

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 273137

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 30-015-46439
4. Property Code 325755	5. Property Name CHES RIDDLE COM	6. Well No. 205H

7. Surface Location

UL - Lot A	Section 2	Township 24S	Range 28E	Lot Idn	Feet From 308	N/S Line N	Feet From 338	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot A	Section 1	Township 24S	Range 28E	Lot Idn A	Feet From 1310	N/S Line N	Feet From 240	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 2980
16. Multiple N	17. Proposed Depth 15110	18. Formation Wolfcamp	19. Contractor	20. Spud Date 6/11/2020
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	450	550	0
Int1	12.25	9.625	40	2750	975	0
Int2	8.75	7.625	29.7	9850	600	2300
Prod	6.75	5.5	20	9200	660	8300
Prod	6.75	4.5	13.5	14550	660	8300

Casing/Cement Program: Additional Comments

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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:	11/8/2019
Date:	10/29/2019	Phone:	972-371-5218
		Expiration Date: 11/8/2021	
Conditions of Approval Attached			

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

FORM C-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 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)					
⁴ Property Code		⁵ Property Name CHES RIDDLE COM						⁶ Well Number #205H	
⁷ GRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY						⁹ Elevation 2980'	
¹⁰ Surface Location									
UL or lot no. 1	Section 02	Township 24-S	Range 28-E	Lot Idn -	Feet from the 308'	North/South line NORTH	Feet from the 338'	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. 1	Section 01	Township 24-S	Range 28-E	Lot Idn -	Feet from the 1310'	North/South line NORTH	Feet from the 240'	East/West line EAST	County EDDY
¹² Dedicated Acres 319.36		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sara Hartsfield</i> 10/23/19 Signature Date Sara Hartsfield Printed Name shartsfield@matadorresources.com E-mail Address			
¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 05/18/2018 Date of Survey <i>ANGELO M. BAEZA</i> Signature and Seal of Professional Surveyor Certificate Number				16 35 36 459' 338' 308' AZ = 146.30° 1200.8' 1310' 330' AZ = 89.68° 4645.1' AZ = 89.68° 90.0' 1310' 330' 240'			
SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=587563 Y=455988 LAT.: N 32.2533114 LONG.: W 104.0500861 NAD 1983 X=628746 Y=456047 LAT.: N 32.2534330 LONG.: W 104.0505784		FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=588229 Y=454989 LAT.: N 32.2505603 LONG.: W 104.0479399 NAD 1983 X=629413 Y=455048 LAT.: N 32.2506819 LONG.: W 104.0484320		LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=592874 Y=455015 LAT.: N 32.2505974 LONG.: W 104.0329150 NAD 1983 X=634058 Y=455074 LAT.: N 32.2507192 LONG.: W 104.0334065		BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=592964 Y=455016 LAT.: N 32.2505981 LONG.: W 104.0326239 NAD 1983 X=634148 Y=455075 LAT.: N 32.2507199 LONG.: W 104.0331154	
02 01							

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1220 S. St Francis Dr.
Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 11/8/2019

☒ 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
CHES RIDDLE COM #205H	30-015-46439	A-2-24S-28E	0308N 0338E	4	Flared	

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 MIDSTREAM DELAWARE, LLC and will be connected to LONGWOOD MIDSTREAM DELAWARE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 18480' of pipeline to connect the facility to High Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LONGWOOD MIDSTREAM DELAWARE, 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 MIDSTREAM DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LONGWOOD MIDSTREAM DELAWARE, 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 MIDSTREAM DELAWARE, 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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Form APD Comments

Permit 273137

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46439
		Well: CHES RIDDLE COM #205H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 273137

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-46439
		Well: CHES RIDDLE COM #205H
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

Eddy County, NM (NAD27)

Ches Riddle Com

#205H

OH

Plan: Ches R. #205H Prelim A

Standard Planning Report

01 October, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
Company:	Matador Resources	TVD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Project:	Eddy County, NM (NAD27)	MD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Site:	Ches Riddle Com	North Reference:	Grid
Well:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Ches R. #205H Prelim A		

Project	Eddy County, NM (NAD27)		
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	Ches Riddle Com				
Site Position:		Northing:	455,928.00 usft	Latitude:	32.253146
From:	Map	Easting:	587,563.00 usft	Longitude:	-104.050087
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	#205H					
Well Position	+N/-S	0.00 usft	Northing:	455,928.00 usft	Latitude:	32.253146
	+E/-W	0.00 usft	Easting:	587,563.00 usft	Longitude:	-104.050087
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	2,980.00 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/5/2019	7.03	59.97	47,855.00

Design	Ches R. #205H Prelim A				
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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	89.67	

Plan Survey Tool Program		Date 10/1/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	14,833.15 Ches R. #205H Prelim A (OH)	MWD+HDGM	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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,331.16	8.31	172.02	2,328.24	-59.60	8.35	1.00	1.00	0.00	172.02	
5,989.17	8.31	172.02	5,947.84	-583.27	81.73	0.00	0.00	0.00	0.00	
6,543.27	0.00	0.01	6,500.00	-623.00	87.30	1.50	-1.50	0.00	180.00	
9,194.32	0.00	0.01	9,151.04	-623.00	87.30	0.00	0.00	0.00	0.01	
10,094.31	90.00	89.67	9,724.00	-619.66	660.25	10.00	10.00	9.96	89.67	
14,833.15	90.00	89.67	9,724.00	-592.00	5,399.00	0.00	0.00	0.00	0.00	BHL (Ches R. #205

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
Company:	Matador Resources	TVD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Project:	Eddy County, NM (NAD27)	MD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Site:	Ches Riddle Com	North Reference:	Grid
Well:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Ches R. #205H Prelim A		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
1,600.00	1.00	172.02	1,599.99	-0.86	0.12	0.12	1.00	1.00	0.00
1,700.00	2.00	172.02	1,699.96	-3.46	0.48	0.46	1.00	1.00	0.00
1,800.00	3.00	172.02	1,799.86	-7.78	1.09	1.04	1.00	1.00	0.00
1,900.00	4.00	172.02	1,899.68	-13.82	1.94	1.86	1.00	1.00	0.00
2,000.00	5.00	172.02	1,999.37	-21.59	3.03	2.90	1.00	1.00	0.00
2,100.00	6.00	172.02	2,098.90	-31.08	4.36	4.18	1.00	1.00	0.00
2,200.00	7.00	172.02	2,198.26	-42.29	5.93	5.68	1.00	1.00	0.00
2,300.00	8.00	172.02	2,297.40	-55.22	7.74	7.42	1.00	1.00	0.00
2,331.16	8.31	172.02	2,328.24	-59.60	8.35	8.01	1.00	1.00	0.00
2,400.00	8.31	172.02	2,396.36	-69.45	9.73	9.33	0.00	0.00	0.00
2,500.00	8.31	172.02	2,495.31	-83.77	11.74	11.26	0.00	0.00	0.00
2,600.00	8.31	172.02	2,594.26	-98.08	13.74	13.18	0.00	0.00	0.00
2,700.00	8.31	172.02	2,693.21	-112.40	15.75	15.10	0.00	0.00	0.00
2,800.00	8.31	172.02	2,792.16	-126.72	17.76	17.03	0.00	0.00	0.00
2,900.00	8.31	172.02	2,891.11	-141.03	19.76	18.95	0.00	0.00	0.00
3,000.00	8.31	172.02	2,990.06	-155.35	21.77	20.87	0.00	0.00	0.00
3,100.00	8.31	172.02	3,089.01	-169.66	23.77	22.80	0.00	0.00	0.00
3,200.00	8.31	172.02	3,187.96	-183.98	25.78	24.72	0.00	0.00	0.00
3,300.00	8.31	172.02	3,286.91	-198.29	27.79	26.64	0.00	0.00	0.00
3,400.00	8.31	172.02	3,385.86	-212.61	29.79	28.57	0.00	0.00	0.00
3,500.00	8.31	172.02	3,484.81	-226.93	31.80	30.49	0.00	0.00	0.00
3,600.00	8.31	172.02	3,583.76	-241.24	33.80	32.41	0.00	0.00	0.00
3,700.00	8.31	172.02	3,682.71	-255.56	35.81	34.34	0.00	0.00	0.00
3,800.00	8.31	172.02	3,781.66	-269.87	37.82	36.26	0.00	0.00	0.00
3,900.00	8.31	172.02	3,880.61	-284.19	39.82	38.19	0.00	0.00	0.00
4,000.00	8.31	172.02	3,979.56	-298.50	41.83	40.11	0.00	0.00	0.00
4,100.00	8.31	172.02	4,078.51	-312.82	43.83	42.03	0.00	0.00	0.00
4,200.00	8.31	172.02	4,177.46	-327.14	45.84	43.96	0.00	0.00	0.00
4,300.00	8.31	172.02	4,276.41	-341.45	47.85	45.88	0.00	0.00	0.00
4,400.00	8.31	172.02	4,375.36	-355.77	49.85	47.80	0.00	0.00	0.00
4,500.00	8.31	172.02	4,474.31	-370.08	51.86	49.73	0.00	0.00	0.00
4,600.00	8.31	172.02	4,573.26	-384.40	53.87	51.65	0.00	0.00	0.00
4,700.00	8.31	172.02	4,672.21	-398.71	55.87	53.57	0.00	0.00	0.00
4,800.00	8.31	172.02	4,771.16	-413.03	57.88	55.50	0.00	0.00	0.00
4,900.00	8.31	172.02	4,870.11	-427.35	59.88	57.42	0.00	0.00	0.00
5,000.00	8.31	172.02	4,969.06	-441.66	61.89	59.34	0.00	0.00	0.00
5,100.00	8.31	172.02	5,068.01	-455.98	63.90	61.27	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
Company:	Matador Resources	TVD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Project:	Eddy County, NM (NAD27)	MD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Site:	Ches Riddle Com	North Reference:	Grid
Well:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Ches R. #205H Prelim A		

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)
5,200.00	8.31	172.02	5,166.96	-470.29	65.90	63.19	0.00	0.00	0.00
5,300.00	8.31	172.02	5,265.91	-484.61	67.91	65.12	0.00	0.00	0.00
5,400.00	8.31	172.02	5,364.85	-498.92	69.91	67.04	0.00	0.00	0.00
5,500.00	8.31	172.02	5,463.80	-513.24	71.92	68.96	0.00	0.00	0.00
5,600.00	8.31	172.02	5,562.75	-527.56	73.93	70.89	0.00	0.00	0.00
5,700.00	8.31	172.02	5,661.70	-541.87	75.93	72.81	0.00	0.00	0.00
5,800.00	8.31	172.02	5,760.65	-556.19	77.94	74.73	0.00	0.00	0.00
5,900.00	8.31	172.02	5,859.60	-570.50	79.94	76.66	0.00	0.00	0.00
5,989.17	8.31	172.02	5,947.84	-583.27	81.73	78.37	0.00	0.00	0.00
Start Drop -1.50									
6,000.00	8.15	172.02	5,958.56	-584.80	81.95	78.58	1.50	-1.50	0.00
6,100.00	6.65	172.02	6,057.72	-597.56	83.73	80.29	1.50	-1.50	0.00
6,200.00	5.15	172.02	6,157.19	-607.73	85.16	81.66	1.50	-1.50	0.00
6,300.00	3.65	172.02	6,256.89	-615.33	86.23	82.68	1.50	-1.50	0.00
6,400.00	2.15	172.02	6,356.76	-620.34	86.93	83.35	1.50	-1.50	0.00
6,500.00	0.65	172.02	6,456.73	-622.76	87.27	83.68	1.50	-1.50	0.00
6,543.27	0.00	0.01	6,500.00	-623.00	87.30	83.71	1.50	-1.50	0.00
6,600.00	0.00	0.00	6,556.73	-623.00	87.30	83.71	0.00	0.00	0.00
6,700.00	0.00	0.00	6,656.73	-623.00	87.30	83.71	0.00	0.00	0.00
6,800.00	0.00	0.00	6,756.73	-623.00	87.30	83.71	0.00	0.00	0.00
6,900.00	0.00	0.00	6,856.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,000.00	0.00	0.00	6,956.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,100.00	0.00	0.00	7,056.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,200.00	0.00	0.00	7,156.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,300.00	0.00	0.00	7,256.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,400.00	0.00	0.00	7,356.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,500.00	0.00	0.00	7,456.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,600.00	0.00	0.00	7,556.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,700.00	0.00	0.00	7,656.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,800.00	0.00	0.00	7,756.73	-623.00	87.30	83.71	0.00	0.00	0.00
7,900.00	0.00	0.00	7,856.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,000.00	0.00	0.00	7,956.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,100.00	0.00	0.00	8,056.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,200.00	0.00	0.00	8,156.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,300.00	0.00	0.00	8,256.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,400.00	0.00	0.00	8,356.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,500.00	0.00	0.00	8,456.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,600.00	0.00	0.00	8,556.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,700.00	0.00	0.00	8,656.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,800.00	0.00	0.00	8,756.73	-623.00	87.30	83.71	0.00	0.00	0.00
8,900.00	0.00	0.00	8,856.73	-623.00	87.30	83.71	0.00	0.00	0.00
9,000.00	0.00	0.00	8,956.73	-623.00	87.30	83.71	0.00	0.00	0.00
9,100.00	0.00	0.00	9,056.73	-623.00	87.30	83.71	0.00	0.00	0.00
9,194.31	0.00	0.00	9,151.04	-623.00	87.30	83.71	0.00	0.00	0.00
KOP: DLS 10.00 TFO 89.67									
9,200.00	0.57	89.67	9,156.73	-623.00	87.33	83.74	9.99	9.99	0.00
9,250.00	5.57	89.67	9,206.64	-622.98	90.00	86.41	10.00	10.00	0.00
9,300.00	10.57	89.67	9,256.13	-622.94	97.02	93.43	10.00	10.00	0.00
9,350.00	15.57	89.67	9,304.82	-622.88	108.32	104.73	10.00	10.00	0.00
9,400.00	20.57	89.67	9,352.34	-622.79	123.82	120.23	10.00	10.00	0.00
9,450.00	25.57	89.67	9,398.32	-622.67	143.41	139.82	10.00	10.00	0.00
9,500.00	30.57	89.67	9,442.43	-622.54	166.93	163.34	10.00	10.00	0.00
9,550.00	35.57	89.67	9,484.32	-622.38	194.20	190.61	10.00	10.00	0.00
9,600.00	40.57	89.67	9,523.67	-622.20	225.02	221.43	10.00	10.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
Company:	Matador Resources	TVD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Project:	Eddy County, NM (NAD27)	MD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Site:	Ches Riddle Com	North Reference:	Grid
Well:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Ches R. #205H Prelim A		

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)
9,650.00	45.57	89.67	9,560.18	-622.00	259.15	255.57	10.00	10.00	0.00
9,700.00	50.57	89.67	9,593.58	-621.78	296.34	292.75	10.00	10.00	0.00
9,750.00	55.57	89.67	9,623.62	-621.55	336.29	332.71	10.00	10.00	0.00
9,800.00	60.57	89.67	9,650.05	-621.30	378.71	375.13	10.00	10.00	0.00
9,850.00	65.57	89.67	9,672.69	-621.04	423.27	419.69	10.00	10.00	0.00
9,900.00	70.57	89.67	9,691.36	-620.77	469.64	466.06	10.00	10.00	0.00
9,950.00	75.57	89.67	9,705.92	-620.49	517.46	513.87	10.00	10.00	0.00
10,000.00	80.57	89.67	9,716.25	-620.20	566.36	562.78	10.00	10.00	0.00
10,050.00	85.57	89.67	9,722.29	-619.91	615.98	612.40	10.00	10.00	0.00
10,094.31	90.00	89.67	9,724.00	-619.66	660.24	656.66	10.00	10.00	0.00
Land: 9724.00 TVD									
10,100.00	90.00	89.67	9,724.00	-619.62	665.93	662.35	0.01	0.01	0.00
10,200.00	90.00	89.67	9,724.00	-619.04	765.93	762.35	0.00	0.00	0.00
10,300.00	90.00	89.67	9,724.00	-618.46	865.93	862.35	0.00	0.00	0.00
10,400.00	90.00	89.67	9,724.00	-617.87	965.93	962.35	0.00	0.00	0.00
10,500.00	90.00	89.67	9,724.00	-617.29	1,065.93	1,062.35	0.00	0.00	0.00
10,600.00	90.00	89.67	9,724.00	-616.70	1,165.92	1,162.35	0.00	0.00	0.00
10,700.00	90.00	89.67	9,724.00	-616.12	1,265.92	1,262.35	0.00	0.00	0.00
10,800.00	90.00	89.67	9,724.00	-615.54	1,365.92	1,362.35	0.00	0.00	0.00
10,900.00	90.00	89.67	9,724.00	-614.95	1,465.92	1,462.35	0.00	0.00	0.00
11,000.00	90.00	89.67	9,724.00	-614.37	1,565.92	1,562.35	0.00	0.00	0.00
11,100.00	90.00	89.67	9,724.00	-613.79	1,665.92	1,662.35	0.00	0.00	0.00
11,200.00	90.00	89.67	9,724.00	-613.20	1,765.91	1,762.35	0.00	0.00	0.00
11,300.00	90.00	89.67	9,724.00	-612.62	1,865.91	1,862.35	0.00	0.00	0.00
11,400.00	90.00	89.67	9,724.00	-612.04	1,965.91	1,962.35	0.00	0.00	0.00
11,500.00	90.00	89.67	9,724.00	-611.45	2,065.91	2,062.35	0.00	0.00	0.00
11,600.00	90.00	89.67	9,724.00	-610.87	2,165.91	2,162.35	0.00	0.00	0.00
11,700.00	90.00	89.67	9,724.00	-610.29	2,265.91	2,262.35	0.00	0.00	0.00
11,800.00	90.00	89.67	9,724.00	-609.70	2,365.90	2,362.35	0.00	0.00	0.00
11,900.00	90.00	89.67	9,724.00	-609.12	2,465.90	2,462.35	0.00	0.00	0.00
12,000.00	90.00	89.67	9,724.00	-608.53	2,565.90	2,562.35	0.00	0.00	0.00
12,100.00	90.00	89.67	9,724.00	-607.95	2,665.90	2,662.35	0.00	0.00	0.00
12,200.00	90.00	89.67	9,724.00	-607.37	2,765.90	2,762.35	0.00	0.00	0.00
12,300.00	90.00	89.67	9,724.00	-606.78	2,865.90	2,862.35	0.00	0.00	0.00
12,400.00	90.00	89.67	9,724.00	-606.20	2,965.89	2,962.35	0.00	0.00	0.00
12,500.00	90.00	89.67	9,724.00	-605.62	3,065.89	3,062.35	0.00	0.00	0.00
12,600.00	90.00	89.67	9,724.00	-605.03	3,165.89	3,162.35	0.00	0.00	0.00
12,700.00	90.00	89.67	9,724.00	-604.45	3,265.89	3,262.35	0.00	0.00	0.00
12,800.00	90.00	89.67	9,724.00	-603.87	3,365.89	3,362.35	0.00	0.00	0.00
12,900.00	90.00	89.67	9,724.00	-603.28	3,465.89	3,462.35	0.00	0.00	0.00
13,000.00	90.00	89.67	9,724.00	-602.70	3,565.88	3,562.35	0.00	0.00	0.00
13,100.00	90.00	89.67	9,724.00	-602.11	3,665.88	3,662.35	0.00	0.00	0.00
13,200.00	90.00	89.67	9,724.00	-601.53	3,765.88	3,762.35	0.00	0.00	0.00
13,300.00	90.00	89.67	9,724.00	-600.95	3,865.88	3,862.35	0.00	0.00	0.00
13,400.00	90.00	89.67	9,724.00	-600.36	3,965.88	3,962.35	0.00	0.00	0.00
13,500.00	90.00	89.67	9,724.00	-599.78	4,065.88	4,062.35	0.00	0.00	0.00
13,600.00	90.00	89.67	9,724.00	-599.20	4,165.87	4,162.35	0.00	0.00	0.00
13,700.00	90.00	89.67	9,724.00	-598.61	4,265.87	4,262.35	0.00	0.00	0.00
13,800.00	90.00	89.67	9,724.00	-598.03	4,365.87	4,362.35	0.00	0.00	0.00
13,900.00	90.00	89.67	9,724.00	-597.45	4,465.87	4,462.35	0.00	0.00	0.00
14,000.00	90.00	89.67	9,724.00	-596.86	4,565.87	4,562.35	0.00	0.00	0.00
14,100.00	90.00	89.67	9,724.00	-596.28	4,665.87	4,662.35	0.00	0.00	0.00
14,200.00	90.00	89.67	9,724.00	-595.70	4,765.86	4,762.35	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #205H
Company:	Matador Resources	TVD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Project:	Eddy County, NM (NAD27)	MD Reference:	2980 + 28.5 = KB @ 3008.50usft (Patt 274)
Site:	Ches Riddle Com	North Reference:	Grid
Well:	#205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Ches R. #205H Prelim A		

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)
14,300.00	90.00	89.67	9,724.00	-595.11	4,865.86	4,862.35	0.00	0.00	0.00
14,400.00	90.00	89.67	9,724.00	-594.53	4,965.86	4,962.35	0.00	0.00	0.00
14,500.00	90.00	89.67	9,724.00	-593.94	5,065.86	5,062.35	0.00	0.00	0.00
14,600.00	90.00	89.67	9,724.00	-593.36	5,165.86	5,162.35	0.00	0.00	0.00
14,700.00	90.00	89.67	9,724.00	-592.78	5,265.85	5,262.35	0.00	0.00	0.00
14,800.00	90.00	89.67	9,724.00	-592.19	5,365.85	5,362.35	0.00	0.00	0.00
14,833.15	90.00	89.67	9,724.00	-592.00	5,399.00	5,395.50	0.00	0.00	0.00
TD at 14833.15									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FPP (Ches R. #205H)	0.00	0.01	0.00	-619.00	667.00	455,309.00	588,230.00	32.251439	-104.047935
- plan misses target center by 909.97usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
BHL (Ches R. #205H)	0.00	0.00	9,724.00	-592.00	5,399.00	455,336.00	592,962.00	32.251478	-104.032628
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	Start Build 1.00
5,989.17	5,947.84	-59.60	8.35	Start Drop -1.50
9,194.31	9,151.04	-583.27	81.73	KOP: DLS 10.00 TFO 89.67
10,094.31	9,724.00	-623.00	87.30	Land: 9724.00 TVD
14,833.15	9,724.00	-623.00	87.30	TD at 14833.15