Received by OCD; 8/11/2025 8:01:13 AM State of New Mexico Form C Phone: (505) 476-3441 Revised July 18, 2013 Energy, Minerals and Natural Resources General Information WELL API NO. Phone: (505) 629-6116 30-015-38972 OIL CONSERVATION DIVISION Online Phone Directory Visit: 5. Indicate Type of Lease https://www.emnrd.nm.gov/ocd/contact-us/ 1220 South St. Francis Dr. STATE 🔀 FEE Santa Fe, NM 87505 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name (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 **EMPIRE STATE SWD 9** PROPOSALS.) 8. Well Number 1. Type of Well: Oil Well Gas Well Other SWD 9. OGRID Number 2. Name of Operator SPUR ENERGY PARTNERS LLC 328947 3. Address of Operator 10. Pool name or Wildcat 9655 KATY FREEWAY, SUITE 500, HOUSTON, TX 77024 SWD: CISCO 4. Well Location Unit Letter : 660 feet from the 540 NORTH line and feet from the EAST Section Township 17S Range NMPM County 09 **EDDY** 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3582' GR 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK □ PLUG AND ABANDON REMEDIAL WORK ALTERING CASING □ COMMENCE DRILLING OPNS. P AND A TEMPORARILY ABANDON **CHANGE PLANS** MULTIPLE COMPL CASING/CEMENT JOB PULL OR ALTER CASING DOWNHOLE COMMINGLE П **CLOSED-LOOP SYSTEM** PERFORM SRT OTHER: X OTHER: 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. Spur Energy Partners LLC requests to run a step rate test to determine if injection pressure can be increased without fracturing the formation. Please find procedure and wellbore diagram attached for your review.

Rig Release Date:

TITLE

TITLE REGULATORY DIRECTOR

E-mail address: SCHAPMAN@SPURENERGY.COM

DATE

DATE

08/11/2025

PHONE: 832-930-8613

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

Sarah Chapman

Conditions of Approval (if any):

Type or print name SARAH CHAPMAN

Spud Date:

SIGNATURE

For State Use Only

APPROVED BY:

Empire State SWD 9 #4

Step Rate Test

Hunter Spragg - 817.914.0987

AFE - TBD



OBJECTIVES

Perform a step rate test on the Empire State SWD 9 #4 to determine if injection pressure can be raised without fracturing the formation. 45-minute steps chosen due to lower permeability but a large open-hole interval of 420'. Also, stabilization has been seen within 30 minutes in the SRTs that have been performed on offset wells with similar interval lengths and permeability.

- Estimated Frac tank set and fill 9/1/2025
- Estimated BHP Bomb set date 9/2/2025
- Estimated Well SI date 9/4/2024
- Estimated SRT date 9/6/2025
- Estimated Pressure Bomb retrieval date 9/7/2025

Well Information				
Surface Location (NAD83)	Latitude: 32.8546448°/ Longitude: -104.0730438°			
Ground Elevation / KB	3,582' / 18.5'			
API Number	30-015-38972			
AFE Number	TBD			

Wellbore Details			
TVD / PBTD	TVD: 8,805' / PBTD: 8,805'		
Perforations MD'	8,385' - 8,805'		

Casing & Tubing Details - Current/Planned										
Çi- a	Depth	Weight	Grade	ID	Drift	Thread	Burst	Collapse	Yield	Cap
Size	(MD)	lb/ft		In	In		psi	psi	Mlbs	bbl/ft
7" csg	0' - 8,385'	26.0	L-80	6.276	6.151		7,240	5,410	604	.0383
3.5" std Polycore <i>tbg</i>	0' - 6,078'	9.3	L-80	2.625	2.500	EUE 8RD	10,160	10,540	207	.0066
3.5" Mod Polycore tbg	6,078' - 8,321'	9.3	L-80	2.441	2.347	EUE 8RD	10,160	10,540	207	.0058

PROCEDURE

Spur Energy Partners LLC is committed to providing a safe working environment for all personnel. A safety meeting will be held prior to commencing each operation in order to define/clarify objectives, roles and responsibilities, identify all potential risk/hazards and establish a work procedure that is safe and environmentally sound. Meetings are to be documented on the reports returned to Spur Energy Partners LLC.

PERFORM SAFETY CHECKS AND SAFETY MEETING

1. Perform a safety meeting prior to rigging up ANY equipment on location. Discuss the job procedure and objective with all personnel on location. Document the safety meeting on the daily report sent to Spur. Make note of all potential risks/hazards, and clearly identify an emergency route and emergency vehicle. Also make note of any new or inexperienced personnel on location. Ensure proper Personal Protective Equipment (PPE) is used during the job. Minimums are hard hats, steel toes, safety glasses, H₂S monitors, and FR certified clothing as required. Designate a smoking area off location and 100' from any potential hydrocarbons.

Preparation

- 1. Set 3 500 bbl Frac tanks on location and begin filling with produced water from the facility. Do not use fresh water or produced water from any of the other surrounding facilities. Fill completely. Leave hoses attached to water tanks at the facility so water in water tanks can be utilized at the end of the test if needed.
- 2. Replace all wellhead valves with 3k rated valves.

72 hours before SRT

- 3. Notify OCD representative that SRT is planned to occur in 72 hours.
- 4. Notify OCD that a MIT will be ran with the pump truck and recorded in the data van on the date of the SRT. Ask if a chart recorder is required, if so, ensure one is on location for the day of the SRT.
- 5. MIRU Precision Pressure Data Slickline truck and crane, utilize a lubricator for well control.
- 6. Run in hole with BHP Bomb and set at 8,321' from surface on top of the 2.31F profile nipple.
 - a) Ensure bomb is rated to 10k psi or greater and can collect 1 million data points and is set to collect data 1 time every second. This will give us 11.5 days of data collection in case we occur any delays.

48 hours before SRT

7. Shut in well and isolate injection line. Ensure 0 injection is able to occur.

Step Rate Test Procedure

- 8. RU pump and manifold all 3 frac tanks together. Run 1 2" injection lines.
 - a) RU an injection line and pressure transmitter to the production casing-tubing annulus and pressure up to 500 psi and preform an MIT.
 - i. Have the service company save and export this data, call this file "Vermejo SWD MIT prior to SRT" and clear the data and prepare for SRT data collection.
 - b) Ensure pumps can pump can output 8 bpm at 3000 psi.
 - c) Max pressure limit for this job is 2700 psi.
 - d) Install pressure transmitters on the tubing, not the discharge of the pump, and another transmitter on the production casing.
 - e) A turbine meter is to be used to measure injection rate.
 - f) Rig injection line up to the tubing.
- 9. Close bottom master valve and open all other valves and test Iron and wellhead to 3000 psi.

- 10. Open lower master valve and begin step rate test. Follow the below schedule exactly. Do not stop injection. Do not alter schedule. Steps need to be exactly at prescribed rates and for exactly 45 minutes unless:
 - a) Breakdown is observed and 2 more steps passed that are not in the schedule.
 - i. If this is the case and there is pressure headroom, we will divide the remaining pressure rating of the wellhead by number of remaining steps needed to get to 3 and add 1 and target a starting pressure for those remaining step instead of rate.
 - 1. I.e. Stage 6 break is observed at 2500 psi and wellhead is rated to 3000 psi. 3000-2500 = 500 psi. 2 more stages needed, add one. 500/3= 166 psi. Stage 7 should be started at 2666 psi and stage 8 started at the end of stage 7 pressure plus 166 psi. Rate is to be held steady through the remainder of the stage. Stage length is to be the same as the previous stages.
 - ii. If there is no more pressure headroom available, hold the rate steady for the amount of time equivalent to running the needed number of extra stages add notes in stage notes.
 - 1. I.e. if breakdown is observed on stage 6, and the ending pressure of stage 6 is 2950 psi and job is rated to 3000 psi, keep the same rate of stage 6 for stage 7 and 8.

Step Rate Test - Proposed								
Step	Time Start (mins)	Start (mins) Time End (mins) Rate (BPM) Stage Volume (Bbl)		Cumulative Volume (Bbl)				
1	0	45	0.30	14	14			
2	45	90	0.60	27	41			
3	90	135	1.20	54	95			
4	135	180	2.40	108	203			
5	180	225	3.60	162	365			
6	225	270	4.80	216	581			
7	270	315	6.00	270	851			

- 11. RD pump and iron.
- 12. MIRU Slickline unit and crane if required.
- 13. RIH to 8,321' to retrieve the BHP Bomb. Send all data to Engineer.

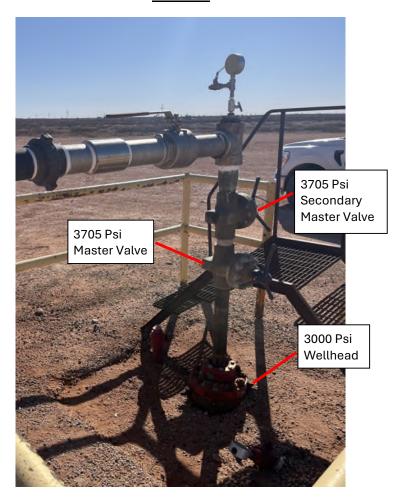
Appendix

Current Tubing Detail

TUBING DETAIL

KB 18'
1 JT 3-½" STD POLYCORE 33'
2 3-½" PUPS STD POLYCORE 13'
183 JTS 3-½" STD POLYCORE 6,032'
68 JTS 3-½" MODIFIED POLYCORE 2,215'
O/O TOOL W/ 2.31F PROFILE NIPPLE 2'
7" X 3-½" NP AS1X PACKER @ +/- 8,321' - 8'
SS XO
2-7/8" 6' NP SUB
SS 2.25" R PROFILE NIPPLE

Wellhead





Received by OCD: 8/11/2025 8:01:13 AM Empire State SWD 9 #4

Eddy County, NM API# 30-015-38972

13-3/8" 48# H-40 Csg @ 248'

17-½" HOLE CMT W/ 500 SX CIRC 309SX TO SURF

9-5/8" 40# J-55 Csg @ 2,405'

12-1/4" HOLE CMT W/ 750 SX CIRC 32SX TO SURF

TUBING DETAIL

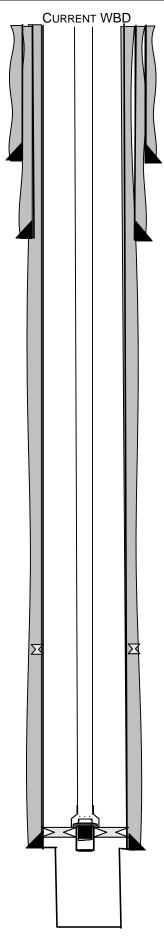
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O/O TOOL W/ 2.31F PROFILE NIPPLE 2'
7" x 3-½" NP AS1X PACKER @ +/- 8,321' - 8'
SS XO
2-7/8" 6' NP SUB
SS 2.25" R PROFILE NIPPLE

DV TOOL @ 6,999'

7" 26# L-80 Csg @ 8,385' FC @ 8,259'

8-¾" HOLE

CMT W/ 450sx in 1st stage, circ 110 to surface CMT W/ 1050 sx in 2ND stage, circ 245 to surface



CISCO OPEN HOLE (8,385'-8,805')

TD @ 8,805' TVD @ 8,805' PBTD @ 8,805'

CREATED ON 2/14/2024
UBELFESCH 1925 1925 8:53:35 AM

SPUD DATE: 10,7492019 8 ELEV: 3,582' GL 18.5' KB Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 494108

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	494108
	Action Type:
	[C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	8/13/2025