

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 316637

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

1. Operator Name and Address Marlin Operating, LLC 2460 Greenbough Lane Southlake, TX 76092		2. OGRID Number 331054
		3. API Number 30-025-50297
4. Property Code 332942	5. Property Name PEGASUS 16 STATE	6. Well No. 352H

7. Surface Location

UL - Lot N	Section 16	Township 23S	Range 35E	Lot Idn N	Feet From 325	N/S Line S	Feet From 2108	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 16	Township 23S	Range 35E	Lot Idn C	Feet From 2	N/S Line N	Feet From 2108	E/W Line W	County Lea
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9. Pool Information

WC-025 G-08 S233528D;LWR BONE SPRIN	97958
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3424
16. Multiple N	17. Proposed Depth 16516	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 7/27/2022
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	1732	2100	0
Int1	12.25	9.962	40	6075	1500	0
Prod	8.75	5.5	20	16516	2800	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3000	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 Dallas Rysavy	Approved By: Paul F Kautz	
Title: CEO	Title: Geologist	
Email Address: dallas@marlinoperating.com	Approved Date: 7/1/2022	Expiration Date: 7/1/2024
Date: 5/20/2022	Phone: 817-675-8328	Conditions of Approval Attached

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

Form C-102
August 1, 2011

Permit 316637

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-50297	2. Pool Code 97958	3. Pool Name WC-025 G-08 S233528D;LWR BONE SPRIN
4. Property Code 332942	5. Property Name PEGASUS 16 STATE	6. Well No. 352H
7. OGRID No. 331054	8. Operator Name Marlin Operating, LLC	9. Elevation 3424

10. Surface Location

UL - Lot N	Section 16	Township 23S	Range 35E	Lot Idn N	Feet From 325	N/S Line S	Feet From 2108	E/W Line W	County Lea
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11. Bottom Hole Location If Different From Surface

UL - Lot C	Section 16	Township 23S	Range 35E	Lot Idn C	Feet From 2	N/S Line N	Feet From 2108	E/W Line W	County Lea
12. Dedicated Acres 160.00			13. Joint or Infill		14. Consolidation Code			15. Order No.	

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

	OPERATOR CERTIFICATION	
	<i>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(s) 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.</i>	
	E-Signed By: Dallas Rysavy Title: CEO Date: 5/20/2022	
	SURVEYOR CERTIFICATION	
<i>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.</i>		
Surveyed By: Stan Lloyd Date of Survey: 5/3/2022 Certificate Number: 19642		

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

Form APD Comments

Permit 316637

PERMIT COMMENTS

Operator Name and Address: Marlin Operating, LLC [331054] 2460 Greenbough Lane Southlake, TX 76092		API Number: 30-025-50297
		Well: PEGASUS 16 STATE #352H
Created By	Comment	Comment Date
pkautz	HOLD PROPERTY NAME NEEDS CHANGING	6/23/2022
pkautz	HOLD PROPERTY NAME NEEDS CHANGING	6/23/2022
pkautz	HOLD NGMP INCOMPLETE	6/23/2022

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Energy, Minerals and Natural Resources
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Form APD Conditions

Permit 316637

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Marlin Operating, LLC [331054] 2460 Greenbough Lane Southlake, TX 76092	API Number: 30-025-50297
	Well: PEGASUS 16 STATE #352H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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: Marlin Operating, LLC

OGRID: 33054

Date: 5/3/2022

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
PEGASUS 16ST 352H	30-025-50297	N-16-23S-35E	325 FSL & 2108 FWL	850	1500	3500

IV. Central Delivery Point Name: Lucid Midstream, LLC in N-16-23S-35E [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
PEGASUS 16ST 352H	30-025-50297	9-23-22	10-07-22	10-15-22	10-25-22	11-01-22

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 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.

☐ 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	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

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 gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. 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 attaches 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, 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: Jose Rosales

Title: Chief Operating Officer

E-mail Address: jose@marlinoperating.com

Date: May 3, 2022

Phone: 432-209-1090

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

Marlin Operating LLC Natural Gas Management Plan

VI. Separation Equipment

Separation equipment will be built on the Pegasus 23-35-16 #251H pad. The anticipated production rates from the Pegasus State 16 352H will be accounted for during design/construction to ensure sufficient capacity exists at the surface to capture all produced fluids.

VII. Operational Practices

Marlin Operating LLC will take the following actions outlined below to comply with 19.15.27.8 NMAC

A. Marlin Operating LLC plans to maximize recovery of natural gas and minimize waste thru venting/flaring

B. Marlin Operating LLC plans to flare during drilling operations from a location exceeding 100' away from the SHL. The flare will be used to combust natural gas brought to the surface during normal drilling operations. Safety will remain priority #1, and Marlin Operating LLC will account and report appropriately pertaining to any potential emergency.

C. Marlin Operating LLC plans flare any natural gas brought to the surface during normal completions operations. During flowback, fluids will immediately flow thru a separator on location. Gas will not be flared/vented unless there's a safety concern with pressures at the surface. Gas is expected to meet pipeline standards; if not, Marlin Operating LLC will flare for the allowed 60 days or less until the gas meets quality specifications. Marlin Operating LLC plans to sample the produced gas at a reasonable frequency or upon request from regulatory bodies.

D. Marlin Operating LLC does not plan to flare or vent natural gas except during the situations outlined in 19.15.27.8 D. (1-4).

E. Marlin Operating LLC will comply with standards outlined in 19.15.27.8 E. (1-8). Marlin Operating LLC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, Marlin Operating LLC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. Best Management Practices

Pressure maintenance at surface is vital to maintain safe working conditions; venting will be utilized only to depressurize our surface equipment. When maintaining surface or downhole equipment associated with the current production, the well will be shut-in to eliminate venting. If maintenance work takes place on the gas gathering side, gas will route to the flare to eliminate venting.

Trail 16 ST 352H

Drill Plan

Well Name: Trail 16 ST 352H

SL: 325' FSL & 2108' FWL Section 16, TN 23, RGE 35, State Lands Survey, Lea Co, N.M.

BHL 2' FNL & 2108' FWL Section 16, TN 23, RGE 35, State Lands Survey, Lea Co, N.M.

Casing Program

	Hole Size	Casing	Weight	Top	Bottom Depth	Cement	TOC
Surface	17.50	13.375	54.5	0	1732'	2100	0
Intermediate	12.25	9.625	40	0	6075'	1500	0
Production	8.75	5.5	20	0	16516'	2800	0

Plan to drill a 17-1/2" hole to 1732' with water. Run 13-3/8" 54.5# J-55 casing and cement to surface. Drill 12-1/4" hole to 6075' with brine water. Run 9-5/8" 40# HCL-80 casing and cement to surface. Drill 8-3/4" vertical/curve/lateral with OBM to **16516'**. Run 5-1/2" 20# HCP-110 and cement to surface.

Well Control

Type 13-5/8" Double Ram 10M
 13-5/8" Single Ram 10M
 13-5/8" Annular Ram 5M

Test 5,000 psi

Manufacturer: Cameron

Marlin Operating

Lea County, NM (NAD83 NME)

Phoenix/Trail

Trail 16 ST 352H

OH

Plan: Plan 1

Standard Planning Report

09 May, 2022



Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well Trail 16 ST 352H
Company:	Marlin Operating	TVD Reference:	GL 3424' & KB 30' @ 3454.00usft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL 3424' & KB 30' @ 3454.00usft
Site:	Phoenix/Trail	North Reference:	Grid
Well:	Trail 16 ST 352H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Lea County, NM (NAD83 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	Phoenix/Trail, Site Center: Phoenix 16 ST 252H					
Site Position:		Northing:	473,569.00 usft	Latitude:	32.298271	
From:	Map	Easting:	837,700.00 usft	Longitude:	-103.374190	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51 °

Well	Trail 16 ST 352H					
Well Position	+N/-S	0.00 usft	Northing:	473,569.00 usft	Latitude:	32.298271
	+E/-W	-25.00 usft	Easting:	837,675.00 usft	Longitude:	-103.374271
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,424.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	5/5/2022	6.42	59.88	47,658.90000000

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.53

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,194.32	3.89	179.46	6,194.17	-6.59	0.06	2.00	2.00	0.00	179.46	
10,721.39	3.89	179.46	10,710.83	-313.41	2.94	0.00	0.00	0.00	0.00	
10,915.71	0.00	0.00	10,905.00	-320.00	3.00	2.00	-2.00	0.00	180.00	
11,824.71	90.90	359.52	11,477.89	261.94	-1.86	10.00	10.00	0.00	359.52	BHL_T-352H
16,516.51	90.90	359.52	11,404.19	4,953.00	-41.00	0.00	0.00	0.00	0.00	BHL_T-352H

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well Trail 16 ST 352H
Company:	Marlin Operating	TVD Reference:	GL 3424' & KB 30' @ 3454.00usft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL 3424' & KB 30' @ 3454.00usft
Site:	Phoenix/Trail	North Reference:	Grid
Well:	Trail 16 ST 352H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well Trail 16 ST 352H
Company:	Marlin Operating	TVD Reference:	GL 3424' & KB 30' @ 3454.00usft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL 3424' & KB 30' @ 3454.00usft
Site:	Phoenix/Trail	North Reference:	Grid
Well:	Trail 16 ST 352H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	2.00	179.46	6,099.98	-1.75	0.02	-1.75	2.00	2.00	0.00
6,194.32	3.89	179.46	6,194.17	-6.59	0.06	-6.59	2.00	2.00	0.00
6,200.00	3.89	179.46	6,199.84	-6.97	0.07	-6.97	0.00	0.00	0.00
6,300.00	3.89	179.46	6,299.61	-13.75	0.13	-13.75	0.00	0.00	0.00
6,400.00	3.89	179.46	6,399.38	-20.53	0.19	-20.53	0.00	0.00	0.00
6,500.00	3.89	179.46	6,499.15	-27.31	0.26	-27.31	0.00	0.00	0.00
6,600.00	3.89	179.46	6,598.92	-34.08	0.32	-34.08	0.00	0.00	0.00
6,700.00	3.89	179.46	6,698.69	-40.86	0.38	-40.86	0.00	0.00	0.00
6,800.00	3.89	179.46	6,798.46	-47.64	0.45	-47.64	0.00	0.00	0.00
6,900.00	3.89	179.46	6,898.23	-54.42	0.51	-54.42	0.00	0.00	0.00
7,000.00	3.89	179.46	6,998.00	-61.19	0.57	-61.20	0.00	0.00	0.00
7,100.00	3.89	179.46	7,097.77	-67.97	0.64	-67.97	0.00	0.00	0.00
7,200.00	3.89	179.46	7,197.54	-74.75	0.70	-74.75	0.00	0.00	0.00
7,300.00	3.89	179.46	7,297.31	-81.53	0.76	-81.53	0.00	0.00	0.00
7,400.00	3.89	179.46	7,397.08	-88.30	0.83	-88.31	0.00	0.00	0.00
7,500.00	3.89	179.46	7,496.85	-95.08	0.89	-95.08	0.00	0.00	0.00
7,600.00	3.89	179.46	7,596.62	-101.86	0.95	-101.86	0.00	0.00	0.00
7,700.00	3.89	179.46	7,696.39	-108.64	1.02	-108.64	0.00	0.00	0.00
7,800.00	3.89	179.46	7,796.16	-115.41	1.08	-115.42	0.00	0.00	0.00
7,900.00	3.89	179.46	7,895.93	-122.19	1.15	-122.20	0.00	0.00	0.00
8,000.00	3.89	179.46	7,995.70	-128.97	1.21	-128.97	0.00	0.00	0.00
8,100.00	3.89	179.46	8,095.47	-135.75	1.27	-135.75	0.00	0.00	0.00
8,200.00	3.89	179.46	8,195.24	-142.52	1.34	-142.53	0.00	0.00	0.00
8,300.00	3.89	179.46	8,295.01	-149.30	1.40	-149.31	0.00	0.00	0.00
8,400.00	3.89	179.46	8,394.78	-156.08	1.46	-156.09	0.00	0.00	0.00
8,500.00	3.89	179.46	8,494.55	-162.86	1.53	-162.86	0.00	0.00	0.00
8,600.00	3.89	179.46	8,594.32	-169.63	1.59	-169.64	0.00	0.00	0.00
8,700.00	3.89	179.46	8,694.09	-176.41	1.65	-176.42	0.00	0.00	0.00
8,800.00	3.89	179.46	8,793.86	-183.19	1.72	-183.20	0.00	0.00	0.00
8,900.00	3.89	179.46	8,893.63	-189.97	1.78	-189.97	0.00	0.00	0.00
9,000.00	3.89	179.46	8,993.40	-196.74	1.84	-196.75	0.00	0.00	0.00
9,100.00	3.89	179.46	9,093.17	-203.52	1.91	-203.53	0.00	0.00	0.00
9,200.00	3.89	179.46	9,192.94	-210.30	1.97	-210.31	0.00	0.00	0.00
9,300.00	3.89	179.46	9,292.71	-217.08	2.04	-217.09	0.00	0.00	0.00
9,400.00	3.89	179.46	9,392.48	-223.85	2.10	-223.86	0.00	0.00	0.00
9,500.00	3.89	179.46	9,492.25	-230.63	2.16	-230.64	0.00	0.00	0.00
9,600.00	3.89	179.46	9,592.02	-237.41	2.23	-237.42	0.00	0.00	0.00
9,700.00	3.89	179.46	9,691.79	-244.19	2.29	-244.20	0.00	0.00	0.00
9,800.00	3.89	179.46	9,791.56	-250.96	2.35	-250.98	0.00	0.00	0.00
9,900.00	3.89	179.46	9,891.33	-257.74	2.42	-257.75	0.00	0.00	0.00
10,000.00	3.89	179.46	9,991.10	-264.52	2.48	-264.53	0.00	0.00	0.00
10,100.00	3.89	179.46	10,090.87	-271.30	2.54	-271.31	0.00	0.00	0.00
10,200.00	3.89	179.46	10,190.64	-278.07	2.61	-278.09	0.00	0.00	0.00
10,300.00	3.89	179.46	10,290.41	-284.85	2.67	-284.86	0.00	0.00	0.00
10,400.00	3.89	179.46	10,390.18	-291.63	2.73	-291.64	0.00	0.00	0.00
10,500.00	3.89	179.46	10,489.95	-298.41	2.80	-298.42	0.00	0.00	0.00
10,600.00	3.89	179.46	10,589.72	-305.19	2.86	-305.20	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well Trail 16 ST 352H
Company:	Marlin Operating	TVD Reference:	GL 3424' & KB 30' @ 3454.00usft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL 3424' & KB 30' @ 3454.00usft
Site:	Phoenix/Trail	North Reference:	Grid
Well:	Trail 16 ST 352H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
10,700.00	3.89	179.46	10,689.49	-311.96	2.92	-311.98	0.00	0.00	0.00
10,721.39	3.89	179.46	10,710.83	-313.41	2.94	-313.43	0.00	0.00	0.00
10,800.00	2.31	179.46	10,789.32	-317.66	2.98	-317.68	2.00	-2.00	0.00
10,900.00	0.31	179.46	10,889.29	-319.96	3.00	-319.97	2.00	-2.00	0.00
10,915.71	0.00	0.00	10,905.00	-320.00	3.00	-320.01	2.00	-2.00	0.00
11,000.00	8.43	359.52	10,988.99	-313.81	2.95	-313.82	10.00	10.00	0.00
11,100.00	18.43	359.52	11,086.13	-290.62	2.75	-290.63	10.00	10.00	0.00
11,200.00	28.43	359.52	11,177.77	-250.91	2.42	-250.92	10.00	10.00	0.00
11,300.00	38.43	359.52	11,261.12	-195.89	1.96	-195.90	10.00	10.00	0.00
11,400.00	48.43	359.52	11,333.65	-127.23	1.39	-127.24	10.00	10.00	0.00
11,500.00	58.43	359.52	11,393.16	-47.03	0.72	-47.03	10.00	10.00	0.00
11,600.00	68.43	359.52	11,437.83	42.30	-0.02	42.30	10.00	10.00	0.00
11,700.00	78.43	359.52	11,466.31	138.02	-0.82	138.02	10.00	10.00	0.00
11,800.00	88.43	359.52	11,477.74	237.23	-1.65	237.24	10.00	10.00	0.00
11,824.71	90.90	359.52	11,477.89	261.94	-1.86	261.94	10.00	10.00	0.00
11,900.00	90.90	359.52	11,476.70	337.22	-2.48	337.23	0.00	0.00	0.00
12,000.00	90.90	359.52	11,475.13	437.20	-3.32	437.21	0.00	0.00	0.00
12,100.00	90.90	359.52	11,473.56	537.19	-4.15	537.20	0.00	0.00	0.00
12,200.00	90.90	359.52	11,471.99	637.17	-4.99	637.19	0.00	0.00	0.00
12,300.00	90.90	359.52	11,470.42	737.15	-5.82	737.18	0.00	0.00	0.00
12,400.00	90.90	359.52	11,468.85	837.14	-6.66	837.16	0.00	0.00	0.00
12,500.00	90.90	359.52	11,467.28	937.12	-7.49	937.15	0.00	0.00	0.00
12,600.00	90.90	359.52	11,465.71	1,037.11	-8.32	1,037.14	0.00	0.00	0.00
12,700.00	90.90	359.52	11,464.14	1,137.09	-9.16	1,137.13	0.00	0.00	0.00
12,800.00	90.90	359.52	11,462.57	1,237.07	-9.99	1,237.11	0.00	0.00	0.00
12,900.00	90.90	359.52	11,461.00	1,337.06	-10.83	1,337.10	0.00	0.00	0.00
13,000.00	90.90	359.52	11,459.43	1,437.04	-11.66	1,437.09	0.00	0.00	0.00
13,100.00	90.90	359.52	11,457.86	1,537.03	-12.50	1,537.08	0.00	0.00	0.00
13,200.00	90.90	359.52	11,456.29	1,637.01	-13.33	1,637.07	0.00	0.00	0.00
13,300.00	90.90	359.52	11,454.71	1,737.00	-14.16	1,737.05	0.00	0.00	0.00
13,400.00	90.90	359.52	11,453.14	1,836.98	-15.00	1,837.04	0.00	0.00	0.00
13,500.00	90.90	359.52	11,451.57	1,936.96	-15.83	1,937.03	0.00	0.00	0.00
13,600.00	90.90	359.52	11,450.00	2,036.95	-16.67	2,037.02	0.00	0.00	0.00
13,700.00	90.90	359.52	11,448.43	2,136.93	-17.50	2,137.00	0.00	0.00	0.00
13,800.00	90.90	359.52	11,446.86	2,236.92	-18.34	2,236.99	0.00	0.00	0.00
13,900.00	90.90	359.52	11,445.29	2,336.90	-19.17	2,336.98	0.00	0.00	0.00
14,000.00	90.90	359.52	11,443.72	2,436.88	-20.00	2,436.97	0.00	0.00	0.00
14,100.00	90.90	359.52	11,442.15	2,536.87	-20.84	2,536.95	0.00	0.00	0.00
14,200.00	90.90	359.52	11,440.58	2,636.85	-21.67	2,636.94	0.00	0.00	0.00
14,300.00	90.90	359.52	11,439.01	2,736.84	-22.51	2,736.93	0.00	0.00	0.00
14,400.00	90.90	359.52	11,437.44	2,836.82	-23.34	2,836.92	0.00	0.00	0.00
14,500.00	90.90	359.52	11,435.87	2,936.81	-24.18	2,936.91	0.00	0.00	0.00
14,600.00	90.90	359.52	11,434.29	3,036.79	-25.01	3,036.89	0.00	0.00	0.00
14,700.00	90.90	359.52	11,432.72	3,136.77	-25.84	3,136.88	0.00	0.00	0.00
14,800.00	90.90	359.52	11,431.15	3,236.76	-26.68	3,236.87	0.00	0.00	0.00
14,900.00	90.90	359.52	11,429.58	3,336.74	-27.51	3,336.86	0.00	0.00	0.00
15,000.00	90.90	359.52	11,428.01	3,436.73	-28.35	3,436.84	0.00	0.00	0.00
15,100.00	90.90	359.52	11,426.44	3,536.71	-29.18	3,536.83	0.00	0.00	0.00
15,200.00	90.90	359.52	11,424.87	3,636.69	-30.02	3,636.82	0.00	0.00	0.00
15,300.00	90.90	359.52	11,423.30	3,736.68	-30.85	3,736.81	0.00	0.00	0.00
15,400.00	90.90	359.52	11,421.73	3,836.66	-31.68	3,836.79	0.00	0.00	0.00
15,500.00	90.90	359.52	11,420.16	3,936.65	-32.52	3,936.78	0.00	0.00	0.00
15,600.00	90.90	359.52	11,418.59	4,036.63	-33.35	4,036.77	0.00	0.00	0.00
15,700.00	90.90	359.52	11,417.02	4,136.62	-34.19	4,136.76	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well Trail 16 ST 352H
Company:	Marlin Operating	TVD Reference:	GL 3424' & KB 30' @ 3454.00usft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL 3424' & KB 30' @ 3454.00usft
Site:	Phoenix/Trail	North Reference:	Grid
Well:	Trail 16 ST 352H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)	
15,800.00	90.90	359.52	11,415.45	4,236.60	-35.02	4,236.74	0.00	0.00	0.00	
15,900.00	90.90	359.52	11,413.88	4,336.58	-35.86	4,336.73	0.00	0.00	0.00	
16,000.00	90.90	359.52	11,412.30	4,436.57	-36.69	4,436.72	0.00	0.00	0.00	
16,100.00	90.90	359.52	11,410.73	4,536.55	-37.52	4,536.71	0.00	0.00	0.00	
16,200.00	90.90	359.52	11,409.16	4,636.54	-38.36	4,636.70	0.00	0.00	0.00	
16,300.00	90.90	359.52	11,407.59	4,736.52	-39.19	4,736.68	0.00	0.00	0.00	
16,400.00	90.90	359.52	11,406.02	4,836.51	-40.03	4,836.67	0.00	0.00	0.00	
16,500.00	90.90	359.52	11,404.45	4,936.49	-40.86	4,936.66	0.00	0.00	0.00	
16,516.51	90.90	359.52	11,404.19	4,953.00	-41.00	4,953.17	0.00	0.00	0.00	

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		
SL_T-352H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	473,569.00	837,675.00	32.298271 -103.374271		
PP_Plat_T-352H - plan misses target center by 323.01usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-323.00	3.00	473,246.00	837,678.00	32.297384 -103.374271		
FTP_Plat_T-352H - plan misses target center by 225.01usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-225.00	2.00	473,344.00	837,677.00	32.297653 -103.374271		
BHL_T-352H - plan hits target center - Point	0.00	0.00	11,404.19	4,953.00	-41.00	478,522.00	837,634.00	32.311886 -103.374260		
LTP_T-352H - plan misses target center by 0.18usft at 16418.50usft MD (11405.73 TVD, 4855.00 N, -40.18 E) - Point	0.00	0.00	11,405.73	4,855.00	-40.00	478,424.00	837,635.00	32.311616 -103.374260		

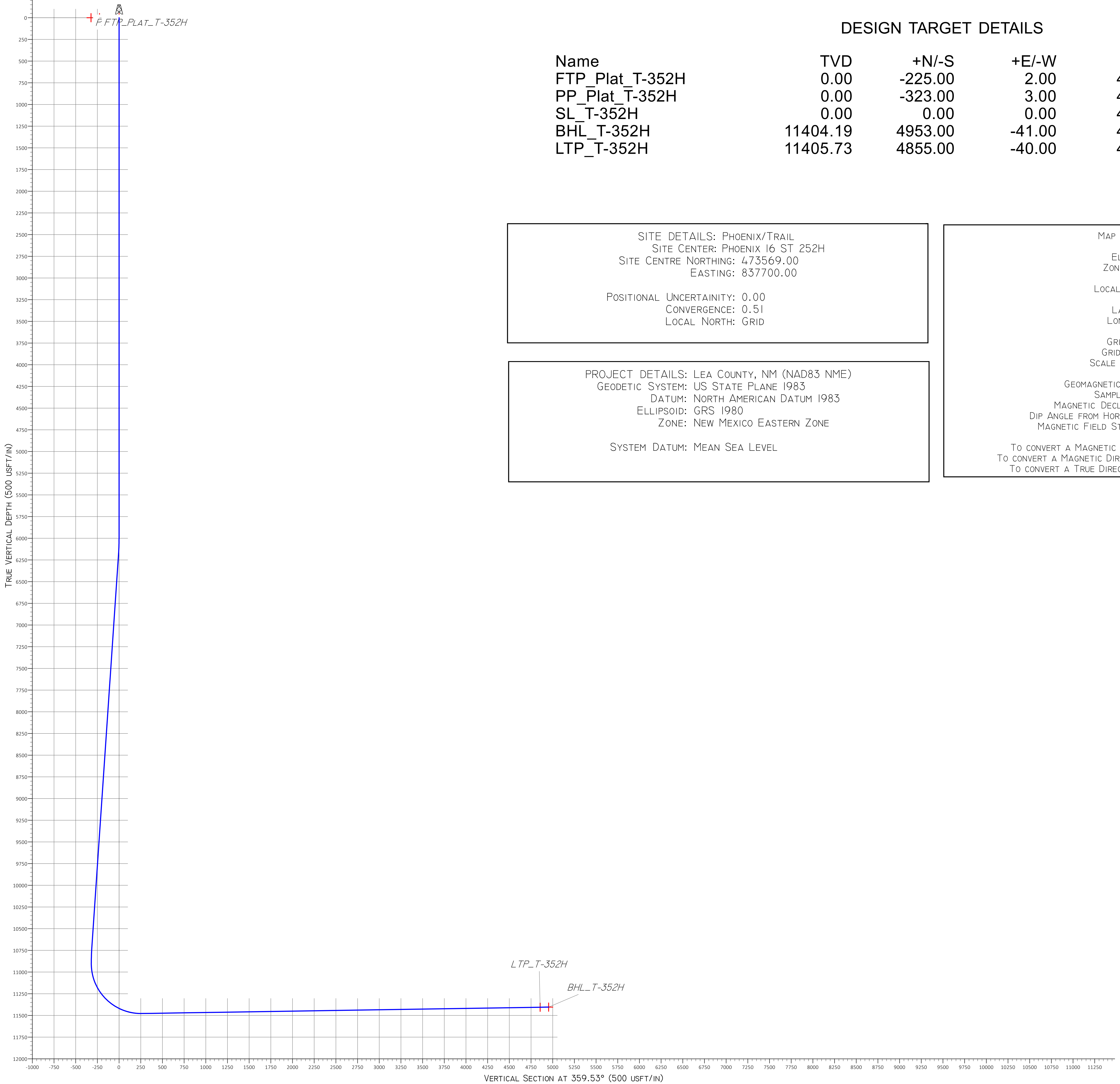


LEA COUNTY, NM (NAD83 NME)
PHOENIX/TRAIL
TRAIL 16 ST 352H

PLAN I

GL ELEV.: 3424.00

DEPTH REF.:GL 3424' & KB 30' @ 3454.00USFT



WELL DETAILS:

+N/-S	+E/-W	NORTHING	EASTING	LATITUDE	LONGITUDE
0.00	0.00	473569.00	837675.00	32.298271	-103.374271

SECTION DETAILS

MD	INC	AZI	TVD	+N/-S	+E/-W	DLEG	TFACE	VSECT	TARGET
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	
6194.32	3.89	179.46	6194.17	-6.59	0.06	2.00	179.46	-6.59	
10721.39	3.89	179.46	10710.83	-313.41	2.94	0.00	0.00	-313.43	
10915.71	0.00	0.00	10905.00	-320.00	3.00	2.00	180.00	-320.01	
11824.71	90.90	359.52	11477.89	261.94	-1.86	10.00	359.52	261.94	BHL_T-352H
16516.51	90.90	359.52	11404.19	4953.00	-41.00	0.00	0.00	4953.17	BHL_T-352H

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP_Plat_T-352H	0.00	-225.00	2.00	473344.00	837677.00
PP_Plat_T-352H	0.00	-323.00	3.00	473246.00	837678.00
SL_T-352H	0.00	0.00	0.00	473569.00	837675.00
BHL_T-352H	11404.19	4953.00	-41.00	478522.00	837634.00
LTP_T-352H	11405.73	4855.00	-40.00	478424.00	837635.00

SITE DETAILS: PHOENIX/TRAIL
SITE CENTER: PHOENIX 16 ST 252H
SITE CENTRE NORTHING: 473569.00
EASTING: 837700.00

POSITIONAL UNCERTAINTY: 0.00
CONVERGENCE: 0.51
LOCAL NORTH: GRID

PROJECT DETAILS: LEA COUNTY, NM (NAD83 NME)
GEODETIC SYSTEM: US STATE PLANE 1983
DATUM: NORTH AMERICAN DATUM 1983
ELLIPSOID: GRS 1980
ZONE: NEW MEXICO EASTERN ZONE

SYSTEM DATUM: MEAN SEA LEVEL

MAP SYSTEM: US STATE PLANE 1983
DATUM: NORTH AMERICAN DATUM 1983
ELLIPSOID: GRS 1980
ZONE NAME: NEW MEXICO EASTERN ZONE

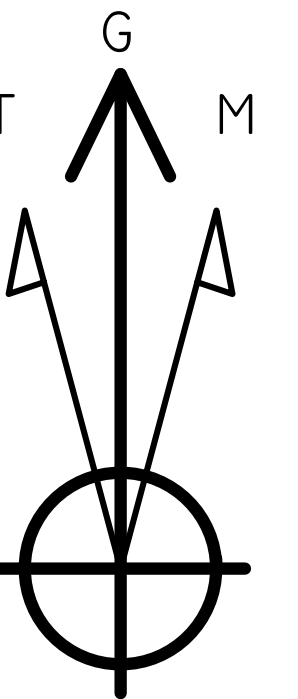
LOCAL ORIGIN: WELL TRAIL 16 ST 352H, GRID NORTH

LATITUDE: 32.298271
LONGITUDE: -103.374271

GRID EAST: 837675.00
GRID NORTH: 473569.00
SCALE FACTOR: 1.000

GEOMAGNETIC MODEL: HDGM2022
SAMPLE DATE: 05-MAY-22
MAGNETIC DECLINATION: 6.42°
DIP ANGLE FROM HORIZONTAL: 59.88°
MAGNETIC FIELD STRENGTH: 47658.90000000NT

TO CONVERT A MAGNETIC DIRECTION TO A GRID DIRECTION, ADD 5.90°
TO CONVERT A MAGNETIC DIRECTION TO A TRUE DIRECTION, ADD 6.42° EAST
TO CONVERT A TRUE DIRECTION TO A GRID DIRECTION, SUBTRACT 0.51°



AZIMUTHS TO GRID NORTH
TRUE NORTH: -0.51°
MAGNETIC NORTH: 5.90°
MAGNETIC FIELD
STRENGTH: 47658.9NT
DIP ANGLE: 59.88°
DATE: 5/5/2022
MODEL: HDGM2022

To convert a Magnetic Direction to a Grid Direction, Add 5.90°
To convert a True Direction to a Grid Direction, Subtract 0.51°

