

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

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Goodnight Midstream Permian, LLC 5910 N Central Expressway, Suite 850, Dallas, TX 75206		OGRID Number 372311
		API Number 30-025-50079
Property Code 332748	Property Name Pedro SWD	Well No. 1 KZ

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	28	21-S	36-E		1045	SOUTH	1067	EAST	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
-	-	-	-		-	-	-	-	-

9. Pool Information

SWD-2391

Pool Name SWD; SAN ANDRES - Glorieta	Pool Code 96127 KZ
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Additional Well Information

Work Type N	Well Type S	Cable/Rotary R	Lease Type Private Surface/ Private Minerals	Ground Level Elevation 3,521.2'
Multiple No	Proposed Depth 6,480	Formation San Andres - Glorieta	Contractor TBD	Spud Date Upon Approval
Depth to Ground water 183' (CP-01852-POD 1)	Distance from nearest fresh water well 8,844 (CP-01852 - POD 1)	Distance to nearest surface water 13,571' (Northeast)		

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC KZ
Surface	14.75"	13.375"	68.0 lb/ft	1,500'	350	Surface
Intermediate 1	12.25"	9.625"	53.5 lb/ft	6,480'	2,170	Surface
Tubing	N/A	5.5"	Composite	4,330'	N/A	N/A

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular, Pipe & Blind/Shear Rams	3,000 psi	3,000 psi	Hydril, Cameron or Equivalent

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: <i>Nathan Alleman</i>		OIL CONSERVATION DIVISION	
Printed name: Nate Alleman		Approved By:	
Title: Regulatory Specialist - ALL Consulting		Title:	
E-mail Address: nalleman@all-llc.com		Approved Date:	
Date: 8/24/2022		Expiration Date:	
Phone: 918-237-0559		Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-50079	Pool Code 96127	Pool Name SWD; San Andres-Glorieta
Property Code 332748	Property Name PEDRO SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3521.2'



Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	21-S	36-E		1045	SOUTH	1067	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill		Consolidated Code		Order No.	SWD-2391			

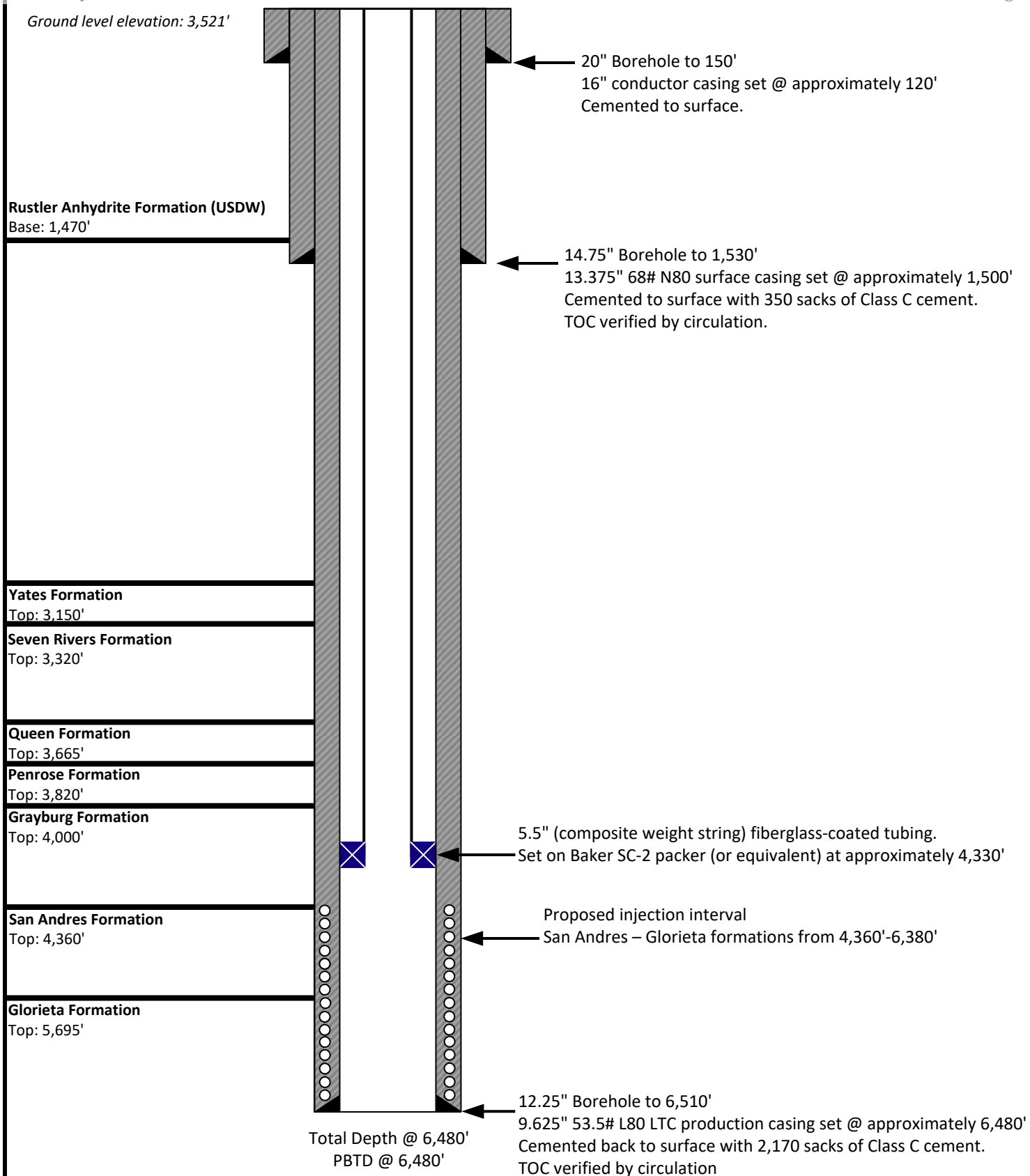
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW CORNER NMSP-E (NAD 83) N.(Y): = 531629.2' E.(X): = 866562.6' LAT.: = 32.4570978° N LON.: = 103.2789405° W NMSP-E (NAD 27) N.(Y): = 531567.7' E.(X): = 825378.4' LAT.: = 32.4569726° N LON.: = 103.2784679° W	NORTH QUARTER CORNER NMSP-E (NAD 83) N.(Y): = 531659.8' E.(X): = 869191.7' LAT.: = 32.4571102° N LON.: = 103.2704171° W NMSP-E (NAD 27) N.(Y): = 531598.3' E.(X): = 828007.4' LAT.: = 32.4569850° N LON.: = 103.2699449° W	NE CORNER NMSP-E (NAD 83) N.(Y): = 531694.8' E.(X): = 871848.7' LAT.: = 32.4571335° N LON.: = 103.2618034° W NMSP-E (NAD 27) N.(Y): = 531633.3' E.(X): = 830664.2' LAT.: = 32.4570082° N LON.: = 103.2613316° W	OPERATOR CERTIFICATION <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">  Signature </div> <div style="text-align: right;"> 08/17/2020 Date </div> </div> <div style="margin-top: 10px;"> Nate Alleman Print Name </div> <div style="margin-top: 10px;"> nalleman@all-llc.com E-mail Address </div>
WEST QUARTER CORNER NMSP-E (NAD 83) N.(Y): = 528988.9' E.(X): = 866589.5' LAT.: = 32.4498405° N LON.: = 103.2789378° W NMSP-E (NAD 27) N.(Y): = 528927.4' E.(X): = 825405.2' LAT.: = 32.4497153° N LON.: = 103.2784654° W	EAST QUARTER CORNER NMSP-E (NAD 83) N.(Y): = 529050.3' E.(X): = 871873.8' LAT.: = 32.4498647° N LON.: = 103.2618080° W NMSP-E (NAD 27) N.(Y): = 528988.8' E.(X): = 830689.3' LAT.: = 32.4497394° N LON.: = 103.2613364° W	SURVEYORS CERTIFICATION <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center; margin-top: 10px;"> JUNE 25, 2020 Date of Survey </div> <div style="margin-top: 10px;"> Signature and Seal of Professional Surveyor: <div style="float: right; text-align: right;">  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> Job No.: WTC 54171 </div> <div> Draft: FH! </div> </div>	

SHL:
 1045' FSL, 1067' FEL
 GR. ELEV. 3521.2'
NMSP-E (NAD 83)
 N.(Y): = 527451.6'
 E.(X): = 870821.9'
 LAT.: = 32.4455000° N
 LON.: = 103.2652694° W
NMSP-E (NAD 27)
 N.(Y): = 527390.2'
 E.(X): = 829637.4'
 LAT.: = 32.4453747° N
 LON.: = 103.2647978° W

SOUTH QUARTER CORNER
NMSP-E (NAD 83)
 N.(Y): = 526388.9'
 E.(X): = 869258.2'
 LAT.: = 32.4426223° N
 LON.: = 103.2703718° W
NMSP-E (NAD 27)
 N.(Y): = 526327.6'
 E.(X): = 828073.8'
 LAT.: = 32.4424970° N
 LON.: = 103.2698999° W

SOUTHEAST CORNER
NMSP-E (NAD 83)
 N.(Y): = 526418.3'
 E.(X): = 871899.4'
 LAT.: = 32.4426305° N
 LON.: = 103.2618106° W
NMSP-E (NAD 27)
 N.(Y): = 526356.9'
 E.(X): = 830714.9'
 LAT.: = 32.4425051° N
 LON.: = 103.2613392° W



NOT TO SCALE

Cement volumes include 25% excess.

Proposed Maximum Injection Rate: 42,000 BPD

Prepared by:
ALLCONSULTING

Prepared for:
GOODNIGHT
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:
Dan Arthur

Date: 7/30/2020

Goodnight Midstream Permian, LLC

Pedro SWD #1

API# TBD

1,045' FSL & 1,067' FEL, Unit M of Sec 28-T21S-R36E

Lea County, New Mexico

Goodnight Midstream Permian, LLC**Pedro SWD 1****1,045' FSL & 1,067' FEL****Section 28, Twp 21S, Rng 36E****Lea County, New Mexico****Proposed Drilling Plan for New SWD****1. Geologic Information:** Permian geologic formations

The Permian San Andres Formation and Glorieta Formation consist of interbedded carbonates rocks including dolomites, siltstones, and sands. Several thick sections of porous and permeable intervals are present within these formations in the area. Geologic information and depths of formation tops were obtained from surrounding wells within the area of interest. Total depth is 100 feet below the base of the Glorieta Formation. The base of the Rustler Formation and top of the Salado Formation is at approximately 1,470 feet plus 25 feet equals 1,495 feet to set bottom of the surface casing to protect the deepest underground sources of drinking water (USDWs).

Estimated Formation Top Depths:

Rustler - Base	1,470'
Salado	1,495'
Grayburg	4,000'
San Andres	4,360'
Glorieta	5,695
Total Depth	6,480'

2. Proposed Drilling Plan:

- a. Move in equipment, excavate cellar and install tinhorn, and then drill conductor hole and set and cement in conductor casing.
- b. Mobilize drilling rig and rig up drilling rig and associated equipment onsite. Set up H2S wind direction indicators and monitors; brief all personnel on Emergency Evacuation Routes and ALL Consulting Site Health and Safety Plan.
- c. Everyone onsite will have stop work authority.
- d. Perform Job Safety Analysis (JSA) meetings before each drilling shift change and prior to any subcontractor performing any task on the location. All equipment should be inspected daily and repaired or replaced as required.
- e. Drilling operations commence.
- f. Have mud logger monitoring returns. All drill cuttings and waste hauled to specified waste facility.
- g. After drilling the surface hole and setting and cementing the casing; if hydrogen sulfide (H2S) levels are detected greater than 10ppm, implement H2S Plan by ceasing operations, shut in well, employ H2S safety trailer and personnel safety devices, install flare line, etc. – refer to plan.
- h. Proper secondary containment needs to be in place. Spills need to be cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify Oil Conservation Division (OCD) within 24 hours. Remediation started as soon as possible if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.

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i. Sundry forms need to be completed and filed as required by OCD.

3. **Proposed Casing Program:** Casing designed as follows:

STRING	HOLE SZ	DEPTH	CSG SZ	COND	WT/GRD	CLLPS/BRS	TNSN
						(Minimum Safety Factors)	
Conductor	20"	0-120'	16.0"	n/a	n/a	n/a	n/a
Surface	14-3/4"	0-1,500'	13-3/8"	New	68# N80	1.125/1.1	1.8
Production	12-1/4"	0-6,480'	9-5/8"	New	53.5# L80	1.125/1.1	1.8
Tubing	n/a	0-4,330'	5-1/2"	New	26# N80	1.125/1.1	1.8

Notes:

- ✓ A deviation survey will be conducted and submitted with the Well Completion Report (Form C-105)
- ✓ While running all casing strings, the pipe will be kept a minimum of 1/3 full at all times to avoid approaching the collapse pressure of casing.
- ✓ Based on well completions and geophysical logs on adjacent wells, 9-5/8" casing shoe is expected to be set at 6,480'. Similarly, total depth will be approximately 6,480' as determined by open hole geophysical logging and after suitable porosity and low resistivity values have been identified. Maximum perforated interval is anticipated to be from 4,360' to 6,380', but may change based upon actual wellbore determinations. A sundry notice will document such events as a C-105 well completion report filed within 60 days.

4. **Proposed Cementing Plans:**

Surface Casing: Cemented with approximately 350 sacks of Class C cement with 25% excess and circulated to the surface.

Production Casing: Cement with approximately 2,170 sacks of Class C cement with 25% excess and cement back to surface inside the 13-3/8" surface casing string. Cement top to be confirmed by cement bond logging after cement has cured to appropriate compressive strength.

5. **Pressure Control:** All Blowout Preventers (BOP) and related equipment will comply with well control requirements as described OCD Rules and Regulations and API RP 53, Section 17. The BOP will be either a Hydril, Cameron or equivalent. Minimum working pressure of the BOP and related equipment required for the drilling shall be 500 psi. The maximum working pressure is anticipated at 3,000 psig and the test pressure will be 3,000 psig. The OCD Hobbs district office shall be notified a minimum of 4 hours in advance for a representative to witness all BOP pressure tests. The test shall be performed by an independent service company utilizing a test plug (no cup or J-packer). The results of the test shall be recorded on a calibrated test chart submitted to the OCD district office. BOP testing shall be conducted at:

- a. Installation;
- b. After equipment or configuration changes;

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- c. At 30 days from any previous test, and;
- d. Any time operations warrant, such as well conditions.

The BOP specifications to be used during the various phases of the drilling and casing installation are included in the table below:

Casing Size	Annular Preventer	Rams
16"	26-3/4" – 3M, with diverter	None
13-3/8"	11" – 5M	Pipe & Blind/Shear – 5M
9-5/8"	11" – 5M	Pipe & Blind/Shear – 5M

A diagram showing the representative BOP setup is included as Attachment 1.

6. **Auxiliary Well Control and Monitoring:** Hydraulic remote BOP operation and mudlogging to monitor returns.

7. **Mud Program and Monitoring:** Mud will be balanced for all operations with adjustment as needed based on actual wellbore conditions and is proposed as follows:

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	pH
0-1,500'	FW Spud Mud	8.5-9.2	70-40	20	12	NC	10.0
1,50'-6,480'	Brine Mud	9.2-10.0	28-32	NC	NC	NC	10.0

Mud and all cuttings monitored with all drill cuttings recovered for disposal. Returns shall be visually and electronically monitored. In the event of H₂S, mud shall be adjusted appropriately by weight and H₂S scavengers.

8. **H₂S Safety:** This well and related facilities are not expected to have H₂S releases. However, there may be H₂S in the area. There are no private residences or public facilities in the area but a contingency plan has been developed. Goodnight Midstream Permian, LLC will have a company representative available to personnel throughout all operations. If H₂S levels greater than 10ppm are detected or suspected, the H₂S Contingency Plan will be implemented at the appropriate level.

H₂S Safety – There is a low risk of H₂S in this area. The operator will comply with the provisions of New Mexico Administrative Code (NMAC) 19.15.11 and Bureau of Land Management (BLM) Onshore Oil and Gas Order #6.

- a. Monitoring – all personnel will wear monitoring devices.
- b. Warning Sign – a highly visible H₂S warning sign will be placed for obvious viewing at the vehicular entrance point onto location.
- c. Wind Detection – two (2) wind direction socks will be placed on location.
- d. Communications – will be via cellular phones and/or radios located within reach of the driller, the rig floor and safety trailer when applicable.
- e. Alarms – will be located at the rig floor, circulating pump/reverse unit area and the flare line and will be set for visual (red flashing light) at 15 ppm and visual and audible (115 decibel siren) at 20 ppm.
- f. Mud program – If H₂S levels require, proper mud weight, safe drilling practices and H₂S scavengers will minimize potential hazards.

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- g. Metallurgy – all tubulars, pressure control equipment, flowlines, valves, manifolds and related equipment will be rated for H₂S service if required.

The Goodnight Midstream Permian, LLC H₂S Contingency Plan will be implemented if levels greater than 10ppm H₂S are detected.

- 9. **Geophysical Logging and Testing:** Goodnight Midstream Permian, LLC expects to run:

- a. Geophysical logging through the proposed injection interval will ensure the target interval remains within the San Andres and Glorieta formations.
- b. An open hole gamma ray, SP, compensated density- neutron and dual resistivity log suite will be run from total depth to approximately 525'.
- c. A cement bond log with gamma ray and collar locator will be run (Radial, CET or equivalent) on the production casing.
- d. No cores or drill stem tests will be conducted. (The well may potentially be step rate tested in the future if additional injection pressures are required.)

- 10. **Potential Hazards:** H₂S is a potential hazard. No abnormal pressure or temperatures are anticipated, but drilling operations will be prepared in the event that those conditions occur.

No loss of circulation is expected to occur with the exception of drilling into the target disposal zone. All onsite personnel will be familiar with the safe operation of the equipment being used to drill this well. The maximum anticipated bottom-hole pressure is 2500 psig and the maximum anticipated bottom-hole temperature is 210°F.

- 11. **Waste Disposal Management:** All drill cuttings, fluids, and other solid wastes associated with drilling and completion operations will be transported to a solid waste facility and commercial Class IID injection operation that has been approved and permitted by the Environmental Bureau of the OCD.

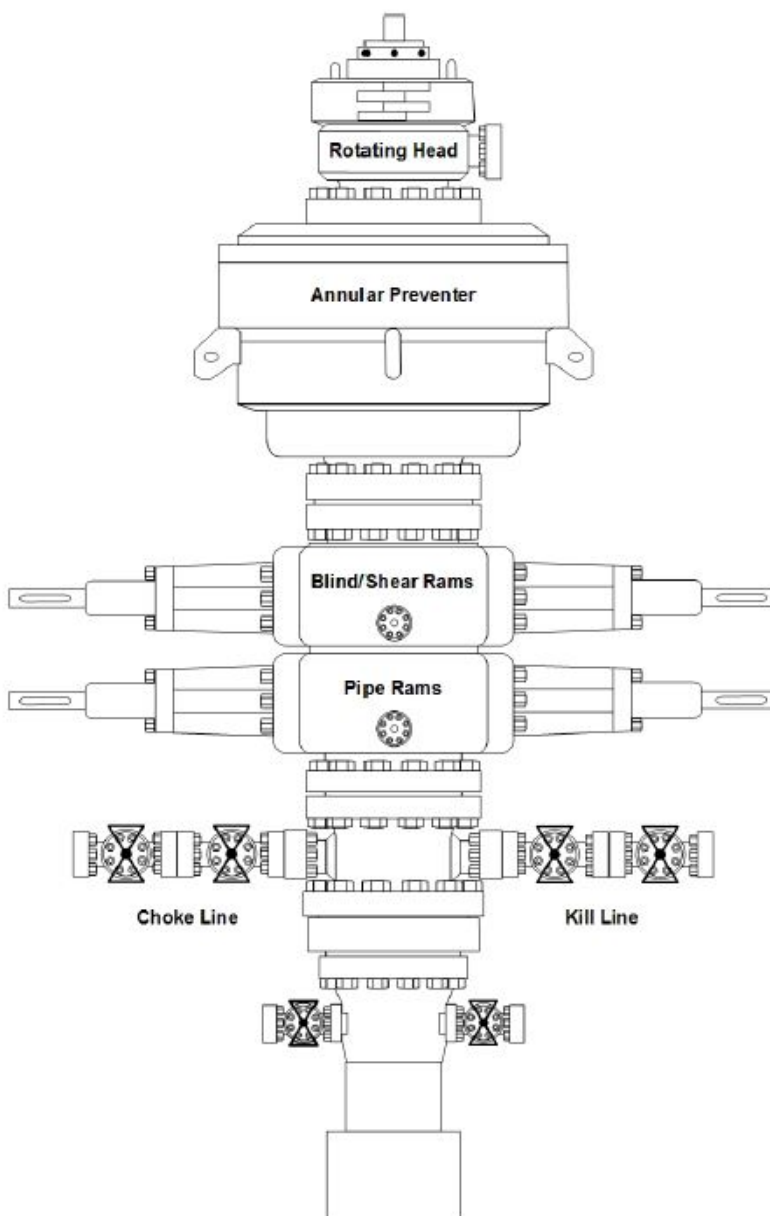
- 12. **Anticipated Drilling Commencement Date:** Upon approval of the permit for saltwater disposal (SWD), operations would begin within 30 days based on rig availability. Drilling and completion of the well will take approximately six to seven weeks. Installation of the surface facility such as the secondary containment and tank battery, plumbing, injection pump(s), and other treatment and filtering associated equipment would be occurring after the well is completed. In any event, it is not expected for the construction of the surface facility of the project to last more than 90 days, pending on availability of subcontractors and equipment lead times.

- 13. **Completion for Salt Water Disposal:** Subsequent to SWD permit issuance from OCD and prior to commencing any work, a Notice of Intent (NOI) sundry will be submitted to complete the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure testing per BLM and OCD test procedures (including appropriate OCD notification). The tubing and packer will be set at a depth of approximately 4,330 feet and the casing/tubing annulus will be filled with freshwater and corrosion inhibitor and pressure tested to the required test pressure using the standard annulus pressure test. Anticipated daily maximum volume is 42,000 barrels of water per day (bpd) and average of 29,500 bpd at a maximum surface injection pressure of 872 psig (0.2 psi/ft to the top of the injection interval).

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If satisfactory disposals rates cannot be achieved at default pressure of .02 psi/ft, Goodnight Midstream Permian, LLC will conduct a step-rate test and apply for an injection pressure increase 50 psig below actual parting pressure achieved during the step-rate testing.

Attachment 1 – Representative BOP Setup



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 93022

COMMENTS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 93022
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

COMMENTS

Created By	Comment	Comment Date
pkautz	Reviewed by Joseph Thompson UIC Group	4/28/2022

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 93022

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 93022
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	SURFACE CASING MUST BE SET 25 FEET BELOW TOP OF RUSTLER ANHYDRITE	4/15/2022
pkautz	Notify OCD 24 hours prior to casing & cement	4/15/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	4/15/2022
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	4/15/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	4/15/2022
pkautz	Cement is required to circulate on both surface and production strings of casing	4/15/2022