

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 274892

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

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-46449
4. Property Code 326434	5. Property Name Ray State Corn	6. Well No. 204H

7. Surface Location

UL - Lot A	Section 1	Township 24S	Range 28E	Lot Idn	Feet From 953	N/S Line N	Feet From 298	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot A	Section 25	Township 23S	Range 28E	Lot Idn A	Feet From 240	N/S Line N	Feet From 430	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2962
16. Multiple N	17. Proposed Depth 20174	18. Formation Wolfcamp	19. Contractor	20. Spud Date 11/21/2019
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	20	13.375	54.5	225	306	0
Int1	12.25	9.625	40	2800	753	0
Int2	8.75	7.625	29.7	9955	445	2600
Prod	6.75	5.5	20	20174	707	9755

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Ava Monroe	Approved By: Raymond Podany
Title: Sr. Regulatory Analyst	Title: Geologist
Email Address: amonroe@matadorresources.com	Approved Date: 11/21/2019
Date: 11/19/2019	Phone: 972-371-5218
Conditions of Approval Attached	

Expiration Date: 11/21/2021

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
	98220	Purple Sage; Wolfcamp
⁴ Property Code	⁵ Property Name	
	RAY STATE COM	
⁶ OGRID No.	⁷ Operator Name	⁸ Well Number
228937	MATADOR PRODUCTION COMPANY	204H
		⁹ Elevation
		2962'

¹⁰Surface Location

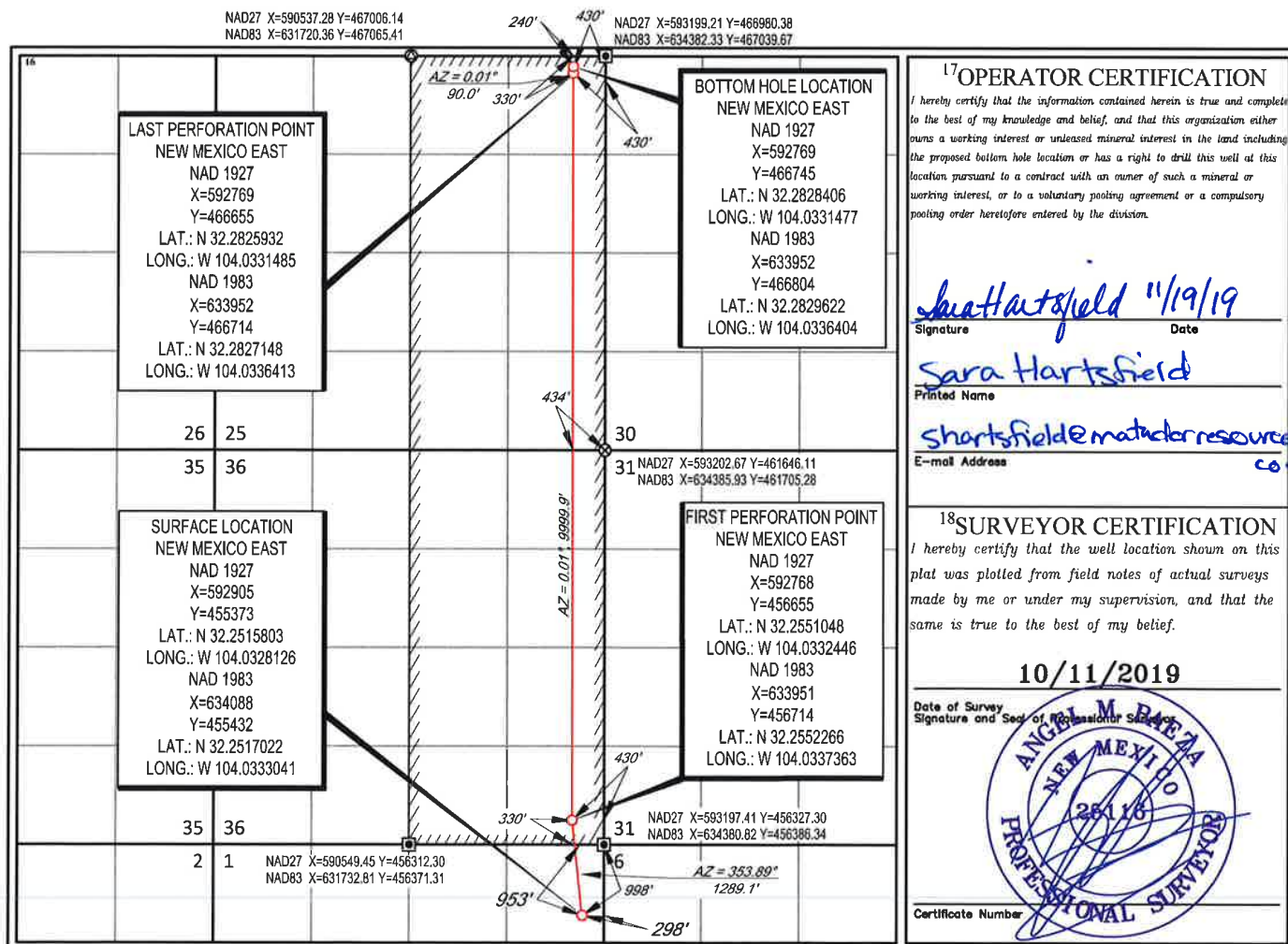
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	24-S	28-E	-	953'	NORTH	298'	EAST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	23-S	28-E	-	240'	NORTH	430'	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
640			

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.



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GAS CAPTURE PLAN

Date: 11/21/2019

☒ Original

Operator & OGRID No.: [228937] MATADOR PRODUCTION COMPANY

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Ray State Com #204H	30-015-46449	A-1-24S-28E	0953N 0298E	5	Flared	+/- 4500 MCF/D

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LONGWOOD RB PIPELINE, LLC and will be connected to LONGWOOD RB PIPELINE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 5280' of pipeline to connect the facility to High Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LONGWOOD RB PIPELINE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MATADOR PRODUCTION COMPANY and LONGWOOD RB PIPELINE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LONGWOOD RB PIPELINE, LLC Processing Plant located in Sec. 31, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LONGWOOD RB PIPELINE, LLC system at that time. Based on current information, it is MATADOR PRODUCTION COMPANY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Oil Conservation Division
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Santa Fe, NM 87505

Form APD Comments

Permit 274892

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46449
		Well: Ray State Com #204H
Created By	Comment	Comment Date

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Form APD Conditions

Permit 274892

PERMIT CONDITIONS OF APPROVAL

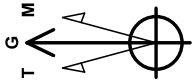
Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46449
		Well: Ray State Com #204H

OCD Reviewer	Condition
rpodany	Will require a directional survey with the C-104
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing

Matador Resources Company

Project: Eddy County, NM (NAD27-Grid)
 Site: Ray State Com
 Well: Ray State Com 204H
 Wellbore: OH
 Design: Prelim B

2962 GE + 28.5 KB @ 2990.50usft



Azimuths to Grid North
 True North: -0.16°
 Magnetic North: 6.75°
 Magnetic Field
 Strength: 47665.1nT
 Dip Angle: 59.98°
 Date: 11/1/2019
 Model: IGRF2015

PROJECT DETAILS: Eddy County, NM (NAD27-Grid)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

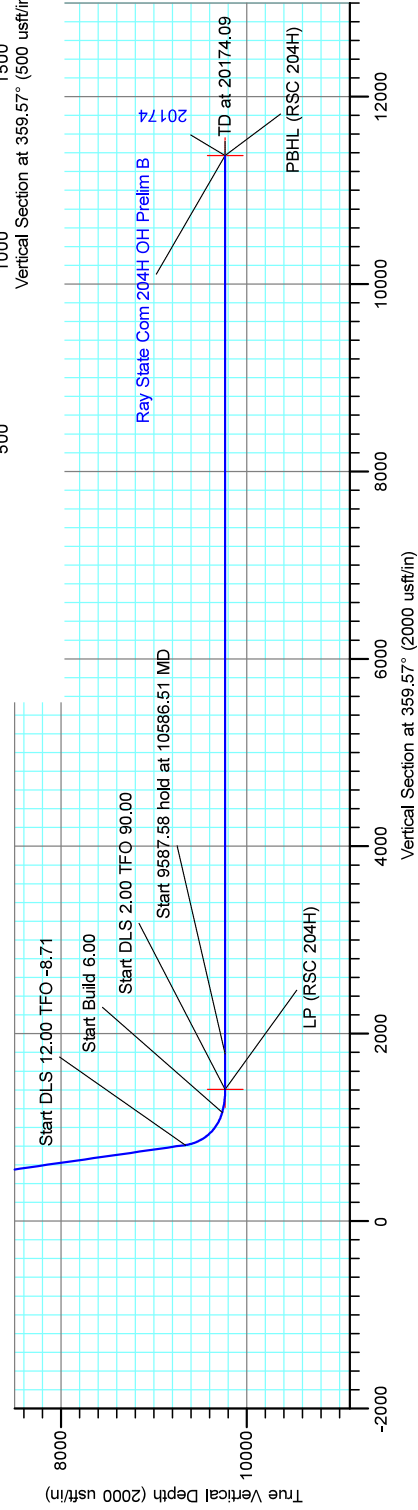
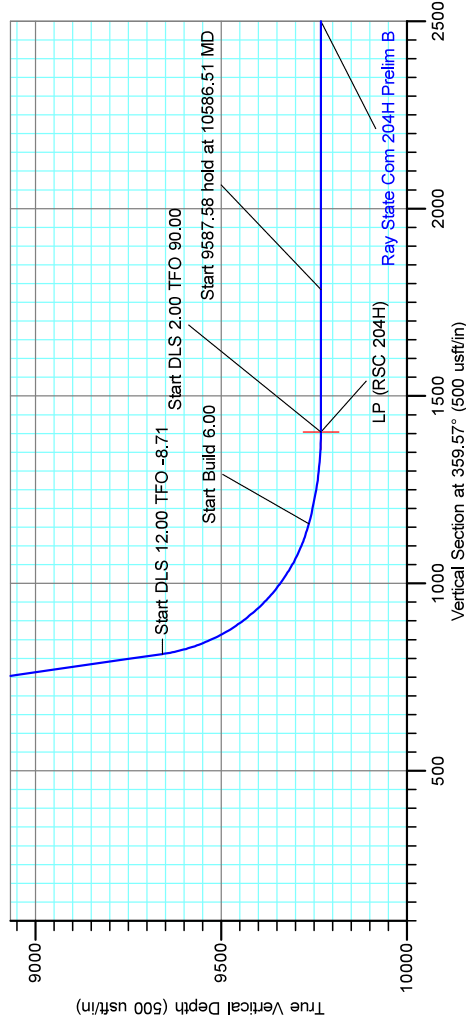
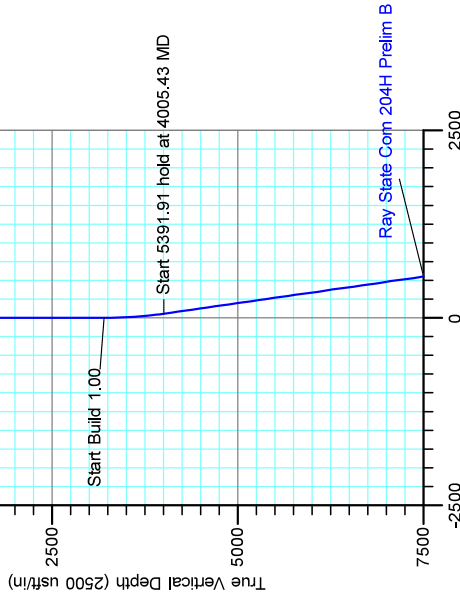


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.00
4005.43	8.05	0.70	4002.78	56.51	0.69	1.00	0.70	56.51	Start 5391.91 hold at 4005.43 MD
9397.34	8.05	0.70	9341.50	811.92	9.86	0.00	0.00	811.83	Start DLS 12.00 TFO -8.71
9955.96	75.00	352.40	9736.46	1159.00	-30.00	12.00	-8.71	1159.19	Start Build 6.00
10205.96	90.00	352.40	9769.00	1403.98	-62.69	6.00	0.00	1404.42	Start DLS 2.00 TFO 90.00
10586.51	90.00	0.01	9769.00	1783.42	-87.85	2.00	90.00	1784.04	Start 9587.58 hold at 10586.51 MD
20174.09	90.00	0.01	9769.00	11371.00	-86.00	0.00	0.00	11371.33	TD at 20174.09

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (RSC 204H)	9769.00	1403.98	-62.69	32.255440	-104.033002
PBHL (RSC 204H)	9769.00	11371.00	-86.00	32.282839	-104.032987
SHL (RSC 204H)	0.00	0.00	0.00	32.251580	-104.032812



TOTAL DIRECTIONAL SERVICES LLC
 671 Academy Ct, Windsor, CO 80550
 Phone: (970) 460-9402

Plan: Prelim B (Ray State Com 204H/OH)

Created By: Dustin Ault

Date: 9/48, November 08 2019

Approved: _____ Date: _____



Matador Resources Company

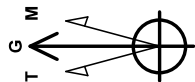
Project: Eddy County, NM (NAD27-Grid)

Site: Ray State Com

Well: Ray State Com 204H

Wellbore: OH

Design: Prelim B



Azimuths to Grid North

True North: -0.16°
Magnetic North: 6.75°

Magneuc Nordi: 6.75

Magnetic Field 20

length: 47665.1nT
Dir Angle: 50.00°

Dip Angle: 59.98°
Date: 11/1/2019

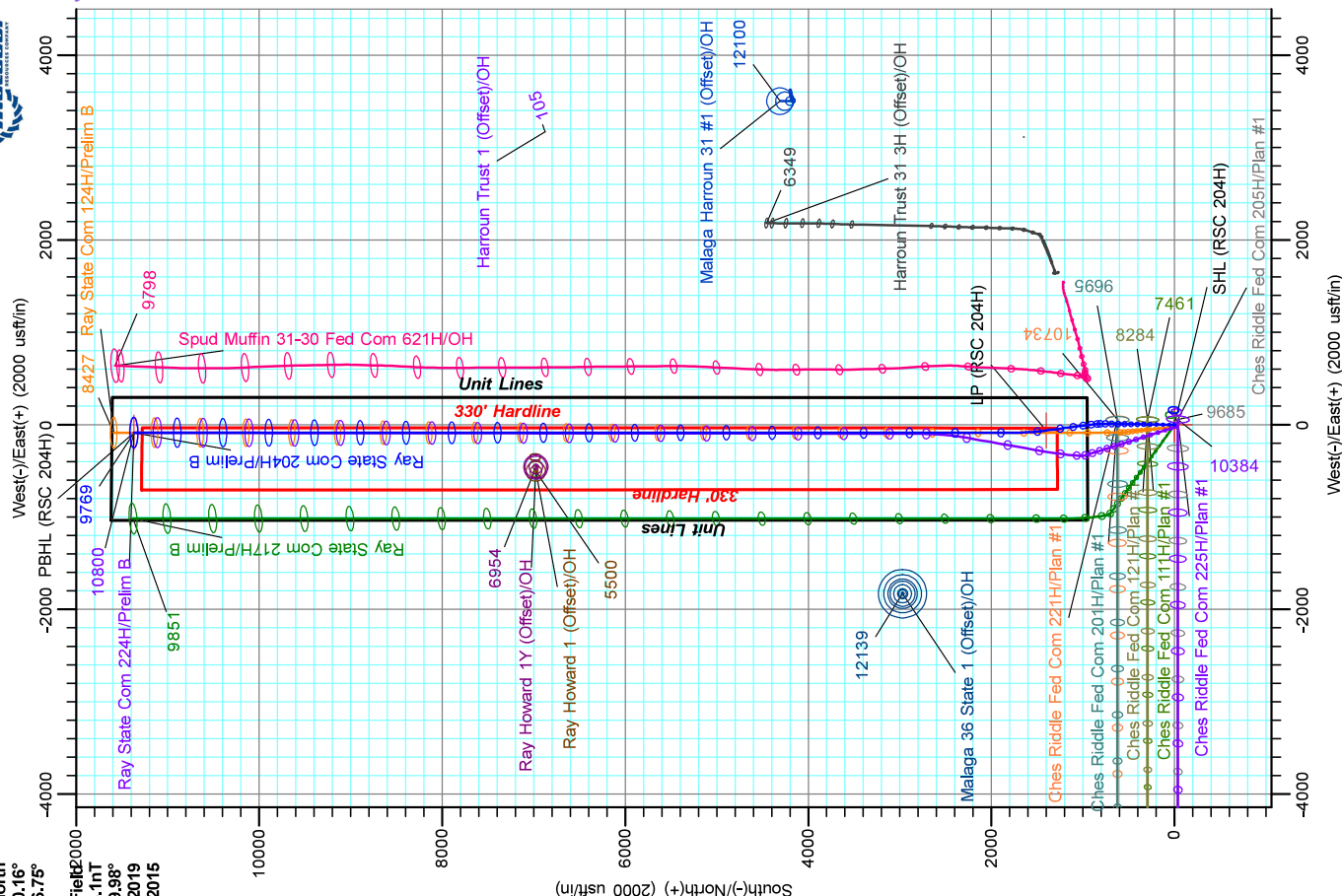
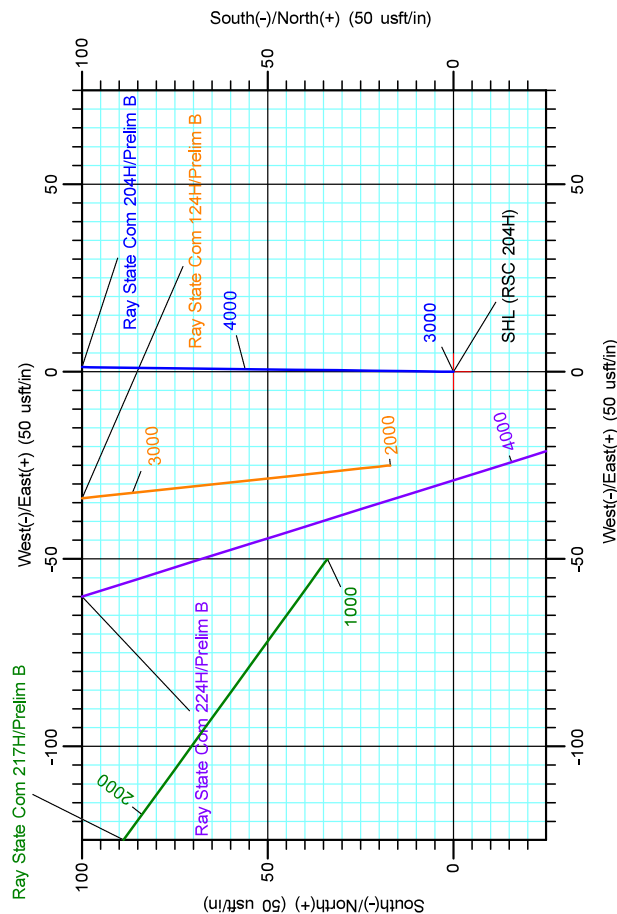
PROJECT DETAILS: Eddy County, NM (NAD27-Grid)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
P (RSC 204H)	9769.00	1403.98	-62.69	456776.98	592842.31	32.255440	-104.033002
PBHL (RSC 204H)	9769.00	11371.00	-86.00	466744.00	592819.00	32.282839	-104.032987
SHL (RSC 204H)	0.00	0.00	0.00	455373.00	592905.00	32.251580	-104.032812

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	Start 5391.91 hold at 4005.43 MD
4005.43	8.05	0.70	4002.78	56.51	0.69	1.00	0.70	56.51	Start DLS 12.00 TFO -8.71
9397.34	8.05	0.70	9341.50	811.92	9.86	0.00	0.00	811.83	Start Build 6.00
9955.96	75.00	352.40	9736.46	1159.00	-30.00	12.00	-8.71	1159.19	Start DLS 2.00
10205.96	90.00	352.40	9769.00	1403.98	-62.69	6.00	0.00	1404.42	Start DLS 2.00 TFO 90.00
10586.51	90.00	0.01	9769.00	1783.42	-87.85	2.00	90.00	1784.04	Start 9587.58 hold at 10586.51 MD
20174.09	90.00	0.01	9769.00	11371.00	-86.00	0.00	0.00	11371.33	TD at 20174.09

**TOTAL DIRECTIONAL SERVICES LLC**

671 Academy Ct. Windsor. CO 80550

Phone: (970) 460-9402

Plan: Prelim B (Ray State Com 204H/OH)

Ray State Com
Created By: Dustin Ault
Date: 9:49, November 08 2019

Date: _____
Approved: _____



Matador Resources Company

Eddy County, NM (NAD27-Grid)

Ray State Com

Ray State Com 204H

OH

Plan: Prelim B

Standard Planning Report

08 November, 2019





Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Ray State Com 204H
Company:	Matador Resources Company	TVD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Project	Eddy County, NM (NAD27-Grid)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Ray State Com				
Site Position:		Northing:	455,390.00 usft	Latitude:	32.251627
From:	Map	Easting:	592,880.00 usft	Longitude:	-104.032893
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	Ray State Com 204H					
Well Position	+N/-S	-17.00 usft	Northing:	455,373.00 usft	Latitude:	32.251580
	+E/-W	25.00 usft	Easting:	592,905.00 usft	Longitude:	-104.032812
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,962.50 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/1/2019	6.91	59.98	47,665.05892032

Design	Prelim B				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.57	

Plan Survey Tool Program	Date	11/8/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,174.09 Prelim B (OH)	MWD+HRGM		
			OWSG MWD + HRGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,005.43	8.05	0.70	4,002.78	56.51	0.69	1.00	1.00	0.00	0.70	
9,397.34	8.05	0.70	9,341.50	811.92	9.86	0.00	0.00	0.00	0.00	
9,955.96	75.00	352.40	9,736.46	1,159.00	-30.00	12.00	11.98	-1.49	-8.71	
10,205.96	90.00	352.40	9,769.00	1,403.98	-62.69	6.00	6.00	0.00	0.00	
10,586.51	90.00	0.01	9,769.00	1,783.42	-87.85	2.00	0.00	2.00	90.00	
20,174.09	90.00	0.01	9,769.00	11,371.00	-86.00	0.00	0.00	0.00	0.00	PBHL (RSC 204H)



Total Directional Services

Planning Report



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Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (RSC 204H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
3,300.00	1.00	0.70	3,299.99	0.87	0.01	0.87	1.00	1.00	0.00
3,400.00	2.00	0.70	3,399.96	3.49	0.04	3.49	1.00	1.00	0.00
3,500.00	3.00	0.70	3,499.86	7.85	0.10	7.85	1.00	1.00	0.00
3,600.00	4.00	0.70	3,599.68	13.96	0.17	13.95	1.00	1.00	0.00
3,700.00	5.00	0.70	3,699.37	21.80	0.26	21.80	1.00	1.00	0.00
3,800.00	6.00	0.70	3,798.90	31.38	0.38	31.38	1.00	1.00	0.00
3,900.00	7.00	0.70	3,898.26	42.70	0.52	42.70	1.00	1.00	0.00
4,005.43	8.05	0.70	4,002.78	56.51	0.69	56.51	1.00	1.00	0.00
Start 5391.91 hold at 4005.43 MD									
4,100.00	8.05	0.70	4,096.42	69.76	0.85	69.75	0.00	0.00	0.00
4,200.00	8.05	0.70	4,195.43	83.77	1.02	83.76	0.00	0.00	0.00
4,300.00	8.05	0.70	4,294.44	97.78	1.19	97.77	0.00	0.00	0.00
4,400.00	8.05	0.70	4,393.46	111.79	1.36	111.78	0.00	0.00	0.00
4,500.00	8.05	0.70	4,492.47	125.80	1.53	125.79	0.00	0.00	0.00
4,600.00	8.05	0.70	4,591.49	139.81	1.70	139.80	0.00	0.00	0.00
4,700.00	8.05	0.70	4,690.50	153.82	1.87	153.81	0.00	0.00	0.00
4,800.00	8.05	0.70	4,789.51	167.83	2.04	167.81	0.00	0.00	0.00
4,900.00	8.05	0.70	4,888.53	181.84	2.21	181.82	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Ray State Com 204H
Company:	Matador Resources Company	TVD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	8.05	0.70	4,987.54	195.85	2.38	195.83	0.00	0.00	0.00
5,100.00	8.05	0.70	5,086.55	209.86	2.55	209.84	0.00	0.00	0.00
5,200.00	8.05	0.70	5,185.57	223.87	2.72	223.85	0.00	0.00	0.00
5,300.00	8.05	0.70	5,284.58	237.88	2.89	237.86	0.00	0.00	0.00
5,400.00	8.05	0.70	5,383.59	251.89	3.06	251.86	0.00	0.00	0.00
5,500.00	8.05	0.70	5,482.61	265.90	3.23	265.87	0.00	0.00	0.00
5,600.00	8.05	0.70	5,581.62	279.91	3.40	279.88	0.00	0.00	0.00
5,700.00	8.05	0.70	5,680.63	293.92	3.57	293.89	0.00	0.00	0.00
5,800.00	8.05	0.70	5,779.65	307.93	3.74	307.90	0.00	0.00	0.00
5,900.00	8.05	0.70	5,878.66	321.94	3.91	321.91	0.00	0.00	0.00
6,000.00	8.05	0.70	5,977.68	335.95	4.08	335.91	0.00	0.00	0.00
6,100.00	8.05	0.70	6,076.69	349.96	4.25	349.92	0.00	0.00	0.00
6,200.00	8.05	0.70	6,175.70	363.97	4.42	363.93	0.00	0.00	0.00
6,300.00	8.05	0.70	6,274.72	377.98	4.59	377.94	0.00	0.00	0.00
6,400.00	8.05	0.70	6,373.73	391.99	4.76	391.95	0.00	0.00	0.00
6,500.00	8.05	0.70	6,472.74	406.00	4.93	405.96	0.00	0.00	0.00
6,600.00	8.05	0.70	6,571.76	420.02	5.10	419.96	0.00	0.00	0.00
6,700.00	8.05	0.70	6,670.77	434.03	5.27	433.97	0.00	0.00	0.00
6,800.00	8.05	0.70	6,769.78	448.04	5.44	447.98	0.00	0.00	0.00
6,900.00	8.05	0.70	6,868.80	462.05	5.61	461.99	0.00	0.00	0.00
7,000.00	8.05	0.70	6,967.81	476.06	5.78	476.00	0.00	0.00	0.00
7,100.00	8.05	0.70	7,066.82	490.07	5.95	490.01	0.00	0.00	0.00
7,200.00	8.05	0.70	7,165.84	504.08	6.12	504.01	0.00	0.00	0.00
7,300.00	8.05	0.70	7,264.85	518.09	6.29	518.02	0.00	0.00	0.00
7,400.00	8.05	0.70	7,363.87	532.10	6.46	532.03	0.00	0.00	0.00
7,500.00	8.05	0.70	7,462.88	546.11	6.63	546.04	0.00	0.00	0.00
7,600.00	8.05	0.70	7,561.89	560.12	6.80	560.05	0.00	0.00	0.00
7,700.00	8.05	0.70	7,660.91	574.13	6.97	574.06	0.00	0.00	0.00
7,800.00	8.05	0.70	7,759.92	588.14	7.14	588.07	0.00	0.00	0.00
7,900.00	8.05	0.70	7,858.93	602.15	7.31	602.07	0.00	0.00	0.00
8,000.00	8.05	0.70	7,957.95	616.16	7.48	616.08	0.00	0.00	0.00
8,100.00	8.05	0.70	8,056.96	630.17	7.65	630.09	0.00	0.00	0.00
8,200.00	8.05	0.70	8,155.97	644.18	7.82	644.10	0.00	0.00	0.00
8,300.00	8.05	0.70	8,254.99	658.19	7.99	658.11	0.00	0.00	0.00
8,400.00	8.05	0.70	8,354.00	672.20	8.16	672.12	0.00	0.00	0.00
8,500.00	8.05	0.70	8,453.01	686.21	8.33	686.12	0.00	0.00	0.00
8,600.00	8.05	0.70	8,552.03	700.22	8.50	700.13	0.00	0.00	0.00
8,700.00	8.05	0.70	8,651.04	714.23	8.67	714.14	0.00	0.00	0.00
8,800.00	8.05	0.70	8,750.06	728.24	8.84	728.15	0.00	0.00	0.00
8,900.00	8.05	0.70	8,849.07	742.25	9.01	742.16	0.00	0.00	0.00
9,000.00	8.05	0.70	8,948.08	756.26	9.18	756.17	0.00	0.00	0.00
9,100.00	8.05	0.70	9,047.10	770.27	9.35	770.17	0.00	0.00	0.00
9,200.00	8.05	0.70	9,146.11	784.28	9.52	784.18	0.00	0.00	0.00
9,300.00	8.05	0.70	9,245.12	798.29	9.69	798.19	0.00	0.00	0.00
9,397.34	8.05	0.70	9,341.50	811.92	9.86	811.83	0.00	0.00	0.00
Start DLS 12.00 TFO -8.71									
9,400.00	8.37	0.36	9,344.14	812.30	9.86	812.21	12.00	11.87	-12.48
9,425.00	11.35	358.14	9,368.76	816.58	9.80	816.49	12.00	11.91	-8.88
9,450.00	14.33	356.84	9,393.14	822.13	9.55	822.04	12.00	11.94	-5.22
9,475.00	17.32	355.97	9,417.19	828.94	9.11	828.84	12.00	11.96	-3.45
9,500.00	20.32	355.36	9,440.85	836.98	8.50	836.89	12.00	11.97	-2.46
9,525.00	23.31	354.90	9,464.05	846.23	7.71	846.15	12.00	11.98	-1.85
9,550.00	26.31	354.53	9,486.74	856.68	6.74	856.60	12.00	11.98	-1.45
9,575.00	29.30	354.24	9,508.85	868.28	5.60	868.21	12.00	11.99	-1.17



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Ray State Com 204H
Company:	Matador Resources Company	TVD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,600.00	32.30	354.00	9,530.33	881.01	4.29	880.96	12.00	11.99	-0.97	
9,625.00	35.30	353.79	9,551.10	894.84	2.81	894.79	12.00	11.99	-0.82	
9,650.00	38.30	353.61	9,571.11	909.72	1.16	909.69	12.00	11.99	-0.71	
9,675.00	41.30	353.46	9,590.32	925.62	-0.64	925.60	12.00	11.99	-0.62	
9,700.00	44.30	353.32	9,608.66	942.49	-2.60	942.48	12.00	11.99	-0.55	
9,725.00	47.29	353.20	9,626.09	960.29	-4.70	960.30	12.00	11.99	-0.50	
9,750.00	50.29	353.08	9,642.56	978.96	-6.95	978.98	12.00	12.00	-0.45	
9,775.00	53.29	352.98	9,658.02	998.46	-9.33	998.50	12.00	12.00	-0.41	
9,800.00	56.29	352.89	9,672.43	1,018.72	-11.84	1,018.78	12.00	12.00	-0.38	
9,825.00	59.29	352.80	9,685.76	1,039.71	-14.48	1,039.79	12.00	12.00	-0.36	
9,850.00	62.29	352.71	9,697.95	1,061.35	-17.23	1,061.45	12.00	12.00	-0.33	
9,875.00	65.29	352.63	9,709.00	1,083.60	-20.09	1,083.72	12.00	12.00	-0.32	
9,900.00	68.29	352.56	9,718.85	1,106.38	-23.05	1,106.52	12.00	12.00	-0.30	
9,925.00	71.29	352.49	9,727.49	1,129.64	-26.10	1,129.80	12.00	12.00	-0.29	
9,950.00	74.29	352.42	9,734.88	1,153.31	-29.24	1,153.50	12.00	12.00	-0.28	
9,955.96	75.00	352.40	9,736.46	1,159.00	-30.00	1,159.19	12.00	12.00	-0.27	
Start Build 6.00										
10,000.00	77.64	352.40	9,746.87	1,201.42	-35.66	1,201.65	6.00	6.00	0.00	
10,050.00	80.64	352.40	9,756.29	1,250.08	-42.15	1,250.37	6.00	6.00	0.00	
10,100.00	83.64	352.40	9,763.13	1,299.17	-48.70	1,299.50	6.00	6.00	0.00	
10,150.00	86.64	352.40	9,767.36	1,348.55	-55.29	1,348.93	6.00	6.00	0.00	
10,200.00	89.64	352.40	9,768.98	1,398.08	-61.90	1,398.51	6.00	6.00	0.00	
10,205.95	90.00	352.40	9,769.00	1,403.98	-62.69	1,404.41	6.00	6.00	0.00	
Start DLS 2.00 TFO 90.00 - LP (RSC 204H)										
10,300.00	90.00	354.28	9,769.00	1,497.39	-73.59	1,497.90	2.00	0.00	2.00	
10,400.00	90.00	356.28	9,769.00	1,597.04	-81.82	1,597.62	2.00	0.00	2.00	
10,500.00	90.00	358.28	9,769.00	1,696.93	-86.56	1,697.53	2.00	0.00	2.00	
10,586.51	90.00	0.01	9,769.00	1,783.42	-87.85	1,784.04	2.00	0.00	2.00	
Start 9587.58 hold at 10586.51 MD										
10,600.00	90.00	0.01	9,769.00	1,796.91	-87.85	1,797.53	0.00	0.00	0.00	
10,700.00	90.00	0.01	9,769.00	1,896.91	-87.83	1,897.52	0.00	0.00	0.00	
10,800.00	90.00	0.01	9,769.00	1,996.91	-87.81	1,997.52	0.00	0.00	0.00	
10,900.00	90.00	0.01	9,769.00	2,096.91	-87.79	2,097.52	0.00	0.00	0.00	
11,000.00	90.00	0.01	9,769.00	2,196.91	-87.77	2,197.52	0.00	0.00	0.00	
11,100.00	90.00	0.01	9,769.00	2,296.91	-87.75	2,297.51	0.00	0.00	0.00	
11,200.00	90.00	0.01	9,769.00	2,396.91	-87.73	2,397.51	0.00	0.00	0.00	
11,300.00	90.00	0.01	9,769.00	2,496.91	-87.72	2,497.51	0.00	0.00	0.00	
11,400.00	90.00	0.01	9,769.00	2,596.91	-87.70	2,597.50	0.00	0.00	0.00	
11,500.00	90.00	0.01	9,769.00	2,696.91	-87.68	2,697.50	0.00	0.00	0.00	
11,600.00	90.00	0.01	9,769.00	2,796.91	-87.66	2,797.50	0.00	0.00	0.00	
11,700.00	90.00	0.01	9,769.00	2,896.91	-87.64	2,897.49	0.00	0.00	0.00	
11,800.00	90.00	0.01	9,769.00	2,996.91	-87.62	2,997.49	0.00	0.00	0.00	
11,900.00	90.00	0.01	9,769.00	3,096.91	-87.60	3,097.49	0.00	0.00	0.00	
12,000.00	90.00	0.01	9,769.00	3,196.91	-87.58	3,197.49	0.00	0.00	0.00	
12,100.00	90.00	0.01	9,769.00	3,296.91	-87.56	3,297.48	0.00	0.00	0.00	
12,200.00	90.00	0.01	9,769.00	3,396.91	-87.54	3,397.48	0.00	0.00	0.00	
12,300.00	90.00	0.01	9,769.00	3,496.91	-87.52	3,497.48	0.00	0.00	0.00	
12,400.00	90.00	0.01	9,769.00	3,596.91	-87.50	3,597.47	0.00	0.00	0.00	
12,500.00	90.00	0.01	9,769.00	3,696.91	-87.48	3,697.47	0.00	0.00	0.00	
12,600.00	90.00	0.01	9,769.00	3,796.91	-87.46	3,797.47	0.00	0.00	0.00	
12,700.00	90.00	0.01	9,769.00	3,896.91	-87.44	3,897.46	0.00	0.00	0.00	
12,800.00	90.00	0.01	9,769.00	3,996.91	-87.43	3,997.46	0.00	0.00	0.00	
12,900.00	90.00	0.01	9,769.00	4,096.91	-87.41	4,097.46	0.00	0.00	0.00	



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Ray State Com 204H
Company:	Matador Resources Company	TVD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,000.00	90.00	0.01	9,769.00	4,196.91	-87.39	4,197.45	0.00	0.00	0.00
13,100.00	90.00	0.01	9,769.00	4,296.91	-87.37	4,297.45	0.00	0.00	0.00
13,200.00	90.00	0.01	9,769.00	4,396.91	-87.35	4,397.45	0.00	0.00	0.00
13,300.00	90.00	0.01	9,769.00	4,496.91	-87.33	4,497.45	0.00	0.00	0.00
13,400.00	90.00	0.01	9,769.00	4,596.91	-87.31	4,597.44	0.00	0.00	0.00
13,500.00	90.00	0.01	9,769.00	4,696.91	-87.29	4,697.44	0.00	0.00	0.00
13,600.00	90.00	0.01	9,769.00	4,796.91	-87.27	4,797.44	0.00	0.00	0.00
13,700.00	90.00	0.01	9,769.00	4,896.91	-87.25	4,897.43	0.00	0.00	0.00
13,800.00	90.00	0.01	9,769.00	4,996.91	-87.23	4,997.43	0.00	0.00	0.00
13,900.00	90.00	0.01	9,769.00	5,096.91	-87.21	5,097.43	0.00	0.00	0.00
14,000.00	90.00	0.01	9,769.00	5,196.91	-87.19	5,197.42	0.00	0.00	0.00
14,100.00	90.00	0.01	9,769.00	5,296.91	-87.17	5,297.42	0.00	0.00	0.00
14,200.00	90.00	0.01	9,769.00	5,396.91	-87.15	5,397.42	0.00	0.00	0.00
14,300.00	90.00	0.01	9,769.00	5,496.91	-87.14	5,497.42	0.00	0.00	0.00
14,400.00	90.00	0.01	9,769.00	5,596.91	-87.12	5,597.41	0.00	0.00	0.00
14,500.00	90.00	0.01	9,769.00	5,696.91	-87.10	5,697.41	0.00	0.00	0.00
14,600.00	90.00	0.01	9,769.00	5,796.91	-87.08	5,797.41	0.00	0.00	0.00
14,700.00	90.00	0.01	9,769.00	5,896.91	-87.06	5,897.40	0.00	0.00	0.00
14,800.00	90.00	0.01	9,769.00	5,996.91	-87.04	5,997.40	0.00	0.00	0.00
14,900.00	90.00	0.01	9,769.00	6,096.91	-87.02	6,097.40	0.00	0.00	0.00
15,000.00	90.00	0.01	9,769.00	6,196.91	-87.00	6,197.39	0.00	0.00	0.00
15,100.00	90.00	0.01	9,769.00	6,296.91	-86.98	6,297.39	0.00	0.00	0.00
15,200.00	90.00	0.01	9,769.00	6,396.91	-86.96	6,397.39	0.00	0.00	0.00
15,300.00	90.00	0.01	9,769.00	6,496.91	-86.94	6,497.39	0.00	0.00	0.00
15,400.00	90.00	0.01	9,769.00	6,596.91	-86.92	6,597.38	0.00	0.00	0.00
15,500.00	90.00	0.01	9,769.00	6,696.91	-86.90	6,697.38	0.00	0.00	0.00
15,600.00	90.00	0.01	9,769.00	6,796.91	-86.88	6,797.38	0.00	0.00	0.00
15,700.00	90.00	0.01	9,769.00	6,896.91	-86.86	6,897.37	0.00	0.00	0.00
15,800.00	90.00	0.01	9,769.00	6,996.91	-86.85	6,997.37	0.00	0.00	0.00
15,900.00	90.00	0.01	9,769.00	7,096.91	-86.83	7,097.37	0.00	0.00	0.00
16,000.00	90.00	0.01	9,769.00	7,196.91	-86.81	7,197.36	0.00	0.00	0.00
16,100.00	90.00	0.01	9,769.00	7,296.91	-86.79	7,297.36	0.00	0.00	0.00
16,200.00	90.00	0.01	9,769.00	7,396.91	-86.77	7,397.36	0.00	0.00	0.00
16,300.00	90.00	0.01	9,769.00	7,496.91	-86.75	7,497.36	0.00	0.00	0.00
16,400.00	90.00	0.01	9,769.00	7,596.91	-86.73	7,597.35	0.00	0.00	0.00
16,500.00	90.00	0.01	9,769.00	7,696.91	-86.71	7,697.35	0.00	0.00	0.00
16,600.00	90.00	0.01	9,769.00	7,796.91	-86.69	7,797.35	0.00	0.00	0.00
16,700.00	90.00	0.01	9,769.00	7,896.91	-86.67	7,897.34	0.00	0.00	0.00
16,800.00	90.00	0.01	9,769.00	7,996.91	-86.65	7,997.34	0.00	0.00	0.00
16,900.00	90.00	0.01	9,769.00	8,096.91	-86.63	8,097.34	0.00	0.00	0.00
17,000.00	90.00	0.01	9,769.00	8,196.91	-86.61	8,197.33	0.00	0.00	0.00
17,100.00	90.00	0.01	9,769.00	8,296.91	-86.59	8,297.33	0.00	0.00	0.00
17,200.00	90.00	0.01	9,769.00	8,396.91	-86.57	8,397.33	0.00	0.00	0.00
17,300.00	90.00	0.01	9,769.00	8,496.91	-86.56	8,497.33	0.00	0.00	0.00
17,400.00	90.00	0.01	9,769.00	8,596.91	-86.54	8,597.32	0.00	0.00	0.00
17,500.00	90.00	0.01	9,769.00	8,696.91	-86.52	8,697.32	0.00	0.00	0.00
17,600.00	90.00	0.01	9,769.00	8,796.91	-86.50	8,797.32	0.00	0.00	0.00
17,700.00	90.00	0.01	9,769.00	8,896.91	-86.48	8,897.31	0.00	0.00	0.00
17,800.00	90.00	0.01	9,769.00	8,996.91	-86.46	8,997.31	0.00	0.00	0.00
17,900.00	90.00	0.01	9,769.00	9,096.91	-86.44	9,097.31	0.00	0.00	0.00
18,000.00	90.00	0.01	9,769.00	9,196.91	-86.42	9,197.30	0.00	0.00	0.00
18,100.00	90.00	0.01	9,769.00	9,296.91	-86.40	9,297.30	0.00	0.00	0.00
18,200.00	90.00	0.01	9,769.00	9,396.91	-86.38	9,397.30	0.00	0.00	0.00
18,300.00	90.00	0.01	9,769.00	9,496.91	-86.36	9,497.30	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Ray State Com 204H
Company:	Matador Resources Company	TVD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Project:	Eddy County, NM (NAD27-Grid)	MD Reference:	2962' GE + 28.5' KB @ 2990.50usft
Site:	Ray State Com	North Reference:	Grid
Well:	Ray State Com 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,400.00	90.00	0.01	9,769.00	9,596.91	-86.34	9,597.29	0.00	0.00	0.00
18,500.00	90.00	0.01	9,769.00	9,696.91	-86.32	9,697.29	0.00	0.00	0.00
18,600.00	90.00	0.01	9,769.00	9,796.91	-86.30	9,797.29	0.00	0.00	0.00
18,700.00	90.00	0.01	9,769.00	9,896.91	-86.28	9,897.28	0.00	0.00	0.00
18,800.00	90.00	0.01	9,769.00	9,996.91	-86.27	9,997.28	0.00	0.00	0.00
18,900.00	90.00	0.01	9,769.00	10,096.91	-86.25	10,097.28	0.00	0.00	0.00
19,000.00	90.00	0.01	9,769.00	10,196.91	-86.23	10,197.27	0.00	0.00	0.00
19,100.00	90.00	0.01	9,769.00	10,296.91	-86.21	10,297.27	0.00	0.00	0.00
19,200.00	90.00	0.01	9,769.00	10,396.91	-86.19	10,397.27	0.00	0.00	0.00
19,300.00	90.00	0.01	9,769.00	10,496.91	-86.17	10,497.27	0.00	0.00	0.00
19,400.00	90.00	0.01	9,769.00	10,596.91	-86.15	10,597.26	0.00	0.00	0.00
19,500.00	90.00	0.01	9,769.00	10,696.91	-86.13	10,697.26	0.00	0.00	0.00
19,600.00	90.00	0.01	9,769.00	10,796.91	-86.11	10,797.26	0.00	0.00	0.00
19,700.00	90.00	0.01	9,769.00	10,896.91	-86.09	10,897.25	0.00	0.00	0.00
19,800.00	90.00	0.01	9,769.00	10,996.91	-86.07	10,997.25	0.00	0.00	0.00
19,900.00	90.00	0.01	9,769.00	11,096.91	-86.05	11,097.25	0.00	0.00	0.00
20,000.00	90.00	0.01	9,769.00	11,196.91	-86.03	11,197.24	0.00	0.00	0.00
20,100.00	90.00	0.01	9,769.00	11,296.91	-86.01	11,297.24	0.00	0.00	0.00
20,174.09	90.00	0.01	9,769.00	11,371.00	-86.00	11,371.33	0.00	0.00	0.00
TD at 20174.09 - PBHL (RSC 204H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (RSC 204H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	455,373.00	592,905.00	32.251580	-104.032812
LP (RSC 204H) - plan hits target center - Point	0.00	0.00	9,769.00	1,403.98	-62.69	456,776.98	592,842.31	32.255440	-104.033002
PBHL (RSC 204H) - plan hits target center - Point	0.00	0.00	9,769.00	11,371.00	-86.00	466,744.00	592,819.00	32.282839	-104.032987

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,200.00	3,200.00	0.00	0.00	Start Build 1.00	
4,005.43	4,002.78	56.51	0.69	Start 5391.91 hold at 4005.43 MD	
9,397.34	9,341.50	811.92	9.86	Start DLS 12.00 TFO -8.71	
9,955.96	9,736.46	1,159.00	-30.00	Start Build 6.00	
10,205.96	9,769.00	1,403.98	-62.69	Start DLS 2.00 TFO 90.00	
10,586.51	9,769.00	1,783.42	-87.85	Start 9587.58 hold at 10586.51 MD	
20,174.09	9,769.00	11,371.00	-86.00	TD at 20174.09	