

June 28, 2019

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

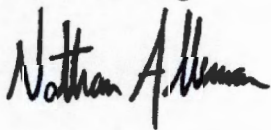
Subject: Goodnight Midstream Permian, LLC – Pudge SWD G 1
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Pudge SWD G 1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or nalleman@all-llc.com.

Sincerely,
ALL Consulting



Nate Alleman
Sr. Regulatory Specialist

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

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

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

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

[B] ☒ Offset Operators, Leaseholders or Surface Owner

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

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

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

[F] ☐ Waivers are Attached

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

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

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

Nate Alleman
 Print or Type Name

Nathan Alleman
 Signature

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

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

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal
Storage Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: Goodnight Midstream Permian, LLC
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
NAME: Nathan Alleman TITLE: Regulatory Specialist - ALL Consulting
SIGNATURE: Nate Alleman DATE: 06/28/2019
E-MAIL ADDRESS: nalleman@all-llc.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject
Well Name: Pudge SWD G 1

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

A.

(1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)
Lease Name & Well Number: Pudge SWD G 1
Location Footage Calls: 2,043' FNL & 2,504' FEL
Legal Location: Unit Letter G, S10 T22S R36E
Ground Elevation: 3,557'
Proposed Injection Interval: 5,750' – 6,500'
County: Lea

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	12-1/4"	9-5/8"	40.0 lb/ft	1,795'	565	Surface	Circulation
Intermediate 1	8-3/4"	7"	26.0 lb/ft	6,550'	860	Surface	Circulation/ CBL
Tubing	6-3/11"	4-1/2"	20.0 lb/ft	5,730'	N/A	N/A	N/A

(3) Tubing Information:

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

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

B.

(1) Injection Formation Name: Glorieta

Pool Name: SWD; GLORIETA

Pool Code: 91606

(2) Injection Interval: Perforated injection between 5,750' – 6,500'

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

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

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

- Grayburg (3,975')

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

- Tubb (7,270')

V – Well and Lease Maps

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

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

VI – AOR Well List

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

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

VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 20,000 bpd
Proposed Average Injection Rate: 12,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 1,150 psi (surface)
Proposed Average Injection Pressure: approximately 575 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Glorieta formation which is a non-productive zone known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from the Glorieta formation in the area are included in **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Glorieta formations from 5,750 – 6,500 feet. This formation consists of interbedded carbonate rocks including dolomites, siltstones, and sands. Several thick intervals of porous and permeable rock capable of taking water are present within the subject formation in the area.

The freshwater formation is the Rustler at a depth of approximately 1,770 feet. Water well depths in the area range from approximately 70 -180 feet below ground surface.

IX – Proposed Stimulation Program

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

X – Logging and Test Data

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

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, 3 groundwater wells are located within 1 mile of the proposed SWD location; however, according to state water well data and conversations with water well owners two (CP-01318 POD 1 & 2) of the three water wells are currently active. A water sample was collected for each well on 06/12/2019.

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

XII – No Hydrologic Connection Statement

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

XIII – Proof of Notice

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

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

Attachments

Attachment 1: Wellbore Diagram

Attachment 2: Area of Review Information:

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

Attachment 3: Source Water Analyses

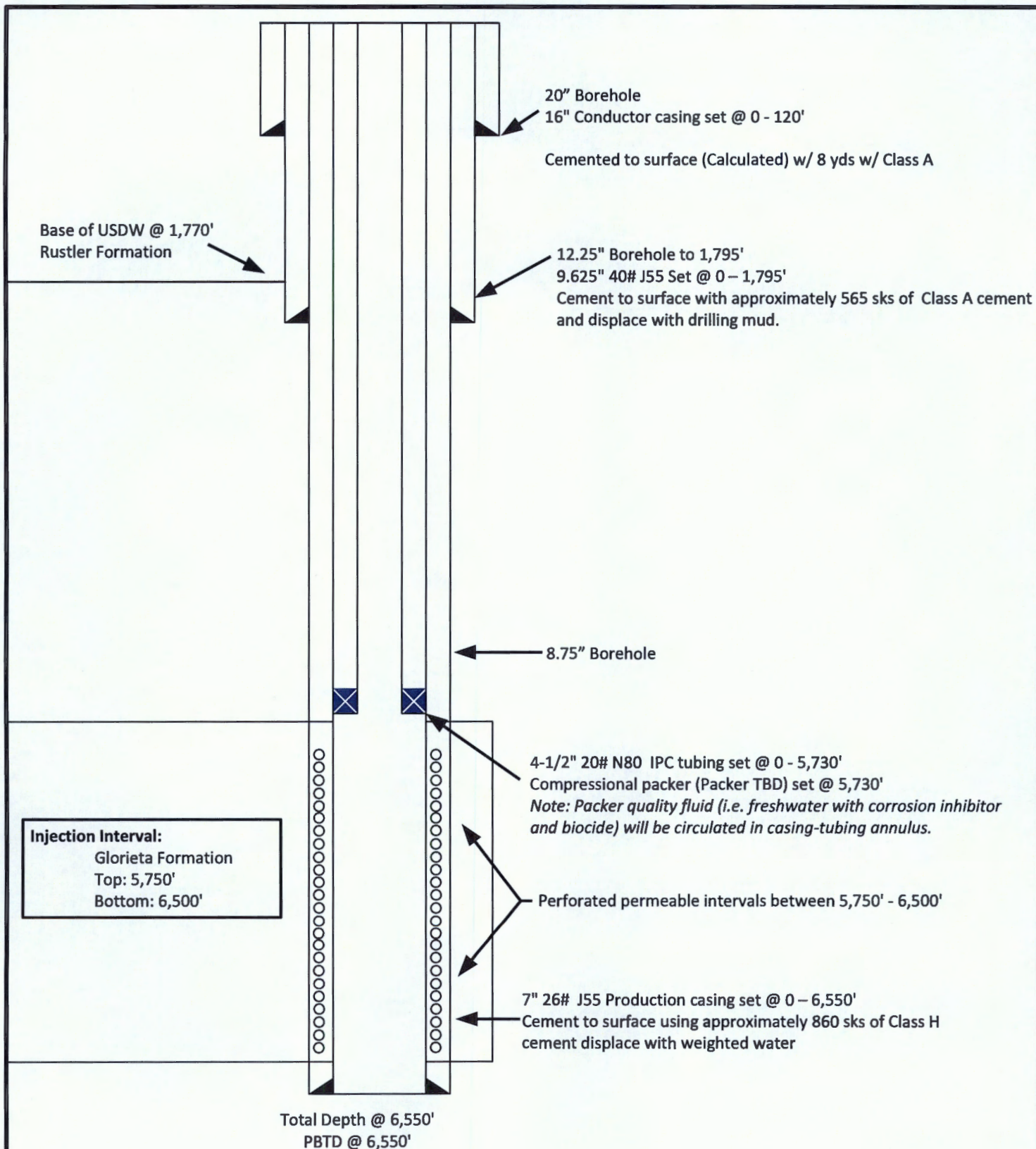
Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

Attachment 6: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

Wellbore Diagram



NOT TO SCALE

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

Prepared by:

ALLCONSULTING

Drawn by: Joshua Ticknor

Project Manager:
Nathan Alleman

Date: 05/30/2019

Goodnight Midstream Permian, LLC
Pudge SWD G 1
Section 10, Twp 22S, Rng 36E
2,043' FNL & 2,504' FEL
Lea County, NM

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

Product Family No. H64630 and H64628

APPLICATION

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

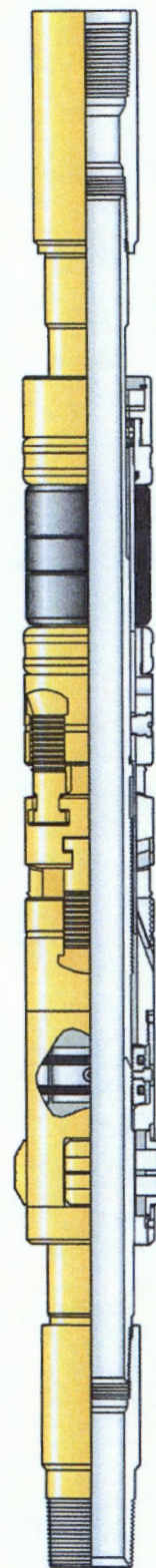
Advantages

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

Accessories

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

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



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

SPECIFICATION GUIDES

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

Casing			Packer				
OD		Weight *	Size	Nom ID		Max Gage Ring OD	
In.	mm	lb/ft		In.	mm	In.	mm
4	101.6	9.5-12.9	41A2	1.500	38.1	3.244	82.4
4-1/2	144.3	21.6-23.6	41A2	1.500	38.1	3.244	82.4
4	101.6	9.5	41A4	1.500	38.1	3.423	112.4
4-1/2	114.3	18.8	41A4	1.500	38.1	3.423	112.4
		13.5-17.7	41B			3.578	90.9
		11.6-13.5	43A2	1.978	50.2	3.786	96.2
		9.5-10.5	43A4			3.786	96.2
5	127.0	15-18	43B	1.978	50.2	4.140	105.2
		11.5-15	43C			4.265	108.3
5-1/2	139.7	26	43C	1.978	50.2	4.265	108.3
		20-23	45A2			4.515	114.7
		15.5-20	45A4			4.656	118.3
		13-15.5	45B			4.796	121.8
6	152.4	26	45B	1.978	50.2	4.796	121.8
		20-23	45C			5.078	129.0
		15-18	45D			5.171	131.3
6-5/8	168.3	34	45E	1.978	50.2	5.421	137.7
		24-32	45F			5.499	139.7
		24	47A2	2.441	62.0	5.671	144.0
		17-24	45G	1.978	50.2	5.796	147.2
7	177.8	17-20	47A4	2.441	62.0	5.827	148.0
		38	47A2	2.441	62.0	5.671	144.0
		32-35	47A4			5.827	148.0
		26-29	47B2			5.983	152.0
		23-26	47B4			6.093	154.8
		17-20	47C2			6.281	159.5
7-5/8	193.7	33.7-39	47C4	2.441	62.0	6.468	164.3
		24-29.7	47D2			6.687	169.9
		20-24	47D4			6.827	173.4
8-5/8	219.1	44-49	49A2	3.500	88.9	7.327	186.1
		32-40	49A4			7.546	191.7
		20-28	49B			7.796	198.0
9-5/8	244.5	47-53.5	51A2	3.500	88.9	8.234	209.1
		40-47	51A4			8.452	214.7
		29.3-36	51B			8.608	218.6

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

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

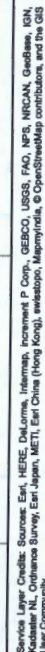
* When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.

Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrievable Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

Attachment 2

Area of Review Information:

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



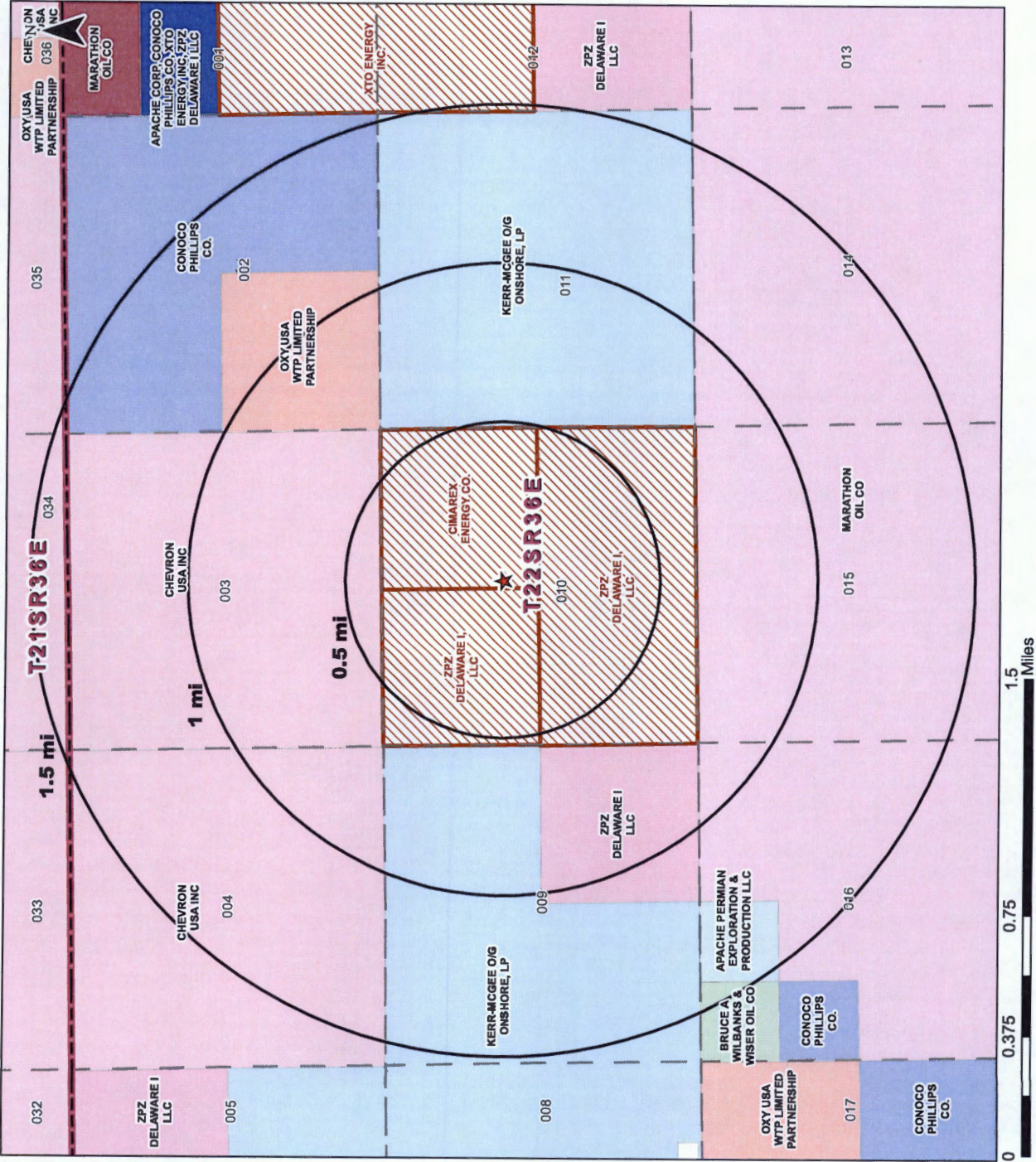
Pudge SWD G 1
Lea County, New Mexico

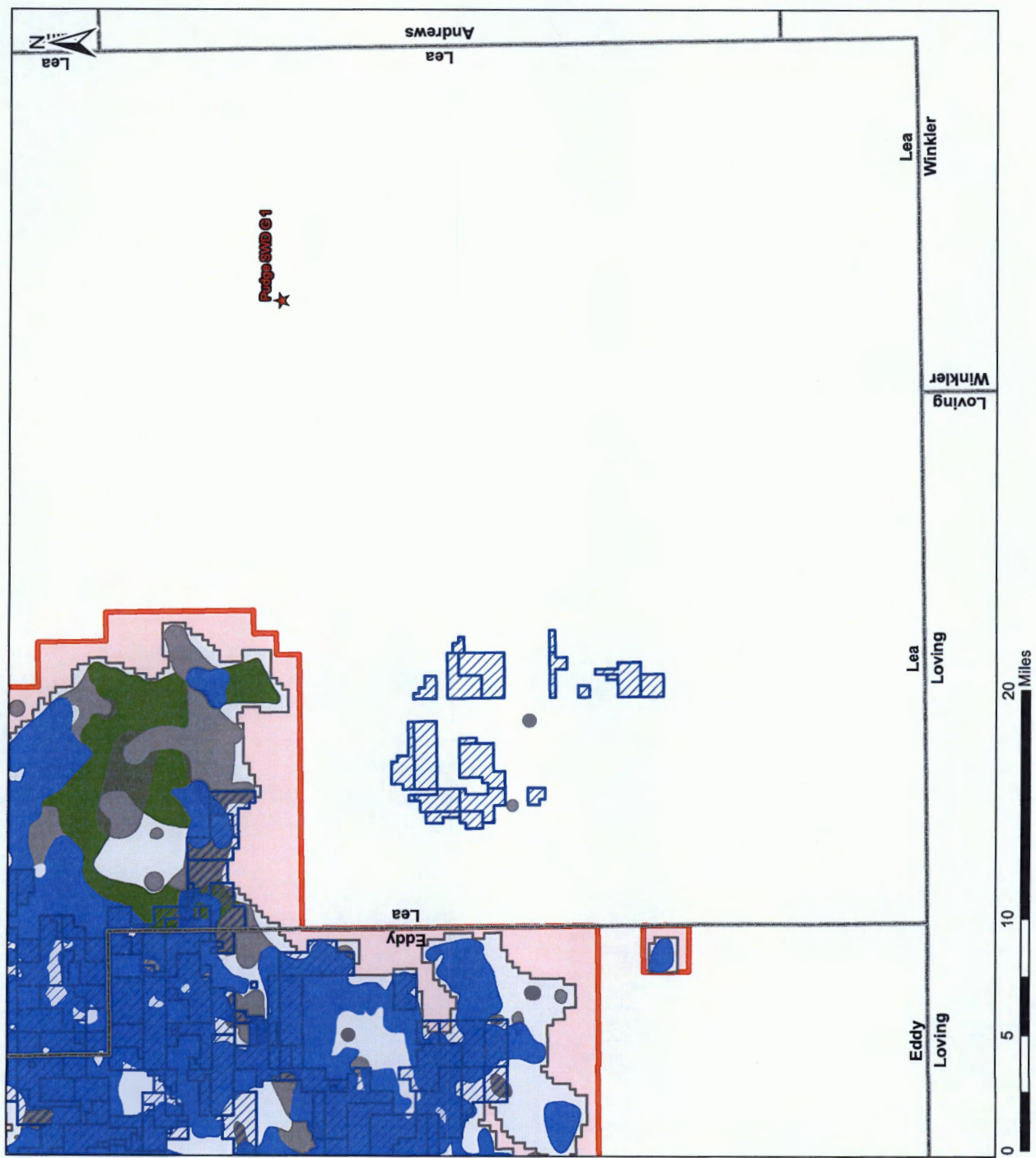
Proj Mgr: Dan Arthur	May 29, 2019
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May 29, 2019

Prepared by:

ALL CONSULTING





Legend

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

Potash Leases Area of Review		
Pudge SWD G 1 Lea County, New Mexico		
Proj Mgr: Dan Arthur	May 30, 2019	Mapped by: Ben Bockelmann
Prepared by: 		

Attachment 3
Source Water Analyses

PRODUCED WATER FROM BONE SPRING, DELAWARE, DEVONIAN, WOLFCAMP

API	SECTION	TOWNSHIP	RANGE	FORMATION	tds mgL	chloride mgL	bicarbonate mgL	sulfate mgL
3002502424	11	20S	34E	BONE SPRING	29436	16720	634	1142
3002502427	12	20S	34E	BONE SPRING	15429			
3002502427	12	20S	34E	BONE SPRING	180701	108300	1016	670
3002502429	12	20S	34E	BONE SPRING	202606	118100	5196	992
3002502429	12	20S	34E	BONE SPRING	121800			
3002502431	12	20S	34E	BONE SPRING	147229	89640	108	1038
30025331696	2	20S	34E	DELAWARE	152064	102148	404	691
3002532105	2	20S	34E	DELAWARE	296822	215237	143	294
3002532466	2	20S	34E	DELAWARE	340838	245270	229	147
3002502427	12	20S	34E	DELAWARE	214787	132700	208	1816
3002502431	12	20S	34E	DEVONIAN	33414	18570	227	1961
3002502432	13	20S	34E	DEVONIAN	45778	26440	1145	729
3002501912	16	16S	34E	WOLFCAMP	164004	102500	4204	1249
3002501922	20	16S	34E	WOLFCAMP	104541	64290	280	541
3002501922	20	16S	34E	WOLFCAMP	104033	64080	268	515
3002501922	20	16S	34E	WOLFCAMP	105175	65570	207	192
3002501925	21	16S	34E	WOLFCAMP	86355	51800	610	665
3002501928	21	16S	34E	WOLFCAMP	119102	73300	227	454
3002501928	21	16S	34E	WOLFCAMP	35422	19170	979	1949
3002501930	22	16S	34E	WOLFCAMP	30015	14800	750	3300
3002501931	22	16S	34E	WOLFCAMP	87680	53000	301	681
3002501933	28	16S	34E	WOLFCAMP	59960	35100	515	1500
3002501933	28	16S	34E	WOLFCAMP	60309	35350	586	1297
3002501940	30	16S	34E	WOLFCAMP	82422	49890	361	787
3002501944	30	16S	34E	WOLFCAMP	83960	51410	418	641
3002520222	27	16S	34E	WOLFCAMP	85457	51020	544	1201
3001542895	2	23S	31E	WOLFCAMP	119472	73173		1036

EXHIBIT F

Attachment 4

Injection Formation Water Analyses

Injection Formation Water Analysis																			
Goodnight Midstream Permian, LLC - Glorieta Formation																			
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Pgsn	Ptseg	County	State	Company	Field	Formation	Tds_mgl	Chloride_mgl	Bicarbonate_mgl	Sulfate_mgl	
V M HENDERSON #002	3002560908	32.455399	-103.1957474	30	21S	37E	A	660N	660E	LEA	NM		BLINEBRY	GLORIETA	138153	81610	744	2735	
APACHE STATE Q #001	3002560616	32.5712776	-103.255394	16	20S	37E	J	1980S	2310E	LEA	NM		MONUMENT	GLORIETA	19087	8250	430	3400	
C H WEIR A #007	3002560673	32.5858192	-103.2114944	12	20S	37E	L	1985S	660W	LEA	NM		SKAGGS	GLORIETA	135670	79600	1680	3100	

Attachment 5

Water Well Map and Well Data



Legend

★ Proposed SWD

NMOSE PODs

Status

● Active (2)

● Unknown (1)

Water Wells Area of Review

Pudge SWD G 1

LEA County, New Mexico

Proj Mgr:
Dan Arthur

May 28, 2019

Mapped by:
Ben Bockelmann

Prepared by:

ALC CONSULTING

Water Well Sampling Rationale						
Goodnight Midstream Permian, LLC - Pudge SWD G 1						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Pudge SWD G 1	CP-01318 POD 1	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0309	Commercial	Yes	Sampled on 6-12-2019. Results are shown below.
Pudge SWD G 1	CP-01318 POD 2	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0310	Commercial	Yes	Sampled on 6-12-2019. Results are shown below.
Pudge SWD G 1	L-11013	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0311	Livestock Watering/ Closed File	No	Transaction has been entered to close this file. This file is no longer in use. See file for CP-1318. Atlee Snyder was unaware of this well.



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

June 20, 2019

DAVID ALLEMAN

ALL CONSULTING, LLC

1718 S. CHEYENNE AVE.

TULSA, OK 74119

RE: DASCO CATTLE CO

Enclosed are the results of analyses for samples received by the laboratory on 06/13/19 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NAReported:
20-Jun-19 09:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01318 - POD # 1	H902049-01	Water	12-Jun-19 16:07	13-Jun-19 08:15
CP - 01318 - POD # 2	H902049-02	Water	12-Jun-19 16:17	13-Jun-19 08:15

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NA

Reported:
20-Jun-19 09:31

CP - 01318 - POD # 1
H902049-01 (Water)

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

Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	234		5.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Chloride*	16.0		4.00	mg/L	1	9061310	AC	18-Jun-19	4500-Cl-B	
Conductivity*	447		1.00	uS/cm	1	9061403	AC	14-Jun-19	120.1	
pH*	7.94		0.100	pH Units	1	9061403	AC	14-Jun-19	150.1	
Resistivity	22.4			Ohms/m	1	9061403	AC	14-Jun-19	120.1	
Sulfate*	40.6		10.0	mg/L	1	9061708	AC	17-Jun-19	375.4	
TDS*	346		5.00	mg/L	1	9061308	AC	14-Jun-19	160.1	
Alkalinity, Total*	192		4.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
TSS*	<2.00		2.00	mg/L	1	9061207	AC	14-Jun-19	160.2	

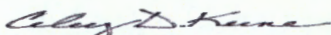
Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Calcium*	35.1		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Hardness as CaCO ₃	135		3.31	mg/L	5	[CALC]	AES	19-Jun-19	2340 B	
Iron*	0.470		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Magnesium*	11.6		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Potassium*	<5.00		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Sodium*	48.0		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Strontium*	0.716		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NA

Reported:
20-Jun-19 09:31

CP - 01318 - POD # 2
H902049-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	239		5.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Chloride*	16.0		4.00	mg/L	1	9061310	AC	18-Jun-19	4500-Cl-B	
Conductivity*	449		1.00	uS/cm	1	9061403	AC	14-Jun-19	120.1	
pH*	7.94		0.100	pH Units	1	9061403	AC	14-Jun-19	150.1	
Resistivity	22.3			Ohms/m	1	9061403	AC	14-Jun-19	120.1	
Sulfate*	37.6		10.0	mg/L	1	9061708	AC	17-Jun-19	375.4	
TDS*	321		5.00	mg/L	1	9061308	AC	14-Jun-19	160.1	
Alkalinity, Total*	196		4.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
TSS*	<2.00		2.00	mg/L	1	9061207	AC	14-Jun-19	160.2	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Calcium*	38.5		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Hardness as CaCO3	149		3.31	mg/L	5	[CALC]	AES	19-Jun-19	2340 B	
Iron*	0.355		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Magnesium*	12.8		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Potassium*	<5.00		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Sodium*	52.4		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Strontium*	0.789		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NA

Reported:
20-Jun-19 09:31

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%RBC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9061207 - Filtration
Blank (9061207-BLK1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TSS ND 2.00 mg/L

Duplicate (9061207-DUP1)

Source: H902002-01

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TSS 265 2.00 mg/L 218 19.5 52.7

Batch 9061308 - Filtration
Blank (9061308-BLK1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS ND 5.00 mg/L

LCS (9061308-BS1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS 436 mg/L 527 82.7 80-120

Duplicate (9061308-DUP1)

Source: H902024-03

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS 436 5.00 mg/L 439 0.686 20

Batch 9061310 - General Prep - Wet Chem
Blank (9061310-BLK1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride ND 4.00 mg/L

LCS (9061310-BS1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride 96.0 4.00 mg/L 100 96.0 80-120

LCS Dup (9061310-BSD1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride 100 4.00 mg/L 100 100 80-120 4.08 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NA

Reported:
20-Jun-19 09:31

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9061403 - General Prep - Wet Chem
LCS (9061403-BS1)

Prepared & Analyzed: 14-Jun-19

pH	7.09		pH Units	7.00		101	90-110			
Conductivity	45800		uS/cm	50000		91.6	80-120			

Duplicate (9061403-DUP1)

Source: H902047-01

Prepared & Analyzed: 14-Jun-19

pH	7.48	0.100	pH Units	7.52				0.533	20	
Conductivity	7110	1.00	uS/cm	7170				0.840	20	
Resistivity	1.41		Ohms/m	1.39				0.840	20	

Batch 9061405 - General Prep - Wet Chem
Blank (9061405-BLK1)

Prepared & Analyzed: 14-Jun-19

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (9061405-BS1)

Prepared & Analyzed: 14-Jun-19

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

LCS Dup (9061405-BSD1)

Prepared & Analyzed: 14-Jun-19

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	4.02	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	3.92	20	

Batch 9061708 - General Prep - Wet Chem
Blank (9061708-BLK1)

Prepared & Analyzed: 17-Jun-19

Sulfate	ND	10.0	mg/L							
---------	----	------	------	--	--	--	--	--	--	--

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NAReported:
20-Jun-19 09:31**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9061708 - General Prep - Wet Chem										
LCS (9061708-BS1)				Prepared & Analyzed: 17-Jun-19						
Sulfate	16.2	10.0	mg/L	20.0		81.2	80-120			
LCS Dup (9061708-BSD1)				Prepared & Analyzed: 17-Jun-19						
Sulfate	16.1	10.0	mg/L	20.0		80.4	80-120	1.11	20	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119

Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NA

Reported:
20-Jun-19 09:31

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B906147 - Total Rec. 200.7/200.8/200.2
Blank (B906147-BLK1)

Prepared: 17-Jun-19 Analyzed: 19-Jun-19

Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							

LCS (B906147-BS1)

Prepared: 17-Jun-19 Analyzed: 19-Jun-19

Strontium	4.26	0.100	mg/L	4.00		106	85-115			
Sodium	3.63	1.00	mg/L	3.24		112	85-115			
Potassium	8.34	1.00	mg/L	8.00		104	85-115			
Magnesium	20.2	0.100	mg/L	20.0		101	85-115			
Iron	4.05	0.050	mg/L	4.00		101	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			
Barium	2.07	0.050	mg/L	2.00		104	85-115			

LCS Dup (B906147-BSD1)

Prepared: 17-Jun-19 Analyzed: 19-Jun-19

Potassium	8.19	1.00	mg/L	8.00		102	85-115	1.81	20	
Barium	2.03	0.050	mg/L	2.00		101	85-115	2.12	20	
Iron	3.99	0.050	mg/L	4.00		99.7	85-115	1.65	20	
Sodium	3.48	1.00	mg/L	3.24		107	85-115	4.43	20	
Strontium	4.19	0.100	mg/L	4.00		105	85-115	1.64	20	
Calcium	4.04	0.100	mg/L	4.00		101	85-115	2.61	20	
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115	1.67	20	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

Attachment 7

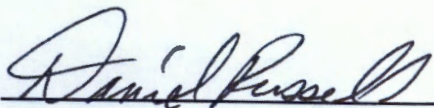
Public Notice Affidavit and Notice of Application Confirmations

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

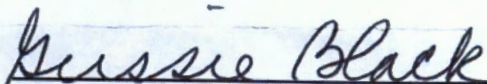
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

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



Publisher

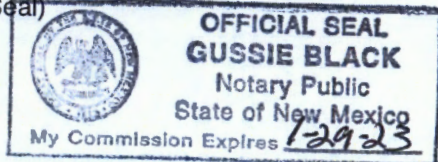
Sworn and subscribed to before me this
8th day of June 2019.



Business Manager

My commission expires
January 29, 2023

(Seal)



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

LEGAL	LEGAL
LEGAL NOTICE JUNE 8, 2019	
APPLICATION FOR AUTHORIZATION TO INJECT	
NOTICE IS HEREBY GIVEN: That Goodnight Midstream, 5910 N Central Expressway, Suite 850, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:	
PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.	
WELL NAME AND LOCATION: Pudge SWD G 1 SW 1/4 NE 1/4, Section 10, Township 22S, Range 36E 2.043' FNL & 2.504' FEL Lea County, NM	
NAME AND DEPTH OF DISPOSAL ZONE: Giorieta (5,750' - 6,500')	
EXPECTED MAXIMUM INJECTION RATE: 20,000 Bbls/day	
EXPECTED MAXIMUM INJECTION PRESSURE: 1,150 psi (surface)	
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.	
Additional information may be obtained by contacting Nate Alleman at 918-382-7581. #34266	

67115320

00229393

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

Pudge SWD G 1 - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
Landowner				
Dasco Cattle Company (Atlee Snyder)	P.O. Box 727	Hobbs	NM	88241
OCD District				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
Leasehold Operators				
Apache Corporation	303 Vet Airpark Lane, Suite 3000	Midland	TX	79705
Chevron USA Inc.	6301 Deauville	Midland	TX	79706
Cimarex Energy Company	600 N. Marienfeld Street Suite 600	Midland	TX	79701
Commision of Public Lands - State Land Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Kerr-McGee OG Onshore LP	P.O. Box 867	Andrews	TX	79714
Special Energy Corp.	P.O. Box 369	Stillwater	OK	74076
ZPZ Delaware I, LLC	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
Notes:				

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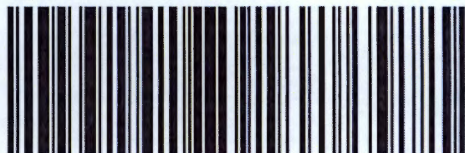
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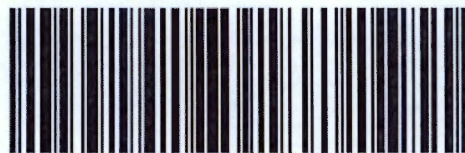
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Commission of Public Lands
State Land Office
310 Old Santa Fe Trail
Santa Fe NM 87501-2708

ZIP Delaware I LLC
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