U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

09/30/2025

Well Name: SHERMAN 29 17 FED COM

Well Location: T20S / R33E / SEC 29 / SESE / 32.537856 / -103.679419

County or Parish/State: LEA / NM

Well Number: 234H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM16640

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2873668

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/16/2025

Time Sundry Submitted: 05:44

Date proposed operation will begin: 10/07/2025

Procedure Description: APD ID: 10400104449 Devon Energy Production Company is respectfully requesting the addition of a pilot hole on the Sherman 29 17 Fed Com 234H. The changes includes: • Pilot hole TD into the woodford (with formation tops) • Adding an additional string to the design (with an open annulus between the 3rd and 2nd intermediate as a relief zone in the Delaware/Brushy in compliance with R-111Q) • Pilot hole abandonment plugs in drill plan as per your guidelines we discussed over the phone • Cased hole whipstock will be used to perform a casing exit (after pilot hole abandonment) Please see attached updated drill plan and WBD.

NOI Attachments

Procedure Description

Sherman_29_17_Fed_Com_234H_WBD__PILOT_SUNDRY__REV2_20250929132919.pdf

Sherman_29_17_Fed_Com_234H_Drill_Plan__PILOT_SUNDRY__REV2_20250929132918.pdf

SHERMAN_29_17_FED_COM_234H_Pilot_Hole_20250929132917.pdf

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Allottee or Tribe Name:

Lease Number: NMNM16640

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Sherman_29_17_Fed_Com_234H_Sundry_ID_2873668_20250930091639.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LAUREN WATSON

Signed on: SEP 29, 2025 01:31 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 W. SHERIDAN AVE.

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-3379

Email address: LAUREN.WATSON@DVN.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

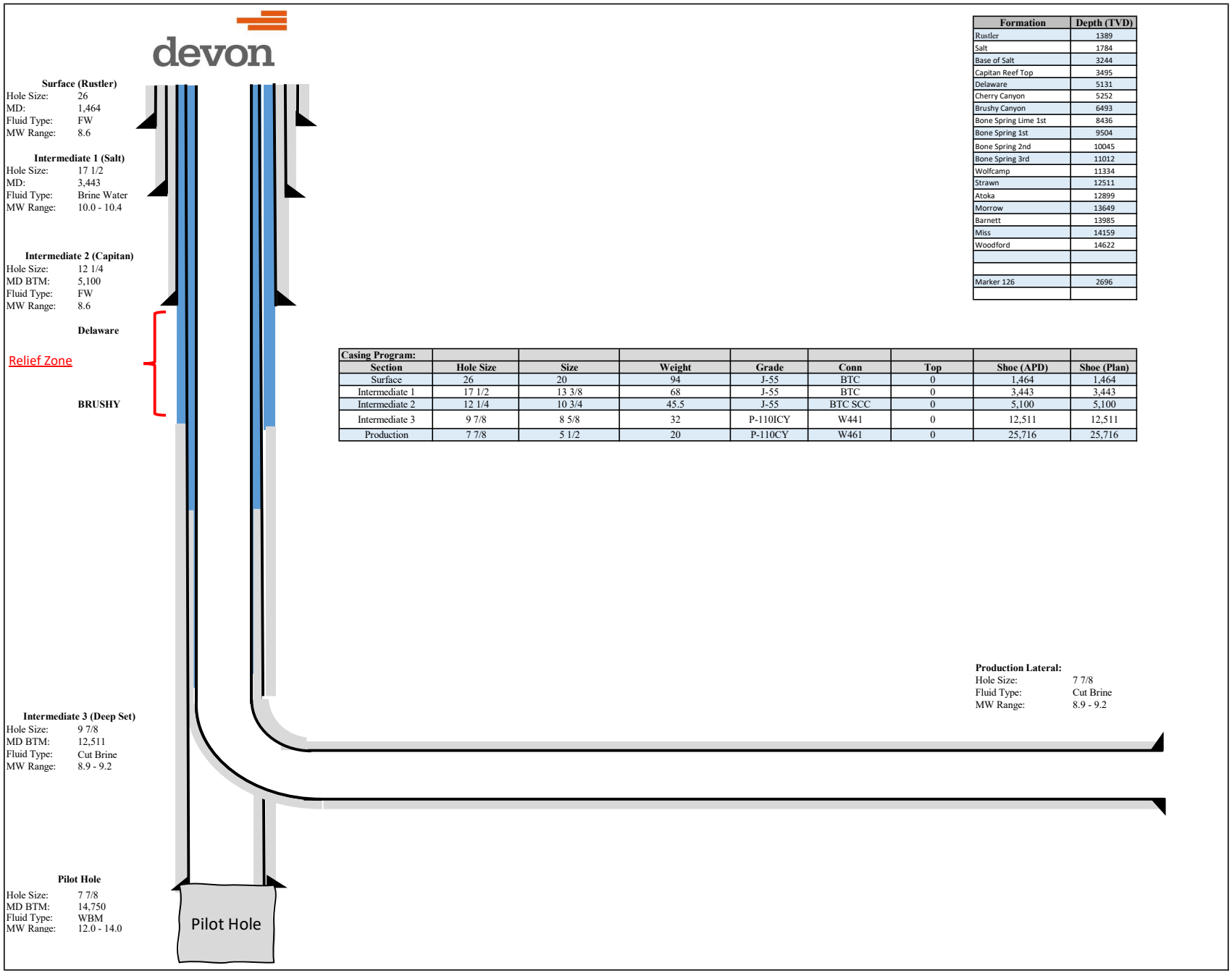
BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 09/30/2025

Signature: Long Vo



Formation	Depth (TVD)
Rustler	1389
Salt	1784
Base of Salt	3244
Capitan Reef Top	3495
Delaware	5131
Cherry Canyon	5252
Brushy Canyon	6493
Bone Spring Lime 1st	8436
Bone Spring 1st	9504
Bone Spring 2nd	10045
Bone Spring 3rd	11012
Wolfcamp	11334
Strawn	12511
Atoka	12899
Morrow	13649
Barnett	13985
Miss	14159
Woodford	14622
Marker 126	2696

Casing Program:								
Section	Hole Size	Size	Weight	Grade	Conn	Top	Shoe (APD)	Shoe (Plan)
Surface	26	20	94	J-55	BTC	0	1,464	1,464
Intermediate 1	17 1/2	13 3/8	68	J-55	BTC	0	3,443	3,443
Intermediate 2	12 1/4	10 3/4	45.5	J-55	BTC SCC	0	5,100	5,100
Intermediate 3	9 7/8	8 5/8	32	P-110ICY	W441	0	12,511	12,511
Production	7 7/8	5 1/2	20	P-110CY	W461	0	25,716	25,716

1. Geologic Formations

TVD of target	10160	Pilot hole depth	14750
MD at TD:	25716	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1389		
Salt	1784		
Base of Salt	3244		
Capitan Reef Top	3495		
Delaware	5131		
Cherry Canyon	5252		
Brushy Canyon	6493		
Bone Spring Lime 1st	8436		
Bone Spring 1st	9504		
Bone Spring 2nd	10045		
Bone Spring 3rd	11012		
Wolfcamp	11334		
Strawn	12511		
Atoka	12899		
Morrow	13649		
Barnett	13985		
Miss	14159		
Woodford	14622		
Marker 126	2696		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
26	20	94.0	J-55	BTC	0.0	1464 MD	0	1464 TVD
17 1/2	13 3/8	68.0	J-55	BTC	0.0	3443 MD	0	3443 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	5100 MD	0	5100 TVD
9 7/8	8 5/8	32.0	P110ICY	W441	0.0	12511 MD	0	12511 TVD
7 7/8	5 1/2	20.0	P110CY	W461	0.0	25716 MD	0	10160 TVD

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	2383	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	865	Surf	9	3.27	Lead: Class C Cement + additives
	338	2943	13.2	1.44	Tail: Class H / C + additives
Int 2	276	Surf	9	3.27	Lead: Class C Cement + additives
	101	4600	13.2	1.44	Tail: Class H / C + additives
Int 3	367	8436	13.2	1.44	Tail: Class H / C + additives
Production	2379	7600	13.2	1.44	Tail: Class H / C + additives
Post Completions Squeeze (Int 3)	162	4600	9	3.27	Squeeze Lead: Class C Cement + additives

•Devon will design around R111-Q: Uncemented Annulus between 2nd int & 3rd int, Figure D (Modified for additional Capitan String)
•Int3 TOC will be, prior to completion, brought up to the 1st Bone Lime, leaving an open annulus for pressure monitoring in DMG/Brushy
•Following completion, a cement top out will be performed to bring TOC 500ft into Int 2, but below the POTASH interval

Casing String	% Excess
Surface	50%
Intermediate 1 and Intermediate 2	30%
Intermediate 1 (Two Stage)	25%
Intermediate 3 (Primary)	0%
Prod	10%
Post Completion Squeeze	30%

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

4. Pressure Control Equipment (Four String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	3M	Annular	X	50% of rated working pressure
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
Int 2	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Int 3	13-5/8"	10M	Annular	X	100% of rated working pressure
			Blind Ram	X	10M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

5. 7-7/8" Pilo Hole and Plugging Program

1) 7-7/8" pilot hole from 12511 - 14750
2) Pilothole will be plugged back per NMOCD P&A requirements with a cement plug
3) All cement will be 100 ft in length +1% per 1000 ft of TVD
4) Plug depths will be verified and tagged in the plug back (min 6 hr wait time)
5) Devon will contact the NMOCD and give notice before performing any of the aforementioned procedures including the tagging of cement
6) Whip stock will be set around ~9600'

Cement Plugs	Hole Size	#Sks	Depth	Wt (lb/gal)	Water (gal/sx)	Yld (ft3/sack)	Slurry Description
Wolfcamp, Strawn	7.875	404	11170 -12561	15.6	5.22	1.18	Class H + additives
Atoka, Morrow	7.875	281	12719 - 13699	15.6	5.22	1.18	Class H + additives
Barnett, Miss, Woodford	7.875	274	13795 - TD (14750)	15.6	5.22	1.18	Class H + additives

6. Mud Program (5 String Design)

Section	Type	Weight (ppg)
Surface	WBM	8.6
Intermediate 1	Brine	10-10.4
Intermediate 2	FW	8.6
Intermediate 3	Cut Brine	8.9 - 9.2
Production	Cut Brine	8.9 - 9.2
Pilot	WBM	12.0-14.0

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

7. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Int3, Production casing
X	Mud log	KOP to TD
	PEX	

8. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5547
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

9. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.

2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.

3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
   a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,

2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).

3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.

5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.

6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.

7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
   a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan

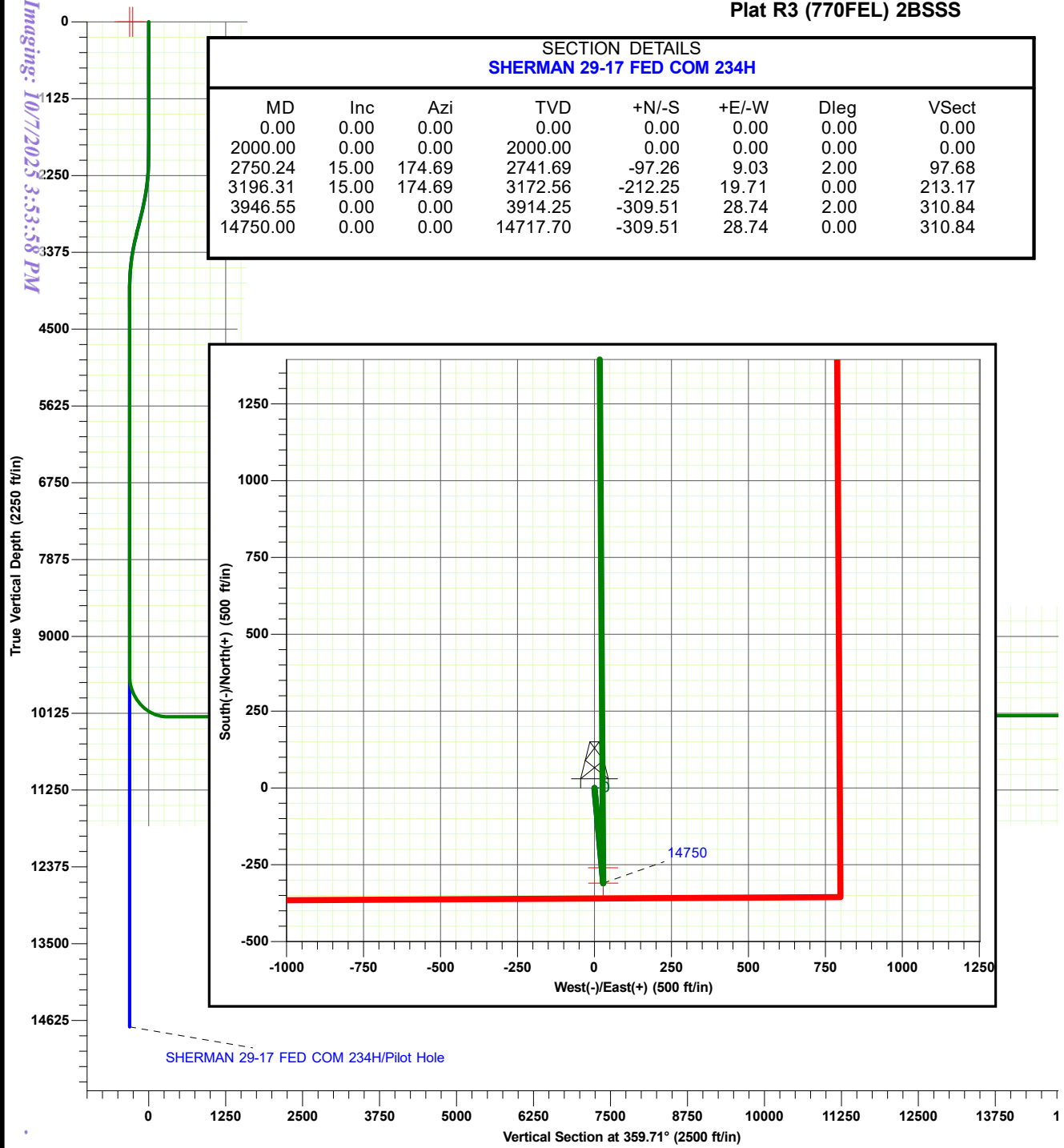
_____ Other, describe

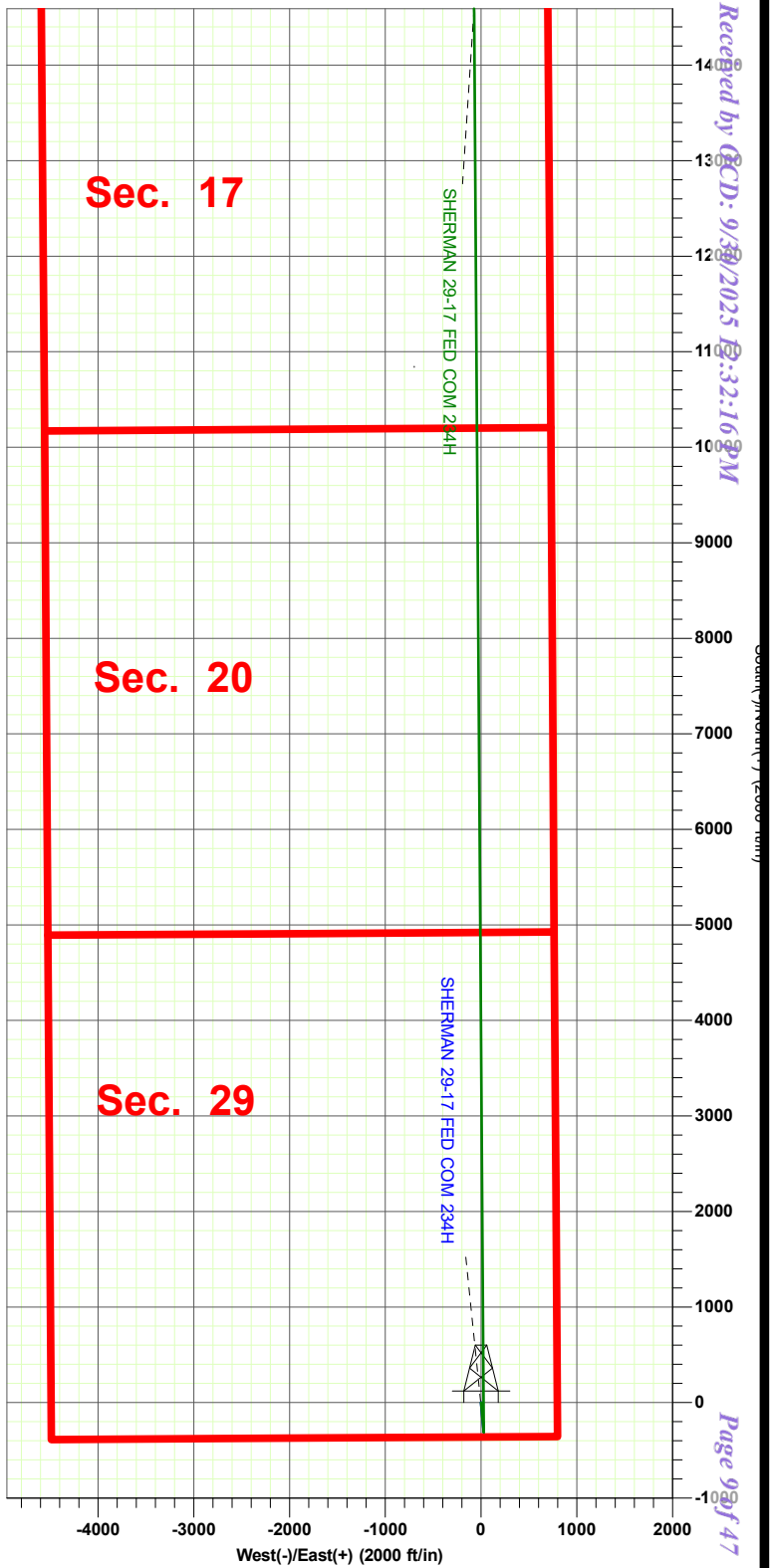
GL:3617+30ft @ 3647.00ft (H&P393)
Ground Level 3617.00

SHERMAN 29-17 FED COM 234H
Lea County (NAD83 New Mexico East)
Northing: 560021.29
Easting: 742852.67
Lat: 32.5378562
Long: -103.6794193
Plat R3 (770FEL) 2BSSS

SECTION DETAILS
SHERMAN 29-17 FED COM 234H

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
2750.24	15.00	174.69	2741.69	-97.26	9.03	2.00	97.68
3196.31	15.00	174.69	3172.56	-212.25	19.71	0.00	213.17
3946.55	0.00	0.00	3914.25	-309.51	28.74	2.00	310.84
14750.00	0.00	0.00	14717.70	-309.51	28.74	0.00	310.84





Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Project Lea County (NAD83 New Mexico East)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Sec 29-T20S-R33E

Site Position:		**Northing:**	559,635.02 usft	**Latitude:**	32.5368694
From:	Map	**Easting:**	738,364.98 usft	**Longitude:**	-103.6939885
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in		

Well SHERMAN 29-17 FED COM 234H

Well Position	**+N/-S**	0.00 ft	**Northing:**	560,021.29 usft	**Latitude:**	32.5378562
	+E/-W	0.00 ft	**Easting:**	742,852.67 usft	**Longitude:**	-103.6794193
Position Uncertainty		0.50 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,617.00 ft
Grid Convergence:		0.35 °				

Wellbore Pilot Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2019	6.75	60.30	47,849.86745169

Design Pilot Hole

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	174.69

Plan Survey Tool Program **Date** 9/25/2025

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,750.00	Pilot Hole (Pilot Hole)	MWD+HDGM OWSG MWD + HDGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.24	15.00	174.69	2,741.69	-97.26	9.03	2.00	2.00	0.00	174.69	
3,196.31	15.00	174.69	3,172.56	-212.25	19.71	0.00	0.00	0.00	0.00	
3,946.55	0.00	0.00	3,914.25	-309.51	28.74	2.00	-2.00	0.00	180.00	
14,750.00	0.00	0.00	14,717.70	-309.51	28.74	0.00	0.00	0.00	0.00	

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Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
100.00	0.00	0.00	100.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
200.00	0.00	0.00	200.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
300.00	0.00	0.00	300.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
400.00	0.00	0.00	400.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
500.00	0.00	0.00	500.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
600.00	0.00	0.00	600.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
700.00	0.00	0.00	700.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
800.00	0.00	0.00	800.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
900.00	0.00	0.00	900.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,000.00	0.00	0.00	1,000.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,100.00	0.00	0.00	1,100.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,200.00	0.00	0.00	1,200.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,300.00	0.00	0.00	1,300.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,389.00	0.00	0.00	1,389.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
Rustler									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,500.00	0.00	0.00	1,500.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,600.00	0.00	0.00	1,600.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,700.00	0.00	0.00	1,700.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,784.00	0.00	0.00	1,784.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
Salt									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,900.00	0.00	0.00	1,900.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
2,000.00	0.00	0.00	2,000.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
2,100.00	2.00	174.69	2,099.98	-1.74	0.16	560,019.55	742,852.83	32.5378514	-103.6794188
2,200.00	4.00	174.69	2,199.84	-6.95	0.65	560,014.34	742,853.31	32.5378371	-103.6794173
2,300.00	6.00	174.69	2,299.45	-15.63	1.45	560,005.67	742,854.12	32.5378132	-103.6794149
2,400.00	8.00	174.69	2,398.70	-27.76	2.58	559,993.53	742,855.24	32.5377799	-103.6794115
2,500.00	10.00	174.69	2,497.47	-43.34	4.02	559,977.96	742,856.69	32.5377370	-103.6794071
2,600.00	12.00	174.69	2,595.62	-62.33	5.79	559,958.96	742,858.45	32.5376848	-103.6794018
2,700.00	14.00	174.69	2,693.06	-84.73	7.87	559,936.56	742,860.53	32.5376232	-103.6793955
2,703.04	14.06	174.69	2,696.00	-85.46	7.94	559,935.83	742,860.60	32.5376212	-103.6793953
Marker 126									
2,750.24	15.00	174.69	2,741.69	-97.26	9.03	559,924.03	742,861.70	32.5375887	-103.6793919
2,800.00	15.00	174.69	2,789.76	-110.09	10.22	559,911.21	742,862.89	32.5375535	-103.6793883
2,900.00	15.00	174.69	2,886.35	-135.87	12.62	559,885.43	742,865.28	32.5374826	-103.6793811
3,000.00	15.00	174.69	2,982.94	-161.64	15.01	559,859.65	742,867.68	32.5374117	-103.6793738
3,100.00	15.00	174.69	3,079.53	-187.42	17.40	559,833.87	742,870.07	32.5373408	-103.6793666
3,196.31	15.00	174.69	3,172.56	-212.25	19.71	559,809.04	742,872.38	32.5372725	-103.6793596
3,200.00	14.93	174.69	3,176.12	-213.20	19.80	559,808.09	742,872.46	32.5372699	-103.6793593
3,270.03	13.53	174.69	3,244.00	-230.34	21.39	559,790.95	742,874.06	32.5372227	-103.6793545
Base of Salt									
3,300.00	12.93	174.69	3,273.17	-237.17	22.02	559,784.12	742,874.69	32.5372040	-103.6793526
3,400.00	10.93	174.69	3,371.01	-257.76	23.93	559,763.54	742,876.60	32.5371473	-103.6793468
3,500.00	8.93	174.69	3,469.50	-274.93	25.53	559,746.37	742,878.20	32.5371001	-103.6793419
3,525.79	8.42	174.69	3,495.00	-278.80	25.89	559,742.49	742,878.55	32.5370895	-103.6793409
Capitan Reef top									
3,600.00	6.93	174.69	3,568.54	-288.66	26.80	559,732.63	742,879.47	32.5370623	-103.6793381
3,700.00	4.93	174.69	3,668.00	-298.95	27.76	559,722.34	742,880.43	32.5370340	-103.6793352
3,800.00	2.93	174.69	3,767.76	-305.78	28.39	559,715.51	742,881.06	32.5370153	-103.6793333
3,900.00	0.93	174.69	3,867.70	-309.13	28.71	559,712.16	742,881.37	32.5370060	-103.6793323
3,946.55	0.00	0.00	3,914.25	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,000.00	0.00	0.00	3,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,100.00	0.00	0.00	4,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,200.00	0.00	0.00	4,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,300.00	0.00	0.00	4,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,400.00	0.00	0.00	4,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,500.00	0.00	0.00	4,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,600.00	0.00	0.00	4,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,700.00	0.00	0.00	4,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,800.00	0.00	0.00	4,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,900.00	0.00	0.00	4,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,000.00	0.00	0.00	4,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,100.00	0.00	0.00	5,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,163.30	0.00	0.00	5,131.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Delaware									
5,200.00	0.00	0.00	5,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,284.30	0.00	0.00	5,252.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Cherry Canyon									
5,300.00	0.00	0.00	5,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,400.00	0.00	0.00	5,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,500.00	0.00	0.00	5,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,600.00	0.00	0.00	5,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,700.00	0.00	0.00	5,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,800.00	0.00	0.00	5,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,900.00	0.00	0.00	5,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,000.00	0.00	0.00	5,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,100.00	0.00	0.00	6,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,200.00	0.00	0.00	6,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,300.00	0.00	0.00	6,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,400.00	0.00	0.00	6,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,500.00	0.00	0.00	6,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,525.30	0.00	0.00	6,493.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Brushy Canyon									
6,600.00	0.00	0.00	6,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,700.00	0.00	0.00	6,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,800.00	0.00	0.00	6,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,900.00	0.00	0.00	6,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,000.00	0.00	0.00	6,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,100.00	0.00	0.00	7,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,200.00	0.00	0.00	7,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,300.00	0.00	0.00	7,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,400.00	0.00	0.00	7,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,500.00	0.00	0.00	7,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,600.00	0.00	0.00	7,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,700.00	0.00	0.00	7,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,800.00	0.00	0.00	7,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,900.00	0.00	0.00	7,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,000.00	0.00	0.00	7,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,100.00	0.00	0.00	8,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,200.00	0.00	0.00	8,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,300.00	0.00	0.00	8,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,400.00	0.00	0.00	8,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,468.30	0.00	0.00	8,436.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring Lime 1st									
8,500.00	0.00	0.00	8,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,600.00	0.00	0.00	8,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,700.00	0.00	0.00	8,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,800.00	0.00	0.00	8,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,900.00	0.00	0.00	8,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,000.00	0.00	0.00	8,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,100.00	0.00	0.00	9,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,200.00	0.00	0.00	9,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,300.00	0.00	0.00	9,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,400.00	0.00	0.00	9,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,500.00	0.00	0.00	9,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,536.30	0.00	0.00	9,504.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 1st									
9,600.00	0.00	0.00	9,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,700.00	0.00	0.00	9,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,800.00	0.00	0.00	9,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,900.00	0.00	0.00	9,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,000.00	0.00	0.00	9,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,077.30	0.00	0.00	10,045.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 2nd									
10,100.00	0.00	0.00	10,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,200.00	0.00	0.00	10,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,300.00	0.00	0.00	10,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,400.00	0.00	0.00	10,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,500.00	0.00	0.00	10,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,600.00	0.00	0.00	10,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,700.00	0.00	0.00	10,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,800.00	0.00	0.00	10,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,900.00	0.00	0.00	10,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,000.00	0.00	0.00	10,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,044.30	0.00	0.00	11,012.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 3rd									
11,100.00	0.00	0.00	11,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,200.00	0.00	0.00	11,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,300.00	0.00	0.00	11,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,366.30	0.00	0.00	11,334.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Wolfcamp									
11,400.00	0.00	0.00	11,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,500.00	0.00	0.00	11,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,600.00	0.00	0.00	11,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,700.00	0.00	0.00	11,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,800.00	0.00	0.00	11,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,900.00	0.00	0.00	11,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,000.00	0.00	0.00	11,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,100.00	0.00	0.00	12,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,200.00	0.00	0.00	12,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,300.00	0.00	0.00	12,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,400.00	0.00	0.00	12,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,500.00	0.00	0.00	12,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,543.30	0.00	0.00	12,511.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Strawn									
12,600.00	0.00	0.00	12,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,700.00	0.00	0.00	12,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,800.00	0.00	0.00	12,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,900.00	0.00	0.00	12,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,931.30	0.00	0.00	12,899.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Atoka									
13,000.00	0.00	0.00	12,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,100.00	0.00	0.00	13,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,200.00	0.00	0.00	13,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,300.00	0.00	0.00	13,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,400.00	0.00	0.00	13,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,500.00	0.00	0.00	13,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,600.00	0.00	0.00	13,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,681.30	0.00	0.00	13,649.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Morrow									
13,700.00	0.00	0.00	13,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,800.00	0.00	0.00	13,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,900.00	0.00	0.00	13,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,000.00	0.00	0.00	13,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,017.30	0.00	0.00	13,985.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Barnett									
14,100.00	0.00	0.00	14,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,191.30	0.00	0.00	14,159.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Miss									
14,200.00	0.00	0.00	14,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,300.00	0.00	0.00	14,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,400.00	0.00	0.00	14,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,500.00	0.00	0.00	14,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,600.00	0.00	0.00	14,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,654.30	0.00	0.00	14,622.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Woodford									
14,700.00	0.00	0.00	14,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,750.00	0.00	0.00	14,717.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(234H) 100FSL, 770	0.00	0.00	0.00	-259.51	28.40	559,761.78	742,881.07	32.5371424	-103.6793323
- plan misses target center by 261.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
KOP(234H) 50FSL, 770	0.00	0.00	0.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
- plan misses target center by 310.84ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP(234H) 100FNL, 770	0.00	0.00	10,160.00	15,380.14	-77.64	575,401.40	742,775.03	32.5801310	-103.6793647
- plan misses target center by 15690.01ft at 10192.30ft MD (10160.00 TVD, -309.51 N, 28.74 E)									
- Point									

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,389.00	1,389.00	Rustler		0.00	
1,784.00	1,784.00	Salt		0.00	
2,703.04	2,696.00	Marker 126		0.00	
3,270.03	3,244.00	Base of Salt		0.00	
3,525.79	3,495.00	Capitan Reef top		0.00	
5,163.30	5,131.00	Delaware		0.00	
5,284.30	5,252.00	Cherry Canyon		0.00	
6,525.30	6,493.00	Brushy Canyon		0.00	
8,468.30	8,436.00	Bone Spring Lime 1st		0.00	
9,536.30	9,504.00	Bone Spring 1st		0.00	
10,077.30	10,045.00	Bone Spring 2nd		0.00	
11,044.30	11,012.00	Bone Spring 3rd		0.00	
11,366.30	11,334.00	Wolfcamp		0.00	
12,543.30	12,511.00	Strawn		0.00	
12,931.30	12,899.00	Atoka		0.00	
13,681.30	13,649.00	Morrow		0.00	
14,017.30	13,985.00	Barnett		0.00	
14,191.30	14,159.00	Miss		0.00	
14,654.30	14,622.00	Woodford		0.00	

Well Name: SHERMAN 29 17 FED COM

Well Location: T20S / R33E / SEC 29 / SESE / 32.537856 / -103.679419

County or Parish/State: LEA / NM

Well Number: 234H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM16640

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2873668

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/16/2025

Time Sundry Submitted: 05:44

Date proposed operation will begin: 10/07/2025

Procedure Description: APD ID: 10400104449 Devon Energy Production Company is respectfully requesting the addition of a pilot hole on the Sherman 29 17 Fed Com 234H. The changes includes: • Pilot hole TD into the woodford (with formation tops) • Adding an additional string to the design (with an open annulus between the 3rd and 2nd intermediate as a relief zone in the Delaware/Brushy in compliance with R-111Q) • Pilot hole abandonment plugs in drill plan as per your guidelines we discussed over the phone • Cased hole whipstock will be used to perform a casing exit (after pilot hole abandonment) Please see attached updated drill plan and WBD.

NOI Attachments

Procedure Description

Sherman_29_17_Fed_Com_234H_WBD__PILOT_SUNDRY__REV2_20250929132919.pdf

Sherman_29_17_Fed_Com_234H_Drill_Plan__PILOT_SUNDRY__REV2_20250929132918.pdf

SHERMAN_29_17_FED_COM_234H_Pilot_Hole_20250929132917.pdf

Well Name: SHERMAN 29 17 FED COM

Well Location: T20S / R33E / SEC 29 / SESE / 32.537856 / -103.679419

County or Parish/State: LEA / NM

Well Number: 234H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM16640

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LAUREN WATSON

Signed on: SEP 29, 2025 01:31 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 W. SHERIDAN AVE.

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-3379

Email address: LAUREN.WATSON@DVN.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

APPROVED by Long Vo
Petroleum Engineer
Carlsbad Field Office
575-988-50402
LVO@BLM.GOV

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LOCATION:	Section 29, T.20 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	**Sherman 29 17 Fed Com 234H**
ATS/API ID:	**ATS-25-1395**
APD ID:	**10400104449**
Sundry ID:	**2873668**

COA

H2S	Yes		
Potash	R-111-Q	Figure D	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☑ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☑ 5 String	Capitan Reef Int 2	☐ WIPP
Other	Pilot Hole Int 3	☑ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 3	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	☑ BOPE Break Testing ☑ Offline BOPE Testing	☑ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Surface casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The **20** inch surface casing shall be set at approximately **1370 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **26** inch in diameter.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing shall be set at approximately **3350 feet** is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

4. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

    - The top of cement in the annulus between the 1st intermediate and the 2nd intermediate casing strings shall stand un-cemented at least **500 feet** below the 1st intermediate shoe. Zero percent excess shall be pumped on the cement slurry to ensure no tie-back into the previous shoe. (**360 sxs** Class C/H)

    - After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, the operator shall bradenhead cement at least **500 feet** tie-back into the previous casing but not higher than USGS Marker Bed No. 126. **(Squeeze 162 sxs Class C and 110 bbls Displacement Fluid)**
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Operator has proposed to pump down **10-3/4"** X **8-5/8"** annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. Report the amount of fluid utilized to pump the cement slurry and the calculated top of cement slurry to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure and ensure cement tie-back requirement.

Operator has proposed an open annulus completion in R-111-Q. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on the **10-3/4"** x **8 5/8"** annulus.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and **(575-689-5981 Lea County)**.

Pilot Hole:

Option 1:

The pilot hole plugging procedure is approved as written. Note plug tops on subsequent drilling report. The BLM is to be contacted 24 hours prior to the commencement of any plugging operations **(575-689-5981 Lea County)** and when tagging the plugs.

- Mud Requirement: Mud shall be placed between all or below plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel per 100 barrels of **fresh** water. Minimum nine (9) pounds per gallon.

- Cement requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours for Class C or accelerated cement (calcium chloride) and 6 hours for Class H. Tagging the plug means running in the hole with a string of tubing or drill pipe and placing sufficient weight on the plug to ensure its integrity. Other methods of tagging the plug may be approved by the BLM authorized officer or BLM field representative.

- Subsequent Plugging Reporting: Within 30 days after plugging work is completed to the BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date pilot hole was plugged and tagged.**

5. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. Operator must run a CBL from TD of the production casing to surface to verify top of cement. Submit results to the BLM.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi. **Annular which shall be tested to 2100 (70% Working Pressure) psi.**

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch intermediate casing shoe shall be **3000 (3M)** psi. **Annular which shall be tested to 2100 (70% Working Pressure) psi.**

c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** inch intermediate casing shoe shall be **5000 (5M)** psi.

d. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **10,000 (10M)** psi when drilling the pilot section and shall be **5000 (5M)** psi when drilling the production section. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi when drilling the pilot section.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **20** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.

d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- The BLM is to be contacted Choose an item. 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections shallower than the deepest drilled intermediate on the well pad above 12,000 feet.
- For intermediate casings set within Wolfcamp formation, the previous casing cannot be cemented over the base of the Delaware.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at **Lea County: 575-689-5981**.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Lea County: 575-689-5981**.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☑ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 9/30/2025

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESE / 360 FSL / 797 FEL / TWSP: 20S / RANGE: 33E / SECTION: 29 / LAT: 32.537856 / LONG: -103.679419 (TVD: 0 feet, MD: 0 feet)

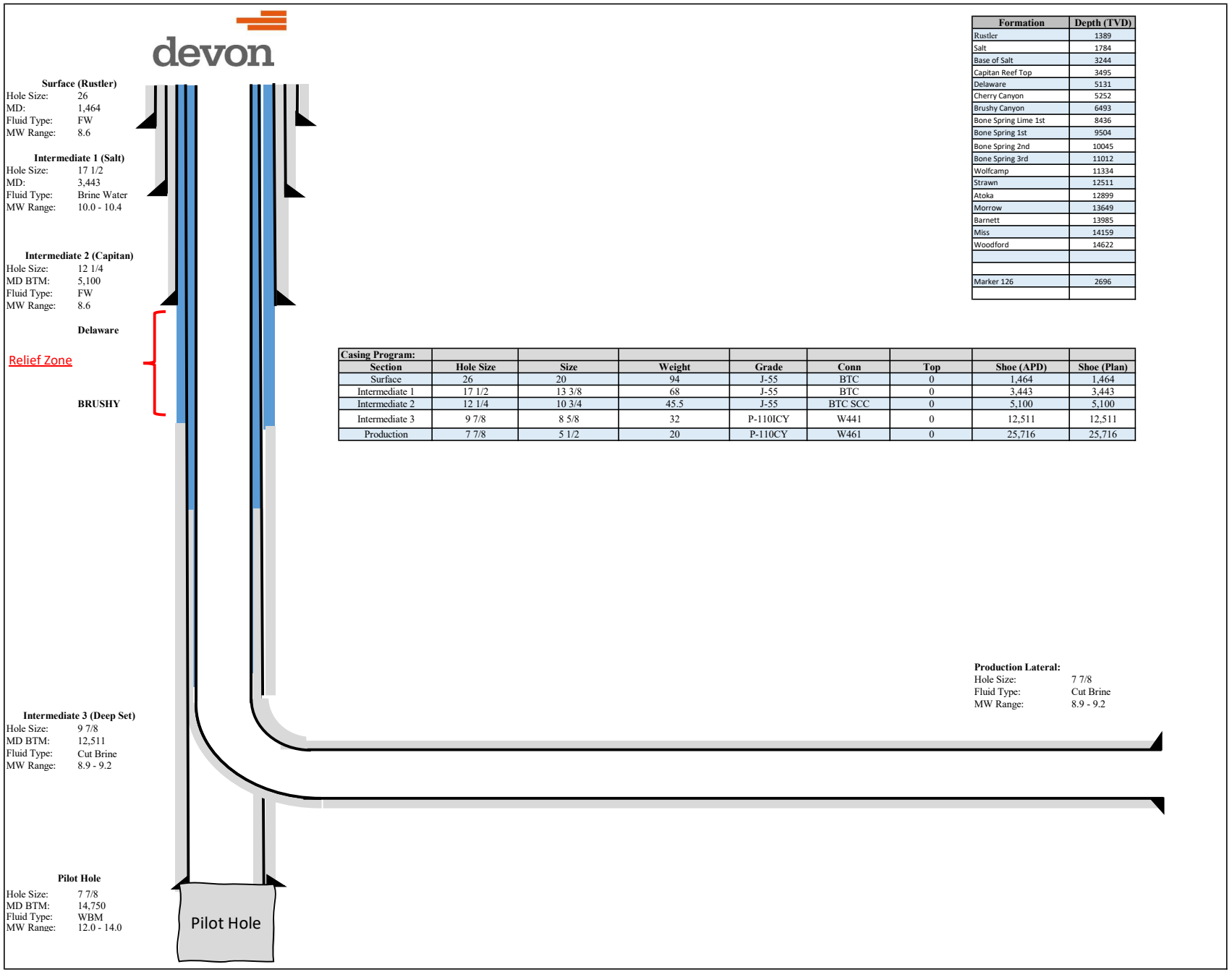
PPP: SESE / 100 FSL / 770 FEL / TWSP: 20S / RANGE: 33E / SECTION: 29 / LAT: 32.5371424 / LONG: -103.6793323 (TVD: 9933 feet, MD: 9991 feet)

PPP: SESE / 143 FSL / 770 FEL / TWSP: 20S / RANGE: 33E / SECTION: 17 / LAT: 32.566288 / LONG: -103.679355 (TVD: 10160 feet, MD: 20600 feet)

PPP: SENE / 2457 FNL / 770 FEL / TWSP: 20S / RANGE: 33E / SECTION: 20 / LAT: 32.559142 / LONG: -103.67935 (TVD: 10160 feet, MD: 18000 feet)

PPP: NESE / 1433 FSL / 770 FEL / TWSP: 20S / RANGE: 33E / SECTION: 17 / LAT: 32.569862 / LONG: -103.679358 (TVD: 10160 feet, MD: 21900 feet)

BHL: NENE / 20 FNL / 770 FEL / TWSP: 20S / RANGE: 33E / SECTION: 17 / LAT: 32.580351 / LONG: -103.679365 (TVD: 10160 feet, MD: 25716 feet)



Formation	Depth (TVD)
Rustler	1389
Salt	1784
Base of Salt	3244
Capitan Reef Top	3495
Delaware	5131
Cherry Canyon	5252
Brushy Canyon	6493
Bone Spring Lime 1st	8436
Bone Spring 1st	9504
Bone Spring 2nd	10045
Bone Spring 3rd	11012
Wolfcamp	11334
Strawn	12511
Atoka	12899
Morrow	13649
Barnett	13985
Miss	14159
Woodford	14622
Marker 126	2696

Casing Program:								
Section	Hole Size	Size	Weight	Grade	Conn	Top	Shoe (APD)	Shoe (Plan)
Surface	26	20	94	J-55	BTC	0	1,464	1,464
Intermediate 1	17 1/2	13 3/8	68	J-55	BTC	0	3,443	3,443
Intermediate 2	12 1/4	10 3/4	45.5	J-55	BTC SCC	0	5,100	5,100
Intermediate 3	9 7/8	8 5/8	32	P-110ICY	W441	0	12,511	12,511
Production	7 7/8	5 1/2	20	P-110CY	W461	0	25,716	25,716

1. Geologic Formations

TVD of target	10160	Pilot hole depth	14750
MD at TD:	25716	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1389		
Salt	1784		
Base of Salt	3244		
Capitan Reef Top	3495		
Delaware	5131		
Cherry Canyon	5252		
Brushy Canyon	6493		
Bone Spring Lime 1st	8436		
Bone Spring 1st	9504		
Bone Spring 2nd	10045		
Bone Spring 3rd	11012		
Wolfcamp	11334		
Strawn	12511		
Atoka	12899		
Morrow	13649		
Barnett	13985		
Miss	14159		
Woodford	14622		
Marker 126	2696		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
26	20	94.0	J-55	BTC	0.0	1464 MD	0	1464 TVD
17 1/2	13 3/8	68.0	J-55	BTC	0.0	3443 MD	0	3443 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	5100 MD	0	5100 TVD
9 7/8	8 5/8	32.0	P110ICY	W441	0.0	12511 MD	0	12511 TVD
7 7/8	5 1/2	20.0	P110CY	W461	0.0	25716 MD	0	10160 TVD

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	2383	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	865	Surf	9	3.27	Lead: Class C Cement + additives
	338	2943	13.2	1.44	Tail: Class H / C + additives
Int 2	276	Surf	9	3.27	Lead: Class C Cement + additives
	101	4600	13.2	1.44	Tail: Class H / C + additives
Int 3	360	8436	13.2	1.44	Tail: Class H / C + additives
Production	2379	7600	13.2	1.44	Tail: Class H / C + additives
Post Completions Squeeze (Int 3)	162	4600	9	3.27	Squeeze Lead: Class C Cement + additives

•Devon will design around R111-Q: Uncemented Annulus between 2nd int & 3rd int, Figure D (Modified for additional Capitan String)
•Int3 TOC will be, prior to completion, brought up to the 1st Bone Lime, leaving an open annulus for pressure monitoring in DMG/Brushy
•Following completion, a cement top out will be performed to bring TOC 500ft into Int 2, but below the POTASH interval

Casing String	% Excess
Surface	50%
Intermediate 1 and Intermediate 2	30%
Intermediate 1 (Two Stage)	25%
Intermediate 3 (Primary)	0%
Prod	10%
Post Completion Squeeze	30%

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

4. Pressure Control Equipment (Four String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	3M	Annular	X	50% of rated working pressure
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
Int 2	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Int 3	13-5/8"	10M	Annular	X	100% of rated working pressure
			Blind Ram	X	10M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

5. 7-7/8" Pilo Hole and Plugging Program

1) 7-7/8" pilot hole from 12511 - 14750
2) Pilothole will be plugged back per NMOCD P&A requirements with a cement plug
3) All cement will be 100 ft in length +1% per 1000 ft of TVD
4) Plug depths will be verified and tagged in the plug back (min 6 hr wait time)
5) Devon will contact the NMOCD and give notice before performing any of the aforementioned procedures including the tagging of cement
6) Whip stock will be set around ~9600'

Cement Plugs	Hole Size	#Sks	Depth	Wt (lb/gal)	Water (gal/sx)	Yld (ft3/sack)	Slurry Description
Wolfcamp, Strawn	7.875	404	11170 -12561	15.6	5.22	1.18	Class H + additives
Atoka, Morrow	7.875	281	12719 - 13699	15.6	5.22	1.18	Class H + additives
Barnett, Miss, Woodford	7.875	274	13795 - TD (14750)	15.6	5.22	1.18	Class H + additives

6. Mud Program (5 String Design)

Section	Type	Weight (ppg)
Surface	WBM	8.6
Intermediate 1	Brine	10-10.4
Intermediate 2	FW	8.6
Intermediate 3	Cut Brine	8.9 - 9.2
Production	Cut Brine	8.9 - 9.2
Pilot	WBM	12.0-14.0

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

7. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Int3, Production casing
X	Mud log	KOP to TD
	PEX	

8. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5547
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

9. Other facets of operation

Is this a walking operation? Potentially

1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.

2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.

3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.
   a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,

2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).

3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.

5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.

6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.

7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
   a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan

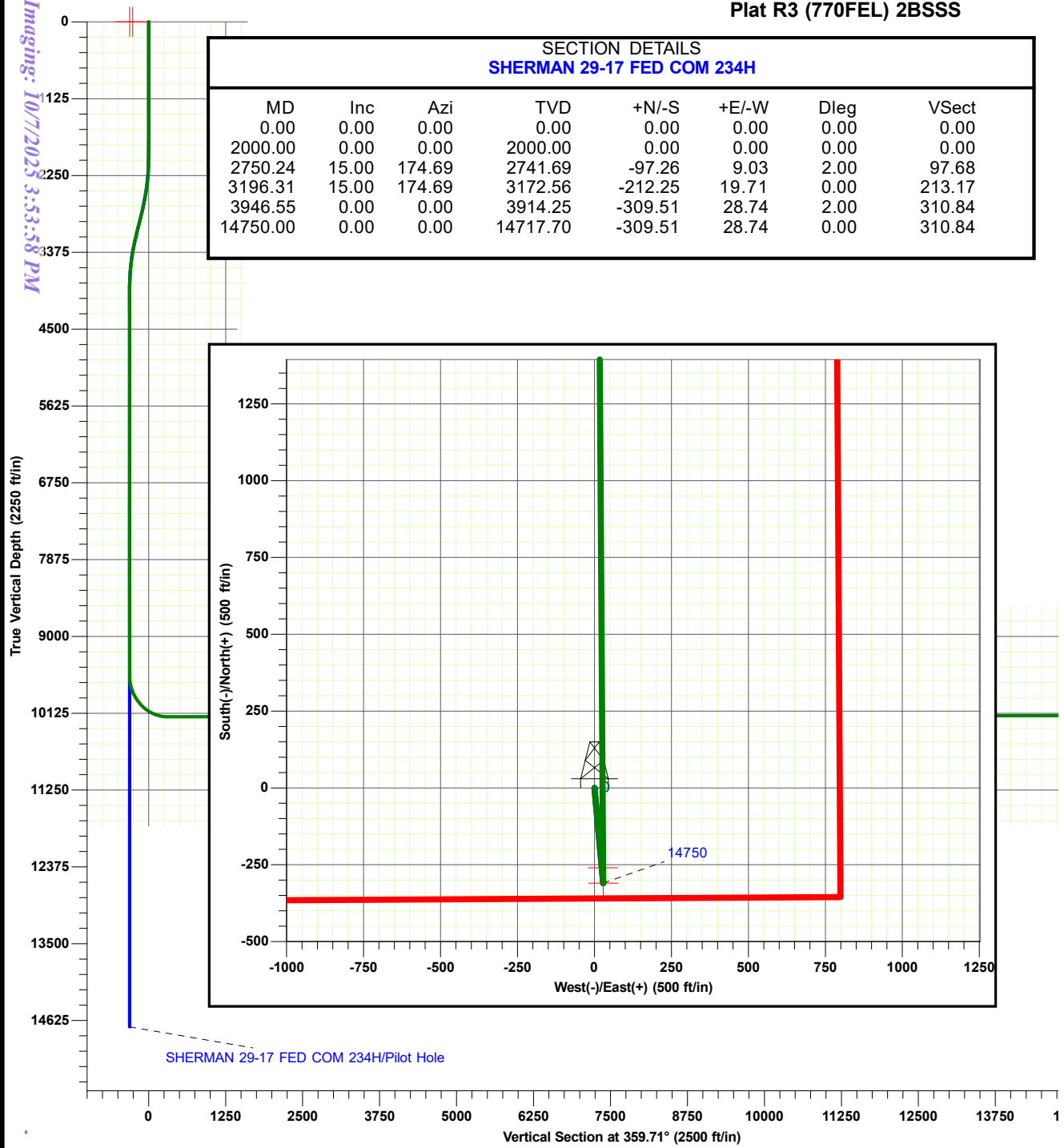
_____ Other, describe

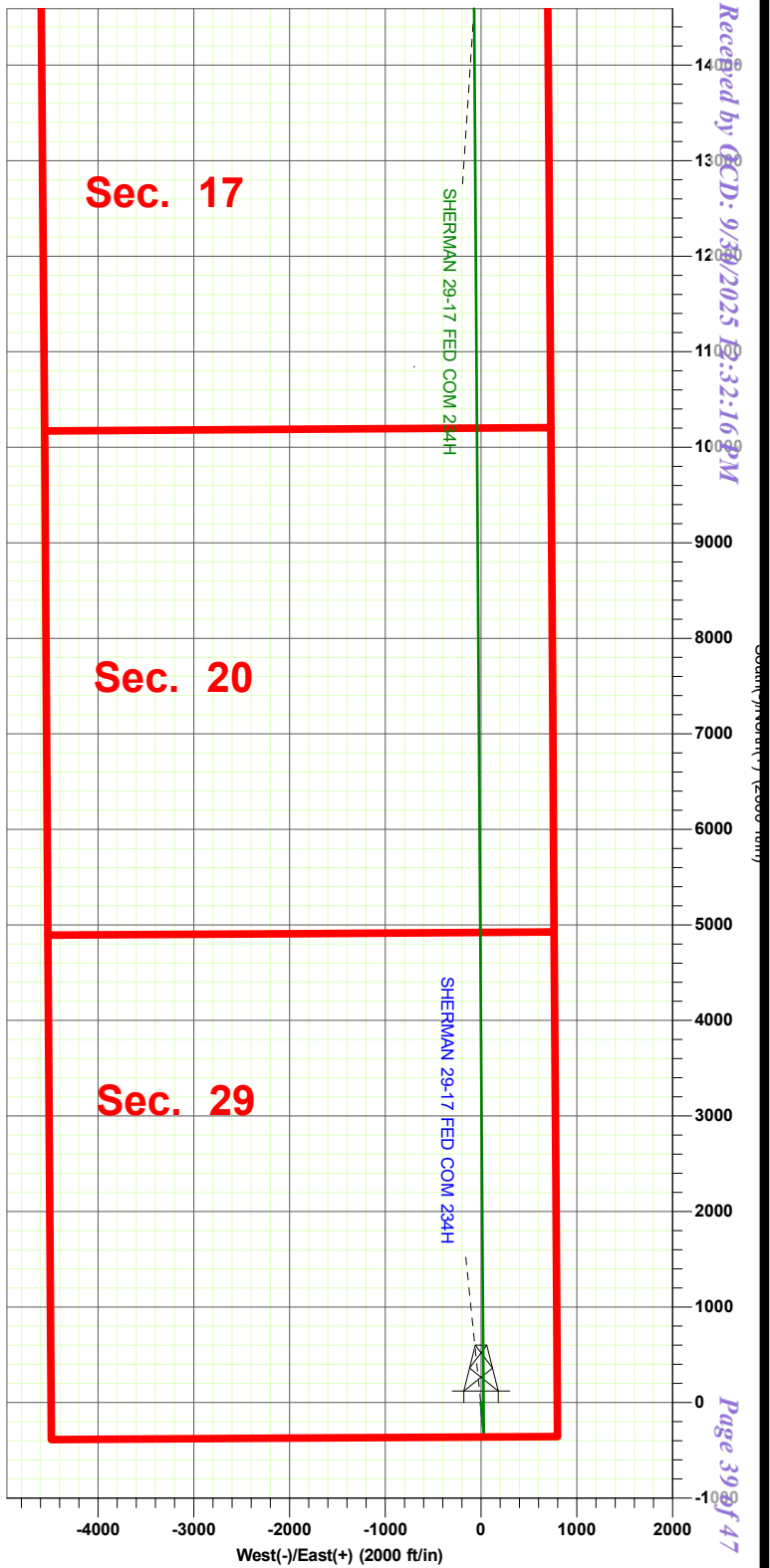
GL:3617+30ft @ 3647.00ft (H&P393)
Ground Level 3617.00

SHERMAN 29-17 FED COM 234H
Lea County (NAD83 New Mexico East)
Northing: 560021.29
Easting: 742852.67
Lat: 32.5378562
Long: -103.6794193
Plat R3 (770FEL) 2BSSS

SECTION DETAILS
SHERMAN 29-17 FED COM 234H

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
2750.24	15.00	174.69	2741.69	-97.26	9.03	2.00	97.68
3196.31	15.00	174.69	3172.56	-212.25	19.71	0.00	213.17
3946.55	0.00	0.00	3914.25	-309.51	28.74	2.00	310.84
14750.00	0.00	0.00	14717.70	-309.51	28.74	0.00	310.84





Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Project Lea County (NAD83 New Mexico East)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Sec 29-T20S-R33E

Site Position:		**Northing:**	559,635.02 usft	**Latitude:**	32.5368694
From:	Map	**Easting:**	738,364.98 usft	**Longitude:**	-103.6939885
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in		

Well SHERMAN 29-17 FED COM 234H

Well Position	**+N/-S**	0.00 ft	**Northing:**	560,021.29 usft	**Latitude:**	32.5378562
	+E/-W	0.00 ft	**Easting:**	742,852.67 usft	**Longitude:**	-103.6794193
Position Uncertainty		0.50 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,617.00 ft
Grid Convergence:		0.35 °				

Wellbore Pilot Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2019	6.75	60.30	47,849.86745169

Design Pilot Hole

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	174.69

Plan Survey Tool Program **Date** 9/25/2025

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,750.00	Pilot Hole (Pilot Hole)	MWD+HDGM OWSG MWD + HDGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.24	15.00	174.69	2,741.69	-97.26	9.03	2.00	2.00	0.00	174.69	
3,196.31	15.00	174.69	3,172.56	-212.25	19.71	0.00	0.00	0.00	0.00	
3,946.55	0.00	0.00	3,914.25	-309.51	28.74	2.00	-2.00	0.00	180.00	
14,750.00	0.00	0.00	14,717.70	-309.51	28.74	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
100.00	0.00	0.00	100.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
200.00	0.00	0.00	200.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
300.00	0.00	0.00	300.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
400.00	0.00	0.00	400.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
500.00	0.00	0.00	500.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
600.00	0.00	0.00	600.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
700.00	0.00	0.00	700.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
800.00	0.00	0.00	800.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
900.00	0.00	0.00	900.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,000.00	0.00	0.00	1,000.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,100.00	0.00	0.00	1,100.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,200.00	0.00	0.00	1,200.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,300.00	0.00	0.00	1,300.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,389.00	0.00	0.00	1,389.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
Rustler									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,500.00	0.00	0.00	1,500.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,600.00	0.00	0.00	1,600.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,700.00	0.00	0.00	1,700.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,784.00	0.00	0.00	1,784.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
Salt									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
1,900.00	0.00	0.00	1,900.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
2,000.00	0.00	0.00	2,000.00	0.00	0.00	560,021.29	742,852.67	32.5378562	-103.6794193
2,100.00	2.00	174.69	2,099.98	-1.74	0.16	560,019.55	742,852.83	32.5378514	-103.6794188
2,200.00	4.00	174.69	2,199.84	-6.95	0.65	560,014.34	742,853.31	32.5378371	-103.6794173
2,300.00	6.00	174.69	2,299.45	-15.63	1.45	560,005.67	742,854.12	32.5378132	-103.6794149
2,400.00	8.00	174.69	2,398.70	-27.76	2.58	559,993.53	742,855.24	32.5377799	-103.6794115
2,500.00	10.00	174.69	2,497.47	-43.34	4.02	559,977.96	742,856.69	32.5377370	-103.6794071
2,600.00	12.00	174.69	2,595.62	-62.33	5.79	559,958.96	742,858.45	32.5376848	-103.6794018
2,700.00	14.00	174.69	2,693.06	-84.73	7.87	559,936.56	742,860.53	32.5376232	-103.6793955
2,703.04	14.06	174.69	2,696.00	-85.46	7.94	559,935.83	742,860.60	32.5376212	-103.6793953
Marker 126									
2,750.24	15.00	174.69	2,741.69	-97.26	9.03	559,924.03	742,861.70	32.5375887	-103.6793919
2,800.00	15.00	174.69	2,789.76	-110.09	10.22	559,911.21	742,862.89	32.5375535	-103.6793883
2,900.00	15.00	174.69	2,886.35	-135.87	12.62	559,885.43	742,865.28	32.5374826	-103.6793811
3,000.00	15.00	174.69	2,982.94	-161.64	15.01	559,859.65	742,867.68	32.5374117	-103.6793738
3,100.00	15.00	174.69	3,079.53	-187.42	17.40	559,833.87	742,870.07	32.5373408	-103.6793666
3,196.31	15.00	174.69	3,172.56	-212.25	19.71	559,809.04	742,872.38	32.5372725	-103.6793596
3,200.00	14.93	174.69	3,176.12	-213.20	19.80	559,808.09	742,872.46	32.5372699	-103.6793593
3,270.03	13.53	174.69	3,244.00	-230.34	21.39	559,790.95	742,874.06	32.5372227	-103.6793545
Base of Salt									
3,300.00	12.93	174.69	3,273.17	-237.17	22.02	559,784.12	742,874.69	32.5372040	-103.6793526
3,400.00	10.93	174.69	3,371.01	-257.76	23.93	559,763.54	742,876.60	32.5371473	-103.6793468
3,500.00	8.93	174.69	3,469.50	-274.93	25.53	559,746.37	742,878.20	32.5371001	-103.6793419
3,525.79	8.42	174.69	3,495.00	-278.80	25.89	559,742.49	742,878.55	32.5370895	-103.6793409
Capitan Reef top									
3,600.00	6.93	174.69	3,568.54	-288.66	26.80	559,732.63	742,879.47	32.5370623	-103.6793381
3,700.00	4.93	174.69	3,668.00	-298.95	27.76	559,722.34	742,880.43	32.5370340	-103.6793352
3,800.00	2.93	174.69	3,767.76	-305.78	28.39	559,715.51	742,881.06	32.5370153	-103.6793333
3,900.00	0.93	174.69	3,867.70	-309.13	28.71	559,712.16	742,881.37	32.5370060	-103.6793323
3,946.55	0.00	0.00	3,914.25	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,000.00	0.00	0.00	3,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,100.00	0.00	0.00	4,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,200.00	0.00	0.00	4,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,300.00	0.00	0.00	4,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,400.00	0.00	0.00	4,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,500.00	0.00	0.00	4,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,600.00	0.00	0.00	4,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,700.00	0.00	0.00	4,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,800.00	0.00	0.00	4,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
4,900.00	0.00	0.00	4,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,000.00	0.00	0.00	4,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,100.00	0.00	0.00	5,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,163.30	0.00	0.00	5,131.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Delaware									
5,200.00	0.00	0.00	5,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,284.30	0.00	0.00	5,252.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Cherry Canyon									
5,300.00	0.00	0.00	5,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,400.00	0.00	0.00	5,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,500.00	0.00	0.00	5,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,600.00	0.00	0.00	5,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,700.00	0.00	0.00	5,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,800.00	0.00	0.00	5,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
5,900.00	0.00	0.00	5,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,000.00	0.00	0.00	5,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,100.00	0.00	0.00	6,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,200.00	0.00	0.00	6,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,300.00	0.00	0.00	6,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,400.00	0.00	0.00	6,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,500.00	0.00	0.00	6,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,525.30	0.00	0.00	6,493.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Brushy Canyon									
6,600.00	0.00	0.00	6,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,700.00	0.00	0.00	6,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,800.00	0.00	0.00	6,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
6,900.00	0.00	0.00	6,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,000.00	0.00	0.00	6,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,100.00	0.00	0.00	7,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,200.00	0.00	0.00	7,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,300.00	0.00	0.00	7,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,400.00	0.00	0.00	7,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,500.00	0.00	0.00	7,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,600.00	0.00	0.00	7,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,700.00	0.00	0.00	7,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,800.00	0.00	0.00	7,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
7,900.00	0.00	0.00	7,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,000.00	0.00	0.00	7,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,100.00	0.00	0.00	8,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,200.00	0.00	0.00	8,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,300.00	0.00	0.00	8,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,400.00	0.00	0.00	8,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,468.30	0.00	0.00	8,436.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring Lime 1st									
8,500.00	0.00	0.00	8,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,600.00	0.00	0.00	8,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,700.00	0.00	0.00	8,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,800.00	0.00	0.00	8,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
8,900.00	0.00	0.00	8,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,000.00	0.00	0.00	8,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,100.00	0.00	0.00	9,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,200.00	0.00	0.00	9,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,300.00	0.00	0.00	9,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,400.00	0.00	0.00	9,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,500.00	0.00	0.00	9,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,536.30	0.00	0.00	9,504.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 1st									
9,600.00	0.00	0.00	9,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,700.00	0.00	0.00	9,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,800.00	0.00	0.00	9,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
9,900.00	0.00	0.00	9,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,000.00	0.00	0.00	9,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,077.30	0.00	0.00	10,045.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 2nd									
10,100.00	0.00	0.00	10,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,200.00	0.00	0.00	10,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,300.00	0.00	0.00	10,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,400.00	0.00	0.00	10,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,500.00	0.00	0.00	10,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,600.00	0.00	0.00	10,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,700.00	0.00	0.00	10,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,800.00	0.00	0.00	10,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
10,900.00	0.00	0.00	10,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,000.00	0.00	0.00	10,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,044.30	0.00	0.00	11,012.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Bone Spring 3rd									
11,100.00	0.00	0.00	11,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,200.00	0.00	0.00	11,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,300.00	0.00	0.00	11,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,366.30	0.00	0.00	11,334.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Wolfcamp									
11,400.00	0.00	0.00	11,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,500.00	0.00	0.00	11,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,600.00	0.00	0.00	11,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,700.00	0.00	0.00	11,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,800.00	0.00	0.00	11,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
11,900.00	0.00	0.00	11,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,000.00	0.00	0.00	11,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,100.00	0.00	0.00	12,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,200.00	0.00	0.00	12,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,300.00	0.00	0.00	12,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,400.00	0.00	0.00	12,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,500.00	0.00	0.00	12,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,543.30	0.00	0.00	12,511.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Strawn									
12,600.00	0.00	0.00	12,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,700.00	0.00	0.00	12,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,800.00	0.00	0.00	12,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
12,900.00	0.00	0.00	12,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,931.30	0.00	0.00	12,899.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Atoka									
13,000.00	0.00	0.00	12,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,100.00	0.00	0.00	13,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,200.00	0.00	0.00	13,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,300.00	0.00	0.00	13,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,400.00	0.00	0.00	13,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,500.00	0.00	0.00	13,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,600.00	0.00	0.00	13,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,681.30	0.00	0.00	13,649.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Morrow									
13,700.00	0.00	0.00	13,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,800.00	0.00	0.00	13,767.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
13,900.00	0.00	0.00	13,867.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,000.00	0.00	0.00	13,967.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,017.30	0.00	0.00	13,985.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Barnett									
14,100.00	0.00	0.00	14,067.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,191.30	0.00	0.00	14,159.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Miss									
14,200.00	0.00	0.00	14,167.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,300.00	0.00	0.00	14,267.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,400.00	0.00	0.00	14,367.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,500.00	0.00	0.00	14,467.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,600.00	0.00	0.00	14,567.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,654.30	0.00	0.00	14,622.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
Woodford									
14,700.00	0.00	0.00	14,667.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
14,750.00	0.00	0.00	14,717.70	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(234H) 100FSL, 770	0.00	0.00	0.00	-259.51	28.40	559,761.78	742,881.07	32.5371424	-103.6793323
- plan misses target center by 261.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
KOP(234H) 50FSL, 770	0.00	0.00	0.00	-309.51	28.74	559,711.78	742,881.41	32.5370050	-103.6793322
- plan misses target center by 310.84ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP(234H) 100FNL, 770	0.00	0.00	10,160.00	15,380.14	-77.64	575,401.40	742,775.03	32.5801310	-103.6793647
- plan misses target center by 15690.01ft at 10192.30ft MD (10160.00 TVD, -309.51 N, 28.74 E)									
- Point									

Planning Report - Geographic

Database:	EDM_5000.17	**Local Co-ordinate Reference:**	Well SHERMAN 29-17 FED COM 234H
Company:	WCDSC Permian NM	**TVD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	GL:3617+30ft @ 3647.00ft (H&P393)
Site:	Sec 29-T20S-R33E	**North Reference:**	Grid
Well:	SHERMAN 29-17 FED COM 234H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot Hole		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,389.00	1,389.00	Rustler		0.00	
1,784.00	1,784.00	Salt		0.00	
2,703.04	2,696.00	Marker 126		0.00	
3,270.03	3,244.00	Base of Salt		0.00	
3,525.79	3,495.00	Capitan Reef top		0.00	
5,163.30	5,131.00	Delaware		0.00	
5,284.30	5,252.00	Cherry Canyon		0.00	
6,525.30	6,493.00	Brushy Canyon		0.00	
8,468.30	8,436.00	Bone Spring Lime 1st		0.00	
9,536.30	9,504.00	Bone Spring 1st		0.00	
10,077.30	10,045.00	Bone Spring 2nd		0.00	
11,044.30	11,012.00	Bone Spring 3rd		0.00	
11,366.30	11,334.00	Wolfcamp		0.00	
12,543.30	12,511.00	Strawn		0.00	
12,931.30	12,899.00	Atoka		0.00	
13,681.30	13,649.00	Morrow		0.00	
14,017.30	13,985.00	Barnett		0.00	
14,191.30	14,159.00	Miss		0.00	
14,654.30	14,622.00	Woodford		0.00	

Sherman 29 17 Fed Com 234H

20	surface csg in a	26	inch hole.		Design Factors					Surface		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	94.00	j 55	btc	10.89	0.81	1.15	1,370	3	1.94	1.53	128,780
"B"			btc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 879		Tail Cmt	does not	circ to sfc.	Totals:	1,370				128,780

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
26	1.5053	2383	3432	2062	66	9.00	1090	2M	2.50

Site plat (pipe racks S or E) as per O.O.1 III.D.4.i not found

13 3/8	casing inside the	20			Design Factors					Int 1		
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	68.00	J 55	btc	4.69	1.07	1.45	3,350	2	2.73	1.79	227,800
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 953					Totals:	3,350				227,800
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		1370				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	1203	3315	2771	20	10.50	1262	2M	1.56
r D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
t by stage % :		#VALUE!	#VALUE!				1203	3315	20

Class 'C' tail cmt yld > 1.35

10 3/4	casing inside the	13 3/8			Design Factors					Int 2		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50	J 55	btc scc	2.18	0.88	0.6	5,100	2	1.11	1.66	232,050
"B"							0				0
"C"							0				0
"D"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 281					Totals:	5,100				232,050
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		3350				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.1882	384	1071	1034	4	9.00	3227	5M	0.50

Class 'C' tail cmt yld > 1.35
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.7, b, c, d All > 0.70,
OK

8 5/8	casing inside the	10 3/4			Design Factors					Int 3		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	p 110	wedge 441	2.32	0.67	1.54	12,511	2	2.84	1.24	400,352
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 967					Totals:	12,511				400,352
	The cement volume(s) are intended to achieve a top of			4600	ft from surface or a		500				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	360	518	1002	-48	9.20	3307	5M	0.49
etting Depths for D V Tool(s):			8436				sum of sx	sum of CuFt	Σ% excess
% excess cmt by stage:		1	9				522	1048	5

Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX.

5 1/2	casing inside the	8 5/8			Design Factors					Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	p 110	wedge 461	3.15	2	2.28	25,716	2	3.82	3.36	514,320
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,235					Totals:	25,716				514,320
	The cement volume(s) are intended to achieve a top of			9100	ft from surface or a		3411				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Min Dist Hole-Cplg
7 7/8	0.1733	2379	3426	2898	18	10.50	0.91

Class 'H' tail cmt yld > 1.20

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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 510735
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	All logs shall be submitted to NMOCD.	10/7/2025
matthew.gomez	All plugs will be 100’ in length with 50’ excess of cement on inside plugs. OH plugs must cover all of the zone including 50’ above to 50’ below plus excess and WOC & tag.	10/7/2025
matthew.gomez	All lower strata must be isolated with plugs.	10/7/2025
matthew.gomez	Any previous COA’s not addressed within the updated COA’s still apply.	10/7/2025