

District I1625 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

Form C-101

August 1, 2011

Permit 307048

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

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

1. Operator Name and Address MARSHALL & WINSTON INC P.O. Box 50880 Midland, TX 79710		2. OGRID Number 14187
		3. API Number 30-025-49727
4. Property Code 39736	5. Property Name LOCO DINERO 36 STATE COM	6. Well No. 009H

7. Surface Location

UL - Lot C	Section 36	Township 21S	Range 33E	Lot Idn C	Feet From 160	N/S Line N	Feet From 1920	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 36	Township 21S	Range 33E	Lot Idn N	Feet From 20	N/S Line S	Feet From 1790	E/W Line W	County Lea
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9. Pool Information

WC-025 G-06 S213326D;BONE SPRING	97929
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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 3658
16. Multiple N	17. Proposed Depth 16008	18. Formation Bone Spring	19. Contractor	20. Spud Date 2/22/2022
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	1805	1550	0
Int1	12.25	9.625	40	5305	1300	0
Prod	8.75	5.5	20	16008	2450	0

Casing/Cement Program: Additional Comments

Surface hole will be drilled with fresh water; 10 ppg brine water will be used to drill the intermediate hole; 9.6 ppg cut brine will be used to drill the intermediate hole from intermediate casing depth to KOP at 10473'. From 10473' (KOP) to TD 9.8-10.5 ppg oil based mud will be used.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	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.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Sherry Roberts	Approved By: Paul F Kautz	
Title: Operations Secretary	Title: Geologist	
Email Address: sroberts@mar-win.com	Approved Date: 1/25/2022	Expiration Date: 1/25/2024
Date: 1/24/2022	Phone: 432-684-6373	Conditions of Approval Attached

DISTRICT I
1525 N. FRANCHIS DR., BOHNS, NM 88240
Phone: (505) 333-0181 Fax: (505) 333-0720

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1853 Fax: (505) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 534-5175 Fax: (505) 534-5170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 475-3488 Fax: (505) 475-3488

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 97929	Pool Name WC 025; G-06 5213326D; Bone Spring
Property Code 39736	Property Name LOCO DINERO 36 STATE COM	Well Number 9H
GRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 3657.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	21-S	33-E		160	NORTH	1920	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	21-S	33-E		20	SOUTH	1790	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	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

Y=525651.7 N X=789044.2 E Y=525659.9 N X=790364.0 E 426' FWL & 1790' FWL Y=525228.6 N X=789517.5 E LAT.=32.441348° N LONG.=103.528856° W GRID AZ. TO FTP 205°37'42" Y=520372.6 N X=789087.4 E Y=520475.3 N X=789555.9 E LAT.=32.428284° N LONG.=103.528847° W Y=520380.2 N X=790408.1 E Y=520395.3 N X=789556.5 E LAT.=32.428064° N LONG.=103.528847° W	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division. <i>[Signature]</i> 1/21/22 Signature Date Todd Passmore Printed Name tpassmore@mar-win.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 19, 2022 Date of Survey Signature & Seal of Professional Surveyor <i>[Signature]</i> 1/20/22 Certificate No. CHAD HARCROW 17777 W.O. #22-64 DRAWN BY: WN
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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 APD Comments

Permit 307048

PERMIT COMMENTS

Operator Name and Address:		API Number:
MARSHALL & WINSTON INC [14187]		30-025-49727
P.O. Box 50880		Well:
Midland, TX 79710		LOCO DINERO 36 STATE COM #009H

Created By	Comment	Comment Date
klein1	A Com Agreement has been submitted to the State Land Office for approval for all of the Loco Dinero 36 State Com wells in Section 36-T21S-R33E.	1/24/2022

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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 307048

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MARSHALL & WINSTON INC [14187] P.O. Box 50880 Midland, TX 79710	API Number: 30-025-49727
	Well: LOCO DINERO 36 STATE COM #009H

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	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

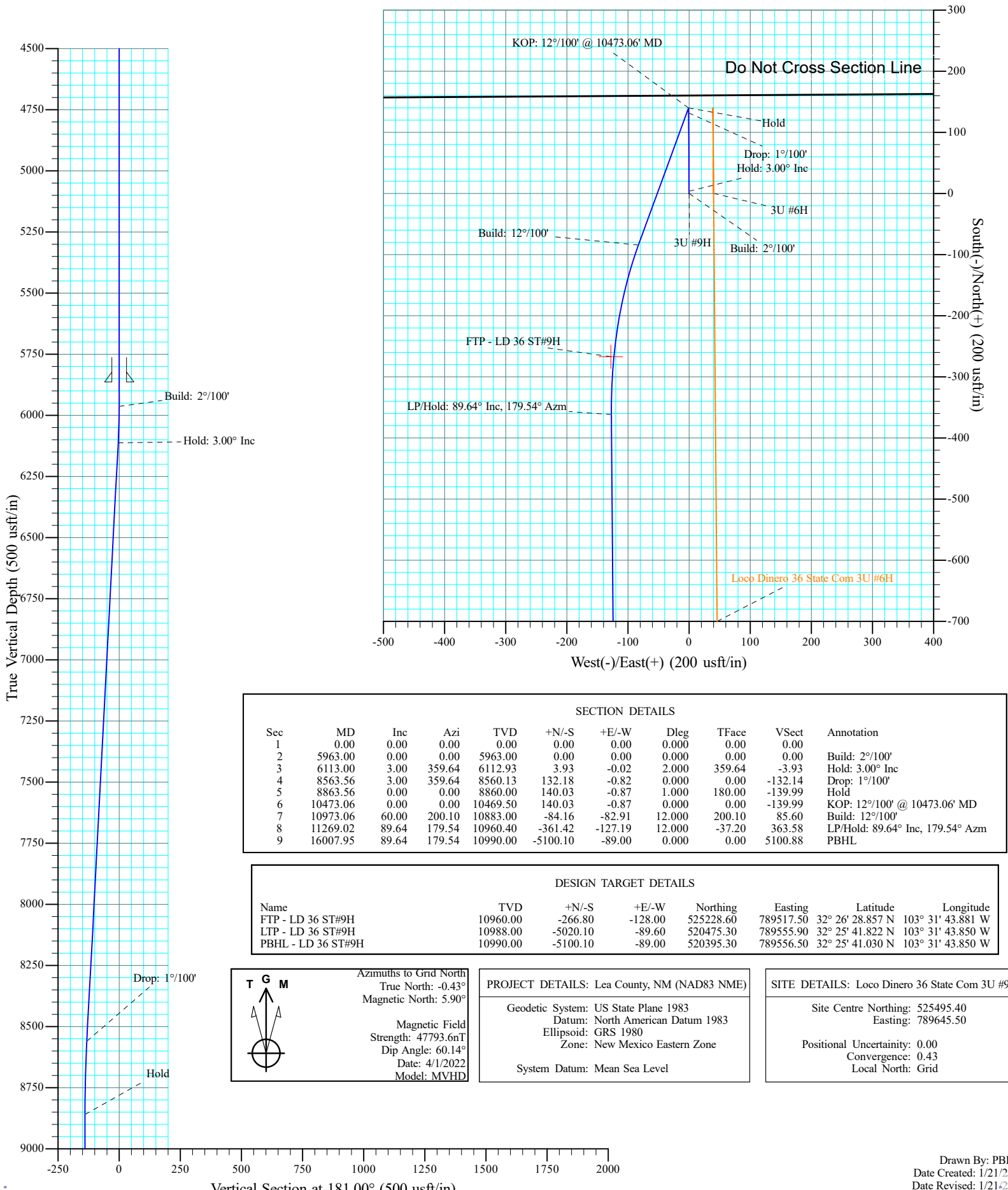
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Loco Dinero 36 State Com 3U #9H
Lea County, NM (NAD83 NME)
Job No. WT-22-***
Lateral 1r0



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5963.00	0.00	0.00	5963.00	0.00	0.00	0.000	0.00	0.00	Build: 2°/100'
3	6113.00	3.00	359.64	6112.93	3.93	-0.02	2.000	359.64	-3.93	Hold: 3.00° Inc
4	8563.56	3.00	359.64	8560.13	132.18	-0.82	0.000	0.00	-132.14	Drop: 1°/100'
5	8863.56	0.00	0.00	8860.00	140.03	-0.87	1.000	180.00	-139.99	Hold
6	10473.06	0.00	0.00	10469.50	140.03	-0.87	0.000	0.00	-139.99	KOP: 12°/100' @ 10473.06' MD
7	10973.06	60.00	200.10	10883.00	-84.16	-82.91	12.000	200.10	85.60	Build: 12°/100'
8	11269.02	89.64	179.54	10960.40	-361.42	-127.19	12.000	-37.20	363.58	LP/Hold: 89.64° Inc, 179.54° Azm
9	16007.95	89.64	179.54	10990.00	-5100.10	-89.00	0.000	0.00	5100.88	PBHL

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP - LD 36 ST#9H	10960.00	-266.80	-128.00	525228.60	789517.50	32° 26' 28.857 N
LTP - LD 36 ST#9H	10988.00	-5020.10	-89.60	520475.30	789555.90	32° 25' 41.822 N
PBHL - LD 36 ST#9H	10990.00	-5100.10	-89.00	520395.30	789556.50	32° 25' 41.030 N

Azimuths to Grid North
True North: -0.43°
Magnetic North: 5.90°

Magnetic Field
Strength: 47793.6nT
Dip Angle: 60.14°
Date: 4/1/2022
Model: MVHD

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

SITE DETAILS: Loco Dinero 36 State Com 3U #9H	
Site Centre Northing:	525495.40
Easting:	789645.50
Positional Uncertainty:	0.00
Convergence:	0.43
Local North:	Grid

Vertical Section at 181.00° (500 usft/in)

Loco Dinero 36 State Com 3U #9H
Lea County, NM (NAD83 NME)
Job No. WT-22-***
Lateral 1r0



Received by OCD: 1/25/2022 3:31:59 PM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5963.00	0.00	0.00	5963.00	0.00	0.00	0.000	0.00	0.00	
3	6113.00	3.00	359.64	6112.93	3.93	-0.02	2.000	359.64	-3.93	
4	8563.56	3.00	359.64	8560.13	132.18	-0.82	0.000	0.00	-132.14	
5	8863.56	0.00	0.00	8860.00	140.03	-0.87	1.000	180.00	-139.99	
6	10473.06	0.00	0.00	10469.50	140.03	-0.87	0.000	0.00	-139.99	
7	10973.06	60.00	200.10	10883.00	-84.16	-82.91	12.000	200.10	85.60	
8	11269.02	89.64	179.54	10960.40	-361.42	-127.19	12.000	-37.20	363.58	
9	16007.95	89.64	179.54	10990.00	-5100.10	-89.00	0.000	0.00	5100.88	PBHL - LD 36 ST#9H

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP - LD 36 ST#9H	10960.00	-266.80	-128.00	525228.60	789517.50	32° 26' 28.857 N 103° 31' 43.881 W	
LTP - LD 36 ST#9H	10988.00	-5020.10	-89.60	520475.30	789555.90	32° 25' 41.822 N 103° 31' 43.850 W	
PBHL - LD 36 ST#9H	10990.00	-5100.10	-89.00	520395.30	789556.50	32° 25' 41.030 N 103° 31' 43.850 W	

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

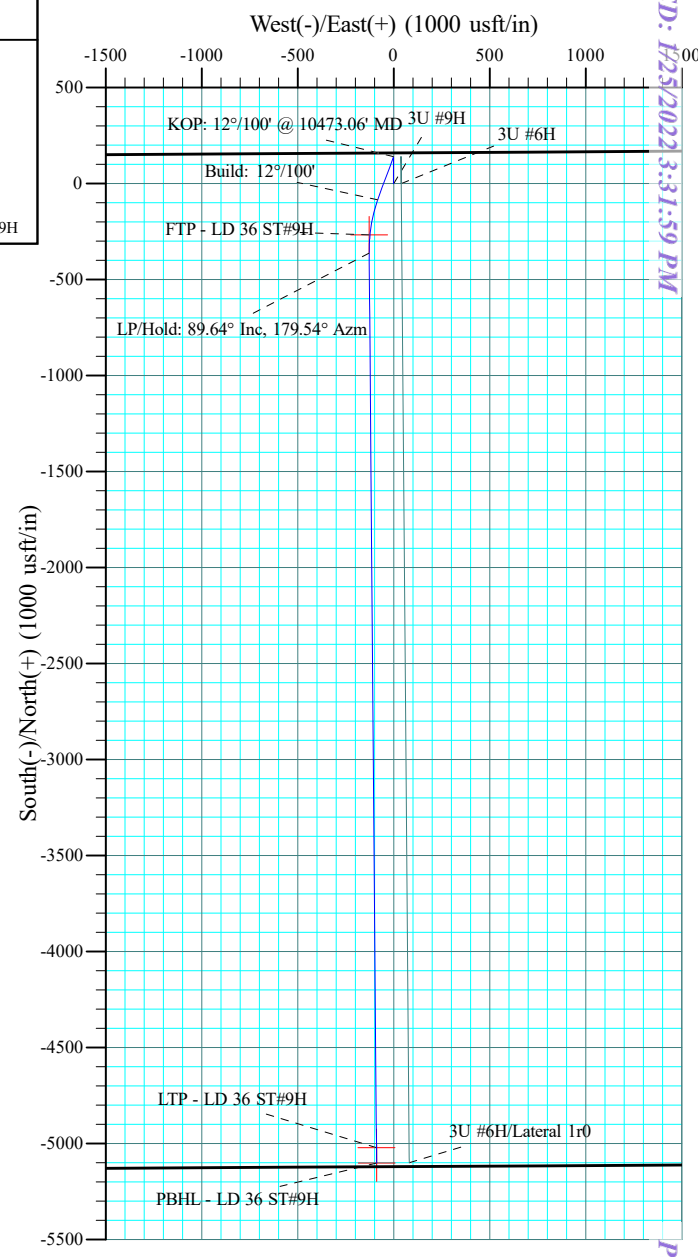
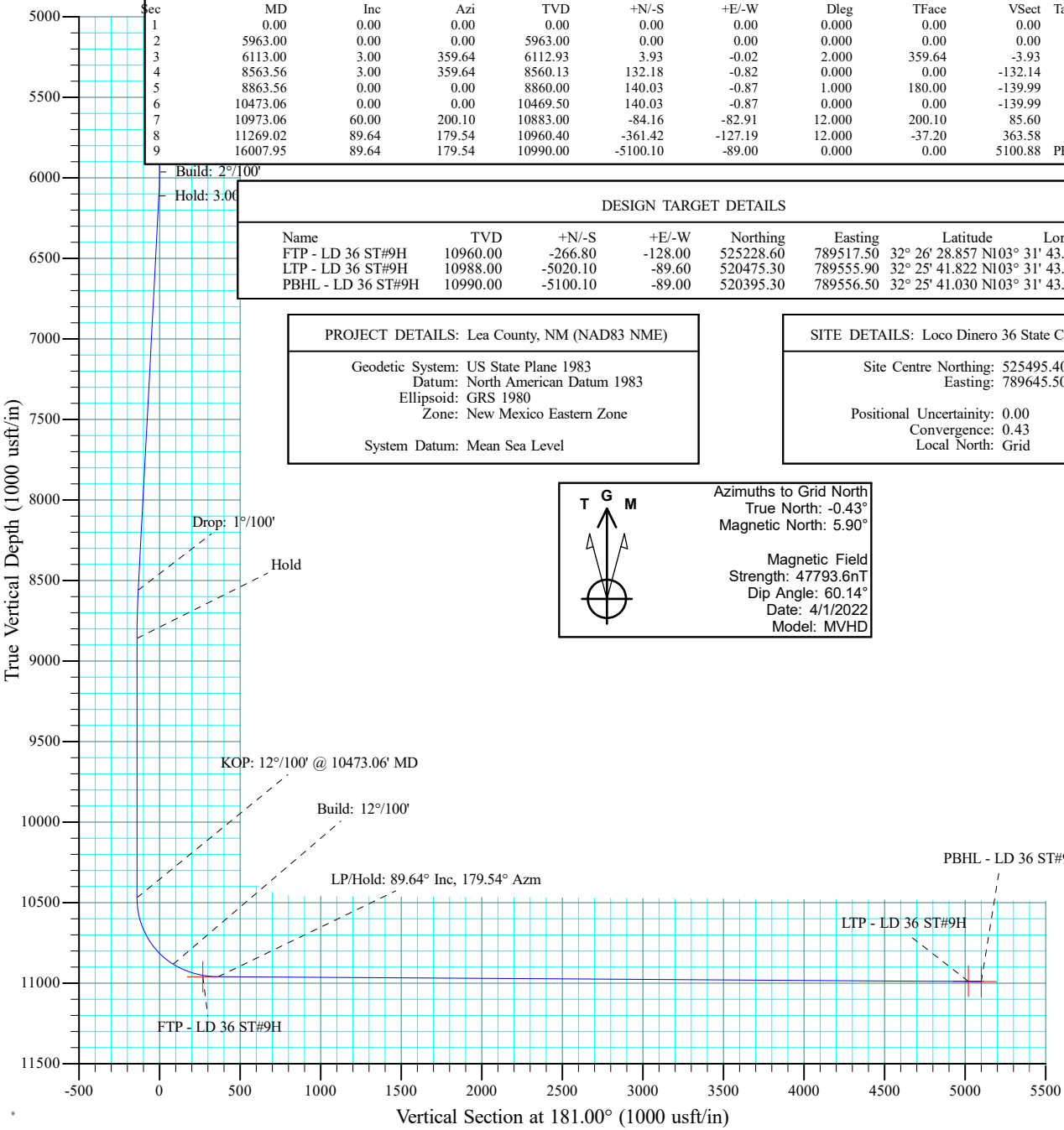
SITE DETAILS: Loco Dinero 36 State Com 3U #9H

Site Centre Northing: 525495.40
Easting: 789645.50

Positional Uncertainty: 0.00
Convergence: 0.43
Local North: Grid

Azimuths to Grid North
True North: -0.43°
Magnetic North: 5.90°

Magnetic Field
Strength: 47793.6nT
Dip Angle: 60.14°
Date: 4/1/2022
Model: MVHD



Aim Directional Services, LLC

Planning Report

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

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	Loco Dinero 36 State Com 3U #9H		
Site Position:		Northing:	525,495.40 usft
From:	Map	Easting:	789,645.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 26' 31.488 N
		Longitude:	103° 31' 42.364 W
		Grid Convergence:	0.43 °

Well	3U #9H		
Well Position	+N/-S	0.00 usft	Northing: 525,495.40 usft
	+E/-W	0.00 usft	Easting: 789,645.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 26' 31.488 N
			Longitude: 103° 31' 42.364 W
			Ground Level: 3,657.90 usft

Wellbore	Planning				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	4/1/2022	6.33	60.14	47,793.597

Design	Lateral 1r0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	181.00

Plan Survey Tool Program	Date	1/21/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,007.95	Lateral 1r0 (Planning)	MWD+HDGM
				OWSG MWD + HDGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	
5,963.00	0.00	0.00	5,963.00	0.00	0.00	0.000	0.000	0.000	0.00	
6,113.00	3.00	359.64	6,112.93	3.93	-0.02	2.000	2.000	0.000	359.64	
8,563.56	3.00	359.64	8,560.13	132.18	-0.82	0.000	0.000	0.000	0.00	
8,863.56	0.00	0.00	8,860.00	140.03	-0.87	1.000	-1.000	0.000	180.00	
10,473.06	0.00	0.00	10,469.50	140.03	-0.87	0.000	0.000	0.000	0.00	
10,973.06	60.00	200.10	10,883.00	-84.16	-82.91	12.000	12.000	0.000	200.10	
11,269.02	89.64	179.54	10,960.40	-361.42	-127.19	12.000	10.016	-6.947	-37.20	
16,007.95	89.64	179.54	10,990.00	-5,100.10	-89.00	0.000	0.000	0.000	0.00	PBHL - LD 36 ST#9

Aim Directional Services, LLC

Planning Report

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.000	0.000	0.000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.000	0.000	0.000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.000	0.000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.000	0.000	0.000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.000	0.000	0.000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.000	0.000	0.000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.000	0.000	0.000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.000	0.000	0.000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.000	0.000	0.000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.000	0.000	0.000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.000	0.000	0.000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.000	0.000	0.000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.000	0.000	0.000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.000	0.000	0.000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.000	0.000	0.000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.000	0.000	0.000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.000	0.000	0.000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.000	0.000	0.000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.000	0.000	0.000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.000	0.000	0.000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.000	0.000	0.000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.000	0.000	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.000	0.000	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.000	0.000	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.000	0.000	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.000	0.000	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.000	0.000	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.000	0.000	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.000	0.000	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.000	0.000	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.000	0.000	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.000	0.000	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.000	0.000	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.000	0.000	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.000	0.000	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.000	0.000	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.000	0.000	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.000	0.000	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.000	0.000	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.000	0.000	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.000	0.000	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.000	0.000	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.000	0.000	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.000	0.000	0.000
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.000	0.000	0.000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.000	0.000	0.000
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.000	0.000	0.000

Aim Directional Services, LLC

Planning Report

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.000	0.000	0.000
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.000	0.000	0.000
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.000	0.000	0.000
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.000	0.000	0.000
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.000	0.000	0.000
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,963.00	0.00	0.00	5,963.00	0.00	0.00	0.00	0.000	0.000	0.000
Build: 2°/100'									
6,000.00	0.74	359.64	6,000.00	0.24	0.00	-0.24	2.000	2.000	0.000
6,100.00	2.74	359.64	6,099.95	3.28	-0.02	-3.27	2.000	2.000	0.000
6,113.00	3.00	359.64	6,112.93	3.93	-0.02	-3.93	2.000	2.000	0.000
Hold: 3.00° Inc									
6,200.00	3.00	359.64	6,199.81	8.48	-0.05	-8.48	0.000	0.000	0.000
6,300.00	3.00	359.64	6,299.68	13.71	-0.09	-13.71	0.000	0.000	0.000
6,400.00	3.00	359.64	6,399.54	18.95	-0.12	-18.94	0.000	0.000	0.000
6,500.00	3.00	359.64	6,499.40	24.18	-0.15	-24.17	0.000	0.000	0.000
6,600.00	3.00	359.64	6,599.26	29.41	-0.18	-29.41	0.000	0.000	0.000
6,700.00	3.00	359.64	6,699.13	34.65	-0.22	-34.64	0.000	0.000	0.000
6,800.00	3.00	359.64	6,798.99	39.88	-0.25	-39.87	0.000	0.000	0.000
6,900.00	3.00	359.64	6,898.85	45.11	-0.28	-45.10	0.000	0.000	0.000
7,000.00	3.00	359.64	6,998.72	50.35	-0.31	-50.33	0.000	0.000	0.000
7,100.00	3.00	359.64	7,098.58	55.58	-0.35	-55.57	0.000	0.000	0.000
7,200.00	3.00	359.64	7,198.44	60.81	-0.38	-60.80	0.000	0.000	0.000
7,300.00	3.00	359.64	7,298.30	66.05	-0.41	-66.03	0.000	0.000	0.000
7,400.00	3.00	359.64	7,398.17	71.28	-0.44	-71.26	0.000	0.000	0.000
7,500.00	3.00	359.64	7,498.03	76.52	-0.48	-76.50	0.000	0.000	0.000
7,600.00	3.00	359.64	7,597.89	81.75	-0.51	-81.73	0.000	0.000	0.000
7,700.00	3.00	359.64	7,697.76	86.98	-0.54	-86.96	0.000	0.000	0.000
7,800.00	3.00	359.64	7,797.62	92.22	-0.57	-92.19	0.000	0.000	0.000
7,900.00	3.00	359.64	7,897.48	97.45	-0.61	-97.42	0.000	0.000	0.000
8,000.00	3.00	359.64	7,997.35	102.68	-0.64	-102.66	0.000	0.000	0.000
8,100.00	3.00	359.64	8,097.21	107.92	-0.67	-107.89	0.000	0.000	0.000
8,200.00	3.00	359.64	8,197.07	113.15	-0.70	-113.12	0.000	0.000	0.000
8,300.00	3.00	359.64	8,296.93	118.38	-0.74	-118.35	0.000	0.000	0.000
8,400.00	3.00	359.64	8,396.80	123.62	-0.77	-123.59	0.000	0.000	0.000
8,500.00	3.00	359.64	8,496.66	128.85	-0.80	-128.82	0.000	0.000	0.000
8,563.56	3.00	359.64	8,560.13	132.18	-0.82	-132.14	0.000	0.000	0.000
Drop: 1°/100'									
8,600.00	2.64	359.64	8,596.53	133.97	-0.83	-133.93	1.000	-1.000	0.000
8,700.00	1.64	359.64	8,696.46	137.70	-0.86	-137.66	1.000	-1.000	0.000
8,800.00	0.64	359.64	8,796.44	139.68	-0.87	-139.64	1.000	-1.000	0.000
8,863.56	0.00	0.00	8,860.00	140.03	-0.87	-139.99	1.000	-1.000	0.560
Hold									
8,900.00	0.00	0.00	8,896.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,000.00	0.00	0.00	8,996.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,100.00	0.00	0.00	9,096.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,200.00	0.00	0.00	9,196.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,300.00	0.00	0.00	9,296.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,400.00	0.00	0.00	9,396.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,500.00	0.00	0.00	9,496.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,600.00	0.00	0.00	9,596.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,700.00	0.00	0.00	9,696.44	140.03	-0.87	-139.99	0.000	0.000	0.000
9,800.00	0.00	0.00	9,796.44	140.03	-0.87	-139.99	0.000	0.000	0.000

Aim Directional Services, LLC

Planning Report

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,900.00	0.00	0.00	9,896.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,000.00	0.00	0.00	9,996.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,100.00	0.00	0.00	10,096.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,200.00	0.00	0.00	10,196.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,300.00	0.00	0.00	10,296.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,400.00	0.00	0.00	10,396.44	140.03	-0.87	-139.99	0.000	0.000	0.000
10,473.06	0.00	0.00	10,469.50	140.03	-0.87	-139.99	0.000	0.000	0.000
KOP: 12°/100' @ 10473.06' MD									
10,475.00	0.23	200.10	10,471.44	140.03	-0.87	-139.99	11.974	11.974	0.000
10,500.00	3.23	200.10	10,496.42	139.32	-1.13	-139.28	12.000	12.000	0.000
10,525.00	6.23	200.10	10,521.33	137.38	-1.84	-137.33	12.000	12.000	0.000
10,550.00	9.23	200.10	10,546.10	134.22	-3.00	-134.15	12.000	12.000	0.000
10,575.00	12.23	200.10	10,570.66	129.85	-4.60	-129.75	12.000	12.000	0.000
10,600.00	15.23	200.10	10,594.95	124.28	-6.63	-124.14	12.000	12.000	0.000
10,625.00	18.23	200.10	10,618.88	117.52	-9.11	-117.34	12.000	12.000	0.000
10,650.00	21.23	200.10	10,642.41	109.59	-12.01	-109.37	12.000	12.000	0.000
10,675.00	24.23	200.10	10,665.47	100.52	-15.33	-100.24	12.000	12.000	0.000
10,700.00	27.23	200.10	10,687.99	90.33	-19.06	-89.98	12.000	12.000	0.000
10,725.00	30.23	200.10	10,709.91	79.05	-23.19	-78.63	12.000	12.000	0.000
10,750.00	33.23	200.10	10,731.17	66.70	-27.71	-66.21	12.000	12.000	0.000
10,775.00	36.23	200.10	10,751.71	53.32	-32.60	-52.75	12.000	12.000	0.000
10,800.00	39.23	200.10	10,771.48	38.96	-37.86	-38.29	12.000	12.000	0.000
10,825.00	42.23	200.10	10,790.42	23.64	-43.46	-22.88	12.000	12.000	0.000
10,850.00	45.23	200.10	10,808.48	7.41	-49.40	-6.55	12.000	12.000	0.000
10,875.00	48.23	200.10	10,825.62	-9.68	-55.66	10.65	12.000	12.000	0.000
10,900.00	51.23	200.10	10,841.78	-27.59	-62.21	28.67	12.000	12.000	0.000
10,925.00	54.23	200.10	10,856.91	-46.27	-69.05	47.47	12.000	12.000	0.000
10,950.00	57.23	200.10	10,870.99	-65.67	-76.15	66.99	12.000	12.000	0.000
10,973.06	60.00	200.10	10,882.99	-84.16	-82.91	85.59	12.000	12.000	0.000
Build: 12°/100'									
10,975.00	60.19	199.94	10,883.96	-85.74	-83.49	87.18	11.996	9.568	-8.348
11,000.00	62.59	197.90	10,895.93	-106.50	-90.60	108.06	12.000	9.631	-8.155
11,025.00	65.03	195.95	10,906.97	-127.96	-97.12	129.63	12.000	9.745	-7.805
11,050.00	67.49	194.07	10,917.03	-150.06	-103.05	151.84	12.000	9.843	-7.500
11,075.00	69.97	192.26	10,926.10	-172.74	-108.35	174.61	12.000	9.926	-7.237
11,100.00	72.47	190.51	10,934.15	-195.94	-113.02	197.89	12.000	9.998	-7.011
11,125.00	74.99	188.81	10,941.15	-219.60	-117.04	221.61	12.000	10.057	-6.820
11,150.00	77.51	187.14	10,947.10	-243.65	-120.41	245.71	12.000	10.107	-6.661
11,175.00	80.05	185.51	10,951.96	-268.02	-123.11	270.12	12.000	10.147	-6.531
11,200.00	82.59	183.90	10,955.73	-292.64	-125.13	294.78	12.000	10.178	-6.430
11,225.00	85.14	182.31	10,958.40	-317.46	-126.48	319.62	12.000	10.201	-6.357
11,250.00	87.70	180.73	10,959.96	-342.40	-127.14	344.57	12.000	10.216	-6.309
11,269.02	89.64	179.54	10,960.40	-361.41	-127.19	363.58	12.000	10.223	-6.287
LP/Hold: 89.64° Inc, 179.54° Azm									
11,300.00	89.64	179.54	10,960.60	-392.39	-126.94	394.55	0.001	0.001	-0.001
11,400.00	89.64	179.54	10,961.22	-492.39	-126.13	494.51	0.000	0.000	0.000
11,500.00	89.64	179.54	10,961.85	-592.38	-125.33	594.48	0.000	0.000	0.000
11,600.00	89.64	179.54	10,962.47	-692.38	-124.52	694.44	0.000	0.000	0.000
11,700.00	89.64	179.54	10,963.10	-792.37	-123.72	794.41	0.000	0.000	0.000
11,800.00	89.64	179.54	10,963.72	-892.37	-122.91	894.38	0.000	0.000	0.000
11,900.00	89.64	179.54	10,964.35	-992.36	-122.10	994.34	0.000	0.000	0.000
12,000.00	89.64	179.54	10,964.97	-1,092.36	-121.30	1,094.31	0.000	0.000	0.000
12,100.00	89.64	179.54	10,965.59	-1,192.35	-120.49	1,194.27	0.000	0.000	0.000

Aim Directional Services, LLC

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12,200.00	89.64	179.54	10,966.22	-1,292.35	-119.69	1,294.24	0.000	0.000	0.000
12,300.00	89.64	179.54	10,966.84	-1,392.34	-118.88	1,394.20	0.000	0.000	0.000
12,400.00	89.64	179.54	10,967.47	-1,492.34	-118.07	1,494.17	0.000	0.000	0.000
12,500.00	89.64	179.54	10,968.09	-1,592.33	-117.27	1,594.13	0.000	0.000	0.000
12,600.00	89.64	179.54	10,968.72	-1,692.33	-116.46	1,694.10	0.000	0.000	0.000
12,700.00	89.64	179.54	10,969.34	-1,792.32	-115.66	1,794.07	0.000	0.000	0.000
12,800.00	89.64	179.54	10,969.97	-1,892.32	-114.85	1,894.03	0.000	0.000	0.000
12,900.00	89.64	179.54	10,970.59	-1,992.31	-114.05	1,994.00	0.000	0.000	0.000
13,000.00	89.64	179.54	10,971.21	-2,092.30	-113.24	2,093.96	0.000	0.000	0.000
13,100.00	89.64	179.54	10,971.84	-2,192.30	-112.43	2,193.93	0.000	0.000	0.000
13,200.00	89.64	179.54	10,972.46	-2,292.29	-111.63	2,293.89	0.000	0.000	0.000
13,300.00	89.64	179.54	10,973.09	-2,392.29	-110.82	2,393.86	0.000	0.000	0.000
13,400.00	89.64	179.54	10,973.71	-2,492.28	-110.02	2,493.82	0.000	0.000	0.000
13,500.00	89.64	179.54	10,974.34	-2,592.28	-109.21	2,593.79	0.000	0.000	0.000
13,600.00	89.64	179.54	10,974.96	-2,692.27	-108.40	2,693.76	0.000	0.000	0.000
13,700.00	89.64	179.54	10,975.59	-2,792.27	-107.60	2,793.72	0.000	0.000	0.000
13,800.00	89.64	179.54	10,976.21	-2,892.26	-106.79	2,893.69	0.000	0.000	0.000
13,900.00	89.64	179.54	10,976.84	-2,992.26	-105.99	2,993.65	0.000	0.000	0.000
14,000.00	89.64	179.54	10,977.46	-3,092.25	-105.18	3,093.62	0.000	0.000	0.000
14,100.00	89.64	179.54	10,978.08	-3,192.25	-104.38	3,193.58	0.000	0.000	0.000
14,200.00	89.64	179.54	10,978.71	-3,292.24	-103.57	3,293.55	0.000	0.000	0.000
14,300.00	89.64	179.54	10,979.33	-3,392.24	-102.76	3,393.51	0.000	0.000	0.000
14,400.00	89.64	179.54	10,979.96	-3,492.23	-101.96	3,493.48	0.000	0.000	0.000
14,500.00	89.64	179.54	10,980.58	-3,592.23	-101.15	3,593.44	0.000	0.000	0.000
14,600.00	89.64	179.54	10,981.21	-3,692.22	-100.35	3,693.41	0.000	0.000	0.000
14,700.00	89.64	179.54	10,981.83	-3,792.22	-99.54	3,793.38	0.000	0.000	0.000
14,800.00	89.64	179.54	10,982.46	-3,892.21	-98.73	3,893.34	0.000	0.000	0.000
14,900.00	89.64	179.54	10,983.08	-3,992.21	-97.93	3,993.31	0.000	0.000	0.000
15,000.00	89.64	179.54	10,983.71	-4,092.20	-97.12	4,093.27	0.000	0.000	0.000
15,100.00	89.64	179.54	10,984.33	-4,192.20	-96.32	4,193.24	0.000	0.000	0.000
15,200.00	89.64	179.54	10,984.95	-4,292.19	-95.51	4,293.20	0.000	0.000	0.000
15,300.00	89.64	179.54	10,985.58	-4,392.19	-94.70	4,393.17	0.000	0.000	0.000
15,400.00	89.64	179.54	10,986.20	-4,492.18	-93.90	4,493.13	0.000	0.000	0.000
15,500.00	89.64	179.54	10,986.83	-4,592.17	-93.09	4,593.10	0.000	0.000	0.000
15,600.00	89.64	179.54	10,987.45	-4,692.17	-92.29	4,693.07	0.000	0.000	0.000
15,700.00	89.64	179.54	10,988.08	-4,792.16	-91.48	4,793.03	0.000	0.000	0.000
15,800.00	89.64	179.54	10,988.70	-4,892.16	-90.68	4,893.00	0.000	0.000	0.000
15,900.00	89.64	179.54	10,989.33	-4,992.15	-89.87	4,992.96	0.000	0.000	0.000
16,007.95	89.64	179.54	10,990.00	-5,100.10	-89.00	5,100.88	0.000	0.000	0.000
PBHL									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,825.00	1,825.00	Casing		10-3/4	10-3/4
5,863.00	5,863.00	Casing		9-5/8	9-5/8

Aim Directional Services, LLC

Planning Report

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,963.00	5,963.00	0.00	0.00	Build: 2°/100'
6,113.00	6,112.93	3.93	-0.02	Hold: 3.00° Inc
8,563.56	8,560.13	132.18	-0.82	Drop: 1°/100'
8,863.56	8,860.00	140.03	-0.87	Hold
10,473.06	10,469.50	140.03	-0.87	KOP: 12°/100' @ 10473.06' MD
10,973.06	10,882.99	-84.16	-82.91	Build: 12°/100'
11,269.02	10,960.40	-361.41	-127.19	LP/Hold: 89.64° Inc, 179.54° Azm
16,007.95	10,990.00	-5,100.10	-89.00	PBHL

Marshall & Winston, Inc.

**Lea County, NM (NAD83 NME)
Loco Dinero 36 State Com 3U #9H
3U #9H**

Planning

Plan: Lateral 1r0

Standard Planning Report - Geographic

21 January, 2022

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

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	Loco Dinero 36 State Com 3U #9H				
Site Position:		Northing:	525,495.40 usft	Latitude:	32° 26' 31.488 N
From:	Map	Easting:	789,645.50 usft	Longitude:	103° 31' 42.364 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	3U #9H					
Well Position	+N/-S	0.00 usft	Northing:	525,495.40 usft	Latitude:	32° 26' 31.488 N
	+E/-W	0.00 usft	Easting:	789,645.50 usft	Longitude:	103° 31' 42.364 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,657.90 usft

Wellbore	Planning				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	4/1/2022	6.33	60.14	47,793.597

Design	Lateral 1r0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	181.00

Plan Survey Tool Program	Date	1/21/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,007.95 Lateral 1r0 (Planning)	MWD+HDGM	
			OWSG MWD + HDGM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	
5,963.00	0.00	0.00	5,963.00	0.00	0.00	0.000	0.000	0.000	0.00	
6,113.00	3.00	359.64	6,112.93	3.93	-0.02	2.000	2.000	0.000	359.64	
8,563.56	3.00	359.64	8,560.13	132.18	-0.82	0.000	0.000	0.000	0.00	
8,863.56	0.00	0.00	8,860.00	140.03	-0.87	1.000	-1.000	0.000	180.00	
10,473.06	0.00	0.00	10,469.50	140.03	-0.87	0.000	0.000	0.000	0.00	
10,973.06	60.00	200.10	10,883.00	-84.16	-82.91	12.000	12.000	0.000	200.10	
11,269.02	89.64	179.54	10,960.40	-361.42	-127.19	12.000	10.016	-6.947	-37.20	
16,007.95	89.64	179.54	10,990.00	-5,100.10	-89.00	0.000	0.000	0.000	0.00	PBHL - LD 36 ST#9

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
100.00	0.00	0.00	100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
200.00	0.00	0.00	200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
300.00	0.00	0.00	300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
400.00	0.00	0.00	400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
500.00	0.00	0.00	500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
600.00	0.00	0.00	600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
700.00	0.00	0.00	700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
800.00	0.00	0.00	800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
900.00	0.00	0.00	900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,600.00	0.00	0.00	4,600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,700.00	0.00	0.00	4,700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,800.00	0.00	0.00	4,800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
4,900.00	0.00	0.00	4,900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,300.00	0.00	0.00	5,300.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
5,963.00	0.00	0.00	5,963.00	0.00	0.00	525,495.40	789,645.50	32° 26' 31.488 N	103° 31' 42.364 W	
Build: 2°/100'										
6,000.00	0.74	359.64	6,000.00	0.24	0.00	525,495.64	789,645.50	32° 26' 31.490 N	103° 31' 42.364 W	
6,100.00	2.74	359.64	6,099.95	3.28	-0.02	525,498.68	789,645.48	32° 26' 31.520 N	103° 31' 42.363 W	
6,113.00	3.00	359.64	6,112.93	3.93	-0.02	525,499.33	789,645.47	32° 26' 31.527 N	103° 31' 42.363 W	
Hold: 3.00° Inc										
6,200.00	3.00	359.64	6,199.81	8.48	-0.05	525,503.88	789,645.44	32° 26' 31.572 N	103° 31' 42.363 W	
6,300.00	3.00	359.64	6,299.68	13.71	-0.09	525,509.11	789,645.41	32° 26' 31.624 N	103° 31' 42.363 W	
6,400.00	3.00	359.64	6,399.54	18.95	-0.12	525,514.35	789,645.38	32° 26' 31.675 N	103° 31' 42.363 W	
6,500.00	3.00	359.64	6,499.40	24.18	-0.15	525,519.58	789,645.35	32° 26' 31.727 N	103° 31' 42.363 W	
6,600.00	3.00	359.64	6,599.26	29.41	-0.18	525,524.82	789,645.31	32° 26' 31.779 N	103° 31' 42.363 W	
6,700.00	3.00	359.64	6,699.13	34.65	-0.22	525,530.05	789,645.28	32° 26' 31.831 N	103° 31' 42.363 W	
6,800.00	3.00	359.64	6,798.99	39.88	-0.25	525,535.28	789,645.25	32° 26' 31.882 N	103° 31' 42.363 W	
6,900.00	3.00	359.64	6,898.85	45.11	-0.28	525,540.52	789,645.22	32° 26' 31.934 N	103° 31' 42.363 W	
7,000.00	3.00	359.64	6,998.72	50.35	-0.31	525,545.75	789,645.18	32° 26' 31.986 N	103° 31' 42.363 W	
7,100.00	3.00	359.64	7,098.58	55.58	-0.35	525,550.98	789,645.15	32° 26' 32.038 N	103° 31' 42.363 W	
7,200.00	3.00	359.64	7,198.44	60.81	-0.38	525,556.22	789,645.12	32° 26' 32.090 N	103° 31' 42.363 W	
7,300.00	3.00	359.64	7,298.30	66.05	-0.41	525,561.45	789,645.09	32° 26' 32.141 N	103° 31' 42.362 W	
7,400.00	3.00	359.64	7,398.17	71.28	-0.44	525,566.68	789,645.05	32° 26' 32.193 N	103° 31' 42.362 W	
7,500.00	3.00	359.64	7,498.03	76.52	-0.48	525,571.92	789,645.02	32° 26' 32.245 N	103° 31' 42.362 W	
7,600.00	3.00	359.64	7,597.89	81.75	-0.51	525,577.15	789,644.99	32° 26' 32.297 N	103° 31' 42.362 W	
7,700.00	3.00	359.64	7,697.76	86.98	-0.54	525,582.38	789,644.96	32° 26' 32.349 N	103° 31' 42.362 W	
7,800.00	3.00	359.64	7,797.62	92.22	-0.57	525,587.62	789,644.92	32° 26' 32.400 N	103° 31' 42.362 W	
7,900.00	3.00	359.64	7,897.48	97.45	-0.61	525,592.85	789,644.89	32° 26' 32.452 N	103° 31' 42.362 W	
8,000.00	3.00	359.64	7,997.35	102.68	-0.64	525,598.09	789,644.86	32° 26' 32.504 N	103° 31' 42.362 W	
8,100.00	3.00	359.64	8,097.21	107.92	-0.67	525,603.32	789,644.83	32° 26' 32.556 N	103° 31' 42.362 W	
8,200.00	3.00	359.64	8,197.07	113.15	-0.70	525,608.55	789,644.79	32° 26' 32.608 N	103° 31' 42.362 W	
8,300.00	3.00	359.64	8,296.93	118.38	-0.74	525,613.79	789,644.76	32° 26' 32.659 N	103° 31' 42.362 W	
8,400.00	3.00	359.64	8,396.80	123.62	-0.77	525,619.02	789,644.73	32° 26' 32.711 N	103° 31' 42.362 W	
8,500.00	3.00	359.64	8,496.66	128.85	-0.80	525,624.25	789,644.70	32° 26' 32.763 N	103° 31' 42.362 W	
8,563.56	3.00	359.64	8,560.13	132.18	-0.82	525,627.58	789,644.68	32° 26' 32.796 N	103° 31' 42.361 W	
Drop: 1°/100'										
8,600.00	2.64	359.64	8,596.53	133.97	-0.83	525,629.37	789,644.67	32° 26' 32.814 N	103° 31' 42.361 W	
8,700.00	1.64	359.64	8,696.46	137.70	-0.86	525,633.10	789,644.64	32° 26' 32.850 N	103° 31' 42.361 W	
8,800.00	0.64	359.64	8,796.44	139.68	-0.87	525,635.08	789,644.63	32° 26' 32.870 N	103° 31' 42.361 W	
8,863.56	0.00	0.00	8,860.00	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
Hold										
8,900.00	0.00	0.00	8,896.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,000.00	0.00	0.00	8,996.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,100.00	0.00	0.00	9,096.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,200.00	0.00	0.00	9,196.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,300.00	0.00	0.00	9,296.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,400.00	0.00	0.00	9,396.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,500.00	0.00	0.00	9,496.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,600.00	0.00	0.00	9,596.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,700.00	0.00	0.00	9,696.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,800.00	0.00	0.00	9,796.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
9,900.00	0.00	0.00	9,896.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,000.00	0.00	0.00	9,996.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,100.00	0.00	0.00	10,096.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,200.00	0.00	0.00	10,196.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,300.00	0.00	0.00	10,296.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,400.00	0.00	0.00	10,396.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,473.06	0.00	0.00	10,469.50	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
KOP: 12°/100' @ 10473.06' MD										
10,475.00	0.23	200.10	10,471.44	140.03	-0.87	525,635.43	789,644.63	32° 26' 32.873 N	103° 31' 42.361 W	
10,500.00	3.23	200.10	10,496.42	139.32	-1.13	525,634.72	789,644.37	32° 26' 32.866 N	103° 31' 42.364 W	
10,525.00	6.23	200.10	10,521.33	137.38	-1.84	525,632.78	789,643.66	32° 26' 32.847 N	103° 31' 42.373 W	
10,550.00	9.23	200.10	10,546.10	134.22	-3.00	525,629.62	789,642.50	32° 26' 32.816 N	103° 31' 42.387 W	
10,575.00	12.23	200.10	10,570.66	129.85	-4.60	525,625.25	789,640.90	32° 26' 32.773 N	103° 31' 42.406 W	
10,600.00	15.23	200.10	10,594.95	124.28	-6.63	525,619.68	789,638.86	32° 26' 32.718 N	103° 31' 42.430 W	
10,625.00	18.23	200.10	10,618.88	117.52	-9.11	525,612.92	789,636.39	32° 26' 32.651 N	103° 31' 42.459 W	
10,650.00	21.23	200.10	10,642.41	109.59	-12.01	525,605.00	789,633.49	32° 26' 32.573 N	103° 31' 42.494 W	
10,675.00	24.23	200.10	10,665.47	100.52	-15.33	525,595.92	789,630.17	32° 26' 32.484 N	103° 31' 42.534 W	
10,700.00	27.23	200.10	10,687.99	90.33	-19.06	525,585.73	789,626.44	32° 26' 32.383 N	103° 31' 42.578 W	
10,725.00	30.23	200.10	10,709.91	79.05	-23.19	525,574.45	789,622.31	32° 26' 32.272 N	103° 31' 42.627 W	
10,750.00	33.23	200.10	10,731.17	66.70	-27.71	525,562.10	789,617.79	32° 26' 32.150 N	103° 31' 42.681 W	
10,775.00	36.23	200.10	10,751.71	53.32	-32.60	525,548.73	789,612.90	32° 26' 32.018 N	103° 31' 42.739 W	
10,800.00	39.23	200.10	10,771.48	38.96	-37.86	525,534.36	789,607.64	32° 26' 31.876 N	103° 31' 42.802 W	
10,825.00	42.23	200.10	10,790.42	23.64	-43.46	525,519.04	789,602.04	32° 26' 31.725 N	103° 31' 42.869 W	
10,850.00	45.23	200.10	10,808.48	7.41	-49.40	525,502.81	789,596.10	32° 26' 31.565 N	103° 31' 42.939 W	
10,875.00	48.23	200.10	10,825.62	-9.68	-55.66	525,485.72	789,589.84	32° 26' 31.396 N	103° 31' 43.014 W	
10,900.00	51.23	200.10	10,841.78	-27.59	-62.21	525,467.81	789,583.29	32° 26' 31.219 N	103° 31' 43.092 W	
10,925.00	54.23	200.10	10,856.91	-46.27	-69.05	525,449.13	789,576.45	32° 26' 31.035 N	103° 31' 43.173 W	
10,950.00	57.23	200.10	10,870.99	-65.67	-76.15	525,429.73	789,569.35	32° 26' 30.844 N	103° 31' 43.258 W	
10,973.06	60.00	200.10	10,882.99	-84.16	-82.91	525,411.24	789,562.59	32° 26' 30.661 N	103° 31' 43.338 W	
Build: 12°/100'										
10,975.00	60.19	199.94	10,883.96	-85.74	-83.49	525,409.66	789,562.01	32° 26' 30.646 N	103° 31' 43.345 W	
11,000.00	62.59	197.90	10,895.93	-106.50	-90.60	525,388.90	789,554.90	32° 26' 30.441 N	103° 31' 43.430 W	
11,025.00	65.03	195.95	10,906.97	-127.96	-97.12	525,367.44	789,548.37	32° 26' 30.229 N	103° 31' 43.508 W	
11,050.00	67.49	194.07	10,917.03	-150.06	-103.05	525,345.34	789,542.45	32° 26' 30.011 N	103° 31' 43.579 W	
11,075.00	69.97	192.26	10,926.10	-172.74	-108.35	525,322.66	789,537.15	32° 26' 29.787 N	103° 31' 43.643 W	
11,100.00	72.47	190.51	10,934.15	-195.94	-113.02	525,299.46	789,532.48	32° 26' 29.557 N	103° 31' 43.700 W	
11,125.00	74.99	188.81	10,941.15	-219.60	-117.04	525,275.80	789,528.45	32° 26' 29.324 N	103° 31' 43.749 W	
11,150.00	77.51	187.14	10,947.10	-243.65	-120.41	525,251.76	789,525.09	32° 26' 29.086 N	103° 31' 43.790 W	
11,175.00	80.05	185.51	10,951.96	-268.02	-123.11	525,227.39	789,522.39	32° 26' 28.845 N	103° 31' 43.824 W	
11,200.00	82.59	183.90	10,955.73	-292.64	-125.13	525,202.76	789,520.36	32° 26' 28.602 N	103° 31' 43.849 W	
11,225.00	85.14	182.31	10,958.40	-317.46	-126.48	525,177.94	789,519.02	32° 26' 28.356 N	103° 31' 43.867 W	
11,250.00	87.70	180.73	10,959.96	-342.40	-127.14	525,153.00	789,518.35	32° 26' 28.109 N	103° 31' 43.877 W	
11,269.02	89.64	179.54	10,960.40	-361.41	-127.19	525,133.99	789,518.31	32° 26' 27.921 N	103° 31' 43.879 W	
LP/Hold: 89.64° Inc, 179.54° Azm										
11,300.00	89.64	179.54	10,960.60	-392.39	-126.94	525,103.01	789,518.56	32° 26' 27.615 N	103° 31' 43.879 W	
11,400.00	89.64	179.54	10,961.22	-492.39	-126.13	525,003.01	789,519.36	32° 26' 26.625 N	103° 31' 43.879 W	
11,500.00	89.64	179.54	10,961.85	-592.38	-125.33	524,903.02	789,520.17	32° 26' 25.636 N	103° 31' 43.878 W	
11,600.00	89.64	179.54	10,962.47	-692.38	-124.52	524,803.02	789,520.98	32° 26' 24.646 N	103° 31' 43.877 W	
11,700.00	89.64	179.54	10,963.10	-792.37	-123.72	524,703.03	789,521.78	32° 26' 23.657 N	103° 31' 43.877 W	
11,800.00	89.64	179.54	10,963.72	-892.37	-122.91	524,603.03	789,522.59	32° 26' 22.667 N	103° 31' 43.876 W	
11,900.00	89.64	179.54	10,964.35	-992.36	-122.10	524,503.04	789,523.39	32° 26' 21.678 N	103° 31' 43.876 W	
12,000.00	89.64	179.54	10,964.97	-1,092.36	-121.30	524,403.05	789,524.20	32° 26' 20.688 N	103° 31' 43.875 W	
12,100.00	89.64	179.54	10,965.59	-1,192.35	-120.49	524,303.05	789,525.01	32° 26' 19.699 N	103° 31' 43.874 W	
12,200.00	89.64	179.54	10,966.22	-1,292.35	-119.69	524,203.06	789,525.81	32° 26' 18.709 N	103° 31' 43.874 W	
12,300.00	89.64	179.54	10,966.84	-1,392.34	-118.88	524,103.06	789,526.62	32° 26' 17.720 N	103° 31' 43.873 W	
12,400.00	89.64	179.54	10,967.47	-1,492.34	-118.07	524,003.07	789,527.42	32° 26' 16.730 N	103° 31' 43.872 W	

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,500.00	89.64	179.54	10,968.09	-1,592.33	-117.27	523,903.07	789,528.23	32° 26' 15.741 N	103° 31' 43.872 W	
12,600.00	89.64	179.54	10,968.72	-1,692.33	-116.46	523,803.08	789,529.03	32° 26' 14.751 N	103° 31' 43.871 W	
12,700.00	89.64	179.54	10,969.34	-1,792.32	-115.66	523,703.08	789,529.84	32° 26' 13.762 N	103° 31' 43.871 W	
12,800.00	89.64	179.54	10,969.97	-1,892.32	-114.85	523,603.09	789,530.65	32° 26' 12.772 N	103° 31' 43.870 W	
12,900.00	89.64	179.54	10,970.59	-1,992.31	-114.05	523,503.09	789,531.45	32° 26' 11.783 N	103° 31' 43.869 W	
13,000.00	89.64	179.54	10,971.21	-2,092.30	-113.24	523,403.10	789,532.26	32° 26' 10.793 N	103° 31' 43.869 W	
13,100.00	89.64	179.54	10,971.84	-2,192.30	-112.43	523,303.10	789,533.06	32° 26' 9.804 N	103° 31' 43.868 W	
13,200.00	89.64	179.54	10,972.46	-2,292.29	-111.63	523,203.11	789,533.87	32° 26' 8.814 N	103° 31' 43.868 W	
13,300.00	89.64	179.54	10,973.09	-2,392.29	-110.82	523,103.11	789,534.68	32° 26' 7.825 N	103° 31' 43.867 W	
13,400.00	89.64	179.54	10,973.71	-2,492.28	-110.02	523,003.12	789,535.48	32° 26' 6.836 N	103° 31' 43.866 W	
13,500.00	89.64	179.54	10,974.34	-2,592.28	-109.21	522,903.12	789,536.29	32° 26' 5.846 N	103° 31' 43.866 W	
13,600.00	89.64	179.54	10,974.96	-2,692.27	-108.40	522,803.13	789,537.09	32° 26' 4.857 N	103° 31' 43.865 W	
13,700.00	89.64	179.54	10,975.59	-2,792.27	-107.60	522,703.13	789,537.90	32° 26' 3.867 N	103° 31' 43.864 W	
13,800.00	89.64	179.54	10,976.21	-2,892.26	-106.79	522,603.14	789,538.71	32° 26' 2.878 N	103° 31' 43.864 W	
13,900.00	89.64	179.54	10,976.84	-2,992.26	-105.99	522,503.14	789,539.51	32° 26' 1.888 N	103° 31' 43.863 W	
14,000.00	89.64	179.54	10,977.46	-3,092.25	-105.18	522,403.15	789,540.32	32° 26' 0.899 N	103° 31' 43.863 W	
14,100.00	89.64	179.54	10,978.08	-3,192.25	-104.38	522,303.15	789,541.12	32° 25' 59.909 N	103° 31' 43.862 W	
14,200.00	89.64	179.54	10,978.71	-3,292.24	-103.57	522,203.16	789,541.93	32° 25' 58.920 N	103° 31' 43.861 W	
14,300.00	89.64	179.54	10,979.33	-3,392.24	-102.76	522,103.16	789,542.73	32° 25' 57.930 N	103° 31' 43.861 W	
14,400.00	89.64	179.54	10,979.96	-3,492.23	-101.96	522,003.17	789,543.54	32° 25' 56.941 N	103° 31' 43.860 W	
14,500.00	89.64	179.54	10,980.58	-3,592.23	-101.15	521,903.17	789,544.35	32° 25' 55.951 N	103° 31' 43.860 W	
14,600.00	89.64	179.54	10,981.21	-3,692.22	-100.35	521,803.18	789,545.15	32° 25' 54.962 N	103° 31' 43.859 W	
14,700.00	89.64	179.54	10,981.83	-3,792.22	-99.54	521,703.19	789,545.96	32° 25' 53.972 N	103° 31' 43.858 W	
14,800.00	89.64	179.54	10,982.46	-3,892.21	-98.73	521,603.19	789,546.76	32° 25' 52.983 N	103° 31' 43.858 W	
14,900.00	89.64	179.54	10,983.08	-3,992.21	-97.93	521,503.20	789,547.57	32° 25' 51.993 N	103° 31' 43.857 W	
15,000.00	89.64	179.54	10,983.71	-4,092.20	-97.12	521,403.20	789,548.38	32° 25' 51.004 N	103° 31' 43.856 W	
15,100.00	89.64	179.54	10,984.33	-4,192.20	-96.32	521,303.21	789,549.18	32° 25' 50.014 N	103° 31' 43.856 W	
15,200.00	89.64	179.54	10,984.95	-4,292.19	-95.51	521,203.21	789,549.99	32° 25' 49.025 N	103° 31' 43.855 W	
15,300.00	89.64	179.54	10,985.58	-4,392.19	-94.70	521,103.22	789,550.79	32° 25' 48.035 N	103° 31' 43.855 W	
15,400.00	89.64	179.54	10,986.20	-4,492.18	-93.90	521,003.22	789,551.60	32° 25' 47.046 N	103° 31' 43.854 W	
15,500.00	89.64	179.54	10,986.83	-4,592.17	-93.09	520,903.23	789,552.40	32° 25' 46.056 N	103° 31' 43.853 W	
15,600.00	89.64	179.54	10,987.45	-4,692.17	-92.29	520,803.23	789,553.21	32° 25' 45.067 N	103° 31' 43.853 W	
15,700.00	89.64	179.54	10,988.08	-4,792.16	-91.48	520,703.24	789,554.02	32° 25' 44.077 N	103° 31' 43.852 W	
15,800.00	89.64	179.54	10,988.70	-4,892.16	-90.68	520,603.24	789,554.82	32° 25' 43.088 N	103° 31' 43.851 W	
15,900.00	89.64	179.54	10,989.33	-4,992.15	-89.87	520,503.25	789,555.63	32° 25' 42.098 N	103° 31' 43.851 W	
16,007.95	89.64	179.54	10,990.00	-5,100.10	-89.00	520,395.30	789,556.50	32° 25' 41.030 N	103° 31' 43.850 W	
PBHL										

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
FTP - LD 36 ST#9H	0.00	0.00	10,960.00	-266.80	-128.00	525,228.60	789,517.50		32° 26' 28.857 N	103° 31' 43.881 W
- plan misses target center by 9.47usft at 11175.41usft MD (10952.03 TVD, -268.42 N, -123.15 E)										
- Point										
LTP - LD 36 ST#9H	0.00	0.00	10,988.00	-5,020.10	-89.60	520,475.30	789,555.90		32° 25' 41.822 N	103° 31' 43.850 W
- plan misses target center by 27.98usft at 15900.00usft MD (10989.33 TVD, -4992.15 N, -89.87 E)										
- Point										
PBHL - LD 36 ST#9H	0.00	0.00	10,990.00	-5,100.10	-89.00	520,395.30	789,556.50		32° 25' 41.030 N	103° 31' 43.850 W
- plan hits target center										
- Point										

Aim Directional Services, LLC

Planning Report - Geographic

Database:	EDMRESTORED	Local Co-ordinate Reference:	Well 3U #9H
Company:	Marshall & Winston, Inc.	TVD Reference:	Well @ 3682.90usft (25'KB)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	Well @ 3682.90usft (25'KB)
Site:	Loco Dinero 36 State Com 3U #9H	North Reference:	Grid
Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Lateral 1r0		

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,825.00	1,825.00	Casing	10-3/4	10-3/4
5,863.00	5,863.00	Casing	9-5/8	9-5/8

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,963.00	5,963.00	0.00	0.00	Build: 2°/100'
6,113.00	6,112.93	3.93	-0.02	Hold: 3.00° Inc
8,563.56	8,560.13	132.18	-0.82	Drop: 1°/100'
8,863.56	8,860.00	140.03	-0.87	Hold
10,473.06	10,469.50	140.03	-0.87	KOP: 12°/100' @ 10473.06' MD
10,973.06	10,882.99	-84.16	-82.91	Build: 12°/100'
11,269.02	10,960.40	-361.41	-127.19	LP/Hold: 89.64° Inc, 179.54° Azm
16,007.95	10,990.00	-5,100.10	-89.00	PBHL

Marshall & Winston, Inc.

Lea County, NM (NAD83 NME)

Loco Dinero 36 State Com 3U #9H

3U #9H

Planning

Lateral 1r0

Anticollision Report

21 January, 2022

Aim Directional Services, LLC

Anticollision Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 3U #9H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3682.90usft (25'KB)
Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Reference	Lateral 1r0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	1/21/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,007.95	Lateral 1r0 (Planning)	MWD+HDGM	OWSG MWD + HDGM

Summary							
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
Offset Well - Wellbore - Design							
Loco Dinero 36 State Com 3U #6H							
3U #6H - Planning - Lateral 1r0	6,715.71	6,714.39	39.95	-7.73	0.838	Level 3, CC	
3U #6H - Planning - Lateral 1r0	10,500.00	10,497.42	40.19	-34.62	0.537	Level 3, ES, SF	

Offset Design:	Loco Dinero 36 State Com 3U #6H - 3U #6H - Planning - Lateral 1r0												Offset Site Error:	0.00 usft
Survey Program:	0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Highside Toolface	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum Separation	Separation Factor	Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
0.00	0.00	0.00	0.00	0.00	0.00	89.57	0.30	40.00	40.01					
100.00	100.00	99.10	99.10	0.13	0.13	89.57	0.30	40.00	40.00	39.73	0.27	149.456		
200.00	200.00	199.10	199.10	0.49	0.49	89.57	0.30	40.00	40.00	39.02	0.98	40.711		
300.00	300.00	299.10	299.10	0.85	0.85	89.57	0.30	40.00	40.00	38.30	1.70	23.537		
400.00	400.00	399.10	399.10	1.21	1.21	89.57	0.30	40.00	40.00	37.58	2.42	16.554		
500.00	500.00	499.10	499.10	1.57	1.57	89.57	0.30	40.00	40.00	36.87	3.13	12.766		
600.00	600.00	599.10	599.10	1.93	1.92	89.57	0.30	40.00	40.00	36.15	3.85	10.389		
700.00	700.00	699.10	699.10	2.29	2.28	89.57	0.30	40.00	40.00	35.43	4.57	8.758		
800.00	800.00	799.10	799.10	2.64	2.64	89.57	0.30	40.00	40.00	34.72	5.28	7.570		
900.00	900.00	899.10	899.10	3.00	3.00	89.57	0.30	40.00	40.00	34.00	6.00	6.666		
1,000.00	1,000.00	999.10	999.10	3.36	3.36	89.57	0.30	40.00	40.00	33.28	6.72	5.954		
1,100.00	1,100.00	1,099.10	1,099.10	3.72	3.72	89.57	0.30	40.00	40.00	32.57	7.44	5.380		
1,200.00	1,200.00	1,199.10	1,199.10	4.08	4.07	89.57	0.30	40.00	40.00	31.85	8.15	4.907		
1,300.00	1,300.00	1,299.10	1,299.10	4.44	4.43	89.57	0.30	40.00	40.00	31.13	8.87	4.510		
1,400.00	1,400.00	1,399.10	1,399.10	4.79	4.79	89.57	0.30	40.00	40.00	30.42	9.59	4.173		
1,500.00	1,500.00	1,499.10	1,499.10	5.15	5.15	89.57	0.30	40.00	40.00	29.70	10.30	3.883		
1,600.00	1,600.00	1,599.10	1,599.10	5.51	5.51	89.57	0.30	40.00	40.00	28.98	11.02	3.630		
1,700.00	1,700.00	1,699.10	1,699.10	5.87	5.87	89.57	0.30	40.00	40.00	28.26	11.74	3.408		
1,800.00	1,800.00	1,799.10	1,799.10	6.23	6.23	89.57	0.30	40.00	40.00	27.55	12.45	3.212		
1,900.00	1,900.00	1,899.10	1,899.10	6.59	6.58	89.57	0.30	40.00	40.00	26.83	13.17	3.037		
2,000.00	2,000.00	1,999.10	1,999.10	6.95	6.94	89.57	0.30	40.00	40.00	26.11	13.89	2.880		
2,100.00	2,100.00	2,099.10	2,099.10	7.30	7.30	89.57	0.30	40.00	40.00	25.40	14.60	2.739		
2,200.00	2,200.00	2,199.10	2,199.10	7.66	7.66	89.57	0.30	40.00	40.00	24.68	15.32	2.611		
2,300.00	2,300.00	2,299.10	2,299.10	8.02	8.02	89.57	0.30	40.00	40.00	23.96	16.04	2.494		
2,400.00	2,400.00	2,399.10	2,399.10	8.38	8.38	89.57	0.30	40.00	40.00	23.25	16.76	2.387		

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

Aim Directional Services, LLC

Anticollision Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 3U #9H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3682.90usft (25'KB)
Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Offset Design: Loco Dinero 36 State Com 3U #6H - 3U #6H - Planning - Lateral 1r0													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.00	2,500.00	2,499.10	2,499.10	8.74	8.73	89.57	0.30	40.00	40.00	22.53	17.47	2.289	
2,600.00	2,600.00	2,599.10	2,599.10	9.10	9.09	89.57	0.30	40.00	40.00	21.81	18.19	2.199	
2,700.00	2,700.00	2,699.10	2,699.10	9.45	9.45	89.57	0.30	40.00	40.00	21.09	18.91	2.116	
2,800.00	2,800.00	2,799.10	2,799.10	9.81	9.81	89.57	0.30	40.00	40.00	20.38	19.62	2.038	
2,900.00	2,900.00	2,899.10	2,899.10	10.17	10.17	89.57	0.30	40.00	40.00	19.66	20.34	1.967	
3,000.00	3,000.00	2,999.10	2,999.10	10.53	10.53	89.57	0.30	40.00	40.00	18.94	21.06	1.900	
3,100.00	3,100.00	3,099.10	3,099.10	10.89	10.89	89.57	0.30	40.00	40.00	18.23	21.77	1.837	
3,200.00	3,200.00	3,199.10	3,199.10	11.25	11.24	89.57	0.30	40.00	40.00	17.51	22.49	1.779	
3,300.00	3,300.00	3,299.10	3,299.10	11.61	11.60	89.57	0.30	40.00	40.00	16.79	23.21	1.724	
3,400.00	3,400.00	3,399.10	3,399.10	11.96	11.96	89.57	0.30	40.00	40.00	16.08	23.92	1.672	
3,500.00	3,500.00	3,499.10	3,499.10	12.32	12.32	89.57	0.30	40.00	40.00	15.36	24.64	1.623	
3,600.00	3,600.00	3,599.10	3,599.10	12.68	12.68	89.57	0.30	40.00	40.00	14.64	25.36	1.577	
3,700.00	3,700.00	3,699.10	3,699.10	13.04	13.04	89.57	0.30	40.00	40.00	13.93	26.08	1.534	
3,800.00	3,800.00	3,799.10	3,799.10	13.40	13.39	89.57	0.30	40.00	40.00	13.21	26.79	1.493 Level 3	
3,900.00	3,900.00	3,899.10	3,899.10	13.76	13.75	89.57	0.30	40.00	40.00	12.49	27.51	1.454 Level 3	
4,000.00	4,000.00	3,999.10	3,999.10	14.11	14.11	89.57	0.30	40.00	40.00	11.77	28.23	1.417 Level 3	
4,100.00	4,100.00	4,099.10	4,099.10	14.47	14.47	89.57	0.30	40.00	40.00	11.06	28.94	1.382 Level 3	
4,200.00	4,200.00	4,199.10	4,199.10	14.83	14.83	89.57	0.30	40.00	40.00	10.34	29.66	1.349 Level 3	
4,300.00	4,300.00	4,299.10	4,299.10	15.19	15.19	89.57	0.30	40.00	40.00	9.62	30.38	1.317 Level 3	
4,400.00	4,400.00	4,399.10	4,399.10	15.55	15.55	89.57	0.30	40.00	40.00	8.91	31.09	1.286 Level 3	
4,500.00	4,500.00	4,499.10	4,499.10	15.91	15.90	89.57	0.30	40.00	40.00	8.19	31.81	1.257 Level 3	
4,600.00	4,600.00	4,599.10	4,599.10	16.27	16.26	89.57	0.30	40.00	40.00	7.47	32.53	1.230 Level 3	
4,700.00	4,700.00	4,699.10	4,699.10	16.62	16.62	89.57	0.30	40.00	40.00	6.76	33.25	1.203 Level 3	
4,800.00	4,800.00	4,799.10	4,799.10	16.98	16.98	89.57	0.30	40.00	40.00	6.04	33.96	1.178 Level 3	
4,900.00	4,900.00	4,899.10	4,899.10	17.34	17.34	89.57	0.30	40.00	40.00	5.32	34.68	1.153 Level 3	
5,000.00	5,000.00	4,999.10	4,999.10	17.70	17.70	89.57	0.30	40.00	40.00	4.61	35.40	1.130 Level 3	
5,100.00	5,100.00	5,099.10	5,099.10	18.06	18.05	89.57	0.30	40.00	40.00	3.89	36.11	1.108 Level 3	
5,200.00	5,200.00	5,199.10	5,199.10	18.42	18.41	89.57	0.30	40.00	40.00	3.17	36.83	1.086 Level 3	
5,300.00	5,300.00	5,299.10	5,299.10	18.77	18.77	89.57	0.30	40.00	40.00	2.45	37.55	1.065 Level 3	
5,356.65	5,356.65	5,355.75	5,355.75	18.98	18.97	89.56	0.31	40.00	40.00	2.05	37.95	1.054 Level 3	
5,400.00	5,400.00	5,399.10	5,399.09	19.13	19.13	88.97	0.72	40.00	40.00	1.74	38.26	1.045 Level 3	
5,500.00	5,500.00	5,499.06	5,499.02	19.49	19.49	85.34	3.26	39.98	40.11	1.13	38.98	1.029 Level 3	
5,600.00	5,600.00	5,599.02	5,598.95	19.85	19.85	81.57	5.92	39.96	40.39	0.70	39.70	1.018 Level 3	
5,700.00	5,700.00	5,698.99	5,698.88	20.21	20.20	77.87	8.59	39.94	40.85	0.44	40.41	1.011 Level 3	
5,800.00	5,800.00	5,798.95	5,798.81	20.57	20.56	74.26	11.25	39.92	41.47	0.35	41.13	1.008 Level 3	
5,900.00	5,900.00	5,898.91	5,898.74	20.93	20.92	70.77	13.92	39.90	42.26	0.41	41.84	1.010 Level 3	
6,000.00	6,000.00	5,998.88	5,998.67	21.28	21.28	68.07	16.58	39.88	43.10	0.54	42.56	1.013 Level 3	
6,100.00	6,099.95	6,098.88	6,098.63	21.64	21.64	68.52	19.25	39.86	42.96	-0.32	43.27	0.993 Level 3	
6,200.00	6,199.81	6,198.85	6,198.56	22.00	22.00	71.74	21.91	39.83	42.09	-1.90	43.99	0.957 Level 3	
6,300.00	6,299.68	6,298.81	6,298.49	22.36	22.35	75.12	24.58	39.81	41.35	-3.35	44.70	0.925 Level 3	
6,400.00	6,399.54	6,398.78	6,398.43	22.72	22.71	78.61	27.24	39.79	40.77	-4.65	45.42	0.898 Level 3	
6,500.00	6,499.40	6,498.75	6,498.36	23.07	23.07	82.19	29.91	39.77	40.33	-5.80	46.13	0.874 Level 3	
6,600.00	6,599.26	6,598.71	6,598.29	23.43	23.43	85.83	32.57	39.75	40.06	-6.79	46.85	0.855 Level 3	
6,700.00	6,699.13	6,698.68	6,698.22	23.79	23.79	89.51	35.24	39.73	39.95	-7.61	47.57	0.840 Level 3	
6,715.71	6,714.82	6,714.39	6,713.92	23.85	23.84	90.09	35.66	39.73	39.95	-7.73	47.68	0.838 Level 3, CC	
6,800.00	6,798.99	6,798.65	6,798.15	24.15	24.15	93.19	37.90	39.71	40.01	-8.27	48.28	0.829 Level 3	
6,900.00	6,898.85	6,898.61	6,898.08	24.51	24.50	96.84	40.57	39.69	40.23	-8.77	49.00	0.821 Level 3	
7,000.00	6,998.72	6,998.58	6,998.01	24.86	24.86	100.44	43.24	39.67	40.61	-9.10	49.71	0.817 Level 3	
7,100.00	7,098.58	7,098.55	7,097.95	25.22	25.22	103.96	45.90	39.65	41.15	-9.28	50.43	0.816 Level 3	
7,200.00	7,198.44	7,198.52	7,197.88	25.58	25.58	107.38	48.57	39.63	41.84	-9.30	51.15	0.818 Level 3	
7,300.00	7,298.30	7,298.48	7,297.81	25.94	25.94	110.67	51.23	39.61	42.68	-9.18	51.86	0.823 Level 3	
7,400.00	7,398.17	7,398.45	7,397.74	26.30	26.30	113.83	53.90	39.59	43.65	-8.93	52.58	0.830 Level 3	

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

Aim Directional Services, LLC

Anticollision Report

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Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Offset Design: Loco Dinero 36 State Com 3U #6H - 3U #6H - Planning - Lateral 1r0													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,498.03	7,498.42	7,497.67	26.66	26.65	116.84	56.56	39.57	44.74	-8.55	53.30	0.840	Level 3
7,600.00	7,597.89	7,598.38	7,597.60	27.01	27.01	119.70	59.23	39.55	45.96	-8.06	54.01	0.851	Level 3
7,700.00	7,697.76	7,698.35	7,697.53	27.37	27.37	122.41	61.89	39.53	47.28	-7.45	54.73	0.864	Level 3
7,800.00	7,797.62	7,798.32	7,797.47	27.73	27.73	124.96	64.56	39.51	48.70	-6.74	55.45	0.878	Level 3
7,900.00	7,897.48	7,898.28	7,897.40	28.09	28.09	127.37	67.22	39.49	50.22	-5.95	56.17	0.894	Level 3
8,000.00	7,997.35	7,998.25	7,997.33	28.45	28.45	129.63	69.89	39.47	51.82	-5.07	56.88	0.911	Level 3
8,100.00	8,097.21	8,098.22	8,097.26	28.81	28.81	131.75	72.55	39.45	53.49	-4.11	57.60	0.929	Level 3
8,200.00	8,197.07	8,198.19	8,197.19	29.17	29.16	133.74	75.22	39.43	55.23	-3.09	58.32	0.947	Level 3
8,300.00	8,296.93	8,298.15	8,297.12	29.53	29.52	135.61	77.88	39.41	57.03	-2.00	59.04	0.966	Level 3
8,400.00	8,396.80	8,398.12	8,397.05	29.89	29.88	137.36	80.55	39.39	58.90	-0.86	59.76	0.986	Level 3
8,500.00	8,496.66	8,498.09	8,496.99	30.25	30.24	139.00	83.21	39.37	60.81	0.33	60.47	1.006	Level 3
8,600.00	8,596.53	8,598.06	8,596.92	30.61	30.60	140.48	85.88	39.35	62.68	1.49	61.19	1.024	Level 3
8,700.00	8,696.46	8,698.05	8,696.88	30.97	30.96	141.10	88.55	39.33	63.50	1.59	61.91	1.026	Level 3
8,800.00	8,796.44	8,798.05	8,796.84	31.33	31.32	140.71	91.21	39.31	62.96	0.34	62.63	1.005	Level 3
8,900.00	8,896.44	8,898.02	8,896.78	31.68	31.67	138.98	93.88	39.28	61.19	-2.16	63.34	0.966	Level 3
9,000.00	8,996.44	8,997.98	8,996.70	32.04	32.03	137.30	96.54	39.26	59.19	-4.87	64.06	0.924	Level 3
9,100.00	9,096.44	9,097.95	9,096.63	32.40	32.39	135.50	99.21	39.24	57.24	-7.53	64.78	0.884	Level 3
9,200.00	9,196.44	9,197.91	9,196.56	32.76	32.75	133.58	101.87	39.22	55.36	-10.14	65.49	0.845	Level 3
9,300.00	9,296.44	9,297.88	9,296.49	33.12	33.11	131.53	104.54	39.20	53.54	-12.67	66.21	0.809	Level 3
9,400.00	9,396.44	9,397.84	9,396.42	33.47	33.47	129.34	107.20	39.18	51.79	-15.13	66.93	0.774	Level 3
9,500.00	9,496.44	9,497.81	9,496.35	33.83	33.83	127.00	109.87	39.16	50.13	-17.51	67.64	0.741	Level 3
9,600.00	9,596.44	9,597.77	9,596.28	34.19	34.18	124.50	112.53	39.14	48.55	-19.81	68.36	0.710	Level 3
9,700.00	9,696.44	9,697.73	9,696.21	34.55	34.54	121.84	115.20	39.12	47.08	-22.00	69.08	0.682	Level 3
9,800.00	9,796.44	9,797.70	9,796.14	34.91	34.90	119.01	117.86	39.10	45.71	-24.08	69.79	0.655	Level 3
9,900.00	9,896.44	9,897.66	9,896.06	35.26	35.26	116.02	120.53	39.08	44.46	-26.05	70.51	0.631	Level 3
10,000.00	9,996.44	9,997.63	9,995.99	35.62	35.62	112.86	123.19	39.06	43.34	-27.89	71.23	0.608	Level 3
10,100.00	10,096.44	10,097.59	10,095.92	35.98	35.98	109.55	125.86	39.04	42.35	-29.59	71.94	0.589	Level 3
10,200.00	10,196.44	10,197.56	10,195.85	36.34	36.34	106.09	128.52	39.02	41.52	-31.14	72.66	0.571	Level 3
10,300.00	10,296.44	10,297.52	10,295.78	36.70	36.69	102.50	131.19	39.00	40.84	-32.54	73.38	0.557	Level 3
10,400.00	10,396.44	10,397.49	10,395.71	37.05	37.05	98.81	133.86	38.98	40.33	-33.77	74.10	0.544	Level 3
10,468.01	10,464.43	10,465.42	10,463.62	37.29	37.30	-105.64	135.67	38.97	40.41	-34.17	74.58	0.542	Level 3
10,500.00	10,496.42	10,497.42	10,495.60	37.40	37.41	-106.09	136.52	38.96	40.19	-34.62	74.80	0.537	Level 3, ES, SF
10,600.00	10,594.95	10,595.59	10,593.75	37.71	37.76	-126.98	139.04	38.94	47.91	-27.56	75.47	0.635	Level 3
10,700.00	10,687.99	10,688.72	10,686.86	38.00	38.10	-147.81	140.22	38.93	76.50	0.41	76.09	1.005	Level 3
10,800.00	10,771.48	10,772.43	10,770.58	38.25	38.40	-158.39	140.28	38.93	127.13	50.51	76.62	1.659	
10,900.00	10,841.78	10,857.35	10,855.44	38.49	38.69	-163.82	138.43	38.94	194.96	118.05	76.91	2.535	
11,000.00	10,895.93	10,976.89	10,971.97	38.71	39.05	-162.99	113.22	39.15	266.51	191.27	75.24	3.542	
11,100.00	10,934.15	11,149.08	11,120.71	38.93	39.49	-156.67	28.32	39.83	329.85	260.95	68.90	4.787	
11,200.00	10,955.73	11,415.51	11,267.64	39.13	40.05	-153.88	-189.77	41.58	369.09	312.47	56.62	6.519	
11,300.00	10,960.60	11,617.19	11,291.29	39.32	40.43	-152.84	-389.01	43.18	372.70	318.22	54.47	6.842	
11,400.00	10,961.22	11,717.19	11,291.90	39.54	40.66	-152.84	-489.00	43.98	372.68	317.89	54.80	6.801	
11,500.00	10,961.85	11,817.19	11,292.51	39.80	40.94	-152.84	-589.00	44.79	372.67	317.49	55.18	6.754	
11,600.00	10,962.47	11,917.19	11,293.12	40.12	41.27	-152.84	-688.99	45.59	372.65	317.02	55.63	6.699	
11,700.00	10,963.10	12,017.19	11,293.73	40.49	41.65	-152.84	-788.99	46.39	372.64	316.50	56.14	6.637	
11,800.00	10,963.72	12,117.19	11,294.34	40.91	42.07	-152.83	-888.98	47.19	372.63	315.91	56.72	6.570	
11,900.00	10,964.35	12,217.19	11,294.95	41.38	42.54	-152.83	-988.98	48.00	372.61	315.26	57.35	6.497	
12,000.00	10,964.97	12,317.19	11,295.56	41.89	43.06	-152.83	-1,088.97	48.80	372.60	314.56	58.04	6.420	
12,100.00	10,965.59	12,417.19	11,296.17	42.44	43.61	-152.83	-1,188.97	49.60	372.58	313.80	58.78	6.338	
12,200.00	10,966.22	12,517.19	11,296.77	43.04	44.21	-152.83	-1,288.96	50.41	372.57	312.98	59.58	6.253	
12,300.00	10,966.84	12,617.19	11,297.38	43.68	44.85	-152.83	-1,388.96	51.21	372.55	312.12	60.43	6.165	
12,400.00	10,967.47	12,717.19	11,297.99	44.35	45.52	-152.83	-1,488.95	52.01	372.54	311.21	61.33	6.075	
12,500.00	10,968.09	12,817.19	11,298.60	45.07	46.23	-152.83	-1,588.94	52.81	372.52	310.25	62.27	5.982	

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

Aim Directional Services, LLC

Anticollision Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 3U #9H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3682.90usft (25'KB)
Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Offset Design: Loco Dinero 36 State Com 3U #6H - 3U #6H - Planning - Lateral 1r0													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD+HDGM		Reference Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,600.00	10,968.72	12,917.19	11,299.21	45.82	46.98	-152.83	-1,688.94	53.62	372.51	309.25	63.26	5.889			
12,700.00	10,969.34	13,017.19	11,299.82	46.60	47.75	-152.83	-1,788.93	54.42	372.49	308.20	64.29	5.794			
12,800.00	10,969.97	13,117.19	11,300.43	47.41	48.56	-152.83	-1,888.93	55.22	372.48	307.12	65.36	5.699			
12,900.00	10,970.59	13,217.19	11,301.04	48.26	49.40	-152.83	-1,988.92	56.03	372.46	305.99	66.47	5.603			
13,000.00	10,971.21	13,317.19	11,301.65	49.13	50.26	-152.83	-2,088.92	56.83	372.45	304.83	67.62	5.508			
13,100.00	10,971.84	13,417.19	11,302.26	50.03	51.16	-152.83	-2,188.91	57.63	372.43	303.63	68.80	5.413			
13,200.00	10,972.46	13,517.19	11,302.87	50.95	52.07	-152.83	-2,288.91	58.43	372.42	302.40	70.02	5.319			
13,300.00	10,973.09	13,617.19	11,303.48	51.90	53.02	-152.82	-2,388.90	59.24	372.40	301.14	71.26	5.226			
13,400.00	10,973.71	13,717.19	11,304.09	52.88	53.98	-152.82	-2,488.90	60.04	372.39	299.85	72.54	5.134			
13,500.00	10,974.34	13,817.19	11,304.70	53.87	54.97	-152.82	-2,588.89	60.84	372.38	298.53	73.84	5.043			
13,600.00	10,974.96	13,917.19	11,305.31	54.89	55.97	-152.82	-2,688.89	61.65	372.36	297.19	75.17	4.953			
13,700.00	10,975.59	14,017.19	11,305.92	55.92	57.00	-152.82	-2,788.88	62.45	372.35	295.82	76.53	4.865			
13,800.00	10,976.21	14,117.19	11,306.53	56.97	58.04	-152.82	-2,888.88	63.25	372.33	294.42	77.91	4.779			
13,900.00	10,976.84	14,217.19	11,307.14	58.04	59.10	-152.82	-2,988.87	64.06	372.32	293.00	79.31	4.694			
14,000.00	10,977.46	14,317.19	11,307.75	59.13	60.18	-152.82	-3,088.87	64.86	372.30	291.57	80.74	4.611			
14,100.00	10,978.08	14,417.19	11,308.36	60.23	61.27	-152.82	-3,188.86	65.66	372.29	290.11	82.18	4.530			
14,200.00	10,978.71	14,517.19	11,308.97	61.35	62.38	-152.82	-3,288.86	66.46	372.27	288.63	83.65	4.451			
14,300.00	10,979.33	14,617.19	11,309.57	62.48	63.51	-152.82	-3,388.85	67.27	372.26	287.13	85.13	4.373			
14,400.00	10,979.96	14,717.19	11,310.18	63.62	64.64	-152.82	-3,488.85	68.07	372.24	285.61	86.63	4.297			
14,500.00	10,980.58	14,817.19	11,310.79	64.78	65.79	-152.82	-3,588.84	68.87	372.23	284.08	88.15	4.223			
14,600.00	10,981.21	14,917.19	11,311.40	65.95	66.95	-152.82	-3,688.84	69.68	372.21	282.53	89.68	4.150			
14,700.00	10,981.83	15,017.19	11,312.01	67.13	68.12	-152.82	-3,788.83	70.48	372.20	280.97	91.23	4.080			
14,800.00	10,982.46	15,117.19	11,312.62	68.31	69.30	-152.82	-3,888.83	71.28	372.18	279.39	92.79	4.011			
14,900.00	10,983.08	15,217.19	11,313.23	69.51	70.49	-152.81	-3,988.82	72.08	372.17	277.80	94.37	3.944			
15,000.00	10,983.71	15,317.19	11,313.84	70.72	71.70	-152.81	-4,088.82	72.89	372.16	276.20	95.95	3.878			
15,100.00	10,984.33	15,417.19	11,314.45	71.94	72.91	-152.81	-4,188.81	73.69	372.14	274.59	97.55	3.815			
15,200.00	10,984.95	15,517.19	11,315.06	73.17	74.13	-152.81	-4,288.81	74.49	372.13	272.96	99.17	3.753			
15,300.00	10,985.58	15,617.19	11,315.67	74.40	75.35	-152.81	-4,388.80	75.30	372.11	271.32	100.79	3.692			
15,400.00	10,986.20	15,717.19	11,316.28	75.65	76.59	-152.81	-4,488.80	76.10	372.10	269.67	102.42	3.633			
15,500.00	10,986.83	15,817.19	11,316.89	76.90	77.83	-152.81	-4,588.79	76.90	372.08	268.01	104.07	3.575			
15,600.00	10,987.45	15,917.19	11,317.50	78.16	79.08	-152.81	-4,688.79	77.70	372.07	266.35	105.72	3.519			
15,700.00	10,988.08	16,017.19	11,318.11	79.42	80.34	-152.81	-4,788.78	78.51	372.05	264.67	107.38	3.465			
15,800.00	10,988.70	16,117.19	11,318.72	80.69	81.61	-152.81	-4,888.78	79.31	372.04	262.98	109.06	3.411			
15,900.00	10,989.33	16,217.19	11,319.33	81.97	82.88	-152.81	-4,988.77	80.11	372.02	261.29	110.73	3.360			
16,000.00	10,989.95	16,317.19	11,319.94	83.25	84.12	-152.81	-5,088.77	80.92	372.01	259.63	112.38	3.310			
16,007.95	10,990.00	16,325.14	11,319.99	83.35	84.20	-152.81	-5,096.72	80.98	372.01	259.52	112.49	3.307			

Aim Directional Services, LLC

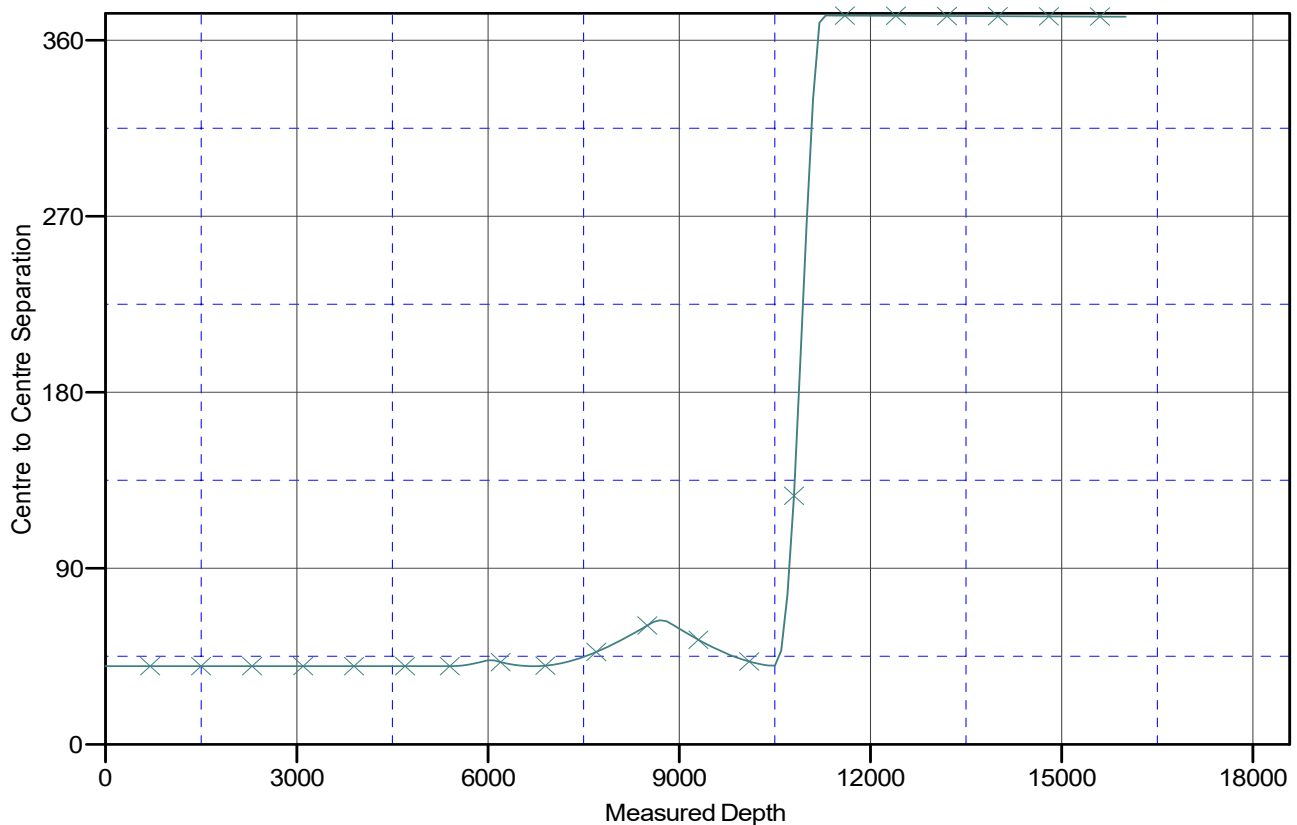
Anticollision Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 3U #9H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3682.90usft (25'KB)
Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3682.90usft (25'KB)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 3U #9H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.43°

Ladder Plot



LEGEND

—x— 3U #9H, Planning, Lateral 1r0 VO

Aim Directional Services, LLC

Anticollision Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 3U #9H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3682.90usft (25'KB)
Reference Site:	Loco Dinero 36 State Com 3U #9H	MD Reference:	Well @ 3682.90usft (25'KB)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	3U #9H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	EDMRESTORED
Reference Design:	Lateral 1r0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3682.90usft (25'KB)

Offset Depths are relative to Offset Datum

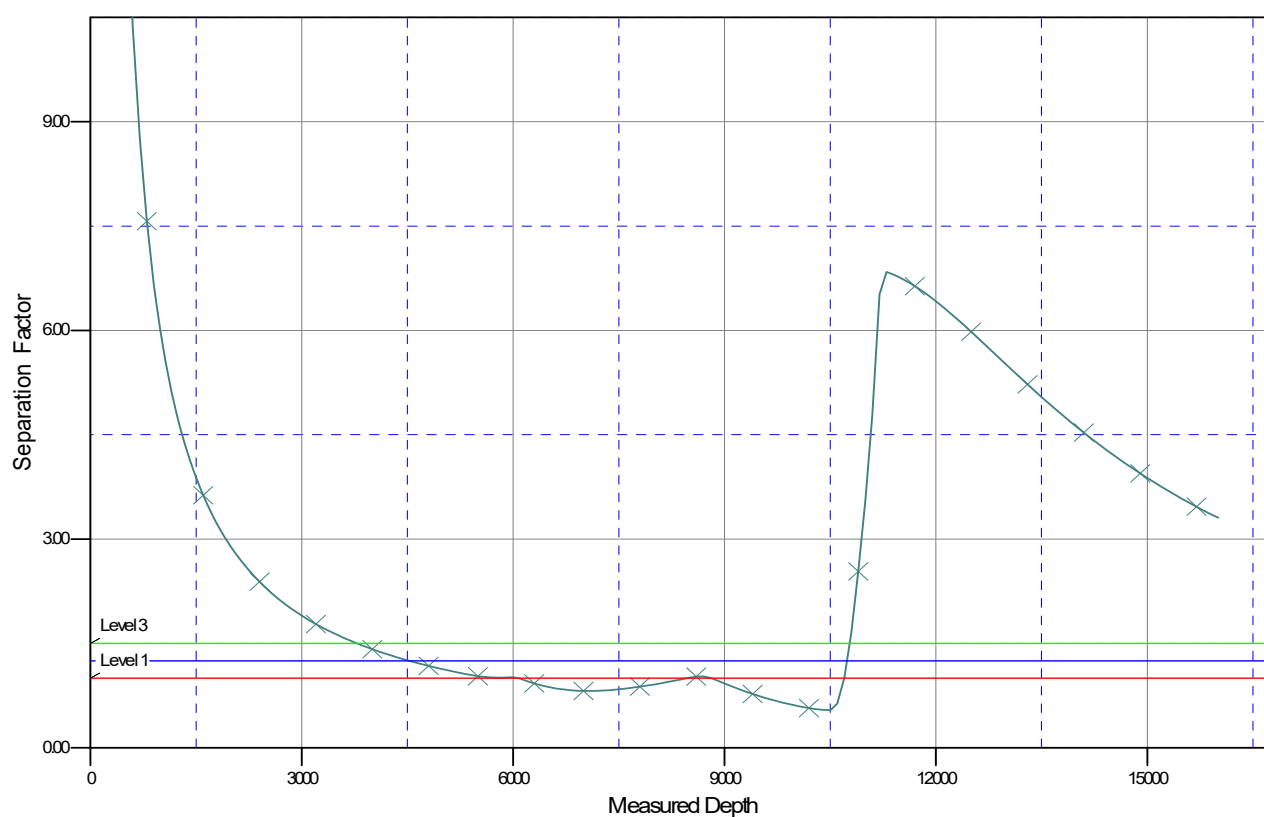
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 3U #9H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.43°

Separation Factor Plot



LEGEND

—x— 3U #9H, Planning, Lateral 1r0 V0

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: MARSHALL & WINSTON, INC. **OGRID:** 14187

Date: 01/24/2022

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
Loco Dinero 36 State		C-36-21S-33E	160' FNL &	800	950	500
Com #9H			1920' FWL			

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

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or 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
Loco Dinero 36 State		02/22/2022	03/09/2022	05/10/2022	06/01/2022	06/01/2022 est.
Com #9H						

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

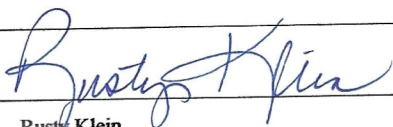
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	Rusty Klein
Title:	Agent for Marshall & Winston, Inc.
E-mail Address:	rustyklein4@gmail.com
Date:	January 24, 2022
Phone:	575-703-6412

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

Approved By:

Title:

Approval Date:

Conditions of Approval:

MARSHALL & WINSTON, INC.**NATURAL GAS MANAGEMENT PLAN ATTACHMENT**

VI. Marshall & Winston, Inc. (M&W) engineering staff will utilize separation equipment based on capacities suggested by the manufacturer in conjunction with anticipated daily production rates. Engineered design of the VRU system along with pipe sizing will be verified by COMM Engineering Services to ensure maximum efficiency for anticipated volumes.

VII. M&W will take the following actions to comply with the regulations listed in 19.15.28.8:

- **A.** M&W plans to efficiently recover natural gas by minimizing waste gas as defined in 19.15.2 NMAC. M&W will ensure each new well drilled and completed is connected to a natural gas gathering system before the well is on line. If the natural gas gathering infrastructure is not in place the well will be delayed or shut in until the gathering system is available.
- **B.** Drilling Operations are equipped with a flare located at least 100 ft from the wellbore. The flare will be used to combust any gas that is circulated to surface during drilling operations. Estimated volumes will be reported appropriately.
- **C.** During completion operations any natural gas brought to the surface will be flared. Following completion operations, all fluids and gases flowed/pumped from the well will be directed to designed separation equipment at the central tank battery. All natural gas will be sent directly to the sales line. If the initial gas production does not meet gathering sales line specifications it will be flared for no more than 60 days. Gas analysis will be ran twice a week and once gas meets sales specifications the gas will be sent to the sales line. Flared volumes will be reported accordingly.
- **D.** M&W will not flare natural gas unless it follows the provisions and exceptions list in 19.15.27.8. If the gas gathering system is unavailable each well(s) will be shut in the until the gathering system is back in service.
- **E.** M&W will comply with required standards listed in 19.5.27.8 A-F
- **F.** The volume of natural gas that is vented or flared as a result of a malfunction or emergency during operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared or used beneficially during production operations will be measured or estimated. M&W will install meters to measure the volume of natural gas flared from the facility. Measuring devices will conform to industry standards as well as NMOC regulations.

VIII. During maintenance operations that involve separation equipment venting will be controlled by shutting in the well(s). During VRU maintenance operations, natural gas will be diverted to the flare to avoid venting the natural gas.