District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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 349567

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 1001 17th Street, Suite 1800 Denver, CO 80202	372165
	3. API Number 30-025-51989

4. Property Code	5. Property Name	6. Well No.
332479	MARGARITA 12 STATE COM	302H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	12	22S	34E	B	780	N	1385	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	36	21S	34E	I	2543	S	330	E	Lea

9. Pool Information

GRAMA RIDGE;BONE SPRING, NE	28435

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3589
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	17319	1st Bone Spring Sand		1/7/2024
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	1822	1380	0
Int1	12.25	9.625	40	5679	1490	0
Prod	7.875	5.5	20	17319	1080	9185
Prod	8.75	5.5	20	10085	580	5179

Casing/Cement Program: Additional Comments

Drilling 8.75-hole size for the curve and 7.875-hole size for the lateral for the 5.5 production casing string. Intermediate cement will be using a DV Tool set @ 3804.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	Cameron

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 Kanicia Schlichting	Approved By:	Paul F Kautz	
Title:	Regulatory Specialist	Title:	Geologist	
Email Address:	Kanicia.Schlichting@permianres.com	Approved Date:	9/14/2023	Expiration Date: 9/14/2025
Date:	9/6/2023 Phone: 432-232-2875	Conditions of Approval Attached		

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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	28435	Grama Ridge; Bone Spring, NE

[4] Property Code	[5] Property Name	[6] Well Number
332479	MARGARITA 12 STATE COM	302H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372165	PERMIAN RESOURCES OPERATING, LLC	3588.9'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	12	22S	34E		780	NORTH	1385	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	36	21S	34E		2543	SOUTH	330	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
242.64			

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.

[16]

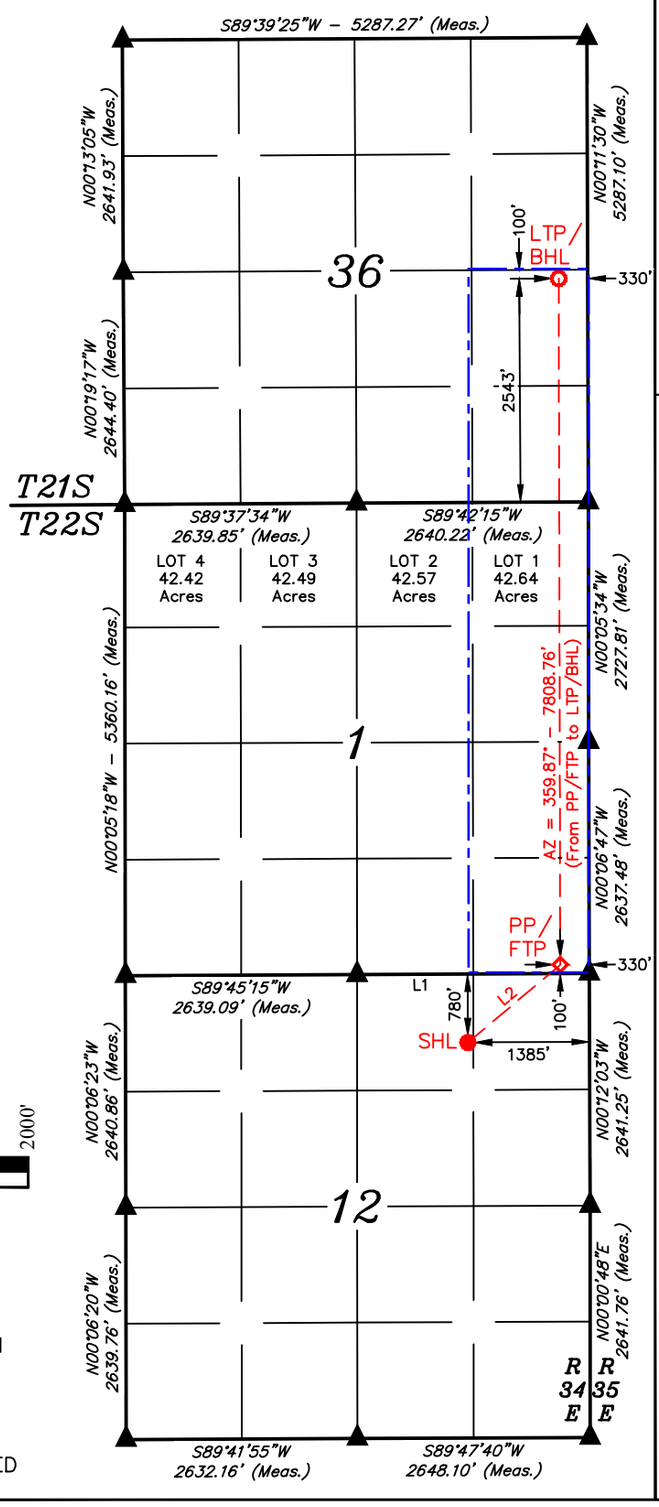
NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°24'40.80" (32.411334°)
LONGITUDE = -103°25'10.20" (-103.419499°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°24'40.35" (32.411210°)
LONGITUDE = -103°25'08.47" (-103.419020°)
STATE PLANE NAD 83 (N.M. EAST)
N: 514580.09' E: 823348.39'
STATE PLANE NAD 27 (N.M. EAST)
N: 514519.15' E: 782165.10'

NAD 83 (PP/FTP)
LATITUDE = 32°24'49.52" (32.413756°)
LONGITUDE = -103°24'57.89" (-103.416080°)
NAD 27 (PP/FTP)
LATITUDE = 32°24'49.07" (32.413631°)
LONGITUDE = -103°24'56.16" (-103.415601°)
STATE PLANE NAD 83 (N.M. EAST)
N: 515470.18' E: 824396.06'
STATE PLANE NAD 27 (N.M. EAST)
N: 515409.20' E: 783212.75'

NAD 83 (LTP/BHL)
LATITUDE = 32°26'06.78" (32.435215°)
LONGITUDE = -103°24'57.70" (-103.416027°)
NAD 27 (LTP/BHL)
LATITUDE = 32°26'06.33" (32.435091°)
LONGITUDE = -103°24'55.97" (-103.415548°)
STATE PLANE NAD 83 (N.M. EAST)
N: 523277.56' E: 824345.25'
STATE PLANE NAD 27 (N.M. EAST)
N: 523216.37' E: 783162.10'

LINE TABLE

LINE	DIRECTION	LENGTH
L1	S89°41'17"W	2642.31'
L2	N49°53'25"E	1374.93'



NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

2000' 1000' 0' 2000'

SCALE

DRAWN BY: S.T.O. 11-17-21
REV: 1 D.M.C. 08-02-23
(WELL BORE MOVE & COMPANY NAME CHANGE)

● = SURFACE HOLE LOCATION
◇ = PENETRATION POINT/ FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

[17] OPERATOR CERTIFICATION

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

9/5/23
Signature Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@permianres.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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.

November 15, 2021
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
08-02-23

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
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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 349567

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Permian Resources Operating, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	30-025-51989
	Well: MARGARITA 12 STATE COM #302H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A RCBL MUST BE RUN ON THAT STRING OF CASING.

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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:** 06 / 28 / 2023

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 BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Margarita 12 State Com	301H	B-12-T22S-R34E	780 FNL, 1415 FEL	1394 BOPD	1677 MCF/D	10588 BWPD
Margarita 12 State Com	302H	B-12-T22S-R34E	780 FNL, 1385 FEL	1046 BOPD	1258 MCF/D	7941 BWPD

IV. Central Delivery Point Name: Chorizo 601H Run 2 CRP [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 proposed to be 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
Margarita 12 State Com	301H	1/8/2024	1/23/2024	2/8/2024	2/16/2024	2/21/2024
Margarita 12 State Com	302H	12/25/2023	1/8/2024	2/8/2024	2/16/2024	2/21/2024

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

VII. Operational 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 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, no 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 an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an 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 that, 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:
Printed Name: Jackson Taylor
Title: Director of Midstream & Marketing
E-mail Address: jackson.taylor@permianres.com
Date: 7/24/2023
Phone: (432) 400-1048

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

Permian Resources Operating, LLC (372165)

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:

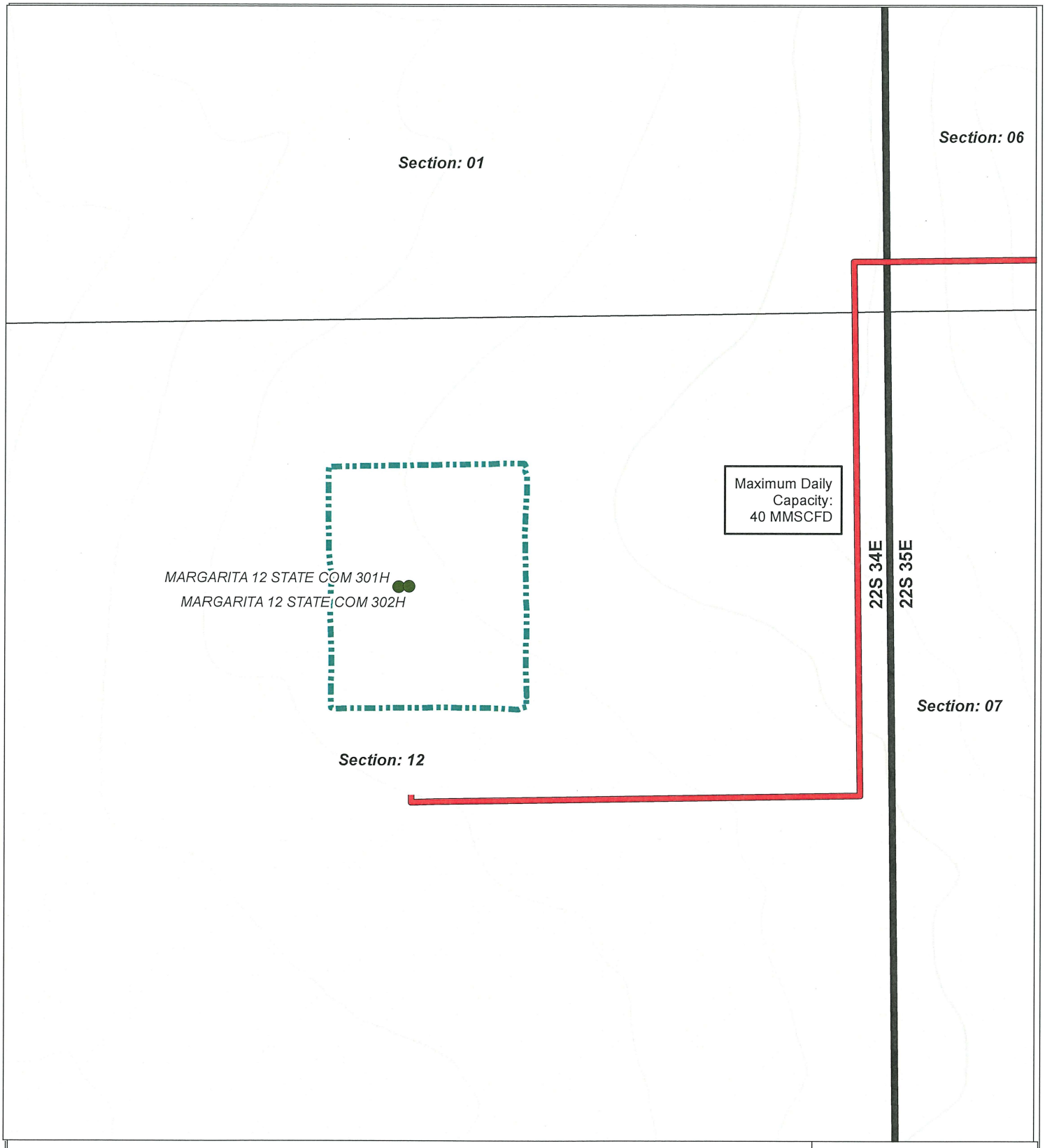
Permian Resources utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- 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.



Margarita 301 and 302 SHL

Pad / Battery Outlines

Gas Takeaway

PERMIAN RESOURCES

NM APD
Margarita 301/302
Gas Takeaway

A: Thomas.Douglass | D: 4/27/2023

0 87.5 175 350 Feet

N

X:\GIS\CorpProjects\Regulatory\NM_APD\Projects\NM_APD_Margarita_301_302.mxd

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

PERMIAN RESOURCES

Permian Resources Operating, LLC

Lea County, NM (NAD 83 NME)
Margarita Pad - Sec 12 T22S R34E
Margarita 12 State Com 302H

OWB

Plan: Plan #1

Standard Planning Report

22 August, 2023

INTREPID

PERMIAN RESOURCES

Planning Report

INTREPID

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Margarita 12 State Com 302H
Company:	Permian Resources Operating, LLC	**TVD Reference:**	KB @ 3618.9usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3618.9usft
Site:	Margarita Pad - Sec 12 T22S R34E	**North Reference:**	Grid
Well:	Margarita 12 State Com 302H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project Lea County, NM (NAD 83 NME)

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

Site Margarita Pad - Sec 12 T22S R34E

Site Position:		**Northing:**	514,579.81 usft	**Latitude:**	32° 24' 40.802 N
From:	Map	**Easting:**	823,318.40 usft	**Longitude:**	103° 25' 10.546 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.49 °

Well Margarita 12 State Com 302H

Well Position	**+N/-S**	0.3 usft	**Northing:**	514,580.09 usft	**Latitude:**	32° 24' 40.803 N
	+E/-W	30.0 usft	**Easting:**	823,348.39 usft	**Longitude:**	103° 25' 10.197 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,588.9 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/15/2023	6.29	60.04	47,620.00081590

Design Plan #1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.63

Plan Survey Tool Program **Date** 8/22/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,319.2	Plan #1 (OWB)	MWD	
				OWSG MWD - Standard	

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	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,388.6	11.77	49.65	2,384.5	39.0	45.9	2.00	2.00	0.00	49.65	
8,535.9	11.77	49.65	8,402.5	851.1	1,001.7	0.00	0.00	0.00	0.00	
9,124.6	0.00	0.00	8,987.0	890.1	1,047.7	2.00	-2.00	0.00	180.00	
9,184.6	0.00	0.00	9,047.0	890.1	1,047.7	0.00	0.00	0.00	0.00	
10,084.6	90.00	359.63	9,620.0	1,463.0	1,043.9	10.00	10.00	-0.04	359.63	
17,319.2	90.00	359.63	9,620.0	8,697.5	996.9	0.00	0.00	0.00	0.00	LTP/PBHL M12 SC 3(

PERMIAN RESOURCES

Planning Report

INTREPID

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Margarita 12 State Com 302H
Company:	Permian Resources Operating, LLC	**TVD Reference:**	KB @ 3618.9usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3618.9usft
Site:	Margarita Pad - Sec 12 T22S R34E	**North Reference:**	Grid
Well:	Margarita 12 State Com 302H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Nudge 2°/100 at 1800.00 MD									
1,900.0	2.00	49.65	1,900.0	1.1	1.3	1.1	2.00	2.00	0.00
2,000.0	4.00	49.65	1,999.8	4.5	5.3	4.5	2.00	2.00	0.00
2,100.0	6.00	49.65	2,099.5	10.2	12.0	10.1	2.00	2.00	0.00
2,200.0	8.00	49.65	2,198.7	18.1	21.2	17.9	2.00	2.00	0.00
2,300.0	10.00	49.65	2,297.5	28.2	33.2	28.0	2.00	2.00	0.00
2,388.6	11.77	49.65	2,384.5	39.0	45.9	38.7	2.00	2.00	0.00
Hold 11.77° inc at 2388.60 MD									
2,400.0	11.77	49.65	2,395.6	40.5	47.7	40.2	0.00	0.00	0.00
2,500.0	11.77	49.65	2,493.5	53.7	63.2	53.3	0.00	0.00	0.00
2,600.0	11.77	49.65	2,591.4	66.9	78.8	66.4	0.00	0.00	0.00
2,700.0	11.77	49.65	2,689.3	80.1	94.3	79.5	0.00	0.00	0.00
2,800.0	11.77	49.65	2,787.2	93.4	109.9	92.6	0.00	0.00	0.00
2,900.0	11.77	49.65	2,885.1	106.6	125.4	105.8	0.00	0.00	0.00
3,000.0	11.77	49.65	2,983.0	119.8	141.0	118.9	0.00	0.00	0.00
3,100.0	11.77	49.65	3,080.9	133.0	156.5	132.0	0.00	0.00	0.00
3,200.0	11.77	49.65	3,178.8	146.2	172.1	145.1	0.00	0.00	0.00
3,300.0	11.77	49.65	3,276.7	159.4	187.6	158.2	0.00	0.00	0.00
3,400.0	11.77	49.65	3,374.6	172.6	203.2	171.3	0.00	0.00	0.00
3,500.0	11.77	49.65	3,472.5	185.8	218.7	184.4	0.00	0.00	0.00
3,600.0	11.77	49.65	3,570.4	199.0	234.3	197.5	0.00	0.00	0.00
3,700.0	11.77	49.65	3,668.3	212.2	249.8	210.6	0.00	0.00	0.00
3,800.0	11.77	49.65	3,766.2	225.5	265.4	223.7	0.00	0.00	0.00
3,900.0	11.77	49.65	3,864.1	238.7	280.9	236.8	0.00	0.00	0.00
4,000.0	11.77	49.65	3,962.0	251.9	296.5	250.0	0.00	0.00	0.00
4,100.0	11.77	49.65	4,059.9	265.1	312.0	263.1	0.00	0.00	0.00
4,200.0	11.77	49.65	4,157.8	278.3	327.6	276.2	0.00	0.00	0.00
4,300.0	11.77	49.65	4,255.7	291.5	343.1	289.3	0.00	0.00	0.00
4,400.0	11.77	49.65	4,353.6	304.7	358.7	302.4	0.00	0.00	0.00
4,500.0	11.77	49.65	4,451.5	317.9	374.2	315.5	0.00	0.00	0.00
4,600.0	11.77	49.65	4,549.4	331.1	389.8	328.6	0.00	0.00	0.00
4,700.0	11.77	49.65	4,647.2	344.3	405.3	341.7	0.00	0.00	0.00
4,800.0	11.77	49.65	4,745.1	357.6	420.9	354.8	0.00	0.00	0.00
4,900.0	11.77	49.65	4,843.0	370.8	436.4	367.9	0.00	0.00	0.00

PERMIAN RESOURCES

Planning Report

INTREPID

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Margarita 12 State Com 302H
Company:	Permian Resources Operating, LLC	**TVD Reference:**	KB @ 3618.9usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3618.9usft
Site:	Margarita Pad - Sec 12 T22S R34E	**North Reference:**	Grid
Well:	Margarita 12 State Com 302H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	11.77	49.65	4,940.9	384.0	452.0	381.1	0.00	0.00	0.00
5,100.0	11.77	49.65	5,038.8	397.2	467.5	394.2	0.00	0.00	0.00
5,200.0	11.77	49.65	5,136.7	410.4	483.1	407.3	0.00	0.00	0.00
5,300.0	11.77	49.65	5,234.6	423.6	498.6	420.4	0.00	0.00	0.00
5,400.0	11.77	49.65	5,332.5	436.8	514.2	433.5	0.00	0.00	0.00
5,500.0	11.77	49.65	5,430.4	450.0	529.7	446.6	0.00	0.00	0.00
5,600.0	11.77	49.65	5,528.3	463.2	545.2	459.7	0.00	0.00	0.00
5,700.0	11.77	49.65	5,626.2	476.4	560.8	472.8	0.00	0.00	0.00
5,800.0	11.77	49.65	5,724.1	489.7	576.3	485.9	0.00	0.00	0.00
5,900.0	11.77	49.65	5,822.0	502.9	591.9	499.0	0.00	0.00	0.00
6,000.0	11.77	49.65	5,919.9	516.1	607.4	512.1	0.00	0.00	0.00
6,100.0	11.77	49.65	6,017.8	529.3	623.0	525.3	0.00	0.00	0.00
6,200.0	11.77	49.65	6,115.7	542.5	638.5	538.4	0.00	0.00	0.00
6,300.0	11.77	49.65	6,213.6	555.7	654.1	551.5	0.00	0.00	0.00
6,400.0	11.77	49.65	6,311.5	568.9	669.6	564.6	0.00	0.00	0.00
6,500.0	11.77	49.65	6,409.4	582.1	685.2	577.7	0.00	0.00	0.00
6,600.0	11.77	49.65	6,507.3	595.3	700.7	590.8	0.00	0.00	0.00
6,700.0	11.77	49.65	6,605.2	608.5	716.3	603.9	0.00	0.00	0.00
6,800.0	11.77	49.65	6,703.1	621.8	731.8	617.0	0.00	0.00	0.00
6,900.0	11.77	49.65	6,801.0	635.0	747.4	630.1	0.00	0.00	0.00
7,000.0	11.77	49.65	6,898.9	648.2	762.9	643.2	0.00	0.00	0.00
7,100.0	11.77	49.65	6,996.8	661.4	778.5	656.3	0.00	0.00	0.00
7,200.0	11.77	49.65	7,094.7	674.6	794.0	669.5	0.00	0.00	0.00
7,300.0	11.77	49.65	7,192.6	687.8	809.6	682.6	0.00	0.00	0.00
7,400.0	11.77	49.65	7,290.5	701.0	825.1	695.7	0.00	0.00	0.00
7,500.0	11.77	49.65	7,388.4	714.2	840.7	708.8	0.00	0.00	0.00
7,600.0	11.77	49.65	7,486.2	727.4	856.2	721.9	0.00	0.00	0.00
7,700.0	11.77	49.65	7,584.1	740.6	871.8	735.0	0.00	0.00	0.00
7,800.0	11.77	49.65	7,682.0	753.9	887.3	748.1	0.00	0.00	0.00
7,900.0	11.77	49.65	7,779.9	767.1	902.9	761.2	0.00	0.00	0.00
8,000.0	11.77	49.65	7,877.8	780.3	918.4	774.3	0.00	0.00	0.00
8,100.0	11.77	49.65	7,975.7	793.5	934.0	787.4	0.00	0.00	0.00
8,200.0	11.77	49.65	8,073.6	806.7	949.5	800.5	0.00	0.00	0.00
8,300.0	11.77	49.65	8,171.5	819.9	965.1	813.7	0.00	0.00	0.00
8,400.0	11.77	49.65	8,269.4	833.1	980.6	826.8	0.00	0.00	0.00
8,500.0	11.77	49.65	8,367.3	846.3	996.2	839.9	0.00	0.00	0.00
8,535.9	11.77	49.65	8,402.5	851.1	1,001.7	844.6	0.00	0.00	0.00
Drop 2°/100 at 8535.90 MD									
8,600.0	10.49	49.65	8,465.4	859.1	1,011.2	852.5	2.00	-2.00	0.00
8,700.0	8.49	49.65	8,564.0	869.8	1,023.7	863.1	2.00	-2.00	0.00
8,800.0	6.49	49.65	8,663.1	878.2	1,033.7	871.5	2.00	-2.00	0.00
8,900.0	4.49	49.65	8,762.7	884.4	1,041.0	877.7	2.00	-2.00	0.00
9,000.0	2.49	49.65	8,862.5	888.3	1,045.6	881.6	2.00	-2.00	0.00
9,100.0	0.49	49.65	8,962.4	890.0	1,047.6	883.2	2.00	-2.00	0.00
9,124.6	0.00	0.00	8,987.0	890.1	1,047.7	883.3	2.00	-2.00	0.00
Vertical at 9124.60 MD									
9,184.6	0.00	0.00	9,047.0	890.1	1,047.7	883.3	0.00	0.00	0.00
KOP 10°/100 at 9184.60 MD									
9,200.0	1.54	359.63	9,062.4	890.3	1,047.7	883.5	10.00	10.00	0.00
9,250.0	6.54	359.63	9,112.3	893.8	1,047.6	887.0	10.00	10.00	0.00
9,300.0	11.54	359.63	9,161.6	901.7	1,047.6	894.9	10.00	10.00	0.00
9,350.0	16.54	359.63	9,210.1	913.8	1,047.5	907.0	10.00	10.00	0.00
9,400.0	21.54	359.63	9,257.4	930.1	1,047.4	923.3	10.00	10.00	0.00

PERMIAN RESOURCES

Planning Report

INTREPID

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Margarita 12 State Com 302H
Company:	Permian Resources Operating, LLC	**TVD Reference:**	KB @ 3618.9usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3618.9usft
Site:	Margarita Pad - Sec 12 T22S R34E	**North Reference:**	Grid
Well:	Margarita 12 State Com 302H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,450.0	26.54	359.63	9,303.0	950.5	1,047.3	943.7	10.00	10.00	0.00
9,500.0	31.54	359.63	9,346.7	974.7	1,047.1	968.0	10.00	10.00	0.00
9,550.0	36.54	359.63	9,388.2	1,002.7	1,046.9	995.9	10.00	10.00	0.00
9,600.0	41.54	359.63	9,427.0	1,034.2	1,046.7	1,027.4	10.00	10.00	0.00
9,638.6	45.40	359.63	9,455.0	1,060.7	1,046.6	1,054.0	10.00	10.00	0.00
FTP M12 SC 302H									
9,650.0	46.54	359.63	9,462.9	1,069.0	1,046.5	1,062.2	10.00	10.00	0.00
9,700.0	51.54	359.63	9,495.7	1,106.7	1,046.3	1,099.9	10.00	10.00	0.00
9,750.0	56.54	359.63	9,525.0	1,147.2	1,046.0	1,140.4	10.00	10.00	0.00
9,800.0	61.54	359.63	9,550.7	1,190.0	1,045.7	1,183.2	10.00	10.00	0.00
9,850.0	66.54	359.63	9,572.6	1,235.0	1,045.4	1,228.2	10.00	10.00	0.00
9,900.0	71.54	359.63	9,590.5	1,281.6	1,045.1	1,274.9	10.00	10.00	0.00
9,950.0	76.54	359.63	9,604.2	1,329.7	1,044.8	1,322.9	10.00	10.00	0.00
10,000.0	81.54	359.63	9,613.7	1,378.8	1,044.5	1,372.0	10.00	10.00	0.00
10,050.0	86.54	359.63	9,618.9	1,428.5	1,044.2	1,421.7	10.00	10.00	0.00
10,084.6	90.00	359.63	9,620.0	1,463.0	1,043.9	1,456.3	10.00	10.00	0.00
LP at 10084.60 MD									
10,100.0	90.00	359.63	9,620.0	1,478.5	1,043.8	1,471.7	0.00	0.00	0.00
10,200.0	90.00	359.63	9,620.0	1,578.5	1,043.2	1,571.7	0.00	0.00	0.00
10,300.0	90.00	359.63	9,620.0	1,678.5	1,042.5	1,671.7	0.00	0.00	0.00
10,400.0	90.00	359.63	9,620.0	1,778.5	1,041.9	1,771.7	0.00	0.00	0.00
10,500.0	90.00	359.63	9,620.0	1,878.5	1,041.2	1,871.7	0.00	0.00	0.00
10,600.0	90.00	359.63	9,620.0	1,978.5	1,040.6	1,971.7	0.00	0.00	0.00
10,700.0	90.00	359.63	9,620.0	2,078.5	1,039.9	2,071.7	0.00	0.00	0.00
10,800.0	90.00	359.63	9,620.0	2,178.4	1,039.3	2,171.7	0.00	0.00	0.00
10,900.0	90.00	359.63	9,620.0	2,278.4	1,038.6	2,271.7	0.00	0.00	0.00
11,000.0	90.00	359.63	9,620.0	2,378.4	1,038.0	2,371.7	0.00	0.00	0.00
11,100.0	90.00	359.63	9,620.0	2,478.4	1,037.3	2,471.7	0.00	0.00	0.00
11,200.0	90.00	359.63	9,620.0	2,578.4	1,036.7	2,571.7	0.00	0.00	0.00
11,300.0	90.00	359.63	9,620.0	2,678.4	1,036.0	2,671.7	0.00	0.00	0.00
11,400.0	90.00	359.63	9,620.0	2,778.4	1,035.4	2,771.7	0.00	0.00	0.00
11,500.0	90.00	359.63	9,620.0	2,878.4	1,034.7	2,871.7	0.00	0.00	0.00
11,600.0	90.00	359.63	9,620.0	2,978.4	1,034.1	2,971.7	0.00	0.00	0.00
11,700.0	90.00	359.63	9,620.0	3,078.4	1,033.4	3,071.7	0.00	0.00	0.00
11,800.0	90.00	359.63	9,620.0	3,178.4	1,032.8	3,171.7	0.00	0.00	0.00
11,900.0	90.00	359.63	9,620.0	3,278.4	1,032.1	3,271.7	0.00	0.00	0.00
12,000.0	90.00	359.63	9,620.0	3,378.4	1,031.5	3,371.7	0.00	0.00	0.00
12,100.0	90.00	359.63	9,620.0	3,478.4	1,030.8	3,471.7	0.00	0.00	0.00
12,200.0	90.00	359.63	9,620.0	3,578.4	1,030.2	3,571.7	0.00	0.00	0.00
12,300.0	90.00	359.63	9,620.0	3,678.4	1,029.5	3,671.7	0.00	0.00	0.00
12,400.0	90.00	359.63	9,620.0	3,778.4	1,028.9	3,771.7	0.00	0.00	0.00
12,500.0	90.00	359.63	9,620.0	3,878.4	1,028.2	3,871.7	0.00	0.00	0.00
12,600.0	90.00	359.63	9,620.0	3,978.4	1,027.6	3,971.7	0.00	0.00	0.00
12,700.0	90.00	359.63	9,620.0	4,078.4	1,026.9	4,071.7	0.00	0.00	0.00
12,800.0	90.00	359.63	9,620.0	4,178.4	1,026.3	4,171.7	0.00	0.00	0.00
12,900.0	90.00	359.63	9,620.0	4,278.4	1,025.6	4,271.7	0.00	0.00	0.00
13,000.0	90.00	359.63	9,620.0	4,378.4	1,025.0	4,371.7	0.00	0.00	0.00
13,100.0	90.00	359.63	9,620.0	4,478.4	1,024.3	4,471.7	0.00	0.00	0.00
13,200.0	90.00	359.63	9,620.0	4,578.4	1,023.7	4,571.7	0.00	0.00	0.00
13,300.0	90.00	359.63	9,620.0	4,678.4	1,023.0	4,671.7	0.00	0.00	0.00
13,400.0	90.00	359.63	9,620.0	4,778.4	1,022.4	4,771.7	0.00	0.00	0.00
13,500.0	90.00	359.63	9,620.0	4,878.4	1,021.7	4,871.7	0.00	0.00	0.00
13,600.0	90.00	359.63	9,620.0	4,978.4	1,021.1	4,971.7	0.00	0.00	0.00
13,700.0	90.00	359.63	9,620.0	5,078.4	1,020.4	5,071.7	0.00	0.00	0.00

PERMIAN RESOURCES

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Wellbore:	OWB		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	90.00	359.63	9,620.0	5,178.4	1,019.8	5,171.7	0.00	0.00	0.00
13,900.0	90.00	359.63	9,620.0	5,278.4	1,019.1	5,271.7	0.00	0.00	0.00
14,000.0	90.00	359.63	9,620.0	5,378.4	1,018.5	5,371.7	0.00	0.00	0.00
14,100.0	90.00	359.63	9,620.0	5,478.4	1,017.8	5,471.7	0.00	0.00	0.00
14,200.0	90.00	359.63	9,620.0	5,578.4	1,017.2	5,571.7	0.00	0.00	0.00
14,300.0	90.00	359.63	9,620.0	5,678.4	1,016.5	5,671.7	0.00	0.00	0.00
14,400.0	90.00	359.63	9,620.0	5,778.4	1,015.9	5,771.7	0.00	0.00	0.00
14,500.0	90.00	359.63	9,620.0	5,878.4	1,015.2	5,871.7	0.00	0.00	0.00
14,600.0	90.00	359.63	9,620.0	5,978.4	1,014.6	5,971.7	0.00	0.00	0.00
14,700.0	90.00	359.63	9,620.0	6,078.4	1,013.9	6,071.7	0.00	0.00	0.00
14,800.0	90.00	359.63	9,620.0	6,178.4	1,013.3	6,171.7	0.00	0.00	0.00
14,900.0	90.00	359.63	9,620.0	6,278.4	1,012.6	6,271.7	0.00	0.00	0.00
15,000.0	90.00	359.63	9,620.0	6,378.4	1,012.0	6,371.7	0.00	0.00	0.00
15,100.0	90.00	359.63	9,620.0	6,478.4	1,011.3	6,471.7	0.00	0.00	0.00
15,200.0	90.00	359.63	9,620.0	6,578.4	1,010.7	6,571.7	0.00	0.00	0.00
15,300.0	90.00	359.63	9,620.0	6,678.4	1,010.0	6,671.7	0.00	0.00	0.00
15,400.0	90.00	359.63	9,620.0	6,778.4	1,009.3	6,771.7	0.00	0.00	0.00
15,500.0	90.00	359.63	9,620.0	6,878.4	1,008.7	6,871.7	0.00	0.00	0.00
15,600.0	90.00	359.63	9,620.0	6,978.3	1,008.0	6,971.7	0.00	0.00	0.00
15,700.0	90.00	359.63	9,620.0	7,078.3	1,007.4	7,071.7	0.00	0.00	0.00
15,800.0	90.00	359.63	9,620.0	7,178.3	1,006.7	7,171.7	0.00	0.00	0.00
15,900.0	90.00	359.63	9,620.0	7,278.3	1,006.1	7,271.7	0.00	0.00	0.00
16,000.0	90.00	359.63	9,620.0	7,378.3	1,005.4	7,371.7	0.00	0.00	0.00
16,100.0	90.00	359.63	9,620.0	7,478.3	1,004.8	7,471.7	0.00	0.00	0.00
16,200.0	90.00	359.63	9,620.0	7,578.3	1,004.1	7,571.7	0.00	0.00	0.00
16,300.0	90.00	359.63	9,620.0	7,678.3	1,003.5	7,671.7	0.00	0.00	0.00
16,400.0	90.00	359.63	9,620.0	7,778.3	1,002.8	7,771.7	0.00	0.00	0.00
16,500.0	90.00	359.63	9,620.0	7,878.3	1,002.2	7,871.7	0.00	0.00	0.00
16,600.0	90.00	359.63	9,620.0	7,978.3	1,001.5	7,971.7	0.00	0.00	0.00
16,700.0	90.00	359.63	9,620.0	8,078.3	1,000.9	8,071.7	0.00	0.00	0.00
16,800.0	90.00	359.63	9,620.0	8,178.3	1,000.2	8,171.7	0.00	0.00	0.00
16,900.0	90.00	359.63	9,620.0	8,278.3	999.6	8,271.7	0.00	0.00	0.00
17,000.0	90.00	359.63	9,620.0	8,378.3	998.9	8,371.7	0.00	0.00	0.00
17,100.0	90.00	359.63	9,620.0	8,478.3	998.3	8,471.7	0.00	0.00	0.00
17,200.0	90.00	359.63	9,620.0	8,578.3	997.6	8,571.7	0.00	0.00	0.00
17,300.0	90.00	359.63	9,620.0	8,678.3	997.0	8,671.7	0.00	0.00	0.00
17,319.2	90.00	359.63	9,620.0	8,697.5	996.9	8,690.9	0.00	0.00	0.00

TD at 17319.20 MD - LTP/PBHL M12 SC 302H

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 M12 SC 302H	0.00	0.00	9,620.0	890.1	1,047.7	515,470.18	824,396.06	32° 24' 49.521 N	103° 24' 57.887 W
- plan misses target center by 237.4usft at 9638.6usft MD (9455.0 TVD, 1060.7 N, 1046.6 E)									
- Point									
LTP/PBHL M12 SC 302H	0.00	0.00	9,620.0	8,697.5	996.9	523,277.56	824,345.25	32° 26' 6.775 N	103° 24' 57.698 W
- plan hits target center									
- Point									

PERMIAN RESOURCES

Planning Report

INTREPID

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Margarita 12 State Com 302H
Company:	Permian Resources Operating, LLC	**TVD Reference:**	KB @ 3618.9usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3618.9usft
Site:	Margarita Pad - Sec 12 T22S R34E	**North Reference:**	Grid
Well:	Margarita 12 State Com 302H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,800.0	1,800.0	0.0	0.0	Nudge 2°/100 at 1800.00 MD
2,388.6	2,384.5	39.0	45.9	Hold 11.77° inc at 2388.60 MD
8,535.9	8,402.5	851.1	1,001.7	Drop 2°/100 at 8535.90 MD
9,124.6	8,987.0	890.1	1,047.7	Vertical at 9124.60 MD
9,184.6	9,047.0	890.1	1,047.7	KOP 10°/100 at 9184.60 MD
10,084.6	9,620.0	1,463.0	1,043.9	LP at 10084.60 MD
17,319.2	9,620.0	8,697.5	996.9	TD at 17319.20 MD