	203	1545
WEST BLINEBRY DRINKARD UNIT #037	3002506439	9	р	BLINEBRY/TUBB/ DRINKARD	185366	127549	279	1058
NORTHEAST DRINKARD UNIT #233	3002534431	3	K	BLINEBRY/TUBB/ DRINKARD	77148	46967	451	2786
NORTHEAST DRINKARD UNIT #120	3002506357	2 /	В	BLINEBRY/TUBB/ DRINKARD	65372	38518	333	3662
NORTHEAST DRINKARD UNIT #220	3002506358	2	J	BLINEBRY/TUBB/ DRINKARD	44602	25713	265	2814
NORTHEAST DRINKARD UNIT #311	3002506367	2	T	BLINEBRY/TUBB/ DRINKARD	61709	37295	677 370	2085
NORTHEAST DRINKARD UNIT #213 NORTHEAST DRINKARD UNIT #406	3002506368 3002506451	2 10	D B	BLINEBRY/TUBB/ DRINKARD BLINEBRY/TUBB/ DRINKARD	73938 37392	46169 21216	270 895	1869 2104
NONTHEAST DRINKARD UNIT #400	300230043 I	10	D	DEINEBRI/TUBB/ DRINNARD	3/392	21210	693	2104

NODTHE ACT DOWN ADD LINET #440	0000500450	40		DI INEDDVÆLIDDI DDINIKADD	404505	400055	400	4005
NORTHEAST DRINKARD UNIT #410	3002506453	10	Н	BLINEBRY/TUBB/ DRINKARD	161505	109855	136	1365
NORTHEAST DRINKARD UNIT #217	3002506485	2	K	BLINEBRY/TUBB/DRINKARD	28464	15035	1099	2190
NORTHEAST DRINKARD UNIT #219	3002506486	2	N	BLINEBRY/TUBB/DRINKARD	34651	19115	615	2581
NORTHEAST DRINKARD UNIT #316	3002506487	2	S	BLINEBRY/TUBB/DRINKARD	34607	19025	1131	2269
NORTHEAST DRINKARD UNIT #317	3002506488	2	V	BLINEBRY/TUBB/DRINKARD	52388	31034	647	2130
NORTHEAST DRINKARD UNIT #310	3002506497	3	Х	BLINEBRY/TUBB/DRINKARD	19312	9120	1277	2208
NORTHEAST DRINKARD UNIT #513	3002506533	11	N	BLINEBRY/TUBB/DRINKARD	83385	52667	220	1764
NORTHEAST DRINKARD UNIT #705	3002506602	15	N	BLINEBRY/TUBB/DRINKARD	177936	120760	192	1405
NORTHEAST DRINKARD UNIT #609	3002506610	15	В	BLINEBRY/TUBB/DRINKARD	56067	33596	280	2364
NORTHEASTDRINKARD UNIT #805	3002506736	22	F	BLINEBRY/TUBB/DRINKARD	18427	8868	1312	1821
NORTHEAST DRINKARD UNIT #915	3002506766	23	J	BLINEBRY/TUBB/DRINKARD	163742	110730	298	1189
NORTHEAST DRINKARD UNIT #810	3002506770	23	D	BLINEBRY/TUBB/DRINKARD	23491	12014	722	2381
							464	2202
NORTHEAST DRINKARD UNIT #702	3002509911	15	М	BLINEBRY/TUBB/DRINKARD	35019	19818		
NORTHEAST DRINKARD UNIT #602	3002509914	15	E	BLINEBRY/TUBB/DRINKARD	20364	9863	707	2241
NORTHEAST DRINKARD UNIT #701	3002509916	15	L	BLINEBRY/TUBB/DRINKARD	34550	19443	526	2239
NORTHEAST DRINKARD UNIT #704	3002509917	15	N	BLINEBRY/TUBB/DRINKARD	64379	39321	665	2030
NORTHEAST DRINKARD UNIT #510	3002520218	11	L	BLINEBRY/TUBB/DRINKARD	147901	99247	229	1193
NORTHEAST DRINKARD UNIT #918	3002521349	23	Р	BLINEBRY/TUBB/DRINKARD	167463	113402	246	1307
NORTHEAST DRINKARD UNIT #321	3002506352	2	Х	BLINEBRY/TUBB/DRINKARD	8744	3729	1357	678
NORTHEAST DRINKARD UNIT #120	3002506357	2	В	BLINEBRY/TUBB/DRINKARD	98092	59550	304	612
NORTHEAST DRINKARD UNIT #323	3002506361	2	J	BLINEBRY/TUBB/DRINKARD	173597	107200	90	561
NORTHEAST DRINKARD UNIT #322	3002506372	2	S	BLINEBRY/TUBB/DRINKARD	168128	104100	305	481
NORTHEAST DRINKARD UNIT #203	3002506398	4	Р	BLINEBRY/TUBB/DRINKARD	169600			
NORTHEAST DRINKARD UNIT #106	3002506410	3	С	BLINEBRY/TUBB/DRINKARD	118561	70520	434	2496
NORTHEAST DRINKARD UNIT #511	3002506532	11	М	BLINEBRY/TUBB/DRINKARD	123872	77030	183	1085
NORTHEAST DRINKARD UNIT #514	3002530913	10	L	BLINEBRY/TUBB/DRINKARD	16642	7798	1113	1902
NORTHEAST DRINKARD UNIT #225	3002534249	2	ī	BLINEBRY/TUBB/DRINKARD	31396	17092	550	2590
NORTHEAST DRINKARD UNIT #326	3002534365	3	p.	BLINEBRY/TUBB/DRINKARD	32205	17459	614	2426
NORTHEAST DRINKARD UNIT #327	3002534366	3	J	BLINEBRY/TUBB/DRINKARD			451	2342
		10	В		34403	19343	573	2562
NORTHEAST DRINKARD UNIT #328	3002534367			BLINEBRY/TUBB/DRINKARD	27050	14299		
NORTHEAST DRINKARD UNIT #226	3002534380	3	Q	BLINEBRY/TUBB/DRINKARD	76889	47794	439	2290
NORTHEAST DRINKARD UNIT #330	3002534414	2	U	BLINEBRY/TUBB/DRINKARD	67748	41366	448	2335
NORTHEAST DRINKARD UNIT #126	3002534415	2	E	BLINEBRY/TUBB/DRINKARD	52064	30521	572	2703
NORTHEAST DRINKARD UNIT #227	3002534428	3	J	BLINEBRY/TUBB/DRINKARD	33767	18682	576	2422
NORTHEAST DRINKARD UNIT #329	3002534432	3	W	BLINEBRY/TUBB/DRINKARD	27499	14645	537	2537
NORTHEAST DRINKARD UNIT #414	3002534435	10	J	BLINEBRY/TUBB/DRINKARD	91968	58277	313	2158
NORTHEAST DRINKARD UNIT #412	3002534490	10	В	BLINEBRY/TUBB/DRINKARD	30501	16825	438	2371
NORTHEAST DRINKARD UNIT #223	3002506355	2	Р	BLINEBRY/TUBB/DRINKARD	77777	47830	360	2563
NORTHEAST DRINKARD UNIT #223	3002506355	2	Р	BLINEBRY/TUBB/DRINKARD	62724	37894	293	2433
NORTHEAST DRINKARD UNIT #106	3002506410	3	С	BLINEBRY/TUBB/DRINKARD	152012	100384	174	2136
NORTHEAST DRINKARD UNIT #401	3002506459	10	D	BLINEBRY/TUBB/DRINKARD	72664	43349	467	1910
NORTHEAST DRINKARD UNIT #204	3002506506	3	L	BLINEBRY/TUBB/DRINKARD	30555	16047	1148	2567
NORTHEAST DRINKARD UNIT #207	3002506519	3	14	BLINEBRY/TUBB/DRINKARD	72037	44303	936	1812
NORTHEAST DRINKARD UNIT #207	3002506519	3	14	BLINEBRY/TUBB/DRINKARD	84881	52777	270	2670
NORTHEAST DRINKARD UNIT #107	3002520315	3	F	BLINEBRY/TUBB/DRINKARD	37908	20521	1017	2960
NORTHEAST DRINKARD UNIT #124	3002534424	3	K	BLINEBRY/TUBB/DRINKARD	62611	37355	445	2837
NORTHEAST DRINKARD UNIT #125		3	J	BLINEBRY/TUBB/DRINKARD				
	3002534425			BLINEBRY/TUBB/DRINKARD	109980	70101	183	2481
NORTHEAST DRINKARD UNIT #228	3002534427	3	J		67571	40921	268	2754
NORTHEAST DRINKARD UNIT #306	3002506507	3	R	BLINEBRY/TUBB/DRINKARD	20617	9962	1017	2455
NORTHEAST DRINKARD UNIT #614	3002506579	14	D	BLINEBRY/TUBB/DRINKARD	68924	41546	1023	2184
NORTHEAST DRINKARD UNIT #617	3002506580	14	F	BLINEBRY/TUBB/DRINKARD	189339	129128	179	1244
A T TURNER #009	3002506751	22	K	ELLENBURGER	94230	52400	540	5700
EO CARSON #016	3002506987	33	D	FUSSELMAN	100876	59330	878	2929
V M HENDERSON #002	3002506908	30	Α	GLORIETA	138153	81610	744	2735
ARGO #007	3002509915	15	L	GRAYBURG	123777			
HAWK FEDERAL B 1 #012	3002506435	8	0	GRAYBURG	18553	11206	252	103
WEST BLINEBRYDRINKARD UNIT #043	3002526601	8	Ν	GRAYBURG	13256	7329	180	738
LOCKHART B 11 #003	3002506525	11	Ε	GRAYBURG	85125	53772	199	1831
TURNER #004	3002506746	22	М	GRAYBURG	95429	59121	861	3066

	2271
HARRY LEONARD NCT E #005 3002506624 16 H GRAYBURG 198705	
7,100 7,1007	1829
711.00 71.1100	1602
	1325
H T MATTERN NCT C #001 3002506657 18 I GRAYBURG 23006 10150 2040	2517
LG WARLICK B #001 3002506665 19 H GRAYBURG 134673 79530 791	3055
EUNICE KING #001 3002506837 28 E GRAYBURG 16028 6881 3007	479
EUNICE KING #003 3002506839 28 F GRAYBURG 14405 6347 1614	959
V M HENDERSON #001 3002506907 30 H GRAYBURG 12182 3794 2785	1574
ARGO #007 3002509915 15 L GRAYBURG 123162 75000 153	1138
W W WEATHERLY #001 3002506644 17 K GRAYBURG 11484 4241 2880	466
TEXACO #001 3002535373 3 T GRAYBURG 54027 26650 330	1770
W W WEATHERLY #001 3002506644 17 K GRAYBURG 14238 4702 4037	716
WEST BLINEBRY DRINKARD UNIT #072 3002506645 17 J GRAYBURG 15453 7280 1958	630
H STURNER #002 3002506884 29 M GRAYBURG 15574 7136 2488	395
C L HARDY #004 3002506705 20 M PADDOCK 132840 78800 790	2500
J N CARSON NCT C #009 3002506836 28 I PADDOCK 91426 51970 309	4579
C L HARDY #002 3002506685 20 N PADDOCK 72800 800	3700
V M HENDERSON #005 3002506911 30 B PENROSE 13143 3996 2926	1826
EUNICE KING #024 3002506864 28 E SAN ANDRES 97871 57350 223	3405
EUNICE KING #024 3002506864 28 E SAN ANDRES 57304 31970 618	3301
HAWK B 10 #005 3002506455 10 B SIMPSON 169290 115417 256	18
HARRY LEONARD NCT F #015 3002506359 2 G SIMPSON 168218 103100 28	1120
LOCKHART B 12 #005 3002506540 12 E SIMPSON 13070 6841 150	241
EUNICE KING #007 3002506843 28 G SIMPSON 75060 42400 410	4150
NORTHEAST DRINKARD UNIT #723 3002506605 15 M SIMPSON 118800 73000 122	1004
NORTHEAST DRINKARD UNIT #723 3002506605 15 M SIMPSON 124500 76050 336	1140
AM YORK #002 3002509924 20 A TUBB 158624	
WEST BLINEBRY DRINKARD UNIT #032 3002506437 9 F TUBB 195187 118000 158	3250
WEST BLINEBRY DRINKARD UNIT #037 3002506439 9 P TUBB 195890 118000 390	2750
WEST BLINEBRY DRINKARD UNIT #006 3002506443 9 B TUBB 131370 81170 143	275
NEW MEXICO V STATE #007 3002506469 10 N TUBB 174558 107000 488	1270
LG WARLICK A #001 3002506664 19 I TUBB 163230 105700 189	801
NANCY STEPHENS #001 3002506774 24 D TUBB 188423 115300 622	1301
WEST BLINEBRY DRINKARD UNIT #073 3002506646 17 G TUBB 158923 97412 122	1261
WEST BLINEBRY DRINKARD UNIT #073 3002506646 17 G TUBB 9666 4300 1693	160
AM YORK #002 3002509924 20 A TUBB 198080 119774 252	3350
C L HARDY #002 3002506685 26 K TUBB 184903 114000 610	700
STATE C TR 13 #008 3002507050 36 D YESO 144570 90010 779	420

	Other Produced Water Samples - Attachment VII-4.2											
API	Section	Township	Range	Formation	TDS	Chloride	Bicarbonate	Sulfate				
	P. Commission				mg/l	mg/l	mg/l	mg/l				
30-025-02424	11	20S	34E	BONE SPRING	29436	16720	634	1142				
30-025-02427	12	20S	34E	BONE SPRING	15429							
30-025-02427	12	205	34E	BONE SPRING	180701	108300	1016	670				
30-025-02429	12	20S	34E	BONE SPRING	202606	118100	5196	992				
30-025-02429	12	20S	34E	BONE SPRING	121800							
30-025-02431	12	20S	34E	BONE SPRING	147229	89640	108	1038				
30-025-31696	2	20S	34E	DELAWARE	152064	102148	404	691				
30-025-32105	2	20S	34E	DELAWARE	296822	215237	143	294				
30-025-32466	2	20S	34E	DELAWARE	340838	245270	229	147				
30-025-02427	12	20S	34E	DELAWARE	214787	132700	208	1816				
30-025-02431	12	20S	34E	DEVONIAN	33414	18570	227	1961				
30-025-02432	13	20S	34E	DEVONIAN	45778	26440	1145	729				
30-025-01912	16	16S	34E	WOLFCAMP	164004	102500	4204	1249				
30-025-01922	20	16 S	34E	WOLFCAMP	104541	64290	280	541				
30-025-01922	20	16S	34E	WOLFCAMP	104033	64080	268	515				
30-025-01922	20	16S	34E	WOLFCAMP	105175	65570	207	192				
30-025-01925	21	16S	34E	WOLFCAMP	86355	51800	610	665				
30-025-01928	21	16S	34E	WOLFCAMP	119102	73300	227	454				
30-025-01928	21	16S	34E	WOLFCAMP	35422	19170	979	1949				
30-025-01930	22	16S	34E	WOLFCAMP	30015	14800	750	3300				
30-025-01931	22	16S	34E	WOLFCAMP	87680	53000	301	681				
30-025-01933	28	16 S	34E	WOLFCAMP	59960	35100	515	1500				
30-025-01933	28	16S	34E	WOLFCAMP	60309	35350	586	1297				
30-025-01940	30	16 S	34E	WOLFCAMP	82422	49890	361	787				
30-025-01944	30	16 S	34E	WOLFCAMP	83960	51410	418	641				
30-025-20222	27	16 S	34E	WOLFCAMP	85457	51020	544	1201				
30-015-42895	2	235	31E	WOLFCAMP	119472	73173		1036				



Fenway Produced Water Analysis— Attachment VII-4.3 Page 1 of 2

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

FENWAY 11900304-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborate	ories					
Inorganic Compounds										
Alkalinity, Blearbonate	1630		5.00	mg/L	t.	9012407	AC	30-Jan-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	4	9012407	AC	30-Jan-19	310.1	
Chloride*	73000		4.00	mg/L	13	9012811	AC.	31-Jan-19	4500-CI-B	
Conductivity*	146000		1.00	aS/em	0	9013002	AC	30-Jan-19	120:1	
pH*	7.25		0.100	pH Units	1	9013002	AC	30-Jan-19	150.1	
Resistivity	0.0684			Ohms/m	10	9013002	АC	30-Jan-19	120.1	
Specific Gravity (a 60° F	1.076		0.000	[blank]	0	9013007	AC	30-Jan-19	SM 2710F	
Sulfate*	1810		250	mg/L	25	9013006	AC.	30-Jan-19	375.4	
TDS*	107000		5.00	mg/L	10	9012801	AC	31-Jan-19	160,1	
Alkalinity, Total*	1340		4,00	mg/L	E.	9012407	AC	30-Jan-19	310.1	
		•	Green Ana	lytical Labo	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Barium*	<10.0		10.0	mg/l	200	B901226	AES	04-Feb-19	EPA200.7	
Calcium*	1730		20.0	mg/L	200	B901226	AES	04-Feb-19	LPA200.7	
Iron*	10.2		10.0	mg/L	200	H901226	AES	()4-Feb-19	EPA200.7	
Magnesium*	271		20.0	mg/L	200	B901226	AES	04-Feb-19	EPA200.7	
Potassium*	1100		200	mg/L	200	B901226	AES	04-Feb-19	EPA200,7	
Sodium*	48600		200	mg L	200	B901226	AES	04-Feb-19	EPA200.7	

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*=Accredited Analyte

PLEASE HOTE. Liability and Demages. Cardinals labelity and coernic acclusive remain for any claim arising, wherein beard in contract or 101, shall be limited to the arrivant paid by claim for employers we any other caves shallower that be deemed wherein where caves made in metang and reported by Cardinal willers (10) days after correlation of the appreciate service. In the product of the extension of the contract of the contra

Calley Thomas

Fenway Produced Water Analysis— Attachment VII-4.3 Page 2 of 2

CARDINAL LABORATORIES SCALE INDEX WATER ANALYSIS REPORT

Company : GOODNIGHT MIDSTREAM

Date Sampled: 01/28/19

Lease Name :

LAB # H900304-03

Company Rep. : RALPH TIJERINA

Well Number : FENWAY Location : 32.456025 -103.274594

Δ	N	Δ	١ ١	YS	ıs
- 14	14	m		ıo	ıJ

	ATALIOTO									
1.	pH	7.25								
2.	. Specific Gravity @ 60/60 F.	1.0760								
3.	. CaCO3 Saturation Index @ 80 F.	+1.103	1	'Calcium Carbonate Scale Possible'						
	@ 140 F.	+2.013	'	Calcium C	arb	onate Scale	e Possible'			
	Dissolved Gasses									
4.	Hydrogen Sulfide	ND	- 1	PPM						
5.	Carbon Dioxide	ND	- 1	PPM						
6.	Dissolved Oxygen	ND	- 1	PPM						
	Cations		1	Eq. Wt.	=	MEQ/L	2			
7.	Calcium (Ca++)	1,730.00	1	20.1	=	86.07				
8.	Magnesium (Mg++)	271.00	1	12.2	=	22.21				
9.	Sodium (Na+)	48,600	1	23.0	=	2,011.82				
10.	Barium (Ba++)	0.000	1	68.7	=	0.00	l			
	Anions						_			
11.	Hydroxyi (OH-)	0	1	17.0	=	0.00				
12.	Carbonate (CO3=)	0	1	30.0	=	0.00	ı			
13.	Bicarbonate (HCO3-)	1,630	1	61.1	=	26.68				
14.	Sulfate (SO4=)	1,810	1	48.8	=	37.09	ı			
	Chloride (CI-)	73,000	1	35.5	=	2,056.34				
	Other						-			
16.	Total Iron (Fe)	10.200	1	18.2	=	0.56	-			
17.	Total Dissolved Solids	107,000								
18.	Total Hardness As CaCO3	5,436.0								
19.	Calcium Sulfate Solubility @ 90 F.	5,879								
20.	Resistivity (Measured)	0.068	(Ohm/Mete	ΓS	@ 77	Degrees (F)			
						-				

Logarithmic Water Pattern

PROBABLE MINERAL COMPOSITION

PROBABLE MINERAL COMPOSITION											
COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L						
Ca(HCO3)2	81.04	X	26.68	=	2,162						
CaSO4	68.07	X	37.09	느	2,525						
CaCl2	55.50	X	22.30	=	1,238						
Mg(HCO3)2	73.17	X	0.00	=	0						
MgSO4	60.19	X	0.00	=	0						
MgCl2	47.62	Χ	22.21	=	1,058						
NaHCO3	84.00	X	0.00	=	0						
NaSO4	71.03	X	0.00	=	0						
NaCl	58.46	Χ	2,011.82	Ξ	117,611						

ND = Not Determined

Swabbed Formation Water Analyses - Attachment VII-5.1 Page 1 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

Project: TED WILLIAMS SWD #1

Reported:

703 East Clinton

Project Number: CAM - 18-001

21-Sep-18 08:43

Project Manager: Bob Allen Hobbs NM, 88240

Fax To: (575) 393-4388

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LOWER ZONE # 1 SWAB	H802574-01	Water	10-Sep-18 08:50	11-Sep-18 16:43
LOWER ZONE # 2 SWAB	H802574-02	Water	10-Sep-18 09:05	11-Sep-18 16:43
LOWER ZONE # 3 SWAB	H802574-03	Water	10-Sep-18 09:25	11-Sep-18 16:43
LOWER ZONE # 4 SWAB	H802574-04	Water	10-Sep-18 09:40	11-Sep-18 16:43
UPPER ZONE # 1 SWAB	H802574-05	Water	10-Sep-18 12:15	11-Sep-18 16:43
UPPER ZONE # 2 SWAB	H802574-06	Water	10-Sep-18 12:29	11-Sep-18 16:43
UPPER ZONE # 3 SWAB	H802574-07	Water	10-Sep-18 12:42	11-Sep-18 16:43
UPPER ZONE # 4 SWAB	H802574-08	Water	10-Sep-18 12:55	11-Sep-18 16:43

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Swabbed Formation Water Analyses— Attachment VII-5.1 Page 2 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: TED WILLIAMS SWD #1

Project Number: CAM - 18-001

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported:

21-Sep-18 08:43

LOWER ZONE #1 SWAB 11802574-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analysi	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride*	5300		4 00	mg/L	21	8090703	AC	14-Sep-18	4500-CI-B	
TDS*	9400		5.00	mg/L	9	8090710	AC	13-Sep-18	160.1	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	0.067		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Toluene*	0.010		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	0.001		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Total Xylenes*	0.005		0.003	mg/L	1	8091213	MS	13-Sep-18	8021B	
Total BTEX	0.083		0 006	mg/L	j.	8091213	MS	13-Sep-18	8021B	11
Surrogate 4-Bromofluorobenzene (PH))			95.4 %	813	-128	8091213	MS	13-Sep-18	8021B	

Cardinal Laboratories

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PLEASE NOTE: Liabelty and Demages. Cardinal's hability and clerits exchange remove for any dam arising, whether based in contract or tors, shall be sinced to the amount part by cleric for analyses. All claims, including those for nephoperic arising comprison of the approximate service. In no event shall claims and contract the contract of the services in the servi

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Swabbed Formation Water Analyses— Attachment VII-5.1 Page 3 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: TED WILLIAMS SWD #1

Project Number: CAM - 18-001 Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported:

21-Sep-18 08:43

LOWER ZONE #2 SWAB 11802574-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analy zed	Method	Notes
			Cardin	al Labora	ories					
Inorganic Compounds										
Chloride*	13300		4 00	mg/I	ı	8090703	АC	14-Sep-18	4500-CI-B	
TDS*	19800		5.00	mg/L	17.	8090710	AC	13-Sep-18	160 1	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	0.013		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Toluene*	0.003		100.0	mg/1.	-1	8091213	MS	13-Sep-18	8021FI	
Ethylbenzene*	< 0.001		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Total Xylenes*	< 0.003		0.003	mg/l.	1	8091213	MS	13-Sep-18	802113	
Total BTEX	0.016		0.006	mg/L	1	8091213	MS	13-Sep-18	8021B	
Surrogate, 4-Bromofluorobenzene (PH))			94.3 %	81.3	-128	8091213	MS	13-Sep-18	80218	

Cardinal Laboratories

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Swabbed Formation Water Analyses— Attachment VII-5.1 Page 4 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: TED WILLIAMS SWD #1

Project Number: CAM - 18-001

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported:

21-Sep-18 08:43

LOWER ZONE #3 SWAB #1802574-03 (Water)

Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Baich	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds										
Chloride*	8800		4 00	mg∕l.	,	8090703	AC	14-Sep-18	4500-CI-B	
TDS*	14200		5.00	mg/L	1	8090710	AC	13-Sep-18	160.1	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	0.045		0.001	mg/L	.1	8091213	MS	13-Sep-18	8021B	
Toluene*	0.007		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	<0.001		0.001	mg/L	1	8091213	MS	13-Sep-18	80218	
Total Xylenes*	< 0.003		0.003	mg/L	1	8091213	MS	13-Sep-18	8021H	
Total BTEX	0.052		0.006	mg/L	1	8091213	MS	13-Sep-18	8021B	
Surrogate 1-Bromofluorobenzene (PID)			93 1 %	81.3	-128	X091213	MS	13-Sep-18	8021B	

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PLEASE NOTE: Usbally and Camages. Cardwalls labelity and cleart's exclusive remedy for any dawn prising, whether based in contract or ton's, shall be lainted to the emount paid by clear for analysis. All clears, including these for negligence as any other course whether paid by clears with a clear and the shall be the incommal or consequential durange which is shall be interested in the performance of the applicable service. In no event shall Customs the labels for incommal or consequential durange which is mission, business interruptions, loss of lads, or loss of potes incurred by Clears, indicated an analysis of the analysis of

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Swabbed Formation Water Analyses – Attachment VII-5.1 Page 5 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: TED WILLIAMS SWD #1

Project Number: CAM - 18-001 Project Manager: Bob Alien

Fax To: (575) 393-4388

Reported:

21-Sep-18 08:43

LOWER ZONE #4 SWAB H802574-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al I.abora	tories					
Inorganic Compounds										
Chloride*	23700		4 00	mg/l.	1	8090703	ΛC	14-Sep-18	4500-C1-FI	
TDS*	40100		5.00	mg4.	<u>£</u>	8090710	AC	13-Sep-18	160,1	
Volatile Organic Compounds by F	PA Method	8021								
Benzene*	2.78		0.050	mg/L	50	8091213	MS	13-Sep-18	8021B	
Toluene*	0.223		0.050	mg/1.	50	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/l	50	8091213	MS	13-Sep-18	8021B	
Total Xylenes*	<0.150		0.150	mg/L	50	8091213	MS	13-Sep-18	8021B	
Total BTEX	3.00		0.300	mg/l.	50	8091213	MS	13-Sep-18	8021B	
Surrogate 4-Bromofluorohenzene (PH)			96 2 %	81.3	-128	8091213	MS	13-Sep-18	NO21H	

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Swabbed Formation Water Analyses – Attachment VII-5.1 Page 6 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

Project: TED WILLIAMS SWD #1

Reported:

703 East Clinton

Hobbs NM, 88240

Project Number: CAM - 18-001 Project Manager: Bob Allen

21-Sep-18 08:43

Fax To: (575) 393-4388

UPPER ZONE #1SWAB

H802574-05 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Labora	tories					
Inorganic Compounds										
Chloride*	48500		4 00	mg/L	1	8090703	AC	14-Sep-18	4500-C1-B	
TDS*	80100		5 00	mg/L	E	8090710	AC	13-Sep-18	160 1	
Volatile Organic Compos	nds by EPA Method	8021								
Benzene*	0.380		0.010	mg/l.	10	8091213	MS	13-Sep-18	8021B	
Toluene*	0.045		0.010	mg/L	10	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	< 0.010		0.010	mg/l	10	8091213	MS	13-Sep-18	8021B	
Total Xylenes*	< 0.030		0.030	mg/L	10	8091213	MS	13-Sep-18	8021B	
Total BTEX	0,425		0 060	mg∕l.	to	8091213	MS	13-Sep-18	8021B	
Surrogate 4-Bromofluorobenzen	· (PID)		98.7%	81.3	-128	8091213	MS	13-Sep-18	80218	

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Swabbed Formation Water Analyses - Attachment VII-5.1 Page 7 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

Project: TED WILLIAMS SWD #1

Reported:

703 East Clinton

Project Number: CAM - 18-001

21-Sep-18 08:43

Hobbs NM, 88240

Project Manager: Bob Allen

Fax To: (575) 393-4388

UPPER ZONE #2 SWAB H802574-06 (Water)

Analyte	Result	MDI.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	torics					
Inorganic Compounds										
Chloride*	49500		4.00	ing/L	1	8090703	AC	14-Sep-18	4500-CI-B	
TDS*	81500		5.00	mg/l.	1	8090710	VC.	13-Sep-18	160 1	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	0.085	-51000	0 001	ıng/L	ř.	8091213	MS	13-Sep-18	8021B	
Toluene*	0.014		0.001	mg/L	1	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	< 0.001		0.001	mg/1.	10	8091213	MS	13-Sep-18	80218	
Total Xylenes*	0.004		0.003	mg/L	1	8091213	MS	13-Sep-18	8021B	
Total BTEX	0.103		0.006	mg/l	1.	8091213	MS	13-Sep-18	8021B	
Surrogate: 4 Bromofluorohenzene (PID)			86.3 %	813	-128	8091213	MS	13-Sep-18	802113	

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REASE NOTE: Lubbley and Damages. Cardina's labely and client's exclusive running for any client ansing, wherein based in committed or ton, shall be annual to the annual paid by client for entryton. All clients, including trocks for negativence along committees which while deemed viewed unless ander in virting and received by Cerdinal within thirty (30) days after completion of the applicable tennics. In no away shall be deemed viewed unless ander in virting and received by Cerdinal within thirty (30) days after completion of the applicable tennics. In no away shall be deemed unless and current shall current by Cerdinal within thirty (30) days after completion of the applicable tennics. In no away shall be deemed unless and current shall be deemed unless any shall be deemed unless and current shall be deemed unless any s

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Swabbed Formation Water Analyses – Attachment VII-5.1 Page 8 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: TED WILLIAMS SWD #1

Project Number: CAM - 18-001

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported:

21-Sep-18 08:43

UPPER ZONE #3 SWAB 11802574-07 (Water)

Analyte	Result	MDI.	Reporting Limit	Units	Dilution	Batch	Analysi	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride*	21200		4.00	mg/I,	1	8090703	AC	14-Sep-18	4500-CI-B	
TDS*	40400		5 00	mg/l∑	1	8090710	AC	13-Sep-18	160.1	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	4.33		0.050	mg/L	50	8091213	MS	13-Sep-18	8021B	
Toluene*	0.551		0.050	mg/L	50	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/L	50	8091213	MS	13-Sep-18	8021B	
Iotal Xylenes*	0.289		0.150	mg/L	50	8091213	MS	13-Sep-18	8021B	
Total BTEX	5.17		0.300	mg/L	50	8091213	MS	13-Sep-18	8021B	
Surrogate 4-Bromofluorobenzene (PID)			95 1%	81.3	-128	8091213	MS	13-Sep-18	8021B	

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PLEASE NOTE: Liability and Demagles. Condess's Nobilety and objects auditable relimed for any claim ensuing, whether based in contract or toxit, shall be inneed to the amount paid by clein for analyses. As claims, including those for need grant analysis of the application of the

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Swabbed Formation Water Analyses - Attachment VII-5.1 Page 9 of 9



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions

Project: TED WILLIAMS SWD #1

Reported:

703 East Clinton

Project Number: CAM - 18-001 Project Manager: Bob Allen

21-Sep-18 08:43

Hobbs NM, 88240

Fax To: (575) 393-4388

UPPER ZONE #4 SWAB H802574-08 (Water)

Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Labora	tories					
Inorganic Compounds										
Chloride*	9800		4.00	mg/L	1	8090703	AC	14-Scp-18	4500-CI-B	
TDS*	16400		5.00	mg/L	1	8091202	AC	13-Sep-18	160 1	
Volatile Organic Compounds h	y EPA Method	8021								
Benzene*	6.20		0 100	mg4L	100	8091213	MS	13-Sep-18	8021B	
Toluene*	0.664		0.100	mg/L	100	8091213	MS	13-Sep-18	8021B	
Ethylbenzene*	< 0 100		0.100	mg/l.	100	8091213	MS	13-Sep-18	8021B	
Total Xylenes*	<0.300		0 300	mg/1_	100	8091213	MS	13-Sep-18	8021B	
Total BTEX	6.86		0 600	mg/L	100	8091213	MS	13-Sep-18	8021B	
Surrogate: 1-Brimofluorobenzene (PH))			94.7 %	81.3	-128	8091213	MS	13-Sep-18	8021B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Listabley and Damages. Cardinatis babaley and claim's exchance rumsday for any claim arrang, wherever based in contract or tord, shall be aircract paid by claim for analyses. At claims, including those for negligence a any other cases whitesomer shall be deemed whind unless made in writing and received by Cerdinal nation literity (ID) claim, after completion of the applicables service. In no event shall Cardinal be lasted for inclaimed or connequental damage including, without Institution, beaness interruptions, loss of use, or large of the services by Cerdinal, regardless of whether so claims in based upon any of the allows assess relate only to the services described above. This report shall not be reproduced except in full write written approximal Cardinal Liberatories.

College Z. Kannen

*VIII.APPROPRIATE GEOLOGIC DATA: The red beds are the nearest underground source of drinking water above the proposed disposal interval. They are reportedly 1,265' deep in the ROY RIDDEL #4 well (API# 30-025-35623) that is approximately 1,050' southeast of the VERLANDER SWD #1. There is approximately 2,760' of vertical separation and more than a thousand feet of anhydrite and salt between the bottom of the only likely underground water source (red beds) and the top of the San Andres.

Attachment VIII-1 is a NM State Engineer report that details the nearest recorded freshwater well, CP-00986-POD1 to be approximately one mile northeast and an additional ten wells within two miles. The deepest well is 340'. No underground sources of drinking water are below the proposed disposal interval and the Ogallala aquifer is approximately 3 miles north of this proposed well as detailed in Attachment VIII-2

Estimated formation tops at the proposed VERLANDER SWD 1 location are as follows:

Anhydrite — 1255'

Salt — 1765'

Yates — 2655'

Seven Rivers — 2920'

Queen — 3420'

Grayburg = 3705'

San Andres = 4015'

Glorieta = 5220'

Paddock = 5555'

Geologic Discussion of formations Grayburg through Blinebry; reservoirs and permeability barriers.

Reference wells: 30 025 35853 Lot D section 7 and 30 025 33677 Lot L section 7.

At these locations (the Verlander SWD will be between them but offset to the west) the Grayburg is part of the barrier that will prevent water from reaching the hydrocarbon producing zones above. The upper Grayburg is tight rock consisting of anhydrite and low porosity dolomite. The porosity is less than 5% averaging 2-3%. This interval is 150 feet thick in the 35853 well and 220 feet thick in the 33677 well.

Below the tight upper Grayburg is an interval with mostly anhydrite-low porosity dolomite with thin shale and siltstone interbeds. These do have some fluid storage capacity 6-9% porosity but are low permeability. When they are hydrocarbon charged, they can be stratigraphic traps for oil below the regional oil water contact of the Eunice Monument South Unit (EMSU). There are no hydrocarbon charged stratigraphic traps in the area. This interval is 150 feet thick and has tested salt water at this elevation. The combined 300 feet of thickness will act as part of the permeability barrier.

In addition, the top 100 feet of the San Andres is dominantly anhydrite. This is a very good barrier. The San Andres barrier is 100 feet thick in both the 35853 and the 33677 wells. The Verlander location is expected to be similar in thickness.

The San Andres injection interval, 4251 feet to 5200 feet MD will be alternating layers of porous dolomite and limestone. The dolomite ranges from 8% porosity up to 15% with excellent fluid transmissivity properties in the top, to porous dolomite and limestone with porosities from 3% to 8% in the bottom. The disposal reservoir will have a net thickness of 280 feet out of a gross thickness of 950.

NOTE: The well history of the 33677 well shows the operator requested an oil pool designation for the San Andres. This was done in June of 1998. The zone was tested and no oil was produced. The well was plugged back in July of 1998; San Andres was abandoned. The cumulative oil sold under that pool was zero (0). The well still has the "San Andres oil pool" designation in the OCD files, although it never sold any oil.

The basal San Andres lithologic unit is an 80 to 100 foot limestone interval with very low porosity, 1% - 3%. This interval is the barrier between the Glorieta and San Andres reservoirs.

The Glorieta in the 35853 is 340 feet of thin-bedded dolomitic siltstones and silty to sandy dolomites. Porosities are good, ranging from 5% to 11%. Thicknesses and rock properties are the same in the 33677 well. This will be a good reservoir for the disposal of fluid; very large area and thickness.

The interval below the Glorieta is the Paddock; Paddock in name. The lithology that produces oil in other wells is not present at this location. The rock type is similar to the Glorieta above, interbedded shales and dolomitic siltstones. In effect it is more Glorieta although operators in the area call the "Paddock" top at this depth.

Below the Paddock is the Blinebry interval. The Blinebry is 750' of tight dolomite in both wells. This is an excellent, exceptionally thick barrier to flow.

A cross-section detailing appropriate geologic data of the confining zones and the San Andres – Glorieta injection zone is included as Attachment VIII-3. It describes lithologic detail, geologic name, thickness and depth.

NMOSE Reported Freshwater Well Data- Attachment VIII-1

VERLANDER SWD #001 - API# 30-025-XXXXX 2482' FNL & 1277' FEL, Unit H of Sec 21-T21S-R36E Lea County, New Mexico



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q									Water
POD Number (Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pth Well Dep	othWater	Column
CP 00986 POD1		СР	LE	4	3	4	06	218	37E	669110	3597437	1612	154	1-Mile	
CP 00685 POD1		CP	LE	2	3	4	11	215	36E	666038	3595997*	1801	220		
<u>CP 00877</u>		CP	LE				06	21 S	37E	668920	3598153*	1961	150	73	77
CP 00446 POD1		CP	LE	1	4	4	13	218	36E	667871	3594424*	2165	185	148	37
CP 00446 POD2		CP	LE	1	4	4	13	218	36E	667871	3594424*	2165	200	151	49
CP 01245 POD1		CP	LE			4	18	21S	37E	668676	3594411	2367	220		
CP 01026 POD1		CP	LE	1	1	3	17	21S	37E	669809	3594958	2631	167	95	72
CP 00447 POD1		CP	LE	2	4	4	18	21 S	37E	669647	3594451*	2862	95		
<u>CP 00448 POD1</u>		CP	LE	2	4	4	18	21 S	37E	669647	3594451*	2862	100		
<u>CP 00676</u>		CP	LE		4	4	18	21 S	37E	669548	3594352*	2873	140	106	34
<u>CP 00690</u>		CP	LE		4	4	03	21S	36E	664706	3597487*	3165	340		

Average Depth to Water:

114 feet

Minimum Depth:

73 feet

Maximum Depth:

151 feet

Record Count: 11

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 667740.866

Northing (Y): 3596585.949

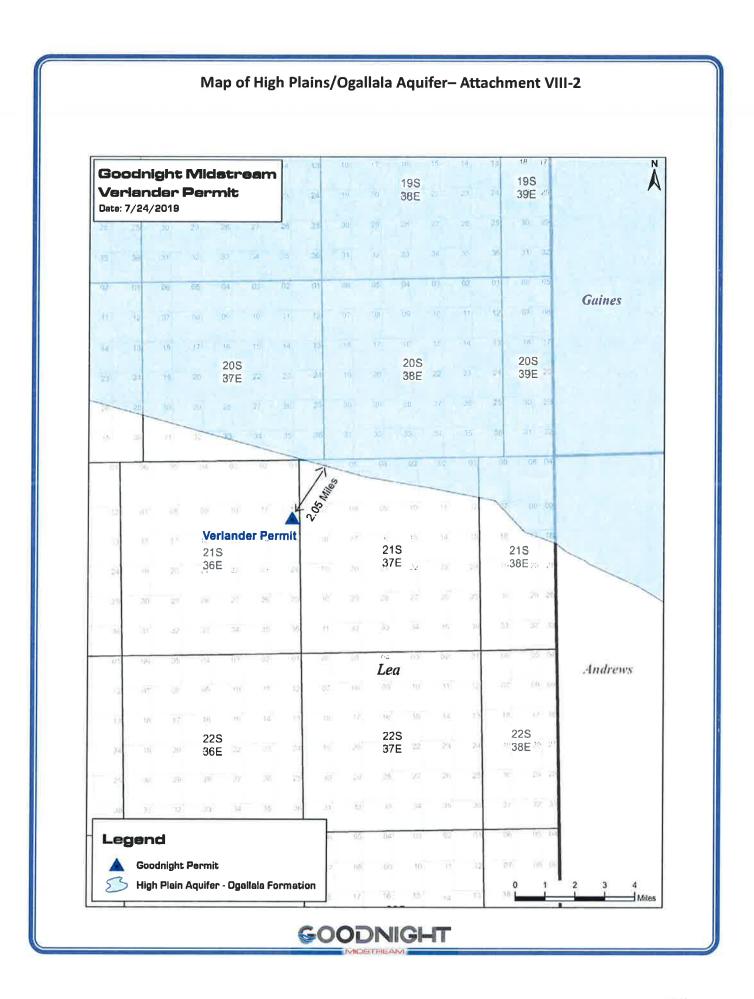
Radius: 3220

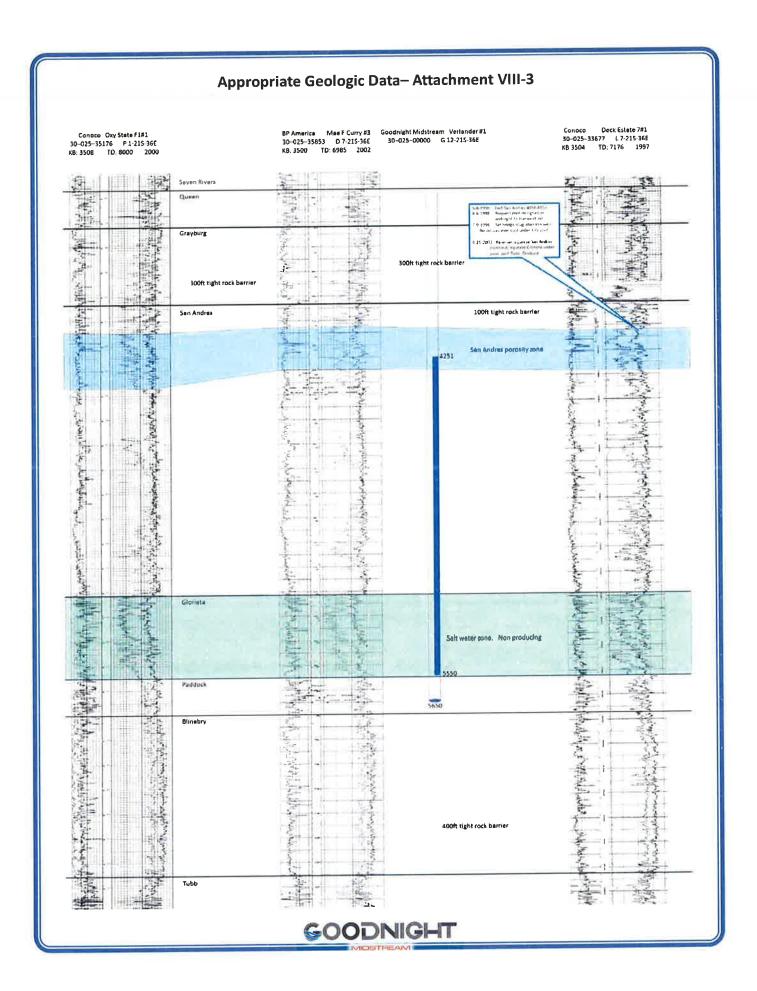
*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/1/19 3:34 PM

WATER COLUMN/ AVERAGE DEPTH TO





- IX. STIMULATION PROGRAM: A conventional acid job may be performed on the proposed San Andres/Glorieta perforated interval from 4,251′ 5,550′ to clean and open the formation.
- *X. LOGGING & TEST DATA: Cement Bond, Gamma-Ray/CCL, and Composite Logs will be submitted to the OCD after completion of this well and prior to first injection.
- *XI. FRESHWATER ANALYSES: Three freshwater wells were found within one mile of the proposed VERLANDER SWD #1 and sampled on March 19, 2019. The Dasco Land Corp well seems to correlate to CP-00685-POD1 found on the NM State Engineer report but the location was found to be approximately 1,000' east of the state's documented location. The other two freshwater wells, the Robert McCasland and Sample #2, are not found on the NM State Engineer report. Analyses of these three wells are included as Attachments XI-1, XI-2 and XI-3 while Attachment XI-4 details their locations.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington NM, 88260

Project: VERLANDER SWD #1

Project Number: #10433

Project Manager: LANCE CRENSHAW

Fax To: (575) 396-1429

Reported:

29-Mar-19 17:07

DASCO LAND CORP. 32.48821-103.2297

11001040 41	4662 4 4
11901049-01	(Water)

Analyte	Result	MDI	Reporting Limit	Units	Dilution	Hatch	Analyst	Analyzed	Method	Note
			Cardin	al Laborate	ortes					
Inorganic Compounds										
Alkalinity, Bicarbonate	288		5.00	mg/l	1	9031804	AC'	20-Mar-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	l.	9031804	AC	20-Mar-19	310.1	
Chloride*	96.0		4.00	mg/L	1	9031903	۸C	20-Mar-19	4500-C1-B	
Conductivity*	716		1,00	uS/cm	1	9031901	AC	19-Mar-19	120.1	
pH⁴	8.97		0.100	pH Units	1	9031901	۸C	19-Mar-19	150.1	
Specific Gravity (a) 60° F	1.000		0.000	[blank]	1	9032010	AC	20-Mar-19	SM 2710F	
Sulfate*	87.3		25.0	mg/t.	2.5	9032002	AC	20-Mar-19	375.4	
ΓDS*	408		5.00	mg/t	t	9032001	AC	22-Mar-19	160:1	
Alkalinity, Total*	236		4,00	mg/l	t	9031804	AC	20-Mar-19	1101	
			Green Anal	ytical Labo	ratories					
Total Recoverable Metals by I	CP (E200.7)									
Calcium*	29.9		0.500	mg/L	5	B903196	AES	25-Mar-19	EPA200.7	
Magnesium*	24.5		0,500	mg/L	5	B903196	AES	25-Mar-19	EPA200.7	
otassium*	5.23		5.00	mg/l	5.5	B903196	AFS	25-Mar-19	EPA200.7	
*mulbo	85.5		5.00	mg/L	5	B903196	AES	25-Mar-19	EPA200.7	

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*=Accredited Analyte

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington NM, 88260

Project: VERLANDER SWD #1

Project Number: #10433

Project Manager: LANCE CRENSHAW

Fax To: (575) 396-1429

Reported: 29-Mar-19 17:07

SAMPLE #2 32.482796-103.213849

11901049-02 (Water)

Analyte	Result	MDI	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardir	nal Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	322		5.00	mg/1.	1	9031804	AC	20-Mar-19	310,1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9031804	AC	20-Mar-19	310.3	
Chloride*	72.0		4.00	mg/L	1	9031903	AC.	20-Mur-19	45tH)-C1-H	
Conductivity*	743		1,00	u8/cm	1	9031901	VC	19-Mar-19	120.1	
рН*	8.14		0.100	pH Units	1	9031901	VC.	19-Mar-19	150.1	
Specific Gravity (a 60° F	1.002		0.000	[blank]	ı	9032010	AC	20-Mar-19	SM 2710F	
Sulfate*	99.0		25.0	mg/L	2.5	9032002	AC	20-Mar-19	375.4	
TDS*	452		5.00	mg/L	1	9032001	AC'	22-Mar-19	160.1	
Alkalinity, Total*	264		4.00	mg/L	1	9031804	AC	20-Mar-19	310,1	
			Green Ana	lytical Lab	oratories					
Total Recoverable Metals by	ICP (E200.7)									
Calcium*	43.3		0.500	mg/L	5	B903196	AES	25-Mar-19	EPA200.7	
Magnesium*	20.3		0.500	ו/עַמוי/L	5	B903196	AES	25-Mar-19	EPA200.7	
Potassium*	5.54		5,00	mg/L	5	11903196	AI:S	25-Mar-19	EPA200.7	
Sodlum*	80.9		5.00	Fym	5	B903196	AES	25-Mar-19	FPA200.7	

Cardinal Laboratories *=Accredited Analyte

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Calley T. Kinner

R. McCasland Sample #3 Analysis- Attachment XI-3

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington NM, 88260

Project: VERLANDER SWD #1

Project Number: #10433

Project Manager: LANCE CRENSHAW

Fax To: (575) 396-1429

Reported:

29-Mar-19 17:07

ROBERT MCCASLAND SAMPLE #3 32.498742-103.206514

11901049-03 (Water)

Analyte	Result	MDI.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	nal Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	239		5.00	mg'L	1	9031804	AC	20-Mai-19	310,1	
Alkalinity, Carbonate	0:1.00		1.00	mg/L	1.	9031804	AC	20-Mar-19	310.1	
Chloride*	64.0		4.00	mg/t_	E.	9031903	AC	20-Mar-19	4500-01-13	
Conductivity*	645		1.00	nS/em	1	9031901	ΑC	19-Mar-19	120.1	
рН*	8.75		0.100	pH Units	1	9031901	AC	19-Mar-19	150.1	
Specific Gravity (a 60° F	1.003		0.000	[blank]	ı	9032010	AC	20-Mar-19	SM 2710F	
Sulfate*	98.0		25.0	mg/L	2.5	9032002	AC	20-Mar-19	375.4	
TDS*	394		5.00	mg/L	1	9032001	AC	22-Mar-19	160.1	
Alkalinity, Total*	196		4.00	mg/L	\$ [9031804	AC	20-Mar-19	310.1	
			Green Ana	lytical Labo	ratories					
Total Recoverable Metals by I	CP (E200.7)									
Calcium*	35.3		0,500	mg/l	5	B903196	Al·S	25-Mar-19	EPA200.7	
Magnesium*	22.6		0.500	mg/l.	5	B903196	AES	25-Mar-19	EPA2(8),7	
Potassium*	¥5.00		5.00	mg/L	5	11903196	AES	25-Mar-19	EPA200.7	
Sødlum*	63.0		5.00	mg/l	5	B903196	AES	25-Mar-19	FPA200.7	

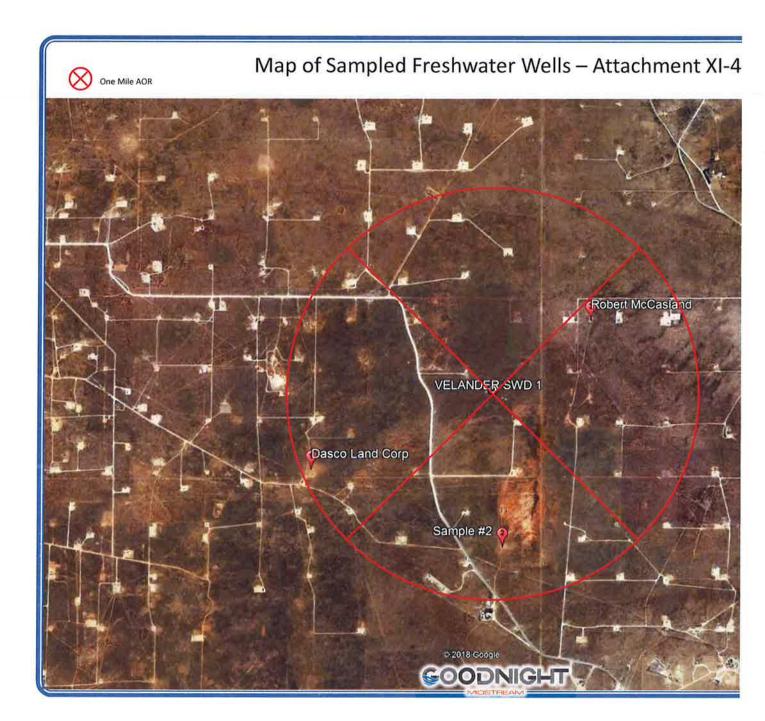
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*=Accredited Analyte

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COSSON, install entended entourness included entertain the control of the source install control of the source install control or rort, and it is not extend to the control of the source install control or consequential control or consequen

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XII. AFFIRMATIVE STATEMENT: A hydrogeologic study stating no evidence of faulting or communication was found is included as Attachment XII-1.



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

RE: Goodnight Midstream, LLC Verlander SWD well permit

Lot H, Section 12, 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 geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the 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.

Goodnight acquired and evaluated 3D seismic covering the lands to the west of the proposed salt water disposal well. This data does not cover the proposed location but it does show the geologic setting in the nearby area. 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.

Steve Drake

V.P. Geology and Reservoir Engineering

Goodnight Midstream, LLC

3-25-2019 Date

XIII. PROPER NOTICE:

All operators and lessees of record within the tracts of the area of review have been accounted for and were previously detailed on Attachment V-3. A thorough lease and mineral ownership investigation was performed upon all private tracts within the AOR by MLT Land Services, LLC. Their findings are included as Attachment XIII-1 through XIII-6.

The surface owner for the VERLANDER SWD 1 site is the Dasco Cattle Co, LLC. Contact information for all operators, lessees, surface and mineral owners is included as Attachment XIII-7. A copy of the C-108 and proper notice of application for disposal into the San Andres & Glorieta (4,251'–5,550') was given via letter to all parties listed. A copy of a typical letter and certified mail receipts are included as Attachment XIII-8 & XIII-9 as "proof of notice".

A legal notice was also published in the Hubb News-Sun. A proof copy of the published notice is included as Attachment XIII-10.

XIV. CERTIFICATION: See certification on original C-108

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 | (940)999-4272 | Brad@MLTLandservices.com

April 16, 2019

RE: Verlander SWD Well - N2 NW/4 and the S/2 NW/4 Section 12 T21S R36E Lea County, NM

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The active leases for the tract of land cited above are for the McQuatters #001 – API # 30-025-25675 and the McQuatters #002 – API # 30-025-26531 wells. These are included in the Eumont Gas Pool as a Standard 160 acre Gas Proration Unit and the includes entire 160 acres of the NW/4 of Section 12, T215 R36E in the pool. These wells were drilled through the Queen Formation to a depth of approximately 3,750 feet and the producing zone of these wells are in the Queen formation with producing zones from about the 3,507 foot depth to the 3,685 foot depth. Neither of these wells are producing in the proposed Verlander SWD Well zone. According to the State of New Mexico Records for these wells, the operator is the Petroleum Exploration Company Ltd.

The entire mineral ownership of the N/2 of the NW/4 is held by production from the original lease dated 7/7/1927 and filed in the Oil & Gas Records of Lea County, NM under Vol 8, Page 195. There were not depth restrictions of Pugh Clauses included in the lease. Therefore, by contacting the operator of the well, you would meet the requirements of the State of New Mexico.

The S/2 NW/4 of Section 12 T21S R36E has all the minerals forced pooled in the above unit to 4,000 feet. All the depths below 4,000 feet are open for lease and the mineral owners to report to are listed in the separate report. By contacting the above stated operator of the well and the listed mineral owners, you would meet the requirements of the State of New Mexico.

Sincerely yours,

Thomas A. Sewall

Senior Right-of-Way Agent and Landman

Verlander Well S/2 NW/4 Section 12 T21S R36E

Commerce Trust Company, Agent for

Patterson 1976 Trust Investments, LLC

by Farmers National Company, Agent

5110 South Yale Ave

Suite 400

Tulsa, OK 74135

Etz Oil Properties, Ltd.

P. O. Box 73406

Phoenix AZ 85050

George H. Etz, Jr., Trustee

1105 Xanthisma

McAllen, TX 78504

Lincicome Oil & Gas, LLC

7 Woodland Drive

Vienna, WV 26105

Keohane, Inc.

3619 E 2nd Street

Roswell, NM 88201

Toles-Com-Ltd, LLC

P. O. Box 1300

Roswell, NM 88202-1300

Graham Family Investments, LLC

P. O. Box 1835

Roswell, NM 88202-1835

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 | (940)999-4272 | <u>Brad@MLTLandservices.com</u>

April 16, 2019

RE: Verlander SWD Well - 80 acres being the SW/4 NE/4 and NW/4 SE/4 of Section 12 T21S R36E Lea County, NM

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The active lease for the tracts of land cited above is for the Carter #001 – API # 30-025-04621 well. This well is included in the Eumont Gas Pool as a Non-Standard 80 acre Gas Proration Unit and includes the entire 80 acres of the SW/4 NE/4 and NW/4 SE/4 of Section 12, T21S R36E in the pool. This well was drilled through the Queen Formation to a pool depth of approximately 4,000 feet and the producing zone of this well is in the Queen formation. This well is not producing in the proposed Verlander SWD Well zone. According to the State of New Mexico Records for this well, the operator is Special Energy Corp.

The mineral ownership of these tracts is under leases held by the operator. These leases were filed under V 118, P 66; V118, P 68; V118, P 70; V118, P 73; V118, P 75; V118, P 77; V118, P 80 and V 118, P 83 of the Oil & Gas. Records of Lea County, NM, some of which included depth restrictions below 4,000 feet and two of the leases were only for the NW/4 SE/4 of Section 12 T21S R36E. Leases filed under V118, P 70 and V 118, P 83 only lease the acreage to 4,000 feet. Leases filed under V 118, P 75 and V 118, P 80 were only for the NW/4 SE/4. A list of these mineral owners and their assigns is attached. Therefore, by contacting the operator of the well and the list of attached mineral owners, you would meet the requirements of the State of New Mexico.

Sincerely your

Thomas A. Sewall

Senior Right-of-Way Agent and Landman

MINERAL OWNERS FOR NOTIFICATION: SW/4 NE/4 NW/4 SE/4 Sec 12 T21s R36E Beverly Carter - Trustee of the Powhatan and Beverly T. Carter Revocable

P. O. Box 328

Trust

Ft. Sumner, NM 88203 LFN Cone Properties

3102 S. Oak Drive Austin, TX 78704

Mildred M. Montgomery

82 April Wind South Drive

Montgomery, Texas 77356

Carter Family Minerals

464 East Main Street

Fort Summer, NM 88119

Thomas R. Cone

Southwest City, MO 64863

College of the Southwest Foundation

6610 Lovington Highway

Hobbs, NM 88240

Cathie Cone McCown

as Trustee for the Auvenshine Children's Testamentary Trust

P. O. Box 658

Dripping Springs, Texas 78620

Cathie Cone McCown

P. O. Box 658

Dripping Springs, Texas 78620

Kayla Cone

P. O. Box 746

Fayeteville, AR 72702

Karen Cone

P. O. Box 8357

Fayetteville, AR 72703

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 [(940)999-4272 [Brad@MLTLandservices.com

April 16, 2019

RE: Verlander SWD Well – 320 acres being the NW/4 NE/4 and E/2 NE/4 and E/2 SE/4 and SW/4 SE/4 and E/2 SW/4 of Section 12 T21S R36E Lea County, NM

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The active lease for the tracts of land cited above is for the Roy Riddel #003 – API # 30-025-35486 well. This well is included in the Eumont Gas Pool as a Non-Standard 320 acre Gas Proration Unit and includes the entire 320 acres of the NW/4 NE/4 and E/2 NE/4 and E/2 SE/4 and SW/4 SE/4 and E/2 SW/4 of Section 12, T21S R36E in the pool. This well was drilled through the Queen Formation to a pool depth of approximately 4,000 feet and the producing zone of this well is in the Queen formation. This well is not producing in the proposed Verlander SWD Well zone. According to the State of New Mexico Records for this well, the operator is Chevron USA Inc.

The mineral ownership of these tracts is under leases held by the operator. These leases were filed under V 42, P 505; V48, P 311; V48, P 316; V48, P320; V63, P134; V90, P325 of the Oil & Gas. Records of Lea County, NM which included no depth restrictions or Pugh Clauses. Leases filed under V104, P280; V104, P282; V104, P293 and V104, P448 only lease the acreage to 4,000 feet. A list of these mineral owners and their assigns is attached. Therefore, by contacting the operator of the well and the list of attached mineral owners, you would meet the requirements of the State of New Mexico.

Sincerely yours,

Thomas A. Sewall

Senior Right-of-Way Agent and Landman

MINERAL OWNERS FOR NOTIFICATION:

NW/4 NE/4 and E/2 NE/4 asnd E/2 SE/4 and SW/4 SE/4 and E/2 SW/4 Sec 12 T21S R36E

Prosperity Bank, as Trustee of the Williams Trust FOB MMP dated 4-10-1996

Trust Dept.

1401 Avenue O

S. E. Cone, Jr.

P. O. Box 10321

Lubbuck, TX 79408

Eleanor Christic Corrigan Trust

P. O. Box 63869

Colorado Springs, CO 80962

Pat Corrigan, Trustee of the Pat Corrigan Trust uwo Hugh Corrigan II, Hugh Daniels Corrigan, Trustee of the CEC Trust for the benefit of Hugh Daniels Corrigan, and James Patrick Corrigan, Jr., Trustee of the CEC Trust for the benefit of James Patrick Corrigan, Jr.

310 West Wall Street, Suite 1200

Midland, TX 79701
Corrigan Southern Land and Cattle Company, LLC

8117 Preston Road, Suite 610

Dallas, TX 75225

LFN Cone Properties

3102 S. Oak Drive

Austin, TX 78704

James Patrick Corrigan, Jr. Trust

P. O. Box 69068

Vero Beach, FL 32969

Hugh Corrigan, IV, Power of Appointment Trust,

William E. Corrigan, as Trustee

8117 Preston Road

Suite 610

Dallas, Texas 75225 C. E. Corrigan Trust

P. O. Box 643726

Vero Beach, FL 32964-3726

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 | (940)999-4272 | Brad@MLTLandservices.com

April 16, 2019

RE: Verlander SWD Well - Lot 1 (a/k/a the NW/4 NW/4 of Section 7 T21S R37E Lea County, NM

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The active lease for the tract of land cited above is for the Mae F. Curry #003 – API # 30-025-35853 well. This well is an oil and includes the entire area of Lot 1 of Section 7, T21S R37E. This well is in the Hardy; Tubb- Drinkard and the Hardy; Blinebry pool with a total depth of 6,985 feet and a production zone from 5,758 feet to 6,810 feet. This well is not producing in the proposed Verlander SWD Well zone. According to the State of New Mexico Records for this well, the operator is the Apache Corporation.

The mineral ownership of this tract is under a lease held by the operator and is totally held by production. This lease was filed under V 13, P 74 of the Oil & Gas Records of Lea County, NM. The lease did not have any depth restrictions and it did not contain a Pugh Clause. There are no mineral owners that need to be contacted for this tract. Therefore, by contacting the operator of the well you would meet the requirements of the State of New Mexico.

Sincerely yours,

Thomas A. Sewall

Senior Right-of-Way Agent and Landman

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 | (940)999-4272 | Brad@MLTLandservices.com

April 16, 2019

RE: Verlander SWD Well – Lot 2 (aka SW/4 NW/4) and SE/4 NW/4 and NE/4 SW/4 of Section 7 T2 1S R37E Lea County, NM $\,$

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The are no active wells or leases controlling the common mineral ownership of the above stated tracts of land. These are all open tracts of land.

I have compiled and attached a list of all the known mineral owners of these tracts of land using the records of Lea County, NM. Therefore, by contacting all the mineral owners of these tracts of land, you would meet the requirements of the State of New Mexico.

Sincerely yours,

Thomas A. Sewall

Schior Right-of-Way Agent and Landman

MINERAL ESTATE:

Lot 2 (aka SW/4 NW/4) and SE/4 NW/4 and NE/4 SW/4 of Sec 7 T21s R37E

Carol Jo Blake

400 North Main Street

Midland, Texas 79701

Carol Jo Blake, Trustee of Trust "A" u/w/o Jack E. Blake,

Deceased

400 North Main Street

LML, LLC, a New Mexico limited liability company

6565 Americas Parkway NE

Ste 1000

Albuquerque, NM 87110

John T. Hinkle and Linda J. Hinkle, Their Successors in Trust,

Under the Hinkle Living Trust dated January 9, 1996 and

Amendments thereto

2604 Coronado Drive

P. O. Box 1793

Roswell, NM 88202

Mary L. Crockett

43 W. Crockett Road

Lovington, NM 88260

Deborah Huntley

4531 Franklin Blvd

#94

Eugene, OR 97403

Danglade Speight Family Oil and Gas I, LP, a Texas limited

partnership

777 Main Street

Suite 3250

Fort Worth, TX 76102

Kristen Hinkle Coomes

265 259th Avenue NE

Sammamash, WA 98074

Jenna Hinkle Sartori

5710 Hatchery Court

Penngrove, CA 94951

Gary A. Hudson

1127 Roasario Street

Davis, CA 95616

Donald M. Norwood

3070 Strolling Hill Road

Cameron Park, CA 95682

Janice E. Gilbertson

43345 Canyon Creek Road

King City, CA 93930

Steven T. Dunn

105-A Oasis Road

King City, CA 93930

Kinney, Inc. 106 SW 9th Street Andrews, TX 79714 Mark L. Shidler and wife, Mitzi Shidler 1010 Lamar #500 Houston, TX 77002 Dennis Mitchell P. O. Box 711 Yankton, SD 57078 Ronald E. Slover 3614 Royal Road Amarillo, TX 79109 Zeus Petroleum, Inc. P. O. Box 458 Bellaire, TX 77402-0458 John E. Donnellan and wife Gail Donnellan P. O. Box 1433 Chickasha, OK 73023 Partin Petroleum, Inc. P. O. Box 57425 Houston, TX 77257-2425 Suzanne Thomas 3936 Byron Street Houston, TX 77005 Cynthia Stratton O'Malley 9575 Katy Freeway Suite 440 Houston, TX 77024-1408 Trio Production company, LLC 1601 East 19th Street Edmond, OK 73013 Kathleen P. Henderson 5519 Tupper Lake Houston, TX 77056 Charles E. Hinkle P. O. Box 1030 King City, CA 93930 Lisle Q. Tannehill 2511 Garden Road Suite A-180 Montercy, CA 93940		
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Houston, TX 77056 Charles E. Hinkle P. O. Box 1030 King City, CA 93930 Lisle Q. Tannehill 2511 Garden Road Suite A-180		Kathleen P. Henderson
Charles E. Hinkle P. O. Box 1030 King City, CA 93930 Lisle Q. Tannehill 2511 Garden Road Suite A-180		5519 Tupper Lake
P. O. Box 1030 King City, CA 93930 Lisle Q. Tannehill 2511 Garden Road Suite A-180		
King City, CA 93930 Lisle Q. Tannehill 2511 Garden Road Suite A-180		Charles E. Hinkle
Lisle Q. Tannehill 2511 Garden Road Suite A-180		P. O. Box 1030
2511 Garden Road Suite A-180		
Suite A-180		Lisle Q. Tannehill
		2511 Garden Road
Montercy, CA 93940	1	Suite A-180
		Montercy, CA 93940
John W. Tannehill		
P. O. Box 819		P. O. Box 819
Paso Robles, CA 93447		
First United Methodist Church of Amory, Mississippi		
P. O. Box 147		
Amory, M?S 38821-0147		Amory, M?S 38821-0147

Nancy Myers

2119 Ernest Avenue

Redondo Beach, CA 90278

Alice Meyers Riley

4 Benton Street

Hadleigh, Suffock, IP75AT England
Collene Alexander, Trustee of the Joe and Paudene Alexander

Family Trust, dated April 27, 2000

5206 Saddle Ridge Trail

San Angelo, TX 76904

Greg Segovia, Jr.

2 Walker Cane Lane

Roswell, NM 88201

Bettianne H. Bowen, Trustee of the Bettianne H. Bowen Living

Trust dated April 24, 1996

1902 Ivanhoe Lane

Abilene, TX 79605

3001 West Loop North 250, North Ste C105-150, Midland, Texas 79705 | (940)999-4272 | Brad@MLTLandservices.com

April 16, 2019

RE: Verlander SWD Well - Lot 3 (aka NW/4 SW/4) of Section 7 T21S R37E Lea County, NM

Tom Schumacher MidCon Resource Group, LLC 701-400-9909

Dear Mr. Schumacher,

The active leases for the tract of land cited above are for the Alexander #001 – API # 30-025-09905 and the Deck Estate 7 #001 – API # 30-025-33677 wells. The operators of these two wells, Upland Production Company for the Alexander #001 well and Penroc Oil Corp for the Deck Estate 7 #001 well control all of the mineral interest for Lot 3 of Section 7, T21S R37E. Neither of these wells are producing in the proposed Verlander SWD Well zone.

The entire mineral ownership of Lot 3 is held by production by these two wells. Therefore, by contacting the operators of the wells, you would meet the requirements of the State of New Mexico.

Sincerely yours,

Thomas A. Sewall

Senior Right-of-Way Agent and Landman

Affected Party Notification List— Attachment XIII-7 Page 1 of 3

Mineral Owners

COMMERCE TRUST COMPANY AGENT FOR PATTERSON 1976 TRUST INVESTMENTS, LLC BY FARMERS NATIONAL CO, AGENT 5110 S YALE AVE SUITE 400 TULSA OK 74135

ETZ OIL PROPERTIES LTD P O BOX 73406 PHOENIX AZ 85050

GEORGE H ETZ JR TRUSTEE 1105 XANTHISMA MCALLEN TX 78504

LINCICOME OIL & GAS LLC 7 WOODLAND DRIVE VIENNA WV 26105

KEOHANE INC 3619 E 2ND STREET ROSWELL NM 88201

TOLES-COM-LTD LLC P O BOX 1300 ROSWELL NM 88202-1300

GRAHAM FAMILY
INVESTMENTS LLC
P O BOX 1835
ROSWELL NM 88202-1835

BEVERLY CARTER - TRUSTEE OF THE POWHATAN AND BEVERLY T CARTER REVOCABLE TRUST PO BOX 328 FT. SUMNER NM 88119-0328

LFN CONE PROPERTIES 3102 S OAK DRIVE AUSTIN TX 78704-6036

MILDRED M MONTGOMERY 82 APRIL WIND SOUTH DRIVE MONTGOMERY TEXAS 77356-5966

CARTER FAMILY MINERALS 464 EAST MAIN AVE. FORT SUMNER NM 88119-9238

THOMAS R CONE PO BOX 400 SOUTHWEST CITY MO 64863-0400

COLLEGE OF THE SOUTHWEST FOUNDATION 6610 N LOVINGTON HIGHWAY HOBBS NM 88240

CATHIE CONE MCCOWN AS TRUSTEE FOR THE AUVENSHINE CHILDREN'S TESTAMENTARY TRUST PO BOX 658

DRIPPING SPRINGS TX 78620-0658

CATHIE CONE MCCOWN PO BOX 658 DRIPPING SPRINGS TX 78620-0658

KAYLA CONE PO BOX 746 FAYETEVILLE AR 72702-0746

KAREN CONE PO BOX 8357 FAYETTEVILLE AR 72703 PROSPERITY BANK, AS TRUSTEE OF THE WILLIAMS TRUST FOB MMP DATED 4-10-1996 TRUST DEPT 1401 AVENUE Q LUBBOCK TX 79401-3819

SE CONE JR PO BOX 10321 LUBBLICK TX 79408-

LUBBUCK TX 79408-3321

ELEANOR CHRISTIE CORRIGAN TRUST PO BOX 63869 COLORADO SPRGS CO 80962-3869

PAT CORRIGAN TRUSTEE OF THE PAT CORRIGAN TRUST UWO HUGH CORRIGAN II 310 W WALL STREET SUITE 1200 MIDLAND TX 79701-5186

HUGH DANIELS CORRIGAN TRUSTEE OF THE CEC TRUST FBO HUGH DANIELS CORRIGAN & JAMES PATRICK CORRIGAN JR TRUSTEE OF THE CEC TRUST FBO JAMES PATRICK CORRIGAN, JR. 310 W WALL STREET SUITE 1200 MIDLAND TX 79701-5186

CORRIGAN SOUTHERN LAND AND CATTLE COMPANY LLC 8117 PRESTON ROAD SUITE 610 DALLAS TX 75225-6366

LFN CONE PROPERTIES 3102 S OAK DRIVE AUSTIN TX 78704-6036

JAMES PATRICK CORRIGAN JR TRUST PO BOX 69068 VERO BEACH FL 32969

HUGH CORRIGAN IV POWER OF APPOINTMENT TRUST WILLIAM E CORRIGAN AS TRUSTEE 8117 PRESTON ROAD SUITE 610 DALLAS TX 75225-6366

CE CORRIGAN TRUST PO BOX 643726 VERO BEACH FL 32964-3726

Mineral Owners

CAROL JO BLAKE 400 NORTH MAIN STREET MIDLAND TEXAS 79701 DONALD M NORWOOD 3070 STROLLING HILL ROAD CAMERON PARK CA 95682 PARTIN PETROLEUM INC 13831 NORTHWEST FWY STE 500 HOUSTON TX 77040

CAROL JO BLAKE, TRUSTEE OF TRUST "A" U/W/O JACK E BLAKE 400 NORTH MAIN STREET MIDLAND TEXAS 79701 JANICE E GILBERTSON 43345 CANYON CREEK ROAD KING CITY CA 93930 SUZANNE THOMAS 3936 BYRON STREET HOUSTON TX 77005

LML, LLC 6565 AMERICAS PARKWAY NE STE 1000 ALBUQUERQUE NM 87110 STEVEN T DUNN 105-A OASIS ROAD KING CITY CA 93930 CYNTHIA STRATTON O'MALLEY 9575 KATY FREEWAY SUITE 440 HOUSTON TX 77024-1408

JOHN T HINKLE AND LINDA J HINKLE THEIR SUCCESSORS IN TRUST, UNDER THE HINKLE LIVING TRUST DATED JANUARY 9, 1996
PO BOX 1793
ROSWELL NM 88202-1793

KINNEY INC 106 SW 9TH STREET ANDREWS TX 79714 TRIO PRODUCTION COMPANY LLC 1601 EAST 19TH STREET EDMOND OK 73013

MARY L CROCKETT 43 W CROCKETT ROAD LOVINGTON NM 88260 MARK L SHIDLER 1313 CAMPBELL RD BUILDING "D" HOUSTON TX 77055 KATHLEEN P HENDERSON 5519 TUPPER LAKE HOUSTON TX 77056

DEBORAH HUNTLEY 4531 FRANKLIN BLVD SPC 94 EUGENE OR 97403-2460 MITZI SHIDLER 11727 FOREST GLEN ST HOUSTON TX 77024 CHARLES E HINKLE PO BOX 1030 KING CITY CA 93930

DANGLADE SPEIGHT FAMILY OIL AND GAS I LP A TEXAS LP 777 MAIN ST SUITE 3250 FORT WORTH TX 76102 DENNIS MITCHELL PO BOX 711 YANKTON SD 57078 LISLE Q TANNEHILL 2511 GARDEN ROAD SUITE A-180 MONTEREY CA 93940

KRISTEN HINKLE COOMES 265 259TH AVENUE NE SAMMAMASH WA 98074 RONALD E SLOVER 3614 ROYAL ROAD AMARILLO TX 79109

JOHN W TANNEHILL PO BOX 819 PASO ROBLES CA 93447

JENNA HINKLE SARTORI 5710 HATCHERY COURT PENNGROVE CA 94951 ZEUS PETROLEUM INC PO BOX 458 BELLAIRE TX 77402-0458

FIRST UNITED METHODIST CHURCH OF AMORY MISSISSIPPI PO BOX 147 AMORY MS 38821-0147

GARY A HUDSON 1127 ROSARIO STREET EL MACERO CA 95618

JOHN E & GAIL DONNELLAN PO BOX 1433 CHICKASHA OK 73023

NANCY MYERS 2119 ERNEST AVENUE #3 REDONDO BEACH CA 90278

Mineral Owners

ALICE MEYERS RILEY
4 BENTON STREET
HADLEIGH SUFFOCK IP75AT
ENGLAND

COLLENE ALEXANDER, TRUSTEE OF THE JOE & PAUDENE ALEXANDER FAMILY TRUST DATED APRIL 27 2000
5206 SADDLE RIDGE TRAIL
SAN ANGELO TX 76904

GREG SEGOVIA JR 2 WALKING CANE LN ROSWELL NM 88201

BETTIANNE H BOWEN, TRUSTEE OF THE BETTIANNE H BOWEN LIVING TRUST DATED APRIL 24 1996 1902 IVANHOE LANE ABILENE TX 79605

Operators/Lessees

CHEVRON USA INC 6301 DEAUVILLE BLVD MIDLAND TX 79706

PENROC OIL CORP P O BOX 2769 HOBBS NM 88241-2769

SPECIAL ENERGY CORP PO DRAWER 369 STILLWATER OK 74076

FULFER OIL & CATTLE LLC PO BOX 1224 JAL NM88252

PENROC OIL CORP. PO BOX 2769 HOBBS NM 88241-2769

APACHE CORP 303 VETERANS AIRPARK LN #1000 MIDLAND TX 79705

CONOCOPHILIPS CO PO BOX 2197 OFFICE EC3-10-W285 HOUSTON TX 77252

PETROLEUM EXPLORATION CO LTD LIMITED P PO BOX 548 BRECKENRIDGE TX 76424

STATE OF NEW MEXICO
OIL, GAS AND MINERALS DIVISION
310 OLD SANTA FE TRAIL
SANTA FE NM 87501

NMSLO PO BOX 1148 SANTA FE NM 87504 UPLAND PRODUCTION CO PO BOX 481 MIDLAND TX 79702

Surface Owner

DASCO CATTLE CO LLC PO BOX 727 HOBBS NM 88241 July 26, 2019

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail - Return Receipt Requested

To whom it may concern:

This letter is to advise you that Goodnight Midstream Permian, LLC, 5910 N Central Expressway Suite 850, Dallas, TX 75206 is applying for authorization to inject into the San Andres and Glorieta Formations at the VERLANDER SWD #1. The attached Form C-108 is being filed with the New Mexico Oil Conservation Division in Santa Fe, NM and is included with this letter as part of the application process.

The VERLANDER SWD #1 will be located at 2,482' FNL and 1,277' FEL, Unit H of Section 12, T21S, R36E, Lea County, New Mexico which is approximately three miles east of Oil Center, New Mexico. Produced water from area oil & gas production will be commercially disposed into the San Andres and Glorieta Formations at a proposed interval depth of 4,251' to 5,550', a maximum surface pressure of 850 psi, and a rate limited only by such pressure.

This letter is a notice only. No action is needed unless you have questions or objections. You are entitled to a full copy of this application. For general inquiries or to receive a PDF file copy of the complete application, you may call the applicant's agent, MidCon Resource Group, LLC, at (701) 400-9909 or email tom@midcongroup.com.

Interested parties wishing to object to the application or request a hearing must file with the New Mexico Oil Conservation Division at 1220 South St. Francis Dr., Santa Fe, NM 87505 within fifteen days.

Sincerely,

Thomas Schumacher

MidCon Resource Group, LLC

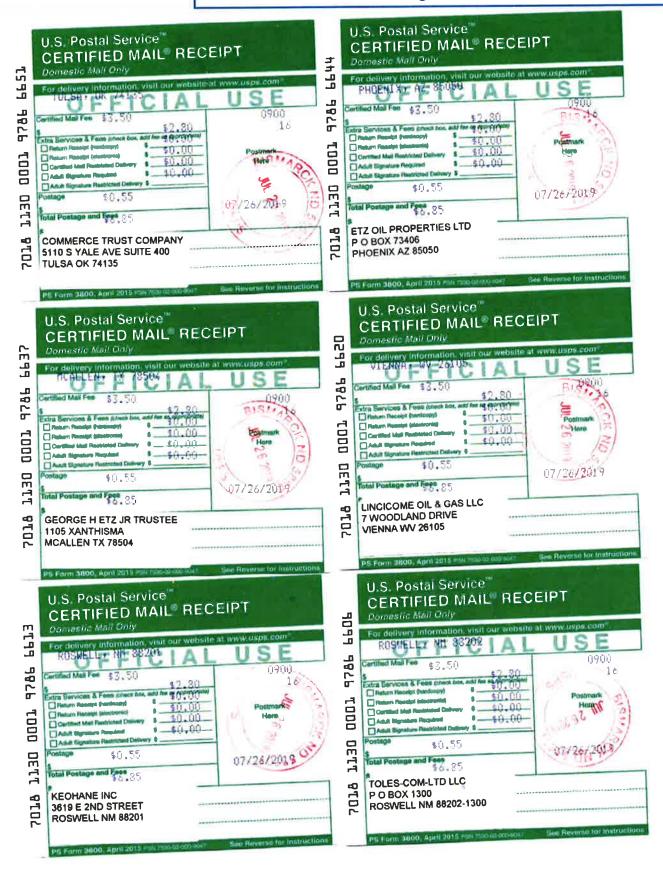
Agent for Goodnight Midstream Permian, LLC

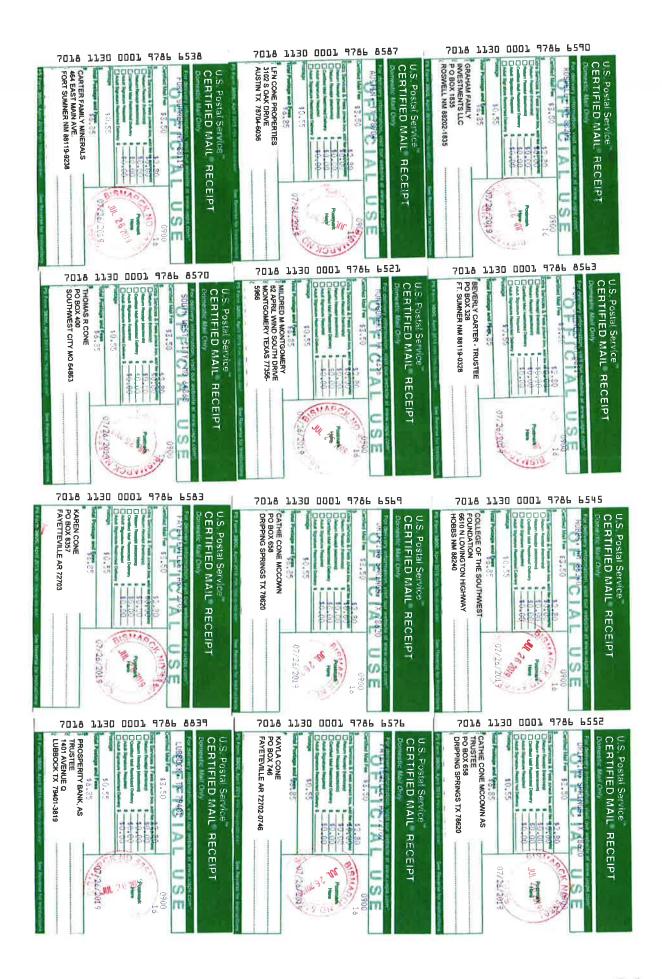
Cc: Form C-108

MidCon Resource Group, LLC | 1515 Burnt Boat Dr | Suite C # 337 | Bismarck, ND 58503 (701) 400-9909

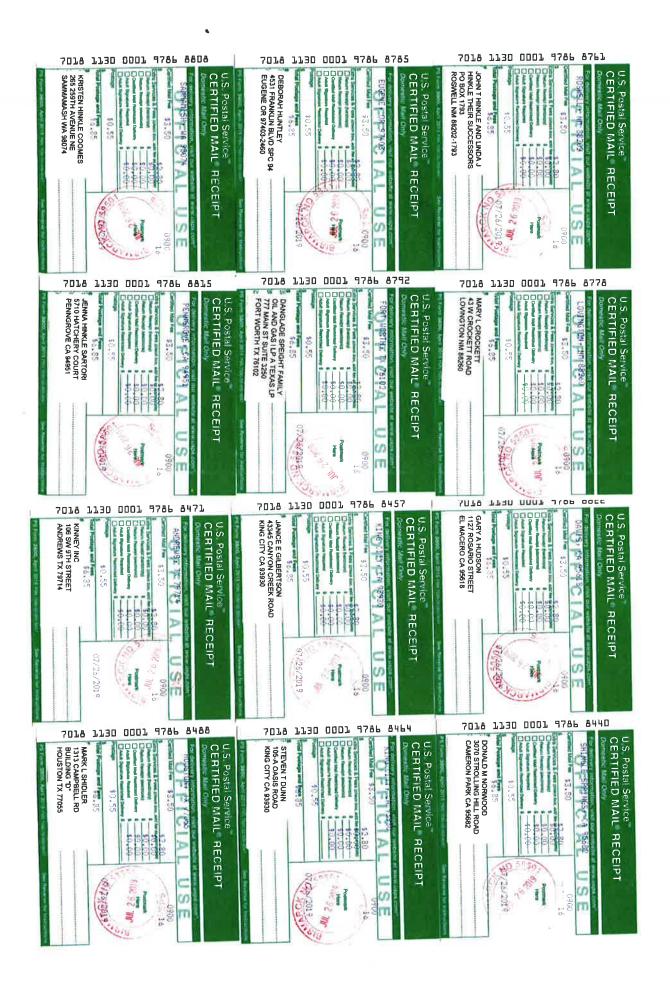


Certified Mail Receipts of Notification – Attachment XIII-9 Page 1 of 7

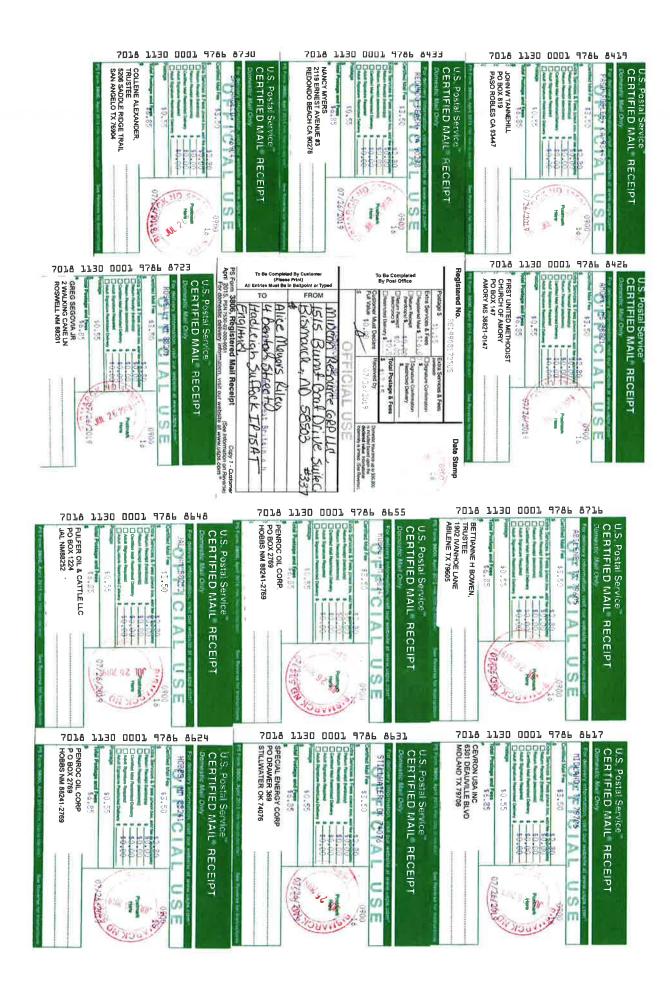
















Affidavit of Publication

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 July 26, 2019 and ending with the issue dated July 26, 2019.

Publisher

Sworn and subscribed to before me this 26th day of July 2019.

Business Manager

My commission expires

January 29,*2023

(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

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

LEGALS

LEGAL NOTICE JULY 26, 2019

Notice is hereby given of the application by Goodnight Midstream Permian, LLC, 5910 N Central Expressway Suite 850, Dallas, TX 75206 for authorization to inject into the San Andres and Glorieta Formations at the proposed VERLANDER SWD #1 well.

The VERLANDER SWD #1 well.

The VERLANDER SWD #1 will be located at 2,482* FNL. and 1,277* FEL, Unit H of Section 12. T21S, R36E, Lea County, New Mexico which is approximately three miles east of Oil Center, New Mexico. Produced water from area oil & gas production will be commercially disposed into the San Andres and Glorieta Formations at a proposed interval depth of 4,251* to 5,550*, a maximum surface pressure of 850 psl, and a rate limited only by such pressure.

Interested parties wishing to object to the application must file with the New Mexico Oli Conservation Division at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen days. Other Inquiries regarding this application should be directed to the applicant's agent, MidCon Resource Group, LLC, at (701) 400-9909 or by email at tom@midcongroup.com. #34497

67115619

00231314

TOM SCHUMACHER
MIDCON RESOURCE GROUP LLC,
1730 CONTESSA DR
BISMARCK, ND 58503

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 NOS. 20825

AFFIDAVIT OF STEVE ALLEN DRAKE

I, Steve Allen Drake, of lawful age and being first duly sworn, declares as follows:

- 1. My name is Steve Allen Drake. I work for Goodnight Midstream Permian, LLC ("Goodnight Midstream") as Vice President of Geology and Reservoir Engineering.
- 2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology. My credentials as an expert in petroleum geology have been accepted by the Division and made a matter of record.
- 3. I am familiar with the application filed by Goodnight Midstream in this case, and I am familiar with the status of the lands and geology in the subject area.
- 4. The proposed injection disposal interval will be within the San Andres-Glorieta formation [SWD; San Andres-Glorieta (Pool Code 96127)] between 4,251 feet and 5,550 feet below the ground through a perforated completion.
- 5. Exhibit 1, pages 35-36, contain an overview of the geology, including details on the lithology, thickness, and depths of all formations within the area of the proposed well. The geologic description also includes a discussion and overview of the San Andres injection interval, which consists of alternating layers of porous dolomite and limestone, which ranges from 8% to 15% porosity with excellent fluid transmissivity properties in the top portion of the injection interval, to porous dolomite and limestone with porosities from 3% to 8% at the bottom

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. 20825

of the injection interval. The injection interval has a net thickness of 280 feet out of a gross thickness of approximately 950 feet.

- 6. Exhibit 1, page 39, is a cross-section consisting of logs from three representative wells in the area that depict the stratigraphic intervals above and below the proposed injection interval. The top 100 feet of the San Andres is predominantly anhydrite which serves as a stratigraphic seal to contain the injection fluid from upward migration. The lower San Andres lithologic unit consists of approximately 80-100 feet of limestone with porosity values of between 1%-3%, which presents an effective basal seal and barrier between the San Andres and Glorieta reservoirs against downward fluid migration. In addition, below the underlying Paddock interval, the Blinebry interval consists of approximately 750 feet of tight dolomite, which functions as an excellent and exceptionally thick barrier to downward migration. Based on my examination and study of the geology in the area, it is my opinion that these geologic seals will effectively contain the injected fluids within the target injection zone.
- 7. Exhibit 1, page 45, is a statement I prepared confirming that I have reviewed the available geologic and engineering data and have found no evidence of a hydrological connection between the proposed injection interval and any underground sources of drinking water.
- 8. Injection will not impair correlative rights and will not adversely affect the production of hydrocarbons because the proposed injection will remain within the target injection zone. The proposed injection interval is not prospective for hydrocarbons within the area of the proposed injection well. The Roy Riddle No. 3 Well (API 30-025-35486) is approximately 2,250 feet to the south-southeast of the proposed injection well but was never completed within the San Andres formation. The Alexander No. 1 Well (API 30-025-09905) is approximately 2,100 feet to the east-southeast from the proposed injection well and produces

from the overlying Grayburg formation. Below the proposed injection interval, the Blinebry formation is prospective and the Deck State 7 No. 1 well (API 30-025-33677) produces from that formation. The geologic seals identified above and below the injection interval will serve to isolate the disposal fluids from offsetting zones capable of producing hydrocarbons.

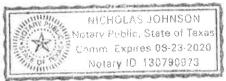
- 9. Freshwater water in this area is found to a depth of about 400 feet or less below the surface. No underground sources of drinking water exist below the injection interval in this area. The Ogallala aquifer is approximately two miles north of the proposed injection well and will not be impacted by this injection.
- 10. Based on this review and analysis of freshwater, the geologic seals above and below the injection interval, and the significant vertical offset between the injection zone and shallow zones containing freshwater, it is my opinion that the proposed injection will not threaten any drinking water sources or zones of freshwater.
- 11. The proposed injection fluids will be from production in various formations, including the Yates, Seven Rivers, Queen, Grayburg, San Andres, Delaware, Blinebry, Drinkard, Tubb, Bone Spring, Wolfcamp, Strawn, Pennsylvanian, and Morrow formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at pages 20-25 in Exhibit 1. In addition, water samples from the injection formation are located at pages 26-34 in Exhibit 1. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.
- 12. In my opinion, granting this application will help conserve resources, avoid waste, and protect correlative rights.

FURTHER AFFIANT SAYETH NOT.

Steve Lake
Steve Allen Drake

STATE OF TEXAS			
COUNTY OF _	Da llas	_)	

SUBSCRIBED and SWORN to before me this 4th day of November 2019 by Steve Allen Drake.



NOTARY PUBLIC

My Commission Expires:

8-23-2020

13775963_v1

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 NOS. 20825

AFFIDAVIT OF THOMAS E. TOMASTIK

- I, Thomas E. Tomastik, of lawful age and being first duly sworn, declares as follows:
- 1. My name is Thomas E. Tomastik. I work for ALL Consulting as a senior geologist and regulatory specialist. I have been retained by Goodnight Midstream Permian, LLC ("Goodnight Midstream").
- 2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum engineering and petroleum geology. My credentials as an expert have been accepted by the Division and made a matter of record.
- 3. I am familiar with the application filed by Goodnight Midstream in this case, and I have conducted an engineering study of the proposed injection and the area of review surrounding the proposed injection well.
- 4. The proposed well is the Verlander SWD No. 1 Well (API No. pending). It will be located 2,482 feet from the north line and 1,277 feet from the east line (Unit H). Section 12. Township 21 South, Range 36 East, NMPM. Lea County, New Mexico.
- 5. All the well data and operational information required by the C-108 is included in the application within Exhibit 1. The proposed well design is contained in the Injection Well Data Sheet at pages 5-6 of the C-108 in Exhibit 1. A description of the proposed well design may

BEFORE THE OIL CONSERVATION DIVISION

Case No. 20825

be found at page 7 of the C-108 in Exhibit 1. The disposal interval will be a perforated completion from approximately 4,251 feet to 5,550 feet in the San Andres-Glorieta formation [SWD; San Andres-Glorieta (Pool Code 96127)].

- 6. The well's cement job on the seven-inch production casing will be confirmed with a cement bond log or an equivalent cement integrity log, to establish the top of the cement and the quality of the bonding to the casing.
- 7. The well's annular space will be filed with an inert packer fluid to protect both the casing and the tubing and it will be monitoring surface pressure at the wellhead to confirm the integrity of the well during injection.
- 8. The well design and cement plan will be protective of freshwater and underground sources of drinking water in the area and protective of correlative rights.
- 9. The estimated average surface injection pressure is expected to be approximately 600 psi. The maximum surface injection pressure will be 850 psi, based on the Division's guideline limiting surface injection pressures to 0.2 psi per foot of depth to the top-most injection interval. The proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.
- 10. An acid job will be performed to clean up the perforations prior to commencement of injection operations.
- 11. Page 11 of the C-108 in Exhibit 1 depicts a map of oil and gas wells with a two-mile radius around the proposed well, as well as all wells within the half-mile area of review.
- 12. Eight wells are located within the half-mile area of review. Three of those wells are active producers, three have been plugged and abandoned, and one is a cancelled APD,

which was never drilled. Information on each of the wells within the half-mile area of review is tabulated at page 14 of Exhibit 1. Of the four wells identified that may penetrate the injection interval, the wellbore schematics are included at pages 15-18 of Exhibit 1.

- 13. None of the wells within a half-mile area of review require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.
- 14. In my opinion, granting this application will help conserve resources, avoid waste, and protect correlative rights.

FURTHER AFFIANT SAYETH NOT.

home E. Donastif

STATE OF OHIO					
COUNTY OF	Delaware)			

SUBSCRIBED and SWORN to before me this ______ day of November 2019 by

Thomas E. Tomastik.

My Commission Expires:

NOLAN DONEGAN Notary Public, State of Ohlo My Comm. Expires 03/28/2023

13784378_v1

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. 20825

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 13th day of November, 2019 by Adam G. Rankin.

Notary Public

My Commission Expires:

January 28, 2023

OFFICIAL SEAL
ANNA K. STORM
NOTARY PUBLIC - STATE OF NEW MEXICO

My Commission Expires:__

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. 2

Submitted by: **Goodnight Midstream Permian, LLC**Hearing Date: November 14, 2019
Case No. 20825



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

October 21, 2019

<u>VIA CERTIFIED MAIL</u> 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.

Verlander SWD No. 1 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 November 14, 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.

Adamer, Rankin

ATTORNEY FOR GOODNIGHT MIDSTREAM PERMIAN, LLC

Goodnight Midstream - Verlander SWD No. 1 Case No. 20825 CM# 101374.0001

921489019403839590519" New Mexio State Land Office PO BOX 1148 Santa Fe NM 87504-1148 Recipient Tracking Number

Status Delivered Signature Received





Shipment Confirmation Acceptance Notice

Note to Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

> Goodnight Midstream - Verlander SWD No. 1 Case No. 20825 CM# 101374,0001

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Address:	110 N GUADALUPE ST # 1					
	SANTA FE					
State:	NM ZIP+4® 87501					

Type of Mail	Volume
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Priority Mail®	0
First-Class Package Service®	
Returns	
International*	
Other	1
Total	1

^{*}Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

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 Select Pay and End Visit to complete transaction

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USPS SCAN AT ACCEPTANCE



9275 0901 1935 6200 0017 8371 79

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Name and Address of Sender Holland & Hart LLP 110 N Guadalupe St # 1 Santa Fe NM 87501	Check type of mail or service Adult Signature Required Priority Mail Express Adult Signature Restricted Delivery Registered Mail Certified Mail Restricted Delivery Receipt for Merchandise Collect on Delivery (COD) Signature Confirmatio Insured Mail Restricted Delivery Signature Confirmatio Restricted Delivery Restricted Delivery	Postmark with Date of Receipt.												
USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
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PS Form **3877**, April 2015 (Page 1 of 1) PSN 7530-02-000-9098

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