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

Form C-101
August 1, 2011

Permit 394129

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

1. Operator Name and Address	2. OGRID Number
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	3. API Number 30-025-54850

4. Property Code	5. Property Name	6. Well No.
337451	DOVETAIL 18 7 STATE COM	132H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	18	21S	35E	4	506	S	701	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	7	21S	35E	C	100	N	1980	W	Lea

9. Pool Information

WILSON;BONE SPRING, NORTH	97704

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3638
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	21079	3rd Bone Spring Sand		8/29/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1677	1270	0
Int1	12.25	9.625	40	5723	1520	0
Prod	8.75	5.5	20	11142	750	5223
Prod	8.5	5.5	20	21079	1790	10392

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2500	2500	
Double Ram	5000	5000	
Pipe	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:			**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Stephanie Rabadue		Approved By:	Jeffrey Harrison	
Title:	Regulatory Manager		Title:	Petroleum Specialist III	
Email Address:	stephanie.rabadue@permianres.com		Approved Date:	7/23/2025	Expiration Date: 7/23/2027
Date:	7/18/2025	Phone: 432-260-4388	Conditions of Approval Attached		

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-54850	97704	Wilson; Bone Spring, North

Property Code	Property Name	Well Number
337451 ~~334547~~	DOVETAIL 18 7 STATE COM	132H

OGRID No.	Operator Name	Ground Level Elevation
372165	PERMIAN RESOURCES OPERATING, LLC	3,638'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal X | Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal X

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	18	21S	35E	LOT 4	506' FSL	701' FWL	32.473165°	-103.412639°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	7	21S	35E		100' FNL	1,980' FWL	32.500535°	-103.408463°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	Infill	~~025-51728~~	Y	C,O

Order Numbers. C: 205011; O: R-22738A | Well setbacks are under Common Ownership: ☒ Yes ☐ No X

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	18	21S	35E	LOT 4	506' FSL	701' FWL	32.473165°	-103.412639°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	18	21S	35E		100' FSL	1,980' FWL	32.472048°	-103.408493°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	7	21S	35E		100' FNL	1,980' FWL	32.500535°	-103.408463°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical X	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

7/16/2025

Signature Date

Jennifer Elrod

Printed Name

jelrod@ntglobal.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARK MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

Date: 7/14/2025

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
12177	7/14/2025

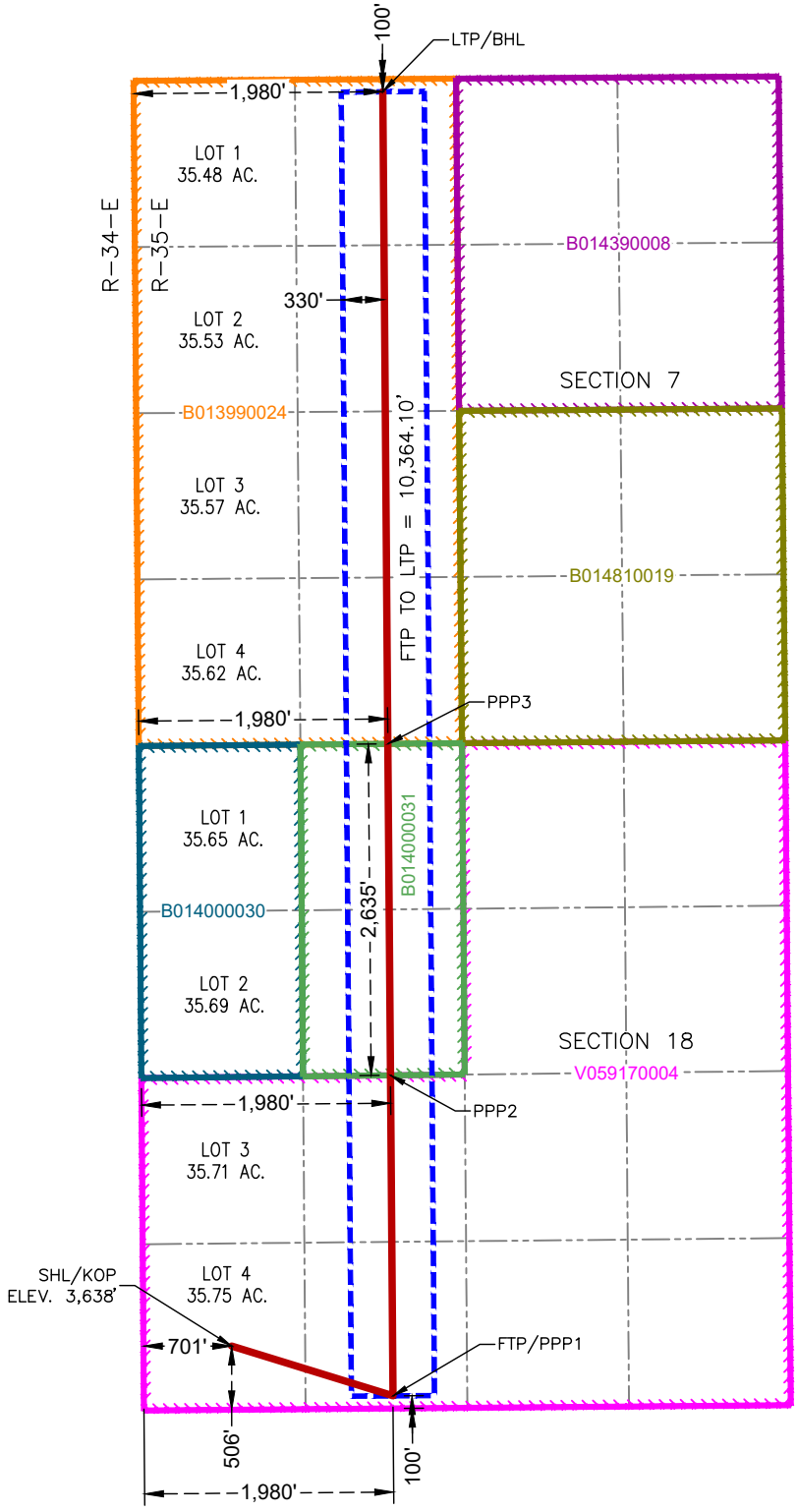
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

DOVETAIL 18 7 STATE COM 132H



SURFACE HOLE LOCATION
& KICK-OFF POINT
506' FSL & 701' FWL
ELEV. = 3,638'

NAD 83 X = 825,271.59'
NAD 83 Y = 537,093.02'
NAD 83 LAT = 32.473165°
NAD 83 LONG = -103.412639°
NAD 27 X = 784,088.68'
NAD 27 Y = 537,031.44'
NAD 27 LAT = 32.473040°
NAD 27 LONG = -103.412159°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FSL & 1,980' FWL

NAD 83 X = 826,553.87'
NAD 83 Y = 536,698.03'
NAD 83 LAT = 32.472048°
NAD 83 LONG = -103.408493°
NAD 27 X = 785,370.92'
NAD 27 Y = 536,636.46'
NAD 27 LAT = 32.471924°
NAD 27 LONG = -103.408013°

PENETRATION POINT 2
2,635' FNL & 1,980' FWL

NAD 83 X = 826,534.16'
NAD 83 Y = 539,245.24'
NAD 83 LAT = 32.479050°
NAD 83 LONG = -103.408485°
NAD 27 X = 785,351.25'
NAD 27 Y = 539,183.60'
NAD 27 LAT = 32.478926°
NAD 27 LONG = -103.408005°

PENETRATION POINT 3
0' FNL & 1,980' FWL

NAD 83 X = 826,513.79'
NAD 83 Y = 541,879.71'
NAD 83 LAT = 32.486291°
NAD 83 LONG = -103.408477°
NAD 27 X = 785,330.94'
NAD 27 Y = 541,818.00'
NAD 27 LAT = 32.486167°
NAD 27 LONG = -103.407997°

LAST TAKE POINT &
BOTTOM HOLE LOCATION
100' FNL & 1,980' FWL

NAD 83 X = 826,472.97'
NAD 83 Y = 547,061.81'
NAD 83 LAT = 32.500535°
NAD 83 LONG = -103.408463°
NAD 27 X = 785,290.22'
NAD 27 Y = 546,999.96'
NAD 27 LAT = 32.500410°
NAD 27 LONG = -103.407983°

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

Form APD Conditions

Permit 394129

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Permian Resources Operating, LLC [372165] 300 N. Marienfeld St Ste 1000 Midland, TX 79701	30-025-54850
	Well: DOVETAIL 18 7 STATE COM #132H

OCD Reviewer	Condition
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Proposed well is located within the Capitan Aquifer Reef zone. Casing requirements for this area stipulate that the surface and intermediate holes be drilled with fresh water and that casing be set and cemented to surface immediately below the Capitan to isolate it from the rest of the wellbore.

NEW MEXICO

(SP) LEA
DOVETAIL 18-17 PROJECT
DOVETAIL 18-7 ST 132H

OWB

Plan: PWP0

Standard Planning Report - Geographic

15 July, 2025

Planning Report - Geographic

Database:	Compass_17	**Local Co-ordinate Reference:**	Well DOVETAIL 18-7 ST 132H
Company:	NEW MEXICO	**TVD Reference:**	KB @ 3668.0usft
Project:	(SP) LEA	**MD Reference:**	KB @ 3668.0usft
Site:	DOVETAIL 18-17 PROJECT	**North Reference:**	Grid
Well:	DOVETAIL 18-7 ST 132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project (SP) LEA

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

Site DOVETAIL 18-17 PROJECT

Site Position:		**Northing:**	537,106.63 usft	**Latitude:**	32° 28' 23.538 N
From:	Map	**Easting:**	825,139.29 usft	**Longitude:**	103° 24' 47.043 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well DOVETAIL 18-7 ST 132H

Well Position	**+N/-S**	0.0 usft	**Northing:**	537,093.02 usft	**Latitude:**	32° 28' 23.392 N
	+E/-W	0.0 usft	**Easting:**	825,271.59 usft	**Longitude:**	103° 24' 45.500 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,638.0 usft
Grid Convergence:		0.49 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.50	48,959.82513911

Design PWP0

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	6.87

Plan Survey Tool Program **Date** 7/15/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,079.2	PWP0 (OWB)	MWD OWSG_Rev2_ MWD - Star	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,750.0	15.00	109.14	2,741.5	-32.0	92.2	2.00	2.00	0.00	109.14	
7,239.9	15.00	109.14	7,078.4	-413.0	1,190.1	0.00	0.00	0.00	0.00	
7,989.9	0.00	0.00	7,819.8	-445.0	1,282.3	2.00	-2.00	0.00	180.00	
10,392.6	0.00	0.00	10,222.5	-445.0	1,282.3	0.00	0.00	0.00	0.00	
11,142.6	90.00	359.55	10,700.0	32.4	1,278.6	12.00	12.00	-0.06	359.55	
21,079.2	90.00	359.55	10,700.0	9,968.8	1,201.4	0.00	0.00	0.00	0.00	BHL-DOVETAIL 18

Planning Report - Geographic

Database:	Compass_17	**Local Co-ordinate Reference:**	Well DOVETAIL 18-7 ST 132H
Company:	NEW MEXICO	**TVD Reference:**	KB @ 3668.0usft
Project:	(SP) LEA	**MD Reference:**	KB @ 3668.0usft
Site:	DOVETAIL 18-17 PROJECT	**North Reference:**	Grid
Well:	DOVETAIL 18-7 ST 132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	537,093.02	825,271.59	32° 28' 23.392 N	103° 24' 45.500 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	537,093.02	825,271.59	32° 28' 23.392 N	103° 24' 45.500 W
Start Build 2.00									
2,750.0	15.00	109.14	2,741.5	-32.0	92.2	537,061.02	825,363.81	32° 28' 23.068 N	103° 24' 44.427 W
Start 4489.9 hold at 2750.0 MD									
7,239.9	15.00	109.14	7,078.4	-413.0	1,190.1	536,680.03	826,461.65	32° 28' 19.204 N	103° 24' 31.651 W
Start Drop -2.00									
7,989.9	0.00	0.00	7,819.8	-445.0	1,282.3	536,648.02	826,553.87	32° 28' 18.880 N	103° 24' 30.578 W
Start 2402.7 hold at 7989.9 MD									
10,392.6	0.00	0.00	10,222.5	-445.0	1,282.3	536,648.02	826,553.87	32° 28' 18.880 N	103° 24' 30.578 W
Start DLS 12.00 TFO 359.55									
11,142.6	90.00	359.55	10,700.0	32.4	1,278.6	537,125.47	826,550.16	32° 28' 23.604 N	103° 24' 30.573 W
Start 9936.6 hold at 11142.6 MD									
21,079.2	90.00	359.55	10,700.0	9,968.8	1,201.4	547,061.81	826,472.97	32° 30' 1.924 N	103° 24' 30.469 W
TD at 21079.2									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP-DOVETAIL 18-7	0.00	0.00	10,700.0	-395.0	1,282.3	536,698.03	826,553.87	32° 28' 19.374 N	103° 24' 30.573 W
- plan misses target center by 164.1usft at 10806.9usft MD (10586.7 TVD, -276.3 N, 1281.0 E)									
- Point									
BHL-DOVETAIL 18-7	0.00	0.00	10,700.0	9,968.8	1,201.4	547,061.81	826,472.97	32° 30' 1.924 N	103° 24' 30.469 W
- plan hits target center									
- Point									
PP2-DOVETAIL 18-7	0.00	0.00	10,700.0	2,152.2	1,262.6	539,245.24	826,534.16	32° 28' 44.579 N	103° 24' 30.545 W
- plan misses target center by 2119.8usft at 11142.6usft MD (10700.0 TVD, 32.4 N, 1278.6 E)									
- Point									
PP3-DOVETAIL 18-7	0.00	0.00	10,700.0	4,786.7	1,242.2	541,879.71	826,513.79	32° 29' 10.647 N	103° 24' 30.517 W
- plan misses target center by 4754.4usft at 11142.6usft MD (10700.0 TVD, 32.4 N, 1278.6 E)									
- Point									

Planning Report - Geographic

Database:	Compass_17	**Local Co-ordinate Reference:**	Well DOVETAIL 18-7 ST 132H
Company:	NEW MEXICO	**TVD Reference:**	KB @ 3668.0usft
Project:	(SP) LEA	**MD Reference:**	KB @ 3668.0usft
Site:	DOVETAIL 18-17 PROJECT	**North Reference:**	Grid
Well:	DOVETAIL 18-7 ST 132H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,513.6	3,479.0	YTES			
4,110.5	4,055.6	CPTN			
5,818.5	5,705.4	CYCN			
6,801.3	6,654.7	BYCN			
7,921.2	7,751.1	Basal BYCN			
8,268.9	8,098.8	BSGL			
8,272.5	8,102.4	BSGL			
8,525.5	8,355.5	LNRD			
9,410.0	9,239.9	FBSG Sand			
9,976.0	9,805.9	SBSG Sand			
10,953.5	10,663.0	TBSG Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,750.0	2,741.5	-32.0	92.2	Start 4489.9 hold at 2750.0 MD
7,239.9	7,078.4	-413.0	1,190.1	Start Drop -2.00
7,989.9	7,819.8	-445.0	1,282.3	Start 2402.7 hold at 7989.9 MD
10,392.6	10,222.5	-445.0	1,282.3	Start DLS 12.00 TFO 359.55
11,142.6	10,700.0	32.4	1,278.6	Start 9936.6 hold at 11142.6 MD
21,079.2	10,700.0	9,968.8	1,201.4	TD at 21079.2

Permian Resources - Dovetail 18 7 State Com 132H

1. Geologic Formations

Formation	Elevation	TVD	Target
Rustler	2016	1652	No
Salado (Top of Salt)	1942	1726	No
Yates	165	3503	No
Capitan	-440	4108	No
Cherry Canyon	-2005	5673	No
Brushy Canyon	-2900	6568	No
Bone Spring Lime	-4386	8054	No
1st Bone Spring Sand	-5573	9241	No
2nd Bone Spring Sand	-6120	9788	No
3rd Bone Spring Sand	-6976	10644	Yes
Wolfcamp	-7093	10761	No

2. Blowout Prevention

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12.25	13-5/8”	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		
8.75	13-5/8”	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

Requesting Variance? YES
Variance request: Flex hose and offline cement variances, see attachments in section 8.
Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both

Choke Diagram Attachment: 5M Choke Manifold
BOP Diagram Attachment: BOP Schematics

3. Casing

String	Hole Size	Casing Size	Top	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1677	0	1677	1677	J55	54.5	BTC	1.36	1.44	Dry	4.75	Dry	4.46
Intermediate	12.25	9.625	0	5723	0	5723	5723	J55	40	BTC	2.20	1.43	Dry	2.17	Dry	1.92
Production	8.75	5.5	0	11142	0	10700	11142	P110RY	20	Bushmast	1.90	1.98	Dry	2.04	Dry	2.04
Production	8.5	5.5	11142	21079	10700	10700	9937	P110RY	20	Bushmast	1.90	1.98	Dry	2.04	Dry	2.04
								BLM Min Safety Factor			1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quanity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	lead	0	1340	1000	1.88	12.9	1870	100%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Surface	Tail	1340	1677	270	1.34	14.8	360	50%	Class C	Accelerator
Intermediate	Lead	3528	4570	270	1.88	12.9	490	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate	Tail	4570	5723	420	1.34	14.8	550	50%	Class C	Retarder
Stage Tool Depth		3528								
Intermediate 2nd Stage	Lead	0	3028	670	1.88	12.9	1250	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 2nd Stage	Tail	3028	3528	160	1.33	14.8	200	25%	Class C	Salt
Production	Lead	5223	10392	750	2.41	11.5	1790	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	10392	21079	1790	1.73	12.5	3090	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarde

Bradenhead Variance Procedure

Intermediate Casing

Permian Resources requests to pump a two-stage cement job on the 2nd intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5. Circulating Medium

Mud System Type: Closed
Will an air or gas system be used: No
Describe what will be on location to control well or mitigate oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Cuttings Volume: 12300 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	1677	Spud Mud	8.6	9.5
1677	5723	Water Based Mud	10	10
5723	11142	Water Based Mud	9	10.5
11142	21079	OBM	9	10.5

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:
Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.
List of open and cased hole logs run in the well:
DIRECTIONAL SURVEY,GAMMA RAY LOG,
Coring operation description for the well:
N/A

7. Pressure

Anticipated Bottom Hole Pressure	5850	psi
Anticipated Surface Pressure	3488	psi
Anticipated Bottom Hole Temperature	162	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

8. Waste Management

Waste Type:	**Drilling**
Waste content description:	Fresh water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Weekly (after drilling all surfaces)
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	**Grey Water & Human Waste**
Waste content description:	Grey Water/Human Waste
Amount of waste:	5000 gallons
Waste disposal frequency:	Weekly
Safe containment description:	Approved waste storage tanks with containment
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	**Garbage**
Waste content description:	General trash/garbage
Amount of waste:	5000 lbs
Waste disposal frequency:	Weekly
Safe containment description:	Enclosed trash trailer
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	**Drilling**
Waste content description:	Drill Cuttings
Amount of waste:	12300 Cu Ft
Waste disposal frequency:	Per well
Safe containment description:	Steel tanks
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	**Drilling**
Waste content description:	Brine water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Monthly
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial

9. Other Information

Well Plan and AC Report: attached
Batching Drilling Procedure: attached
WBD: attached
Flex Hose Specs: attached
Offline Cementing Procedure Attached:

State of New Mexico
Energy, Minerals and Natural Resources Department

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Permian Resources Operating, LLC **OGRID:** 372165 **Date:** 7/10/2025

II. Type: ☑ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.
If Other, please describe: _____.

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil	Anticipated Gas	Anticipated Prod Water
Dovetail 18 7 State Com 131H		Lot 4-18-21S-35E	509' FSL & 668' FWL	1500 BOPD	1900 MCFD	4900 BWPD
Dovetail 18 7 State Com 132H		Lot 4-18-21S-35E	506' FSL & 701' FWL	1500 BOPD	1900 MCFD	4900 BWPD

IV. Central Delivery Point Name: Dovetail CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Dovetail 18 7 State Com 131H		09/08/2025	9/20/2025	3/15/2026	4/1/2026	4/1/2026
Dovetail 18-7 State Com 132H		09/08/2025	10/2/2025	3/15/2026	4/1/2026	4/1/2026

VI. Separation Equipment: ☑ Attach a complete description of how Operator will seize separation equipment to optimize gas capture.

VII. Operations Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☑ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
Effective April 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

X□ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well Name	API	Anticipated Average Natural Gas Rate	Anticipated Volume of Natural Gas for the First Year

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Volume of Natural Gas for the First Year

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas system(s) to which the well(s) will be connected.

XII. Line Capacity. Operator does □ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 – Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.
If Operator checks this box, Operator will select one of the following:

Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** Power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 – Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
   - **(a)** Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
   - **(b)** Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, not later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file and update for each Natural Gas Management Plan until the Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
   - **(c)** OCD may deny or conditionally approve and APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Jennifer Elrod
Printed Name:	Jennifer Elrod
Title:	Sr. Regulatory Analyst
E-mail Address:	jennifer.elrod@permianres.com
Date:	7/10/2025
Phone:	940-452-6214

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

Permian Resources Operating, LLC (Permian) utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:

Drilling

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

1) Appropriately sized and designed to ensure proper combustion effciency.

2)Equipped with an automatic ignitor or continuous pilot.

3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

Measurement or estimation

Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

VIII. Best Management Practices:

Permian Resources utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

Enhanced Natural Gas Management Plan

Operator's Plan to Manage Production in Response to Increased Line Pressure

Permian Resources Operating, LLC (Permian) anticipates that its existing wells connected to the same portion of the natural gas gathering system will continue to meet anticipated increases in line pressure caused by the new wells. Permian will actively monitor line pressure throughout the field and will make necessary adjustments to existing production separators' pressures to send gas to sales. Permian also plans to implement automated alarms on all flare meters to alert of flaring events as they occur. The alarms will send notifications to field operations and engineering staff via text message and email at every occurrence of flaring. In addition, Permian plans to implement automated alarms on all flare meters to alert of any continuous flaring event that has continued for at least 4 hours. The alarms will send notifications to field operations and engineering management. Permian personnel will promptly respond to these alarms, communicate with midstream partners, and take the appropriate action to reduce flaring caused by high line pressure from new well production.