

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 360107

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

1. Operator Name and Address Marlin Operating, LLC 1371 Brumlow Avenue Southlake, TX 76092		2. OGRID Number 331054
		3. API Number 30-025-52911
4. Property Code 335863	5. Property Name PEGASUS 16 STATE COM	6. Well No. 354H

7. Surface Location

UL - Lot P	Section 9	Township 23S	Range 35E	Lot Idn P	Feet From 500	N/S Line S	Feet From 900	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 21	Township 23S	Range 35E	Lot Idn P	Feet From 2	N/S Line S	Feet From 350	E/W Line E	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 3485
16. Multiple N	17. Proposed Depth 22140	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 9/25/2024
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	1750	2100	0
Int1	12.25	9.625	40	5744	1500	0
Prod	8.75	5.5	20	22140	2800	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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 Dallas Rysavy	Approved By: Paul F Kautz	
Title: CEO	Title: Geologist	
Email Address: dallas@marlinoperating.com	Approved Date: 5/9/2024	Expiration Date: 5/9/2026
Date: 4/30/2024	Phone: 817-675-8328	Conditions of Approval Attached

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

FORM C-10
Revised August 1, 201
Submit one copy to appropriate District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-	² Pool Code 97958	³ Pool Name WC-025 G-08 S233528D; LWR BONE SPRIN
⁴ Property Code 332942	⁵ Property Name PEGASUS UNIT STATE COM	⁶ Well Number 354H
⁷ OGRID No. 331054	⁸ Operator Name MARLIN OPERATING, LLC	⁹ Elevation 3485'

¹⁰Surface Location

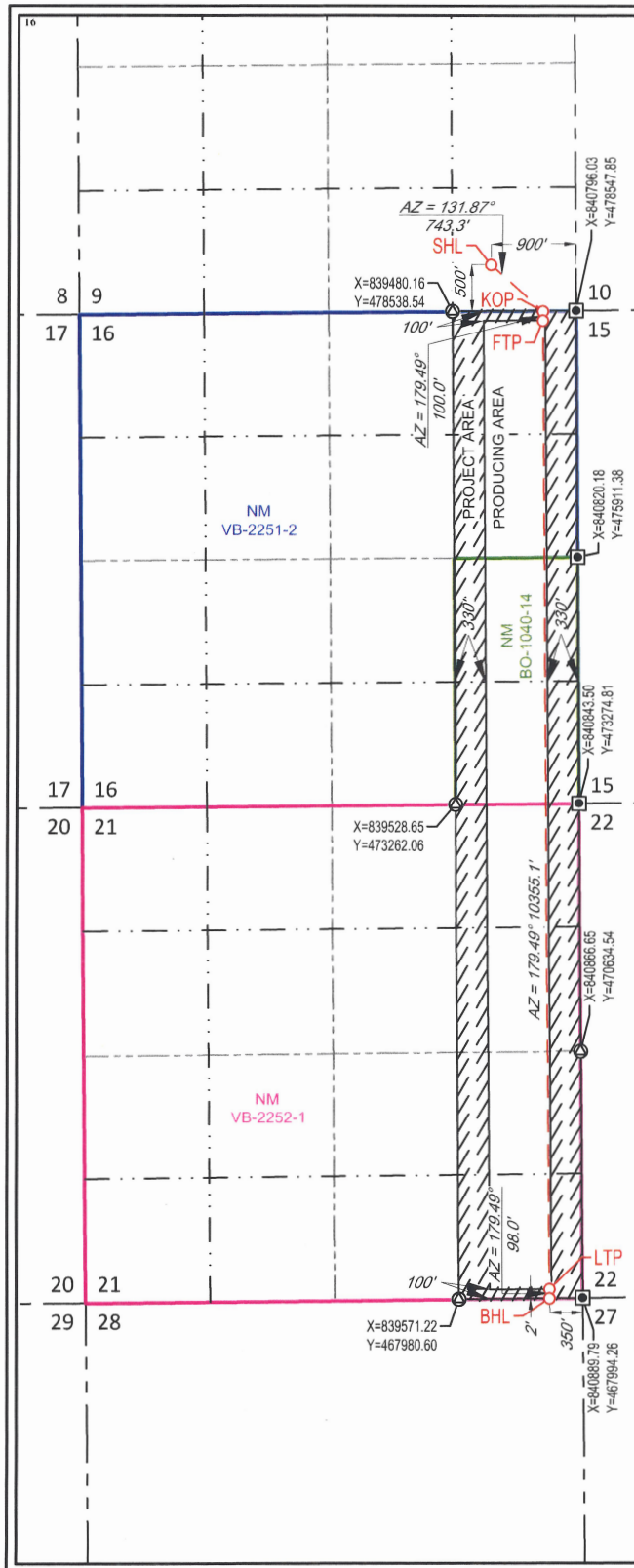
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	9	23-S	35-E	-	500'	SOUTH	900'	EAST	LEA

¹¹Bottom 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
P	21	23-S	35-E	-	2'	SOUTH	350'	EAST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



NEW MEXICO EAST
NAD 1983
SURFACE LOCATION (SHL)
500' FSL - SEC. 9
900' FEL - SEC. 9
X=839893 Y=479041
LAT.: N 32.3132577
LONG.: W 103.3669351
KICK OFF POINT (KOP)
0' FNL - SEC. 16
350' FEL - SEC. 16
X=840446 Y=478545
LAT.: N 32.3118804
LONG.: W 103.3651582
FIRST TAKE POINT (FTP)
100' FNL - SEC. 16
350' FEL - SEC. 16
X=840447 Y=478445
LAT.: N 32.3116056
LONG.: W 103.3651582
LAST TAKE POINT (LTP)
100' FSL - SEC. 21
350' FEL - SEC. 21
X=840539 Y=468091
LAT.: N 32.2831435
LONG.: W 103.3651631
BOTTOM HOLE LOCATION (BHL)
2' FSL - SEC. 21
350' FEL - SEC. 21
X=840540 Y=467993
LAT.: N 32.2828741
LONG.: W 103.3651632

¹⁷OPERATOR 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.


Signature
4/8/2024
Date

Dallas Rysavy
Printed Name

dallas@marlinoperating.com
E-mail Address

¹⁸SURVEYOR 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 to the best of my belief.

01/30/2024
Date of Survey

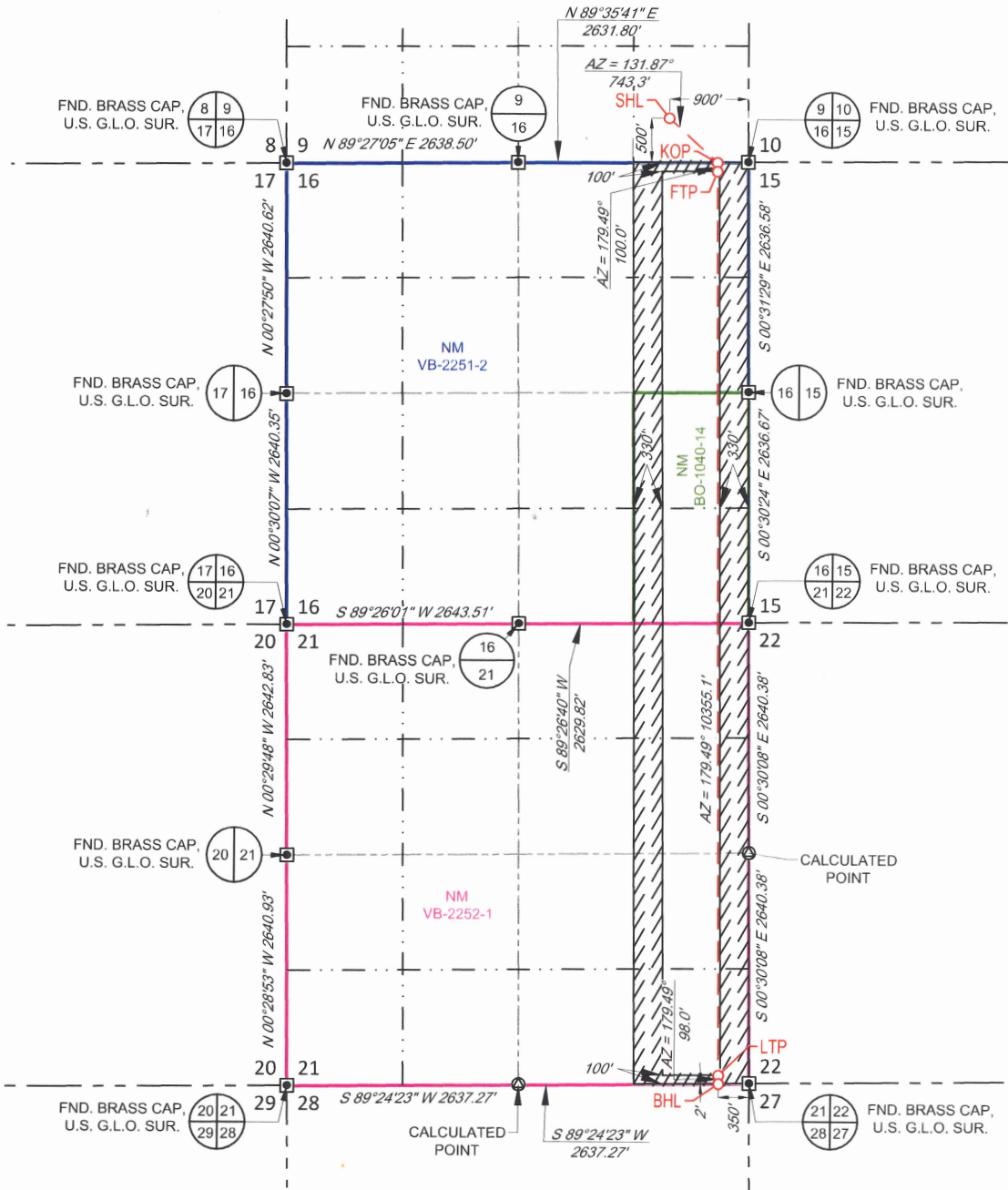

Signature and Seal of Professional Surveyor

2/13/2024 8:37:29 AM
Certificate Number

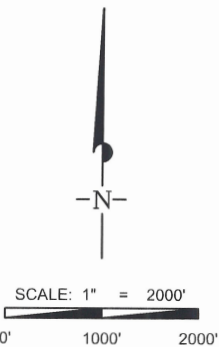

N



SECTION 9, TOWNSHIP 23-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983
<u>SURFACE LOCATION (SHL)</u> 500' FSL - SEC. 9 900' FEL - SEC. 9 X=839893 Y=479041 LAT.: N 32.3132577 LONG.: W 103.3669351
<u>KICK OFF POINT (KOP)</u> 0' FNL - SEC. 16 350' FEL - SEC. 16 X=840446 Y=478545 LAT.: N 32.3118804 LONG.: W 103.3651582
<u>FIRST TAKE POINT (FTP)</u> 100' FNL - SEC. 16 350' FEL - SEC. 16 X=840447 Y=478445 LAT.: N 32.3116056 LONG.: W 103.3651582
<u>LAST TAKE POINT (LTP)</u> 100' FSL - SEC. 21 350' FEL - SEC. 21 X=840539 Y=468091 LAT.: N 32.2831435 LONG.: W 103.3651631
<u>BOTTOM HOLE LOCATION (BHL)</u> 2' FSL - SEC. 21 350' FEL - SEC. 21 X=840540 Y=467993 LAT.: N 32.2828741 LONG.: W 103.3651632



LEASE NAME & WELL NO.: PEGASUS UNIT STATE COM 354H

SECTION 9 TWP 23-S RGE 35-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 500' FSL & 900' FEL

DISTANCE & DIRECTION
FROM INT. OF NM-128 AND DELAWARE BASIN RD., GO NORTH ON
DELAWARE BASIN RD. ±15.6 MILES, THENCE SOUTHEAST (RIGHT) ON
A LEASE RD. ±1.0 MILE TO A POINT ±2,340 FEET NORTHWEST OF THE
LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MARLIN OPERATING. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



2/13/2024 8:37:30 AM

Ramon A. Dominguez, P.S. No. 24508



481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

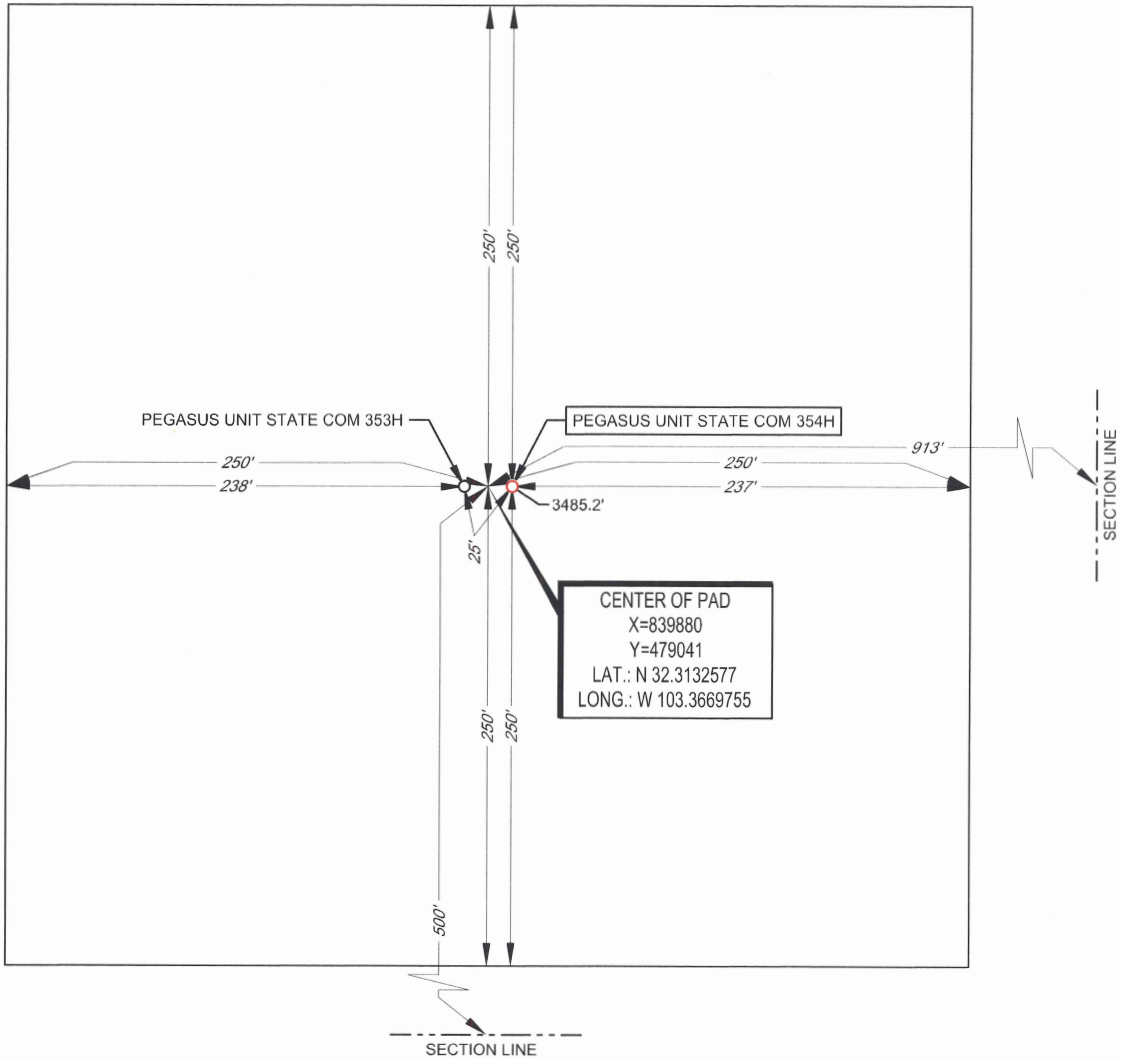
LEGEND

SECTION LINE

PROPOSED ROAD



SECTION 9, TOWNSHIP 23-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



2/13/2024 8:37:30 AM

Ramon A. Dominguez, P.S. No. 24508

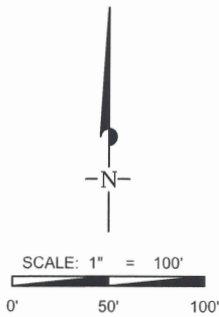
LEASE NAME & WELL NO.: PEGASUS UNIT STATE COM 354H
354H LATITUDE N 32.3132577 354H LONGITUDE W 103.3669351

CENTER OF PAD IS 500' FSL & 913' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MARLIN OPERATING. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO. ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



TOPOGRAPHIC

LOYALTY INNOVATION LEGACY

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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

S:\SURVEY\MARLIN_OPERATING\PEGASUS\FINAL_PRODUCTS\LO\LO_PEGASUS_UNIT_STATE_COM_354H.DWG 2/13/2024 8:37:30 AM kmatheny

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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 Comments

Permit 360107

PERMIT COMMENTS

Operator Name and Address: Marlin Operating, LLC [331054] 1371 Brumlow Avenue Southlake, TX 76092		API Number: 30-025-52911
		Well: PEGASUS 16 STATE COM #354H

Created By	Comment	Comment Date
jrosales	Regarding dedicated acreage: Unable to graphs lateral in units with SHL and BHL on multiple sections. OCD to address.	4/30/2024

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

Form APD Conditions
Permit 360107

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Marlin Operating, LLC [331054] 1371 Brumlow Avenue Southlake, TX 76092	API Number: 30-025-52911
	Well: PEGASUS 16 STATE COM #354H

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	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Pegasus 16 State #354H

Drill Plan

Well Name: Pegasus Unit State Com #354H

SL: 500' FSL & 900' FEL Section 9, TN 23S, RGE 35E, State Lands Survey, Lea Co, New Mexico

BHL 2' FNL & 350' FEL Section 21, TN 23S, RGE 35E, State Lands Survey, Lea Co, New Mexico

Casing Program

	Hole Size	Casing	Weight	Top	Bottom Depth	Cement	TOC
Surface	17.50	13.375	54.5	0	1750'	2100	0
Intermediate	12.25	9.625	40	0	5744'	1500	0
Production	8.75	5.5	20	0	22,139.93'	3500	0

Plan to drill a 17-1/2" hole to 1750' with water. Run 13-3/8" 54.4# J-55 casing and cement to surface. Drill 12-1/4" hole to 5744' 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 **22,139.93'**. 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 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 Unit State Com #354H 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.

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: 331054

Date: 4/25/2024

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 Unit State Com 354H	30-025-	P-9-23S-35E	500 FSL & 900 FEL	900	3150	1300

IV. Central Delivery Point Name: Targa Northern Delaware 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 Unit State Com 354H	30-025-	9-25-24	10-30-24	11-15-24	11-20-24	11-23-24

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: April 25, 2024
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

Lea County, NM (NAD83 NME)

Pegasus 16 State

PEGASUS UNIT STATE COM 354H

OH

Plan 3B

Anticollision Report

29 April, 2024



www.scientificdrilling.com



Scientific Drilling

Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Reference	Plan 3B
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00ft
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 1,000.00 ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	3/5/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,139.93	Plan 3B (OH)	MWD+HDGM	OWSG MWD + HDGM	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Pegasus 16 State						
Offset - Marlan Downey State Com 04 09 23S 35E 114H	9,840.98	16,873.99	149.29	4.03	1.028	Collision Avoidance Req., Out of range
Offset - Marlan Downey State Com 123H - OH - As Drille						
Offset - Marlan Downey State Com 124H - OH - As Drille	10,297.08	17,950.74	158.75	9.01	1.060	Collision Avoidance Req., Out of range
Offset - Marlan Downey State Com 124H - OH - As Drille	10,300.00	17,951.19	158.78	8.92	1.060	Collision Avoidance Req., Out of range
Offset - Pegasus 23-35-16 State 251H - Orig Hole - surve						
Pegasus 16 ST 253H - OH - Plan 1						Out of range
Pegasus 16 ST 254H - OH - Plan 1	9,761.85	14,901.39	573.64	493.11	7.124	CC, ES
Pegasus 16 ST 254H - OH - Plan 1	9,800.00	14,901.39	574.90	493.90	7.097	SF
Pegasus 16 State 252H - Orig Hole - surveys						Out of range
Pegasus 16 State 351H - Orig Hole - surveys						Out of range
Pegasus 16 State 352H - Orig Hole - surveys						Out of range
PEGASUS UNIT STATE COM 353H - OH - Plan 3	2,000.00	2,000.00	25.00	10.88	1.770	Collision Risk Procedures

Offset Design Pegasus 16 State - Offset - Marlan Downey State Com 04 09 23S 35E 114H - OH - OH												Offset Site Error:	0.00 ft
Survey Program: 180-MWD+HDGM												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,200.00	9,192.22	16,867.12	9,889.22	32.93	110.32	3.39	49.57	508.22	662.21	580.84	81.37	8.138	
9,300.00	9,292.11	16,868.29	9,889.24	33.30	110.34	3.84	48.40	508.24	565.16	481.80	83.36	6.780	
9,400.00	9,392.00	16,869.40	9,889.25	33.66	110.35	4.27	47.29	508.25	469.34	382.96	86.38	5.434	
9,500.00	9,491.89	16,870.47	9,889.27	34.02	110.37	4.69	46.22	508.26	375.70	284.35	91.35	4.113	
9,600.00	9,591.78	16,871.49	9,889.28	34.39	110.38	5.09	45.20	508.27	286.39	186.07	100.32	2.855	
9,700.00	9,691.67	16,872.47	9,889.30	34.75	110.40	5.47	44.22	508.28	207.10	89.92	117.18	1.767	Collision Risk Procedures Req.
9,800.00	9,791.59	16,873.50	9,889.31	35.11	110.41	5.79	43.19	508.29	155.01	14.14	140.87	1.100	Collision Avoidance Req.
9,840.98	9,832.56	16,873.99	9,889.32	35.25	110.42	4.69	42.70	508.29	149.29	4.03	145.27	1.028	Collision Avoidance Req., CC, ES,
9,900.00	9,891.58	16,874.76	9,889.33	35.46	110.43	-41.25	41.93	508.30	161.01	21.80	139.21	1.157	Collision Avoidance Req.
10,000.00	9,991.57	16,877.01	9,889.36	35.81	110.46	-39.67	39.68	508.33	218.75	101.86	116.89	1.871	Collision Risk Procedures Req.
10,100.00	10,091.48	16,880.84	9,889.41	36.16	110.51	-36.99	35.85	508.36	298.57	196.97	101.60	2.939	
10,200.00	10,191.26	16,886.16	9,889.47	36.52	110.58	-33.45	30.54	508.41	386.97	293.63	93.34	4.146	
10,300.00	10,290.83	16,892.86	9,889.54	36.87	110.68	-29.34	23.83	508.47	479.12	390.31	88.81	5.395	
10,400.00	10,390.12	16,900.88	9,889.62	37.24	110.79	-24.98	15.81	508.54	573.11	486.90	86.21	6.648	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling

Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Offset Design Pegasus 16 State - Offset - Marlan Downey State Com 124H - OH - As Drilled												Offset Site Error:	0.00 ft
Survey Program: 166-MWD+HDGM												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,700.00	9,691.67	17,883.56	10,352.57	34.75	112.74	-154.03	101.20	219.86	621.19	534.55	86.64	7.170	
9,800.00	9,791.59	17,892.36	10,353.37	35.11	112.86	-155.19	92.43	219.52	525.52	436.39	89.12	5.896	
9,900.00	9,891.58	17,901.54	10,354.19	35.46	112.98	155.76	83.30	219.14	430.76	338.03	92.73	4.645	
10,000.00	9,991.57	17,911.71	10,355.09	35.81	113.12	153.51	73.19	218.73	338.86	240.01	98.84	3.428	
10,100.00	10,091.48	17,923.39	10,356.12	36.16	113.28	150.43	61.56	218.26	254.12	143.52	110.60	2.298	
10,200.00	10,191.26	17,936.56	10,357.27	36.52	113.45	146.46	48.44	217.76	186.38	54.59	131.79	1.414	Collision Avoidance Req.
10,297.08	10,287.92	17,950.74	10,358.49	36.86	113.65	141.65	34.33	217.23	158.75	9.01	149.74	1.060	Collision Avoidance Req., CC
10,300.00	10,290.83	17,951.19	10,358.52	36.87	113.65	141.49	33.88	217.22	158.78	8.92	149.86	1.060	Collision Avoidance Req., ES, SF
10,400.00	10,390.12	17,967.24	10,359.89	37.24	113.87	135.44	17.90	216.65	189.39	51.43	137.96	1.373	Collision Avoidance Req.
10,500.00	10,489.06	17,984.69	10,361.35	37.60	114.10	128.25	0.51	216.05	257.99	138.02	119.98	2.150	
10,600.00	10,587.60	18,004.40	10,362.98	37.97	114.37	119.68	-19.11	215.43	342.19	232.93	109.26	3.132	
10,700.00	10,685.65	18,026.08	10,364.79	38.35	114.67	110.16	-40.71	214.85	432.69	329.15	103.54	4.179	
10,800.00	10,783.16	18,049.68	10,366.76	38.73	114.99	100.24	-64.22	214.34	526.00	425.55	100.45	5.236	
10,900.00	10,880.05	18,075.26	10,368.92	39.12	115.34	88.76	-89.71	213.92	620.61	521.82	98.79	6.282	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling

Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Offset Design Pegasus 16 State - Pegasus 16 ST 254H - OH - Plan 1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
9,500.00	9,491.89	14,901.39	9,734.02	34.02	80.33	76.58	-498.06	553.11	631.24	556.20	75.04	8.412	
9,600.00	9,591.78	14,901.39	9,734.02	34.39	80.33	76.58	-498.06	553.11	596.43	518.99	77.44	7.702	
9,700.00	9,691.67	14,901.39	9,734.02	34.75	80.33	76.58	-498.06	553.11	577.06	497.54	79.52	7.257	
9,761.85	9,753.47	14,901.39	9,734.02	34.97	80.33	76.54	-498.06	553.11	573.64	493.11	80.52	7.124 CC, ES	
9,800.00	9,791.59	14,901.39	9,734.02	35.11	80.33	76.57	-498.06	553.11	574.90	493.90	81.00	7.097 SF	
9,900.00	9,891.58	14,901.39	9,734.02	35.46	80.33	29.24	-498.06	553.11	590.51	508.74	81.77	7.222	
10,000.00	9,991.57	14,901.39	9,734.02	35.81	80.33	29.00	-498.06	553.11	621.12	539.43	81.70	7.603	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-25.00	25.00				
100.00	100.00	100.00	100.00	0.25	0.25	-90.00	0.00	-25.00	25.00	24.50	0.50	49.815	
200.00	200.00	200.00	200.00	0.61	0.61	-90.00	0.00	-25.00	25.00	23.78	1.22	20.512	
300.00	300.00	300.00	300.00	0.97	0.97	-90.00	0.00	-25.00	25.00	23.06	1.94	12.915	
400.00	400.00	400.00	400.00	1.33	1.33	-90.00	0.00	-25.00	25.00	22.35	2.65	9.424	
500.00	500.00	500.00	500.00	1.68	1.68	-90.00	0.00	-25.00	25.00	21.63	3.37	7.419	
600.00	600.00	600.00	600.00	2.04	2.04	-90.00	0.00	-25.00	25.00	20.91	4.09	6.118	
700.00	700.00	700.00	700.00	2.40	2.40	-90.00	0.00	-25.00	25.00	20.20	4.80	5.205	
800.00	800.00	800.00	800.00	2.76	2.76	-90.00	0.00	-25.00	25.00	19.48	5.52	4.529	
900.00	900.00	900.00	900.00	3.12	3.12	-90.00	0.00	-25.00	25.00	18.76	6.24	4.008	
1,000.00	1,000.00	1,000.00	1,000.00	3.48	3.48	-90.00	0.00	-25.00	25.00	18.05	6.95	3.595	
1,100.00	1,100.00	1,100.00	1,100.00	3.84	3.84	-90.00	0.00	-25.00	25.00	17.33	7.67	3.259	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-90.00	0.00	-25.00	25.00	16.61	8.39	2.980	
1,300.00	1,300.00	1,300.00	1,300.00	4.55	4.55	-90.00	0.00	-25.00	25.00	15.89	9.11	2.746	
1,400.00	1,400.00	1,400.00	1,400.00	4.91	4.91	-90.00	0.00	-25.00	25.00	15.18	9.82	2.545	
1,500.00	1,500.00	1,500.00	1,500.00	5.27	5.27	-90.00	0.00	-25.00	25.00	14.46	10.54	2.372	
1,600.00	1,600.00	1,600.00	1,600.00	5.63	5.63	-90.00	0.00	-25.00	25.00	13.74	11.26	2.221	
1,700.00	1,700.00	1,700.00	1,700.00	5.99	5.99	-90.00	0.00	-25.00	25.00	13.03	11.97	2.088	
1,800.00	1,800.00	1,800.00	1,800.00	6.34	6.34	-90.00	0.00	-25.00	25.00	12.31	12.69	1.970	Collision Risk Procedures Req.
1,900.00	1,900.00	1,900.00	1,900.00	6.70	6.70	-90.00	0.00	-25.00	25.00	11.59	13.41	1.865	Collision Risk Procedures Req.
2,000.00	2,000.00	2,000.00	2,000.00	7.06	7.06	-90.00	0.00	-25.00	25.00	10.88	14.12	1.770	Collision Risk Procedures Req., CC
2,100.00	2,099.99	2,099.28	2,099.27	7.41	7.41	-173.93	-0.08	-26.29	27.60	12.78	14.82	1.863	Collision Risk Procedures Req.
2,200.00	2,199.91	2,198.17	2,198.08	7.76	7.75	-174.93	-0.33	-30.13	35.33	19.85	15.48	2.282	
2,300.00	2,299.80	2,296.50	2,296.20	8.10	8.09	-175.75	-0.74	-36.48	46.46	30.31	16.14	2.878	
2,400.00	2,399.69	2,395.23	2,394.58	8.45	8.43	-176.28	-1.28	-44.80	59.55	42.74	16.81	3.542	
2,500.00	2,499.58	2,494.35	2,493.34	8.80	8.77	-176.62	-1.83	-53.29	72.79	55.29	17.50	4.159	
2,600.00	2,599.47	2,593.47	2,592.09	9.15	9.12	-176.86	-2.38	-61.78	86.02	67.84	18.19	4.730	
2,700.00	2,699.36	2,692.59	2,690.84	9.50	9.48	-177.03	-2.93	-70.27	99.26	80.38	18.88	5.258	
2,800.00	2,799.25	2,791.71	2,789.60	9.86	9.83	-177.16	-3.48	-78.76	112.50	92.93	19.57	5.748	
2,900.00	2,899.14	2,890.83	2,888.35	10.21	10.18	-177.27	-4.04	-87.25	125.74	105.47	20.27	6.204	
3,000.00	2,999.03	2,989.95	2,987.10	10.56	10.54	-177.35	-4.59	-95.74	138.97	118.01	20.96	6.630	
3,100.00	3,098.92	3,089.07	3,085.86	10.92	10.89	-177.42	-5.14	-104.22	152.21	130.56	21.66	7.028	
3,200.00	3,198.81	3,188.19	3,184.61	11.27	11.25	-177.48	-5.69	-112.71	165.45	143.10	22.36	7.401	
3,300.00	3,298.70	3,287.31	3,283.37	11.63	11.61	-177.53	-6.24	-121.20	178.69	155.63	23.06	7.750	
3,400.00	3,398.59	3,386.43	3,382.12	11.98	11.97	-177.58	-6.79	-129.69	191.93	168.17	23.76	8.079	
3,500.00	3,498.48	3,485.55	3,480.87	12.34	12.33	-177.61	-7.34	-138.18	205.17	180.71	24.46	8.388	
3,600.00	3,598.37	3,584.67	3,579.63	12.70	12.69	-177.65	-7.89	-146.67	218.41	193.25	25.16	8.680	
3,700.00	3,698.26	3,683.79	3,678.38	13.05	13.06	-177.68	-8.44	-155.16	231.65	205.78	25.86	8.956	
3,800.00	3,798.15	3,782.91	3,777.14	13.41	13.42	-177.70	-8.99	-163.65	244.89	218.32	26.57	9.217	
3,900.00	3,898.04	3,882.03	3,875.89	13.77	13.78	-177.73	-9.54	-172.13	258.13	230.85	27.27	9.464	
4,000.00	3,997.93	3,981.15	3,974.64	14.13	14.15	-177.75	-10.09	-180.62	271.37	243.39	27.98	9.699	
4,100.00	4,097.82	4,080.27	4,073.40	14.49	14.51	-177.77	-10.64	-189.11	284.61	255.92	28.69	9.921	
4,200.00	4,197.71	4,179.39	4,172.15	14.85	14.88	-177.78	-11.19	-197.60	297.84	268.45	29.39	10.133	
4,300.00	4,297.60	4,278.51	4,270.91	15.21	15.24	-177.80	-11.74	-206.09	311.08	280.98	30.10	10.335	
4,400.00	4,397.49	4,377.63	4,369.66	15.56	15.61	-177.81	-12.29	-214.58	324.32	293.52	30.81	10.527	
4,500.00	4,497.38	4,476.75	4,468.41	15.92	15.98	-177.83	-12.84	-223.07	337.56	306.05	31.52	10.711	
4,600.00	4,597.27	4,575.86	4,567.17	16.28	16.34	-177.84	-13.39	-231.56	350.80	318.58	32.22	10.886	
4,700.00	4,697.16	4,674.98	4,665.92	16.64	16.71	-177.85	-13.94	-240.04	364.04	331.11	32.93	11.054	
4,800.00	4,797.05	4,774.10	4,764.68	17.00	17.08	-177.86	-14.49	-248.53	377.28	343.64	33.64	11.214	
4,900.00	4,896.94	4,873.22	4,863.43	17.36	17.45	-177.87	-15.04	-257.02	390.52	356.17	34.35	11.368	
5,000.00	4,996.83	4,972.34	4,962.18	17.73	17.82	-177.88	-15.59	-265.51	403.76	368.70	35.06	11.515	
5,100.00	5,096.72	5,071.46	5,060.94	18.09	18.18	-177.89	-16.14	-274.00	417.00	381.23	35.77	11.656	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling

Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Offset Design Pegasus 16 State - PEGASUS UNIT STATE COM 353H - OH - Plan 3												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,200.00	5,196.61	5,170.58	5,159.69	18.45	18.55	-177.90	-16.69	-282.49	430.24	393.76	36.49	11.792	
5,300.00	5,296.50	5,269.70	5,258.45	18.81	18.92	-177.91	-17.24	-290.98	443.48	406.28	37.20	11.923	
5,400.00	5,396.39	5,368.82	5,357.20	19.17	19.29	-177.91	-17.79	-299.47	456.72	418.81	37.91	12.048	
5,500.00	5,496.28	5,467.94	5,455.95	19.53	19.66	-177.92	-18.34	-307.95	469.96	431.34	38.62	12.169	
5,600.00	5,596.17	5,567.06	5,554.71	19.89	20.03	-177.93	-18.89	-316.44	483.20	443.87	39.33	12.285	
5,700.00	5,696.06	5,666.18	5,653.46	20.25	20.40	-177.93	-19.44	-324.93	496.44	456.39	40.04	12.397	
5,800.00	5,795.95	5,765.30	5,752.22	20.61	20.77	-177.94	-19.99	-333.42	509.68	468.92	40.76	12.506	
5,900.00	5,895.84	5,864.42	5,850.97	20.97	21.14	-177.95	-20.54	-341.91	522.92	481.45	41.47	12.610	
6,000.00	5,995.73	5,963.54	5,949.72	21.34	21.51	-177.95	-21.09	-350.40	536.16	493.98	42.18	12.711	
6,100.00	6,095.62	6,062.66	6,048.48	21.70	21.88	-177.96	-21.64	-358.89	549.40	506.50	42.89	12.808	
6,200.00	6,195.51	6,161.78	6,147.23	22.06	22.25	-177.96	-22.20	-367.38	562.64	519.03	43.61	12.902	
6,300.00	6,295.40	6,260.90	6,245.99	22.42	22.62	-177.97	-22.75	-375.86	575.88	531.56	44.32	12.993	
6,400.00	6,395.29	6,360.02	6,344.74	22.78	22.99	-177.97	-23.30	-384.35	589.12	544.08	45.03	13.081	
6,500.00	6,495.18	6,459.14	6,443.49	23.14	23.36	-177.97	-23.85	-392.84	602.36	556.61	45.75	13.167	
6,600.00	6,595.07	6,558.26	6,542.25	23.51	23.74	-177.98	-24.40	-401.33	615.60	569.13	46.46	13.249	
6,700.00	6,694.96	6,657.38	6,641.00	23.87	24.11	-177.98	-24.95	-409.82	628.84	581.66	47.18	13.329	
6,800.00	6,794.85	6,756.50	6,739.76	24.23	24.48	-177.99	-25.50	-418.31	642.08	594.18	47.89	13.407	
6,900.00	6,894.74	6,855.62	6,838.51	24.59	24.85	-177.99	-26.05	-426.80	655.31	606.71	48.60	13.482	

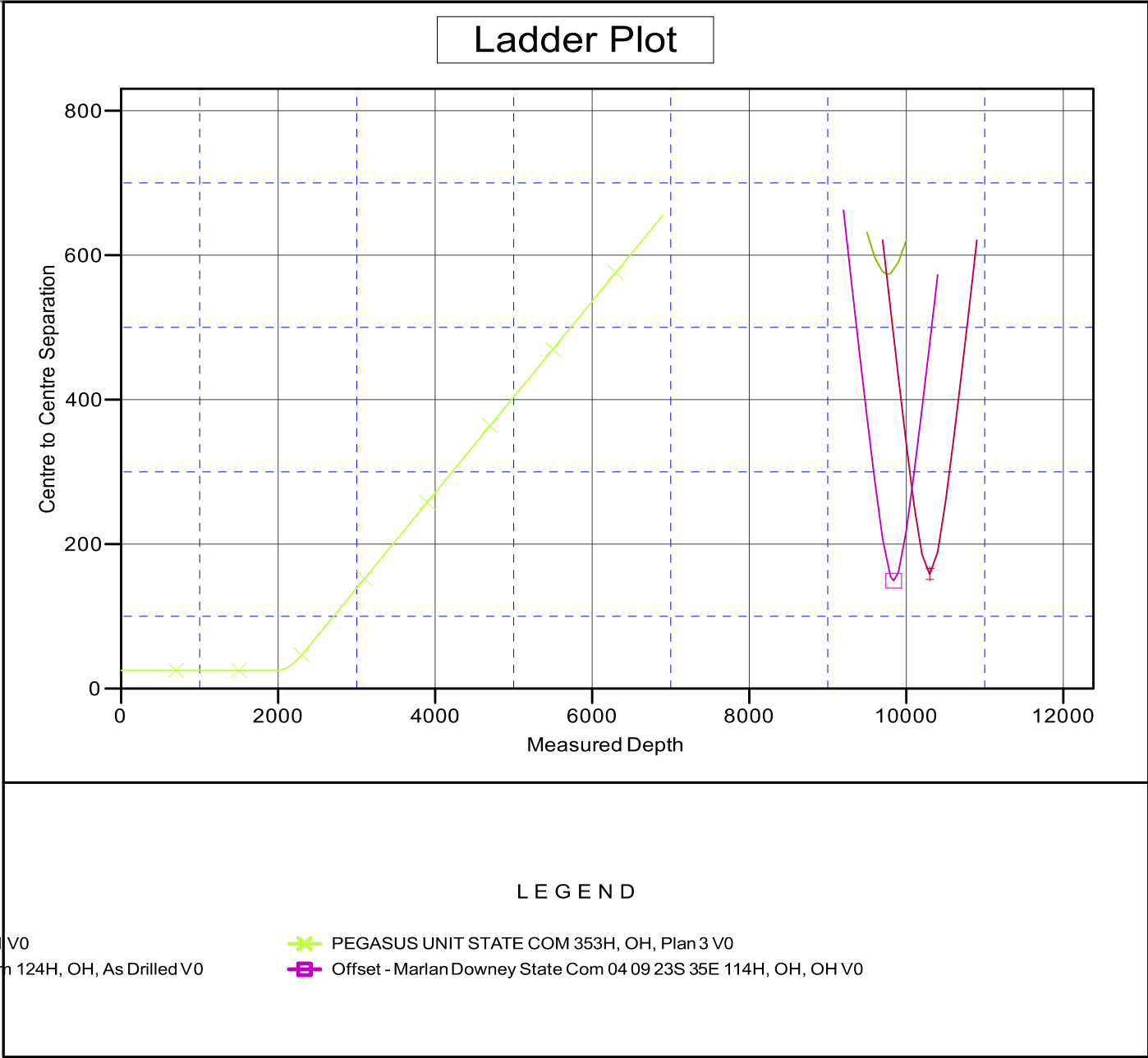
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Scientific Drilling
Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3485 GL 30 EST KB @ 3515.00ft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: PEGASUS UNIT STATE COM 354H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.52°



Scientific Drilling

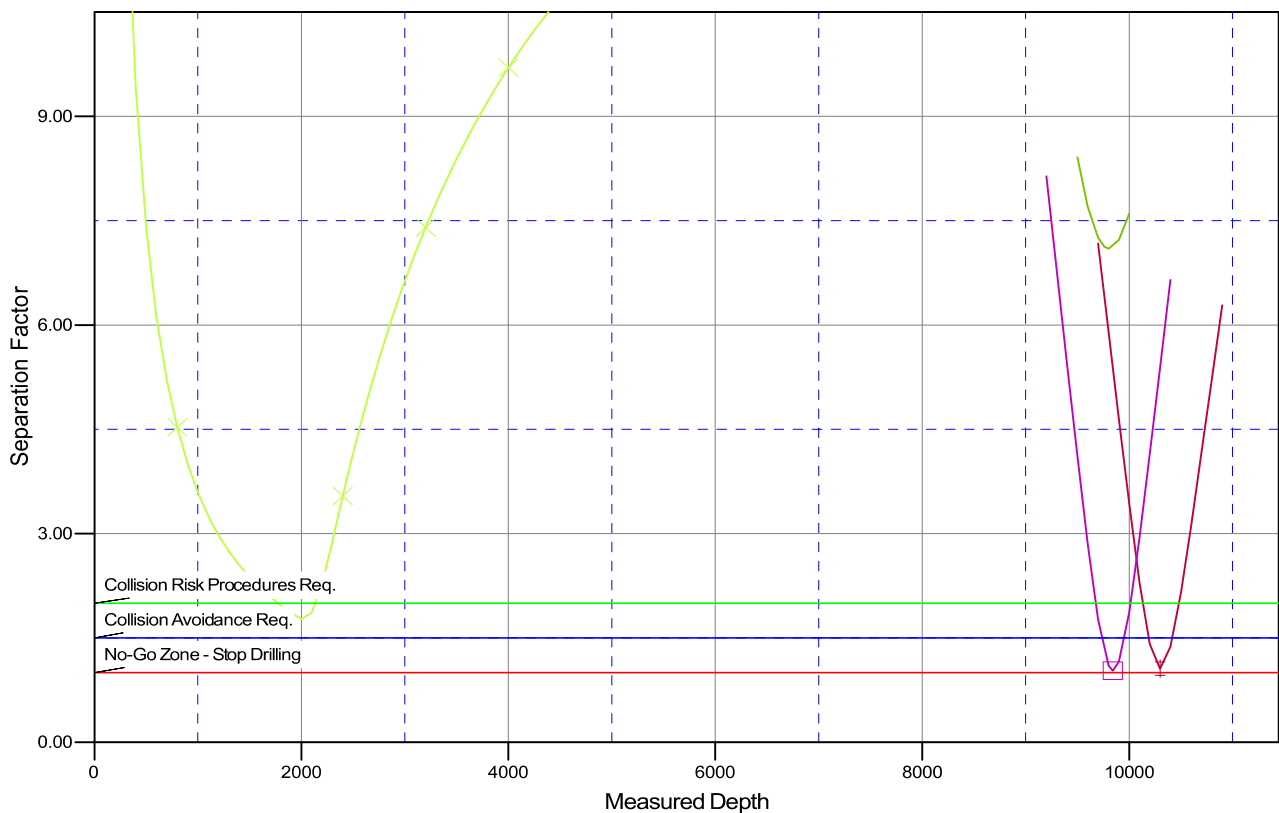
Anticollision Report

Company:	Marlin Operating	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Reference Site:	Pegasus 16 State	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Midland
Reference Design:	Plan 3B	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3485 GL 30 EST KB @ 3515.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.333333

Coordinates are relative to: PEGASUS UNIT STATE COM 354H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.52°

Separation Factor Plot



LEGEND

1 V0
 on 124H, OH, As Drilled V0

✕ PEGASUS UNIT STATE COM 353H, OH, Plan 3 V0
 □ Offset - Marlan Downey State Com 04 09 23S 35E 114H, OH, OH V0

Marlin Operating

Lea County, NM (NAD83 NME)

Pegasus 16 State

PEGASUS UNIT STATE COM 354H

OH

Plan: Plan 3B

Standard Planning Report

29 April, 2024



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Scientific Drilling
Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

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	Pegasus 16 State, Site Center: Phoenix 16 ST 252H		
Site Position:	Map	Northing:	473,569.00 usft
From:		Easting:	837,700.00 usft
Position Uncertainty:	0.00 ft	Slot Radius:	48.000 in
		Latitude:	32.2982708
		Longitude:	-103.3741898
		Grid Convergence:	0.51 °

Well	PEGASUS UNIT STATE COM 354H		
Well Position	+N/-S	5,472.01 ft	Northing:
	+E/-W	2,193.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	
		Latitude:	32.3132564
		Longitude:	-103.3669336
		Ground Level:	3,485.00 ft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	12/31/2022	6.37	59.90	47,613.80000000
	HDGM2024	2/28/2024	6.28	59.85	47,451.30000000

Design	Plan 3B		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft) Direction (°)
	0.00	0.00	0.00 179.49

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,179.14	2.69	83.45	2,179.07	0.48	4.17	1.50	1.50	0.00	83.45	
9,716.59	2.69	83.45	9,708.24	40.77	355.23	0.00	0.00	0.00	0.00	
9,895.73	0.00	0.00	9,887.31	41.25	359.40	1.50	-1.50	0.00	180.00	
10,895.73	15.00	131.00	10,875.93	-44.14	457.63	1.50	1.50	0.00	131.00	
11,685.20	88.80	179.49	11,341.59	-596.00	554.00	10.00	9.35	6.14	49.71	
22,041.90	88.80	179.49	11,558.49	-10,950.02	646.16	0.00	0.00	0.00	0.00	LTP - Pegasus 16 S
22,139.93	88.80	179.49	11,560.54	-11,048.02	647.04	0.00	0.00	0.00	0.00	BHL - Pegasus 16 S

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
SHL - Pegasus 16 ST 354H									
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
1,764.00	0.00	0.00	1,764.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
Start Build 1.50									
2,100.00	1.50	83.45	2,099.99	0.15	1.30	-0.14	1.50	1.50	0.00
2,179.14	2.69	83.45	2,179.07	0.48	4.17	-0.44	1.50	1.50	0.00
Start 7537.46 hold at 2179.14 MD									
2,200.00	2.69	83.45	2,199.91	0.59	5.14	-0.54	0.00	0.00	0.00
2,227.10	2.69	83.45	2,226.99	0.74	6.41	-0.68	0.00	0.00	0.00
Salado									
2,300.00	2.69	83.45	2,299.80	1.12	9.80	-1.04	0.00	0.00	0.00
2,400.00	2.69	83.45	2,399.69	1.66	14.46	-1.53	0.00	0.00	0.00
2,500.00	2.69	83.45	2,499.58	2.19	19.12	-2.02	0.00	0.00	0.00
2,600.00	2.69	83.45	2,599.47	2.73	23.77	-2.52	0.00	0.00	0.00
2,700.00	2.69	83.45	2,699.36	3.26	28.43	-3.01	0.00	0.00	0.00
2,800.00	2.69	83.45	2,799.25	3.80	33.09	-3.50	0.00	0.00	0.00
2,900.00	2.69	83.45	2,899.14	4.33	37.75	-4.00	0.00	0.00	0.00
3,000.00	2.69	83.45	2,999.03	4.87	42.40	-4.49	0.00	0.00	0.00
3,100.00	2.69	83.45	3,098.92	5.40	47.06	-4.98	0.00	0.00	0.00
3,200.00	2.69	83.45	3,198.81	5.94	51.72	-5.48	0.00	0.00	0.00
3,300.00	2.69	83.45	3,298.70	6.47	56.38	-5.97	0.00	0.00	0.00
3,400.00	2.69	83.45	3,398.59	7.01	61.03	-6.46	0.00	0.00	0.00
3,500.00	2.69	83.45	3,498.48	7.54	65.69	-6.95	0.00	0.00	0.00
3,600.00	2.69	83.45	3,598.37	8.07	70.35	-7.45	0.00	0.00	0.00
3,700.00	2.69	83.45	3,698.26	8.61	75.01	-7.94	0.00	0.00	0.00
3,800.00	2.69	83.45	3,798.15	9.14	79.66	-8.43	0.00	0.00	0.00
3,900.00	2.69	83.45	3,898.04	9.68	84.32	-8.93	0.00	0.00	0.00
4,000.00	2.69	83.45	3,997.93	10.21	88.98	-9.42	0.00	0.00	0.00
4,092.96	2.69	83.45	4,090.79	10.71	93.31	-9.88	0.00	0.00	0.00
Yates									
4,100.00	2.69	83.45	4,097.82	10.75	93.64	-9.91	0.00	0.00	0.00
4,200.00	2.69	83.45	4,197.71	11.28	98.29	-10.41	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.00	2.69	83.45	4,297.60	11.82	102.95	-10.90	0.00	0.00	0.00
4,400.00	2.69	83.45	4,397.49	12.35	107.61	-11.39	0.00	0.00	0.00
4,500.00	2.69	83.45	4,497.38	12.89	112.27	-11.89	0.00	0.00	0.00
4,600.00	2.69	83.45	4,597.27	13.42	116.92	-12.38	0.00	0.00	0.00
4,700.00	2.69	83.45	4,697.16	13.95	121.58	-12.87	0.00	0.00	0.00
4,800.00	2.69	83.45	4,797.05	14.49	126.24	-13.36	0.00	0.00	0.00
4,900.00	2.69	83.45	4,896.94	15.02	130.90	-13.86	0.00	0.00	0.00
5,000.00	2.69	83.45	4,996.83	15.56	135.55	-14.35	0.00	0.00	0.00
5,100.00	2.69	83.45	5,096.72	16.09	140.21	-14.84	0.00	0.00	0.00
5,200.00	2.69	83.45	5,196.61	16.63	144.87	-15.34	0.00	0.00	0.00
5,300.00	2.69	83.45	5,296.50	17.16	149.53	-15.83	0.00	0.00	0.00
5,400.00	2.69	83.45	5,396.39	17.70	154.18	-16.32	0.00	0.00	0.00
5,500.00	2.69	83.45	5,496.28	18.23	158.84	-16.82	0.00	0.00	0.00
5,600.00	2.69	83.45	5,596.17	18.77	163.50	-17.31	0.00	0.00	0.00
5,700.00	2.69	83.45	5,696.06	19.30	168.16	-17.80	0.00	0.00	0.00
5,735.60	2.69	83.45	5,731.62	19.49	169.81	-17.98	0.00	0.00	0.00
Del Marker									
5,800.00	2.69	83.45	5,795.95	19.83	172.81	-18.30	0.00	0.00	0.00
5,900.00	2.69	83.45	5,895.84	20.37	177.47	-18.79	0.00	0.00	0.00
6,000.00	2.69	83.45	5,995.73	20.90	182.13	-19.28	0.00	0.00	0.00
6,100.00	2.69	83.45	6,095.62	21.44	186.79	-19.77	0.00	0.00	0.00
6,136.00	2.69	83.45	6,131.58	21.63	188.46	-19.95	0.00	0.00	0.00
Cherry Canyon									
6,200.00	2.69	83.45	6,195.51	21.97	191.44	-20.27	0.00	0.00	0.00
6,300.00	2.69	83.45	6,295.40	22.51	196.10	-20.76	0.00	0.00	0.00
6,400.00	2.69	83.45	6,395.29	23.04	200.76	-21.25	0.00	0.00	0.00
6,500.00	2.69	83.45	6,495.18	23.58	205.42	-21.75	0.00	0.00	0.00
6,600.00	2.69	83.45	6,595.07	24.11	210.07	-22.24	0.00	0.00	0.00
6,700.00	2.69	83.45	6,694.96	24.65	214.73	-22.73	0.00	0.00	0.00
6,800.00	2.69	83.45	6,794.85	25.18	219.39	-23.23	0.00	0.00	0.00
6,900.00	2.69	83.45	6,894.74	25.71	224.05	-23.72	0.00	0.00	0.00
7,000.00	2.69	83.45	6,994.63	26.25	228.70	-24.21	0.00	0.00	0.00
7,100.00	2.69	83.45	7,094.52	26.78	233.36	-24.71	0.00	0.00	0.00
7,200.00	2.69	83.45	7,194.41	27.32	238.02	-25.20	0.00	0.00	0.00
7,300.00	2.69	83.45	7,294.30	27.85	242.68	-25.69	0.00	0.00	0.00
7,400.00	2.69	83.45	7,394.19	28.39	247.33	-26.18	0.00	0.00	0.00
7,500.00	2.69	83.45	7,494.08	28.92	251.99	-26.68	0.00	0.00	0.00
7,600.00	2.69	83.45	7,593.97	29.46	256.65	-27.17	0.00	0.00	0.00
7,617.47	2.69	83.45	7,611.43	29.55	257.46	-27.26	0.00	0.00	0.00
Brushy Canyon									
7,700.00	2.69	83.45	7,693.86	29.99	261.31	-27.66	0.00	0.00	0.00
7,800.00	2.69	83.45	7,793.75	30.53	265.96	-28.16	0.00	0.00	0.00
7,900.00	2.69	83.45	7,893.64	31.06	270.62	-28.65	0.00	0.00	0.00
8,000.00	2.69	83.45	7,993.53	31.59	275.28	-29.14	0.00	0.00	0.00
8,100.00	2.69	83.45	8,093.42	32.13	279.94	-29.64	0.00	0.00	0.00
8,200.00	2.69	83.45	8,193.31	32.66	284.59	-30.13	0.00	0.00	0.00
8,300.00	2.69	83.45	8,293.20	33.20	289.25	-30.62	0.00	0.00	0.00
8,400.00	2.69	83.45	8,393.09	33.73	293.91	-31.12	0.00	0.00	0.00
8,500.00	2.69	83.45	8,492.98	34.27	298.57	-31.61	0.00	0.00	0.00
8,600.00	2.69	83.45	8,592.87	34.80	303.22	-32.10	0.00	0.00	0.00
8,700.00	2.69	83.45	8,692.76	35.34	307.88	-32.59	0.00	0.00	0.00
8,800.00	2.69	83.45	8,792.65	35.87	312.54	-33.09	0.00	0.00	0.00
8,900.00	2.69	83.45	8,892.54	36.41	317.20	-33.58	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,935.79	2.69	83.45	8,928.29	36.60	318.86	-33.76	0.00	0.00	0.00
Avalon									
9,000.00	2.69	83.45	8,992.44	36.94	321.85	-34.07	0.00	0.00	0.00
9,100.00	2.69	83.45	9,092.33	37.48	326.51	-34.57	0.00	0.00	0.00
9,186.04	2.69	83.45	9,178.27	37.93	330.52	-34.99	0.00	0.00	0.00
Bone Spring									
9,200.00	2.69	83.45	9,192.22	38.01	331.17	-35.06	0.00	0.00	0.00
9,300.00	2.69	83.45	9,292.11	38.54	335.82	-35.55	0.00	0.00	0.00
9,400.00	2.69	83.45	9,392.00	39.08	340.48	-36.05	0.00	0.00	0.00
9,500.00	2.69	83.45	9,491.89	39.61	345.14	-36.54	0.00	0.00	0.00
9,600.00	2.69	83.45	9,591.78	40.15	349.80	-37.03	0.00	0.00	0.00
9,700.00	2.69	83.45	9,691.67	40.68	354.45	-37.53	0.00	0.00	0.00
9,716.59	2.69	83.45	9,708.24	40.77	355.23	-37.61	0.00	0.00	0.00
Start Drop -1.50									
9,800.00	1.44	83.45	9,791.59	41.11	358.21	-37.92	1.50	-1.50	0.00
9,895.73	0.00	0.00	9,887.31	41.25	359.40	-38.05	1.50	-1.50	0.00
Start Build 1.50									
9,900.00	0.06	131.00	9,891.58	41.25	359.40	-38.05	1.50	1.50	0.00
9,906.62	0.16	131.00	9,898.20	41.24	359.41	-38.04	1.50	1.50	0.00
BS1									
10,000.00	1.56	131.00	9,991.57	40.32	360.47	-37.11	1.50	1.50	0.00
10,100.00	3.06	131.00	10,091.48	37.67	363.52	-34.43	1.50	1.50	0.00
10,200.00	4.56	131.00	10,191.26	33.30	368.54	-30.02	1.50	1.50	0.00
10,300.00	6.06	131.00	10,290.83	27.23	375.53	-23.88	1.50	1.50	0.00
10,400.00	7.56	131.00	10,390.12	19.44	384.49	-16.02	1.50	1.50	0.00
10,428.87	8.00	131.00	10,418.72	16.88	387.43	-13.43	1.50	1.50	0.00
BS 2									
10,500.00	9.06	131.00	10,489.06	9.96	395.40	-6.44	1.50	1.50	0.00
10,600.00	10.56	131.00	10,587.60	-1.22	408.26	4.86	1.50	1.50	0.00
10,700.00	12.06	131.00	10,685.65	-14.10	423.07	17.86	1.50	1.50	0.00
10,800.00	13.56	131.00	10,783.16	-28.65	439.81	32.56	1.50	1.50	0.00
10,895.73	15.00	131.00	10,875.93	-44.14	457.63	48.21	1.50	1.50	0.00
Start DLS 10.00 TFO 49.71									
10,900.00	15.28	132.24	10,880.05	-44.88	458.46	48.96	10.00	6.55	28.95
11,000.00	23.12	151.59	10,974.51	-71.07	477.61	75.32	10.00	7.84	19.35
11,100.00	32.14	161.03	11,063.05	-113.60	495.64	118.01	10.00	9.02	9.45
11,200.00	41.57	166.61	11,143.00	-171.17	512.01	175.72	10.00	9.43	5.57
11,238.87	45.29	168.23	11,171.23	-197.25	517.82	201.85	10.00	9.58	4.18
BS3 Upper target top									
11,300.00	51.19	170.41	11,211.92	-242.04	526.22	246.72	10.00	9.64	3.56
11,400.00	60.90	173.30	11,267.72	-324.06	537.85	328.83	10.00	9.71	2.89
11,441.62	64.96	174.33	11,286.66	-360.89	541.83	365.70	10.00	9.75	2.49
BS 3									
11,500.00	70.66	175.68	11,308.70	-414.72	546.52	419.57	10.00	9.77	2.31
11,584.60	78.94	177.48	11,330.87	-496.14	551.37	501.03	10.00	9.79	2.12
KOP - Pegasus 16 ST 354H									
11,600.00	80.45	177.79	11,333.62	-511.28	552.00	516.17	10.00	9.80	2.04
11,682.35	88.52	179.43	11,341.53	-593.16	553.97	598.06	10.00	9.80	2.00
BS3 Target Line									
11,685.20	88.80	179.49	11,341.59	-596.00	554.00	600.91	10.00	9.80	1.98
Start 10356.70 hold at 11685.20 MD - FTP - Pegasus 16 ST 354H									
11,700.00	88.80	179.49	11,341.90	-610.80	554.13	615.71	0.00	0.00	0.00

Scientific Drilling Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,800.00	88.80	179.49	11,344.00	-710.77	555.02	715.69	0.00	0.00	0.00
11,900.00	88.80	179.49	11,346.09	-810.75	555.91	815.66	0.00	0.00	0.00
12,000.00	88.80	179.49	11,348.19	-910.72	556.80	915.64	0.00	0.00	0.00
12,100.00	88.80	179.49	11,350.28	-1,010.70	557.69	1,015.62	0.00	0.00	0.00
12,200.00	88.80	179.49	11,352.38	-1,110.67	558.58	1,115.60	0.00	0.00	0.00
12,300.00	88.80	179.49	11,354.47	-1,210.64	559.47	1,215.58	0.00	0.00	0.00
12,400.00	88.80	179.49	11,356.56	-1,310.62	560.36	1,315.55	0.00	0.00	0.00
12,500.00	88.80	179.49	11,358.66	-1,410.59	561.25	1,415.53	0.00	0.00	0.00
12,600.00	88.80	179.49	11,360.75	-1,510.57	562.14	1,515.51	0.00	0.00	0.00
12,700.00	88.80	179.49	11,362.85	-1,610.54	563.03	1,615.49	0.00	0.00	0.00
12,800.00	88.80	179.49	11,364.94	-1,710.51	563.92	1,715.47	0.00	0.00	0.00
12,900.00	88.80	179.49	11,367.04	-1,810.49	564.81	1,815.44	0.00	0.00	0.00
13,000.00	88.80	179.49	11,369.13	-1,910.46	565.70	1,915.42	0.00	0.00	0.00
13,100.00	88.80	179.49	11,371.22	-2,010.44	566.59	2,015.40	0.00	0.00	0.00
13,200.00	88.80	179.49	11,373.32	-2,110.41	567.48	2,115.38	0.00	0.00	0.00
13,300.00	88.80	179.49	11,375.41	-2,210.39	568.37	2,215.36	0.00	0.00	0.00
13,400.00	88.80	179.49	11,377.51	-2,310.36	569.26	2,315.33	0.00	0.00	0.00
13,500.00	88.80	179.49	11,379.60	-2,410.33	570.15	2,415.31	0.00	0.00	0.00
13,600.00	88.80	179.49	11,381.70	-2,510.31	571.04	2,515.29	0.00	0.00	0.00
13,700.00	88.80	179.49	11,383.79	-2,610.28	571.93	2,615.27	0.00	0.00	0.00
13,800.00	88.80	179.49	11,385.88	-2,710.26	572.82	2,715.25	0.00	0.00	0.00
13,900.00	88.80	179.49	11,387.98	-2,810.23	573.71	2,815.23	0.00	0.00	0.00
14,000.00	88.80	179.49	11,390.07	-2,910.20	574.60	2,915.20	0.00	0.00	0.00
14,100.00	88.80	179.49	11,392.17	-3,010.18	575.49	3,015.18	0.00	0.00	0.00
14,200.00	88.80	179.49	11,394.26	-3,110.15	576.38	3,115.16	0.00	0.00	0.00
14,300.00	88.80	179.49	11,396.35	-3,210.13	577.27	3,215.14	0.00	0.00	0.00
14,400.00	88.80	179.49	11,398.45	-3,310.10	578.16	3,315.12	0.00	0.00	0.00
14,500.00	88.80	179.49	11,400.54	-3,410.07	579.05	3,415.09	0.00	0.00	0.00
14,600.00	88.80	179.49	11,402.64	-3,510.05	579.94	3,515.07	0.00	0.00	0.00
14,700.00	88.80	179.49	11,404.73	-3,610.02	580.83	3,615.05	0.00	0.00	0.00
14,800.00	88.80	179.49	11,406.83	-3,710.00	581.72	3,715.03	0.00	0.00	0.00
14,900.00	88.80	179.49	11,408.92	-3,809.97	582.61	3,815.01	0.00	0.00	0.00
15,000.00	88.80	179.49	11,411.01	-3,909.95	583.50	3,914.98	0.00	0.00	0.00
15,100.00	88.80	179.49	11,413.11	-4,009.92	584.39	4,014.96	0.00	0.00	0.00
15,200.00	88.80	179.49	11,415.20	-4,109.89	585.28	4,114.94	0.00	0.00	0.00
15,300.00	88.80	179.49	11,417.30	-4,209.87	586.17	4,214.92	0.00	0.00	0.00
15,400.00	88.80	179.49	11,419.39	-4,309.84	587.06	4,314.90	0.00	0.00	0.00
15,500.00	88.80	179.49	11,421.49	-4,409.82	587.95	4,414.87	0.00	0.00	0.00
15,600.00	88.80	179.49	11,423.58	-4,509.79	588.84	4,514.85	0.00	0.00	0.00
15,700.00	88.80	179.49	11,425.67	-4,609.76	589.73	4,614.83	0.00	0.00	0.00
15,800.00	88.80	179.49	11,427.77	-4,709.74	590.62	4,714.81	0.00	0.00	0.00
15,900.00	88.80	179.49	11,429.86	-4,809.71	591.51	4,814.79	0.00	0.00	0.00
16,000.00	88.80	179.49	11,431.96	-4,909.69	592.40	4,914.76	0.00	0.00	0.00
16,100.00	88.80	179.49	11,434.05	-5,009.66	593.29	5,014.74	0.00	0.00	0.00
16,200.00	88.80	179.49	11,436.15	-5,109.63	594.18	5,114.72	0.00	0.00	0.00
16,300.00	88.80	179.49	11,438.24	-5,209.61	595.07	5,214.70	0.00	0.00	0.00
16,400.00	88.80	179.49	11,440.33	-5,309.58	595.96	5,314.68	0.00	0.00	0.00
16,500.00	88.80	179.49	11,442.43	-5,409.56	596.85	5,414.66	0.00	0.00	0.00
16,600.00	88.80	179.49	11,444.52	-5,509.53	597.74	5,514.63	0.00	0.00	0.00
16,700.00	88.80	179.49	11,446.62	-5,609.51	598.63	5,614.61	0.00	0.00	0.00
16,800.00	88.80	179.49	11,448.71	-5,709.48	599.52	5,714.59	0.00	0.00	0.00
16,900.00	88.80	179.49	11,450.81	-5,809.45	600.41	5,814.57	0.00	0.00	0.00
17,000.00	88.80	179.49	11,452.90	-5,909.43	601.30	5,914.55	0.00	0.00	0.00
17,100.00	88.80	179.49	11,454.99	-6,009.40	602.19	6,014.52	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,200.00	88.80	179.49	11,457.09	-6,109.38	603.07	6,114.50	0.00	0.00	0.00
17,300.00	88.80	179.49	11,459.18	-6,209.35	603.96	6,214.48	0.00	0.00	0.00
17,400.00	88.80	179.49	11,461.28	-6,309.32	604.85	6,314.46	0.00	0.00	0.00
17,500.00	88.80	179.49	11,463.37	-6,409.30	605.74	6,414.44	0.00	0.00	0.00
17,600.00	88.80	179.49	11,465.46	-6,509.27	606.63	6,514.41	0.00	0.00	0.00
17,700.00	88.80	179.49	11,467.56	-6,609.25	607.52	6,614.39	0.00	0.00	0.00
17,800.00	88.80	179.49	11,469.65	-6,709.22	608.41	6,714.37	0.00	0.00	0.00
17,900.00	88.80	179.49	11,471.75	-6,809.19	609.30	6,814.35	0.00	0.00	0.00
18,000.00	88.80	179.49	11,473.84	-6,909.17	610.19	6,914.33	0.00	0.00	0.00
18,100.00	88.80	179.49	11,475.94	-7,009.14	611.08	7,014.30	0.00	0.00	0.00
18,200.00	88.80	179.49	11,478.03	-7,109.12	611.97	7,114.28	0.00	0.00	0.00
18,300.00	88.80	179.49	11,480.12	-7,209.09	612.86	7,214.26	0.00	0.00	0.00
18,400.00	88.80	179.49	11,482.22	-7,309.06	613.75	7,314.24	0.00	0.00	0.00
18,500.00	88.80	179.49	11,484.31	-7,409.04	614.64	7,414.22	0.00	0.00	0.00
18,600.00	88.80	179.49	11,486.41	-7,509.01	615.53	7,514.19	0.00	0.00	0.00
18,700.00	88.80	179.49	11,488.50	-7,608.99	616.42	7,614.17	0.00	0.00	0.00
18,800.00	88.80	179.49	11,490.60	-7,708.96	617.31	7,714.15	0.00	0.00	0.00
18,900.00	88.80	179.49	11,492.69	-7,808.94	618.20	7,814.13	0.00	0.00	0.00
19,000.00	88.80	179.49	11,494.78	-7,908.91	619.09	7,914.11	0.00	0.00	0.00
19,100.00	88.80	179.49	11,496.88	-8,008.88	619.98	8,014.08	0.00	0.00	0.00
19,200.00	88.80	179.49	11,498.97	-8,108.86	620.87	8,114.06	0.00	0.00	0.00
19,300.00	88.80	179.49	11,501.07	-8,208.83	621.76	8,214.04	0.00	0.00	0.00
19,400.00	88.80	179.49	11,503.16	-8,308.81	622.65	8,314.02	0.00	0.00	0.00
19,500.00	88.80	179.49	11,505.26	-8,408.78	623.54	8,414.00	0.00	0.00	0.00
19,600.00	88.80	179.49	11,507.35	-8,508.75	624.43	8,513.98	0.00	0.00	0.00
19,700.00	88.80	179.49	11,509.44	-8,608.73	625.32	8,613.95	0.00	0.00	0.00
19,800.00	88.80	179.49	11,511.54	-8,708.70	626.21	8,713.93	0.00	0.00	0.00
19,900.00	88.80	179.49	11,513.63	-8,808.68	627.10	8,813.91	0.00	0.00	0.00
20,000.00	88.80	179.49	11,515.73	-8,908.65	627.99	8,913.89	0.00	0.00	0.00
20,100.00	88.80	179.49	11,517.82	-9,008.62	628.88	9,013.87	0.00	0.00	0.00
20,200.00	88.80	179.49	11,519.91	-9,108.60	629.77	9,113.84	0.00	0.00	0.00
20,300.00	88.80	179.49	11,522.01	-9,208.57	630.66	9,213.82	0.00	0.00	0.00
20,400.00	88.80	179.49	11,524.10	-9,308.55	631.55	9,313.80	0.00	0.00	0.00
20,500.00	88.80	179.49	11,526.20	-9,408.52	632.44	9,413.78	0.00	0.00	0.00
20,600.00	88.80	179.49	11,528.29	-9,508.50	633.33	9,513.76	0.00	0.00	0.00
20,700.00	88.80	179.49	11,530.39	-9,608.47	634.22	9,613.73	0.00	0.00	0.00
20,800.00	88.80	179.49	11,532.48	-9,708.44	635.11	9,713.71	0.00	0.00	0.00
20,900.00	88.80	179.49	11,534.57	-9,808.42	636.00	9,813.69	0.00	0.00	0.00
21,000.00	88.80	179.49	11,536.67	-9,908.39	636.89	9,913.67	0.00	0.00	0.00
21,100.00	88.80	179.49	11,538.76	-10,008.37	637.78	10,013.65	0.00	0.00	0.00
21,200.00	88.80	179.49	11,540.86	-10,108.34	638.67	10,113.62	0.00	0.00	0.00
21,300.00	88.80	179.49	11,542.95	-10,208.31	639.56	10,213.60	0.00	0.00	0.00
21,400.00	88.80	179.49	11,545.05	-10,308.29	640.45	10,313.58	0.00	0.00	0.00
21,500.00	88.80	179.49	11,547.14	-10,408.26	641.34	10,413.56	0.00	0.00	0.00
21,600.00	88.80	179.49	11,549.23	-10,508.24	642.23	10,513.54	0.00	0.00	0.00
21,700.00	88.80	179.49	11,551.33	-10,608.21	643.12	10,613.51	0.00	0.00	0.00
21,800.00	88.80	179.49	11,553.42	-10,708.18	644.01	10,713.49	0.00	0.00	0.00
21,900.00	88.80	179.49	11,555.52	-10,808.16	644.90	10,813.47	0.00	0.00	0.00
22,000.00	88.80	179.49	11,557.61	-10,908.13	645.79	10,913.45	0.00	0.00	0.00
22,041.90	88.80	179.49	11,558.49	-10,950.02	646.16	10,955.34	0.00	0.00	0.00
Start 98.03 hold at 22041.90 MD - LTP - Pegasus 16 ST 354H									
22,100.00	88.80	179.49	11,559.71	-11,008.11	646.68	11,013.43	0.00	0.00	0.00
22,139.93	88.80	179.49	11,560.54	-11,048.02	647.04	11,053.34	0.00	0.00	0.00
TD at 22139.93 - BHL - Pegasus 16 ST 354H									

Scientific Drilling

Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	
	- Shape								Latitude Longitude
SHL - Pegasus 16 ST	- plan hits target center	0.00	0.00	0.00	0.00	0.00	479,041.00	839,893.00	32.3132564 -103.3669336
	- Point								
KOP - Pegasus 16 ST	- plan misses target center by 1.64ft at 11584.58ft MD (11330.86 TVD, -496.12 N, 551.37 E)	0.00	0.00	11,330.96	-496.00	553.00	478,545.00	840,446.00	32.3118794 -103.3651583
	- Point								
FTP - Pegasus 16 ST	- plan misses target center by 0.01ft at 11685.20ft MD (11341.59 TVD, -596.00 N, 554.00 E)	0.00	0.00	11,341.59	-596.00	554.00	478,445.00	840,447.00	32.3116045 -103.3651580
	- Point								
LTP - Pegasus 16 ST	- plan misses target center by 0.16ft at 22041.90ft MD (11558.49 TVD, -10950.02 N, 646.16 E)	0.00	0.00	11,558.49	-10,950.02	646.00	468,091.00	840,539.00	32.2831445 -103.3651628
	- Point								
BHL - Pegasus 16 ST	- plan misses target center by 0.03ft at 22139.93ft MD (11560.54 TVD, -11048.02 N, 647.04 E)	0.00	0.00	11,560.54	-11,048.02	647.00	467,993.00	840,540.00	32.2828751 -103.3651625
	- Point								

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,764.00	1,764.00	Rustler		1.20	179.49
2,227.10	2,226.99	Salado		1.20	179.49
4,092.96	4,090.79	Yates		1.20	179.49
5,735.60	5,731.62	Del Marker		1.20	179.49
6,136.00	6,131.58	Cherry Canyon		1.20	179.49
7,617.47	7,611.43	Brushy Canyon		1.20	179.49
8,935.79	8,928.29	Avalon		1.20	179.49
9,186.04	9,178.27	Bone Spring		1.20	179.49
9,906.62	9,898.20	BS1		1.20	179.49
10,428.87	10,418.72	BS 2		1.20	179.49
11,238.87	11,171.23	BS3 Upper target top		1.20	179.49
11,441.62	11,286.66	BS 3		1.20	179.49
11,682.35	11,341.53	BS3 Target Line		1.20	179.49

Scientific Drilling

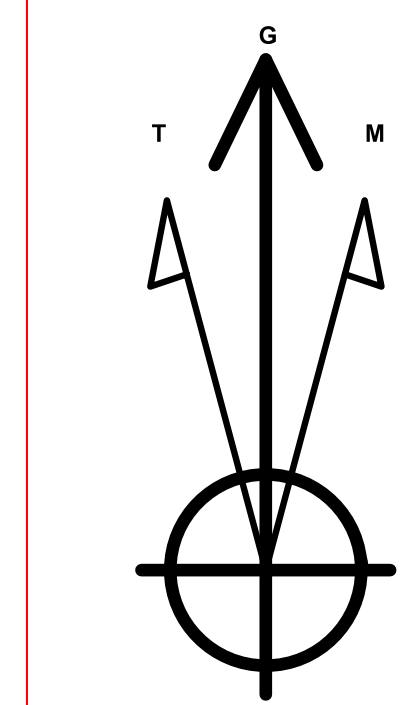
Planning Report

Database:	Midland	Local Co-ordinate Reference:	Well PEGASUS UNIT STATE COM 354H
Company:	Marlin Operating	TVD Reference:	3485 GL 30 EST KB @ 3515.00ft
Project:	Lea County, NM (NAD83 NME)	MD Reference:	3485 GL 30 EST KB @ 3515.00ft
Site:	Pegasus 16 State	North Reference:	Grid
Well:	PEGASUS UNIT STATE COM 354H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3B		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.00	2,000.00	0.00	0.00	Start Build 1.50
2,179.14	2,179.07	0.48	4.17	Start 7537.46 hold at 2179.14 MD
9,716.59	9,708.24	40.77	355.23	Start Drop -1.50
9,895.73	9,887.31	41.25	359.40	Start Build 1.50
10,895.73	10,875.93	-44.14	457.63	Start DLS 10.00 TFO 49.71
11,685.20	11,341.59	-596.00	554.00	Start 10356.70 hold at 11685.20 MD
22,041.90	11,558.49	-10,950.02	646.16	Start 98.03 hold at 22041.90 MD
22,139.93	11,560.54	-11,048.02	647.04	TD at 22139.93



PEGASUS UNIT STATE COM 354H
Lea County, NM (NAD83 NME)
Northing: 479041.00
Easting: 839893.00
Plan 3B



Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.77°

Magnetic Field
Strength: 47451.3nT
Dip Angle: 59.85°
Date: 2/28/2024
Model: HDGM2024

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 PEGASUS UNIT STATE COM 354H, Grid North

Latitude: 32.3132564
Longitude: -103.3669336

Grid East: 839893.00
Grid North: 479041.00
Scale Factor: 1.000

Geomagnetic Model: HDGM2024
Sample Date: 28-Feb-24
Magnetic Declination: 6.28°
Dip Angle from Horizontal: 59.85°
Magnetic Field Strength: 47451.3000000nT

To convert a Magnetic Direction to a Grid Direction, Add 5.77°
To convert a Magnetic Direction to a True Direction, Add 6.28° East
To convert a True Direction to a Grid Direction, Subtract 0.52°

WELL DETAILS PEGASUS UNIT STATE COM 354H					
			3485.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	479041.00	839893.00	32.3132564	-103.3669336

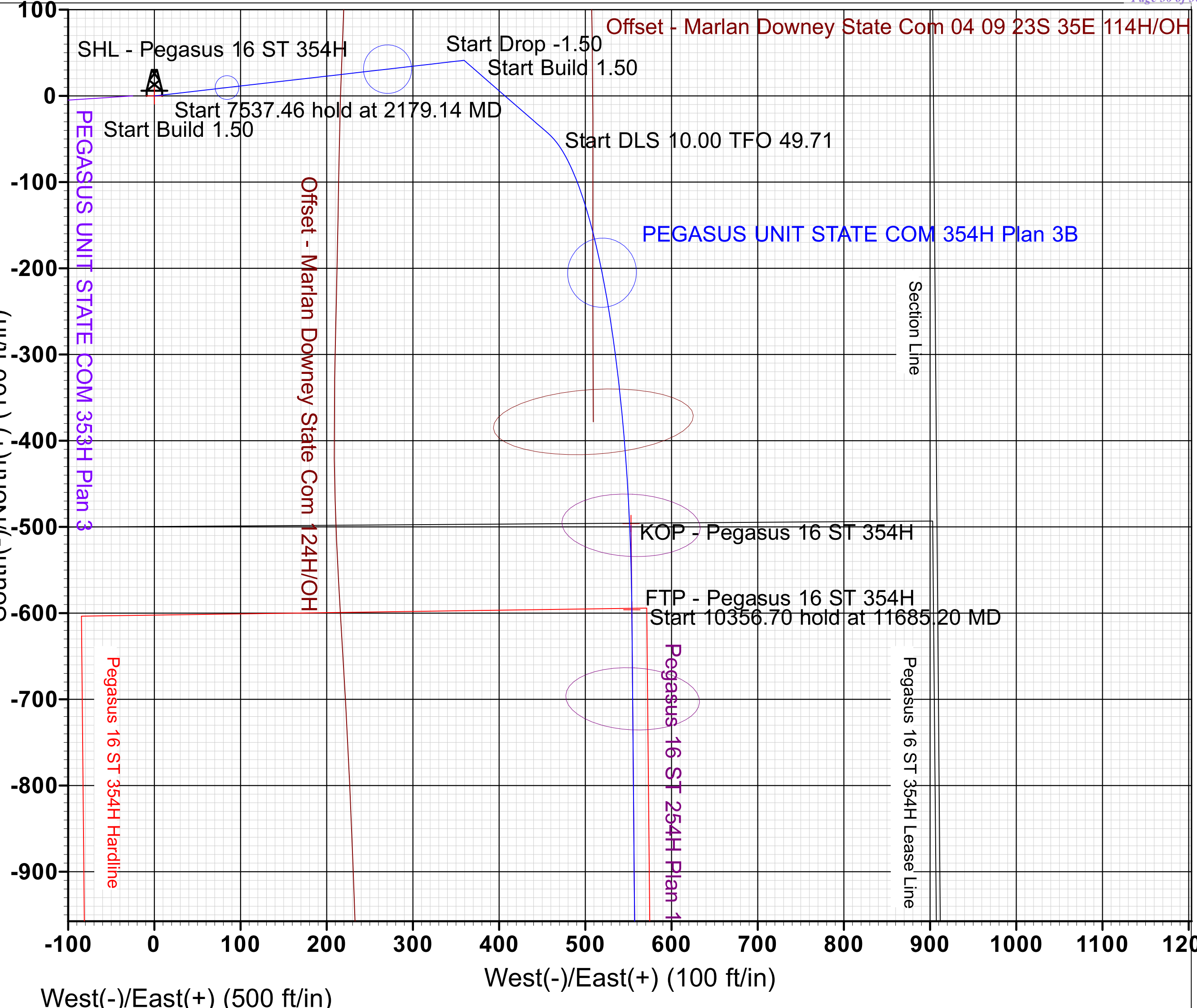
ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	Start Build 1.50	
2179.14	2.69	83.45	2179.07	0.48	4.17	-0.44	4.20	Start 7537.46 hold at 2179.14 MD	
9716.59	2.69	83.45	9708.24	40.77	355.23	-37.61	357.56	Start Drop -1.50	
9895.73	0.00	0.00	9887.31	41.25	359.40	-38.05	361.76	Start Build 1.50	
10895.73	15.00	131.00	10875.93	-44.14	457.63	48.21	491.91	Start DLS 10.00 TFO 49.71	
11685.20	88.80	179.49	11341.59	-596.00	554.00	600.91	1059.53	Start 10356.70 hold at 11685.20 MD	
22041.90	88.80	179.49	11558.49	-10950.02	646.16	10955.34	11413.96	Start 98.03 hold at 22041.90 MD	
22139.93	88.80	179.49	11560.54	-11048.02	647.04	11053.34	11511.97	TD at 22139.93	

All lease line calls are estimates only

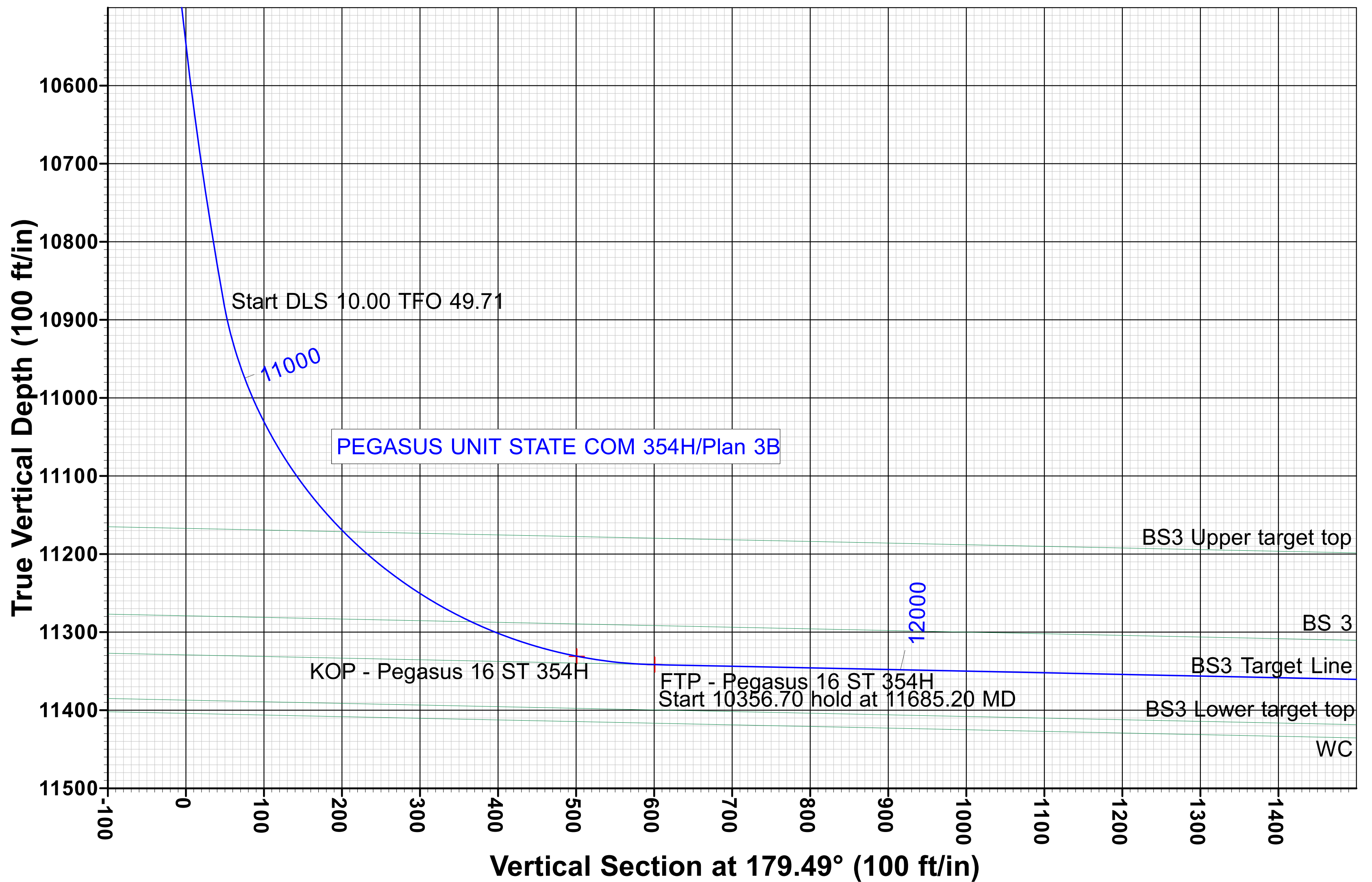
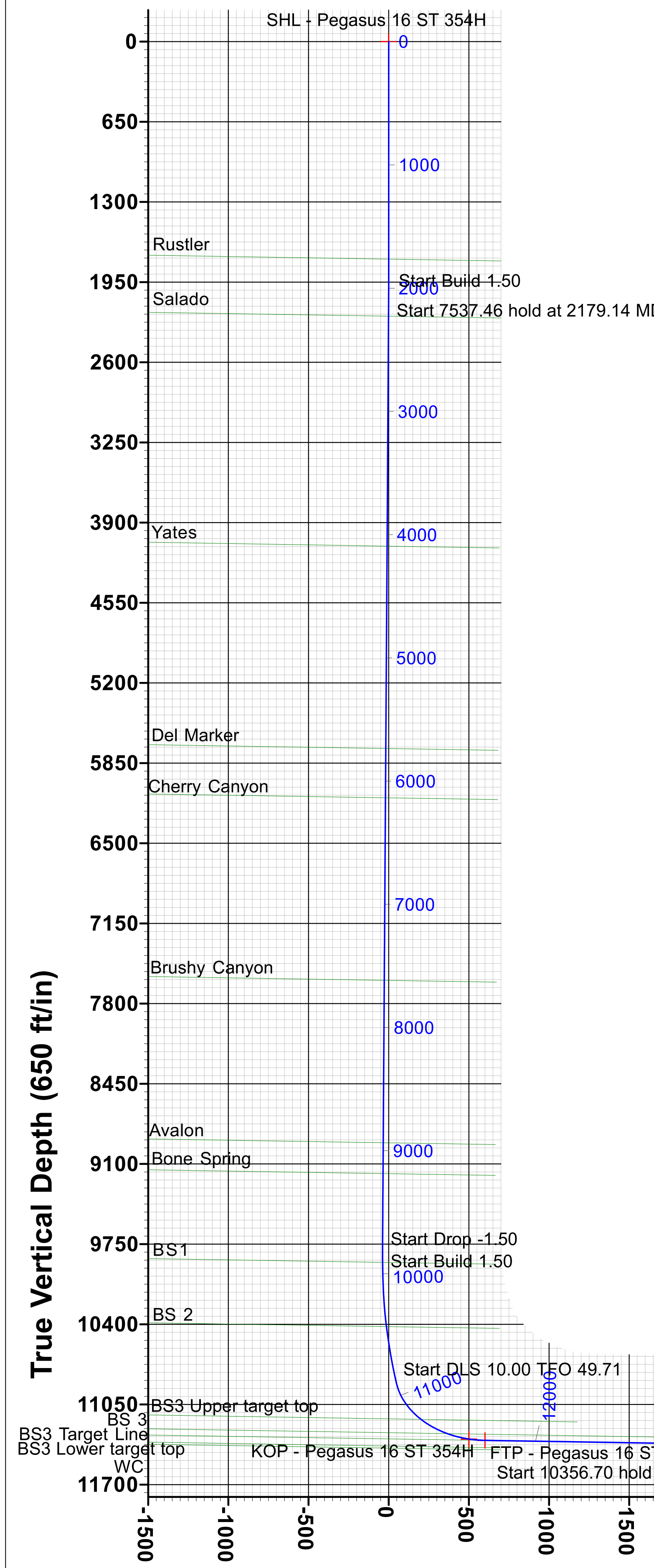
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
2179.14	2.69	83.45	2179.07	0.48	4.17	1.50	83.45	-0.44	
9716.59	2.69	83.45	9708.24	40.77	355.23	0.00	0.00	-37.61	
9895.73	0.00	0.00	9887.31	41.25	359.40	1.50	180.00	-38.05	
10895.73	15.00	131.00	10875.93	-44.14	457.63	1.50	131.00	48.21	
11685.20	88.80	179.49	11341.59	-596.00	554.00	10.00	49.71	600.91	
22041.90	88.80	179.49	11558.49	-10950.02	646.16	0.00	0.00	10955.34	
22139.93	88.80	179.49	11560.54	-11048.02	647.04	0.00	0.00	11053.34	

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL - Pegasus 16 ST 354H	0.00	0.00	0.00	479041.00	839893.00
KOP - Pegasus 16 ST 354H	11330.96	-496.00	553.00	478545.00	840446.00
FTP - Pegasus 16 ST 354H	11341.59	-596.00	554.00	478445.00	840447.00
LTP - Pegasus 16 ST 354H	11558.49	-10950.02	646.00	468091.00	840539.00
BHL - Pegasus 16 ST 354H	11560.54	-11048.02	647.00	467993.00	840540.00

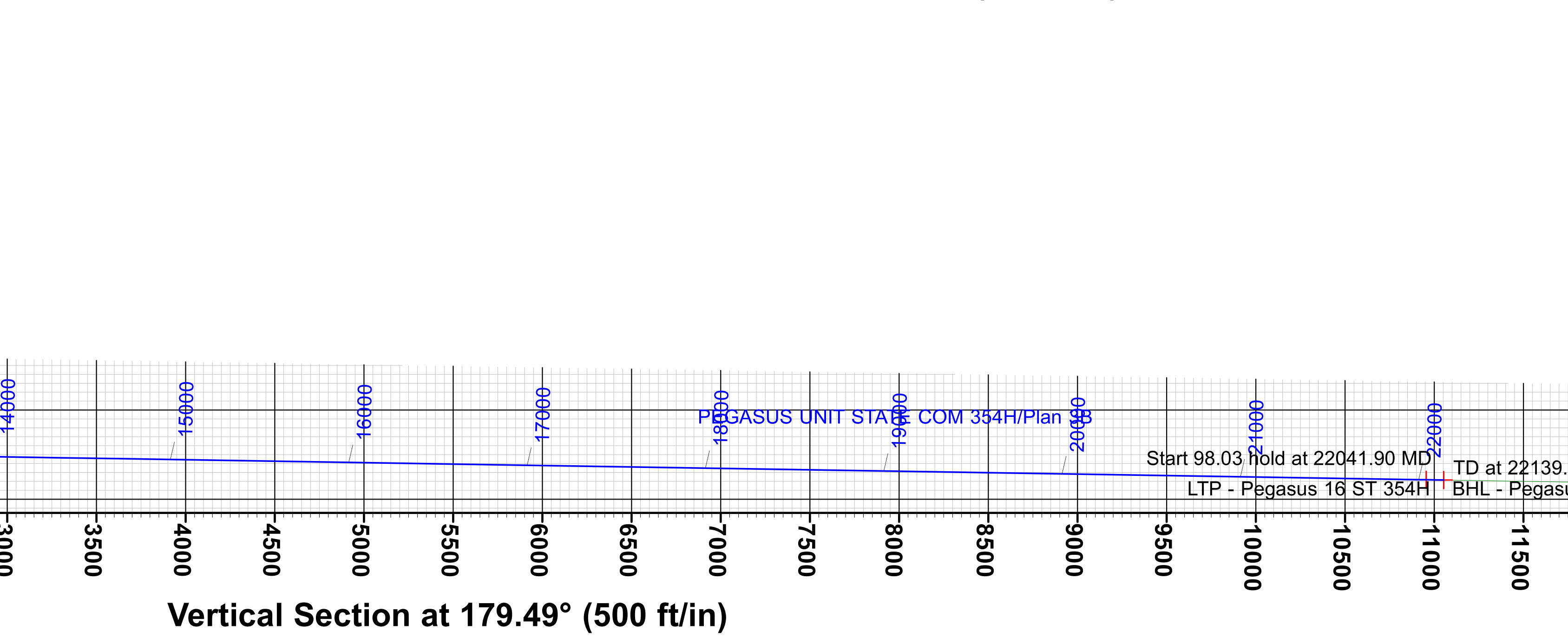
FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	DipAngle DipDir
1764.00	1764.00	Rustler	1.20 179.49
2226.99	2227.10	Salado	1.20 179.49
4090.79	4092.96	Yates	1.20 179.49
5731.62	5735.60	Del Marker	1.20 179.49
6131.58	6136.00	Cherry Canyon	1.20 179.49
7611.43	7617.47	Brushy Canyon	1.20 179.49
8928.29	8935.79	Avalon	1.20 179.49
9178.27	9186.04	Bone Spring	1.20 179.49
9898.20	9906.62	BS1	1.20 179.49
10418.72	10426.87	BS 2	1.20 179.49
11171.23	11238.87	BS3 Upper target top	1.20 179.49
11286.66	11441.62	BS 3	1.20 179.49
11341.53	11682.35	BS3 Target Line	1.20 179.49



3485 GL 30 EST KB @ 3515.00ft
Gr@ 3485.00



Vertical Section at 179.49° (100 ft/in)



Vertical Section at 179.49° (500 ft/in)

