

Submit 1 Copy To Appropriate District Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. <b>30-025-46398</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Scully SWD
8. Well Number 1
9. OGRID Number 372311
10. Pool name or Wildcat SWD; San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,589' GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD	
2. Name of Operator Goodnight Midstream Permian, LLC	
3. Address of Operator 5910 N. Central Expressway, Suite 850, Dallas Tx 75206	
4. Well Location Unit Letter <u>F</u> : <u>1724</u> feet from the <u>NORTH</u> line and <u>1607</u> feet from the <u>WEST</u> line Section <u>4</u> Township <u>22S</u> Range <u>36E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,589' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: revise drilling and casing plan <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Revise surface casing depth as shown in the attached Well Bore Diagram and Drilling Plan.

Spud Date:

Rig Release Date:

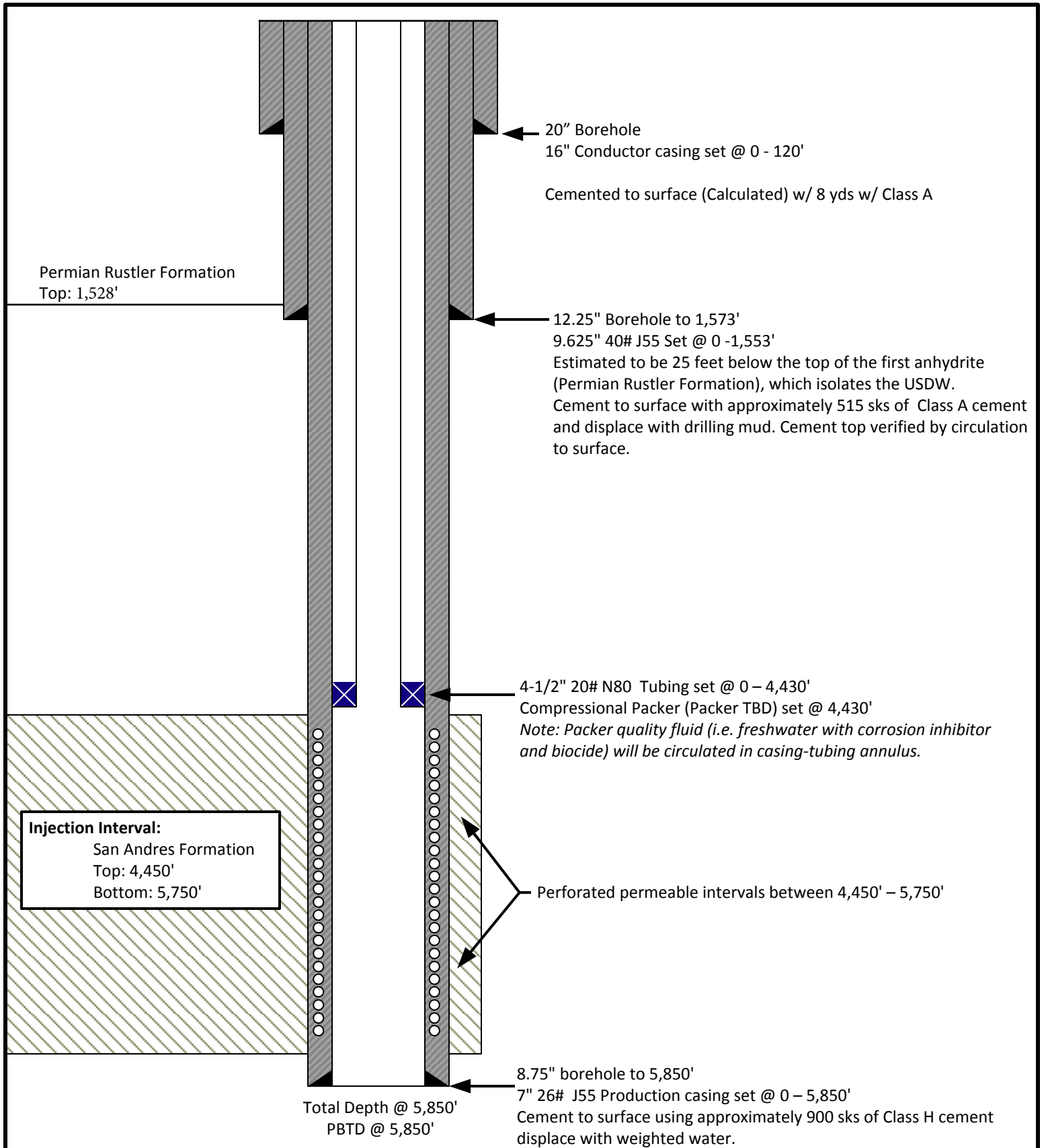
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Nathan Alleman TITLE Sr. Regulatory Specialist DATE 9/26/2019

Type or print name Nathan Alleman E-mail address: Nalleman@all-llc.com PHONE: 918-382-7581

**For State Use Only**

APPROVED BY: [Signature] TITLE  DATE 09/30/2019  
Conditions of Approval (if any):



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

NOT TO SCALE

Prepared by:

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 09/19/2019

Goodnight Midstream Permian, LLC  
Scully SWD 1  
Section 4, Twp 22S, Rng 36E  
1,724' FNL & 1,607 FWL  
Lea County, NM

**ALL**CONSULTING

# **Goodnight Midstream Permian LLC**

**Scully SWD 1**

**1,724' FNL & 1,607' FWL**

**Section 4, Twp 22S, Rng 36E**

**Lea County, New Mexico**

## **Proposed Drilling Plan for New SWD**

### **1. Geologic Information:** Permian geologic formations

The Middle Permian San Andres Formation consist of interbedded carbonates rocks including dolomites and limestones. Several thick sections of porous and permeable intervals are present within this formation in the area. Geologic information and depths of formation tops were obtained from surrounding wells within the area of interest. To protect the deepest underground sources of drinking water (USDWs), the bottom of the surface casing will be set at an approximate depth of 1,553' estimated to be 25 feet below the top of the first anhydrite (Permian Rustler Formation), which isolates the USDW.

#### **Estimated Formation Top Depths:**

Rustler	1,528'
Grayburg	3,945'
San Andres	4,450'
Total Depth	5,850'

### **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.

## **Proposed Scully SWD 1 Drilling Plan**

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	12.25"	0-1,553'	9.625"	New	40# J55	1.125/1.1	1.8
Production	8.75"	0-5,850'	7.0"	New	26# J55	1.125/1.1	1.8
Tubing	NA	0-4,430'	4.5"	New	20# N80 IPC	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, 7.0" casing shoe is expected to be set at 5,850'. Similarly, total depth will be approximately 5,850' as determined by open hole geophysical logging and after suitable porosity and low resistivity values have been identified. Maximum injection interval is anticipated to be from 4,450' to 5,850', 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 515 sacks of Class A cement with 25% excess and circulated to the surface.

**Production Casing:** Cement with approximately 900 sacks of Class H cement with 25% excess and cement back to surface inside the 9-5/8" 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 of 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;

## **Proposed Scully SWD 1 Drilling Plan**

- 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
9.625"	11" – 5M	Pipe & Blind/Shear – 5M
7.0"	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
0-1,553'	FW Spud Mud	8.5-9.2	70-40	20	12	NC	10.0
1,553'-5,850'	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 H<sub>2</sub>S, mud shall be adjusted appropriately by weight and H<sub>2</sub>S scavengers.

8. **H<sub>2</sub>S Safety:** This well and related facilities are not expected to have H<sub>2</sub>S releases. However, there may be H<sub>2</sub>S 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 H<sub>2</sub>S levels greater than 10ppm are detected or suspected, the H<sub>2</sub>S Contingency Plan will be implemented at the appropriate level.

H<sub>2</sub>S Safety – There is a low risk of H<sub>2</sub>S 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 H<sub>2</sub>S 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.

## **Proposed Scully SWD 1 Drilling Plan**

- f. Mud program – If H<sub>2</sub>S levels require, proper mud weight, safe drilling practices and H<sub>2</sub>S scavengers will minimize potential hazards.
- g. Metallurgy – all tubulars, pressure control equipment, flowlines, valves, manifolds and related equipment will be rated for H<sub>2</sub>S service if required.

***The Goodnight Midstream Permian, LLC H<sub>2</sub>S Contingency Plan will be implemented if levels greater than 10ppm H<sub>2</sub>S 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.
  - b. An open hole gamma ray, SP, compensated density- neutron and dual resistivity log suite will be run from total depth to approximately 1500’.
  - 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:** H<sub>2</sub>S 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 4,430 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 35,000 barrels of water per day (bpd) and average of 17,500 bpd at a maximum surface injection pressure of 890 psig (0.2 psi/ft to the top of the injection interval).

## **Proposed Scully SWD 1 Drilling Plan**

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**

