

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*Case Serial No.
NMLC064194

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2**HOBBS OCD**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

OCT 10 2018

8. Well Name and No.

VERNA RAE FED 134H

2. Name of Operator

MATADOR PRODUCTION COMPANY

Contact: TAMMY R LINK

Email: tlink@matadorresources.com

9. API Well No.

30-025-44342

3a. Address

5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)

Ph: 575-627-2465

10. Field and Pool or Exploratory Area

TEAS;BONE SPRING, EAST

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T20S R34E Mer NMP NWNE 260FNL 1725FEL

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM BOND No:NMB001079

Surety Bond No:RLB0015172

Please see attached directional plans that correspond with Electronic Submission
#00950-08903/Transaction #436555 that changes the BHL/LPP of the Verna Rae Fed Com #134H well.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #436943 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/27/2018 ()

Name (Printed/Typed) TAMMY R LINK

Title PRODUCTION ANALYST

Signature (Electronic Submission)

Date 09/25/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa HagueTitle Petroleum Engineer
Carlsbad Field OfficeDate 10-02-2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

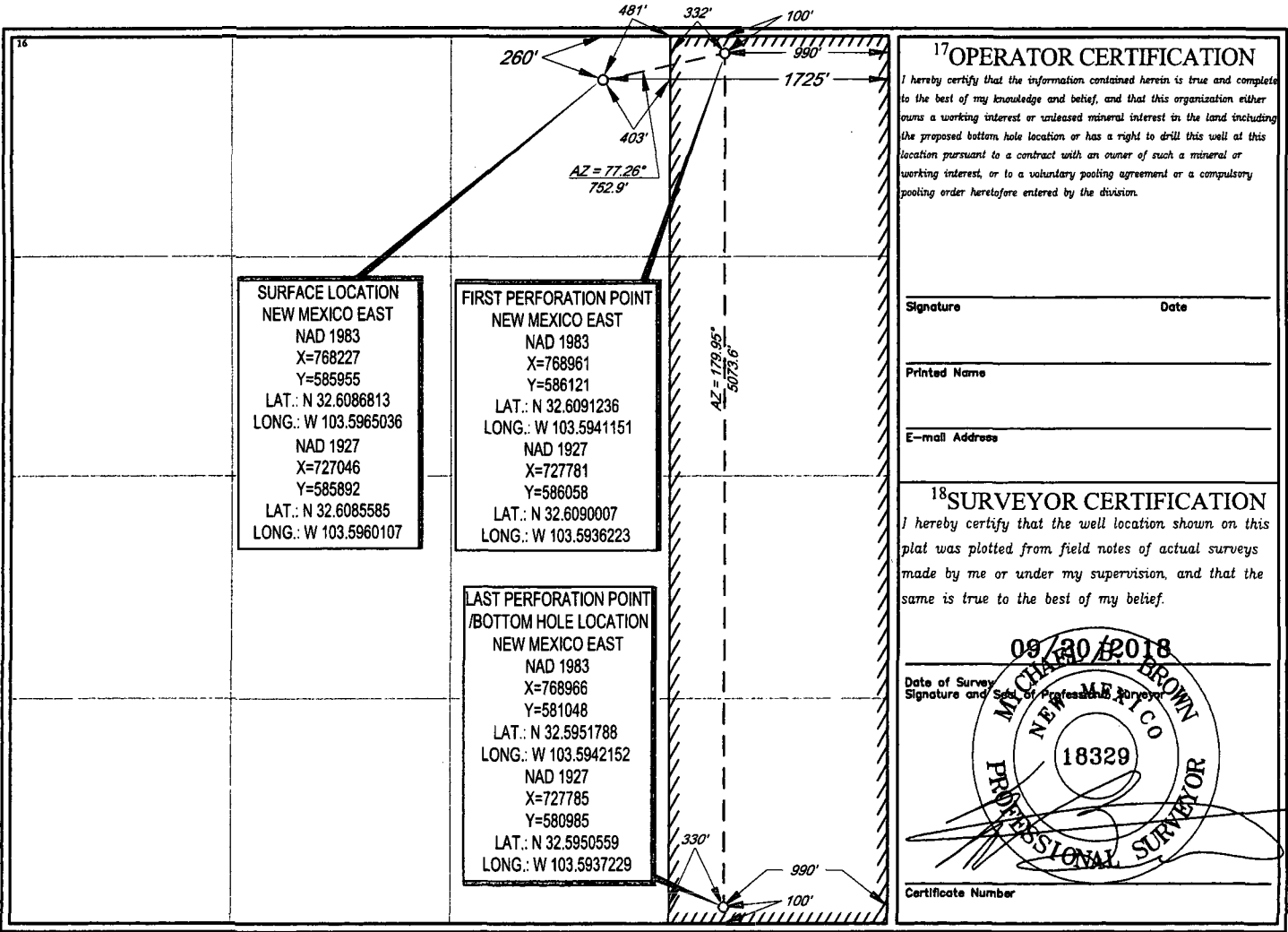
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name					
⁴ Property Code		⁵ Property Name VERNA RAE FED COM						⁶ Well Number #134H	
⁷ OGRID No.		⁸ Operator Name MATADOR PRODUCTION COMPANY						⁹ Elevation 3620'	
¹⁰ Surface Location									
UL or lot no. 2	Section 6	Township 20-S	Range 34-E	Lot Idn -	Feet from the 260'	North/South line NORTH	Feet from the 1725'	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. P	Section 6	Township 20-S	Range 34-E	Lot Idn -	Feet from the 100'	North/South line SOUTH	Feet from the 990'	East/West line EAST	County LEA
¹² Dedicated Acres 160		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.





Matador Resources
Lea County, NM (NAD27)
Verna Rae
134H
Plan #1
Patterson 809

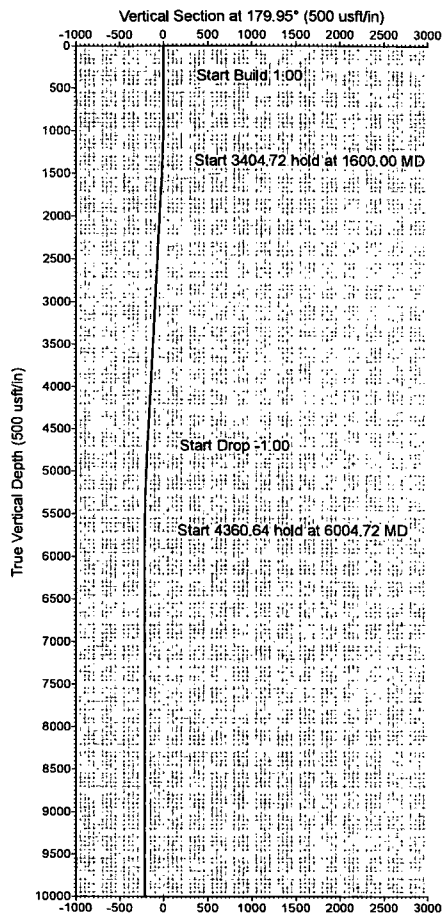


RKB Elevation: GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)

+N/-S 0.00 +E/-W 0.00 Northing 585892.00 Easting 727046.00 Latitude 32.808557 Longitude -103.598012 Slot

SECTION DETAILS- Lateral

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	
3	1600.00	10.00	73.61	1594.93	24.57	83.51	1.00	-24.49	
4	5004.72	10.00	73.61	4947.93	191.43	650.69	0.00	-190.88	
5	6004.72	0.00	0.00	5942.86	216.00	734.20	1.00	-215.36	
6	10365.36	0.00	0.00	10303.50	216.00	734.20	0.00	-215.36	
7	11176.29	89.20	179.95	10824.32	-297.62	734.68	11.00	-298.26	
8	15786.12	89.20	179.95	10886.50	-4907.00	739.00	0.00	4907.64	BHL - Verna 134H.v3



US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

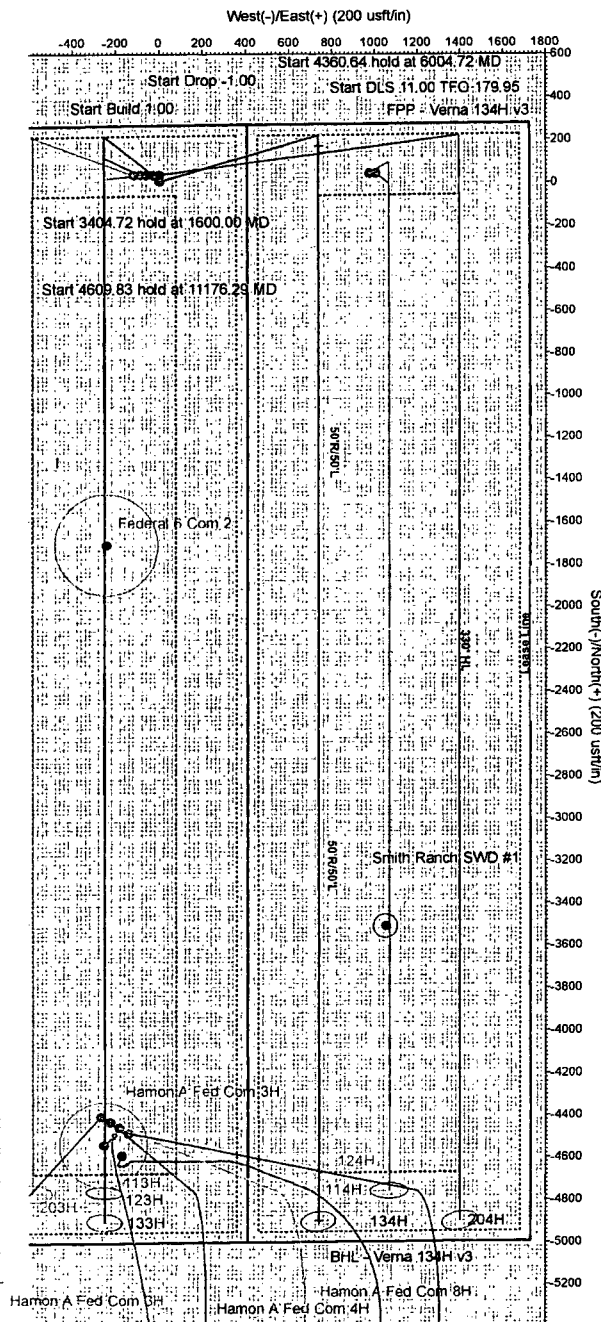
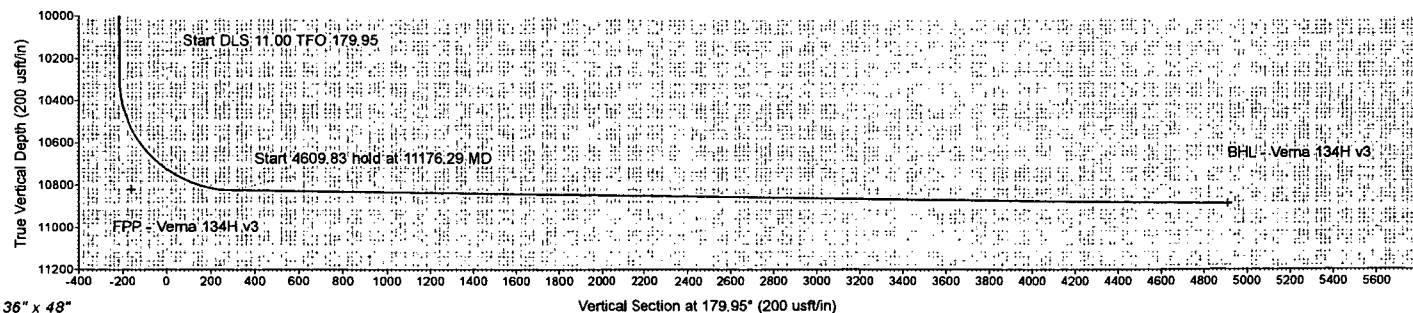
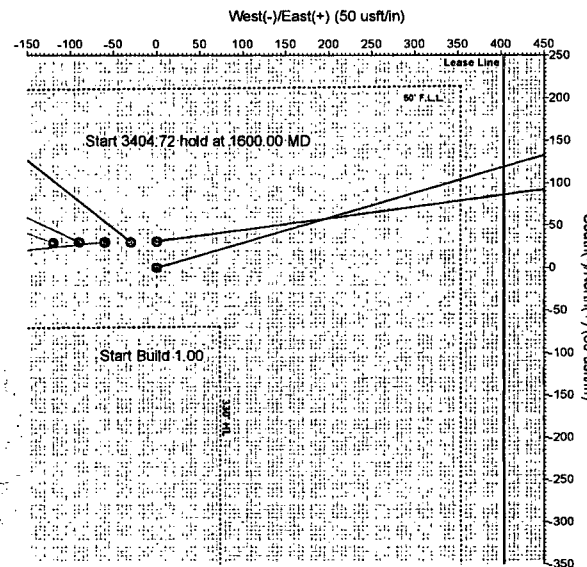


Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.27°
Magnetic Field
Strength: 48225.8nT
Dip Angle: 60.55°
Date: 9/26/2018
Model: HDGM

Azimuth Corrections

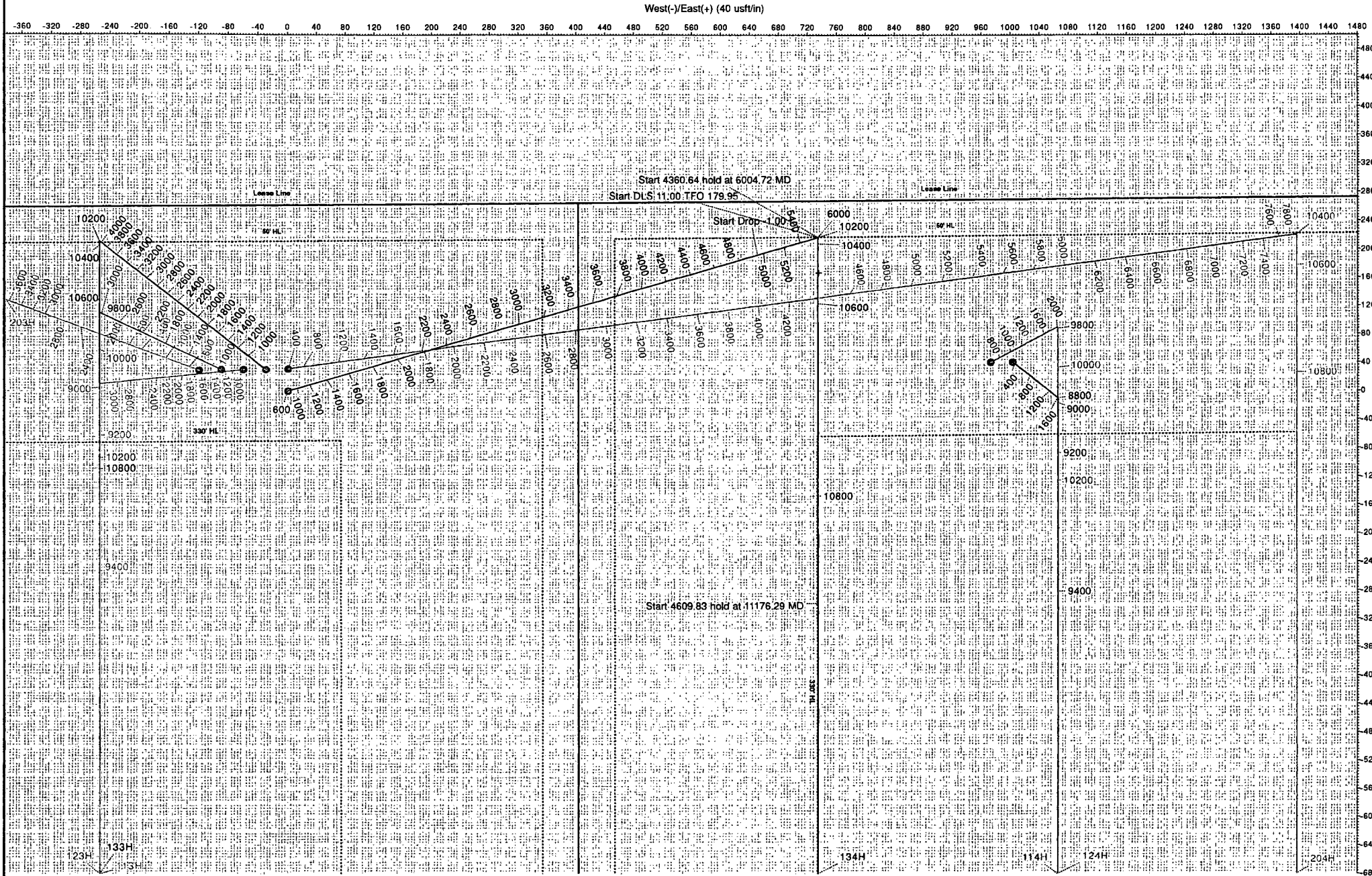
Total Magnetic Corr. (M to G): 6.27°

Declination (M to T): 6.67° East





Matador Resources
Lea County, NM (NAD27)
Verna Rae
134H
Plan #1
Patterson 809



Matador Resources

Lea County, NM (NAD27)

Verna Rae

204H

OH

Plan: Plan D

Standard Planning Report

21 September, 2018

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 204H
Company:	Matador Resources	TVD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Project:	Lea County, NM (NAD27)	MD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

Project	Lea 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	Verna Rae			
Site Position:		Northing:	585,923.00 usft	Latitude: 32.608643
From:	Map	Easting:	727,046.00 usft	Longitude: -103.596011
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.40 °

Well	204H			
Well Position	+N/-S	0.00 usft	Northing: 585,923.00 usft	Latitude: 32.608643
	+E/-W	0.00 usft	Easting: 727,046.00 usft	Longitude: -103.596011
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level: 3,620.00 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
	HDGM	9/26/2018	(°) 6.67	(°) 60.55
				Field Strength (nT) 48,225.80

Design	Plan D			
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Audit Notes:

Version:	Phase: PROTOTYPE	Tie On Depth: 0.00
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Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	179.95

Plan Survey Tool Program	Date 9/21/2018			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	15,952.38 Plan D (OH)	MWD+HDGM	
			OWSG MWD + HRGM	

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Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	12.00	82.28	1,491.25	16.82	124.07	1.00	1.00	0.00	82.28	
7,064.09	12.00	82.28	6,933.75	172.18	1,270.43	0.00	0.00	0.00	0.00	
8,264.09	0.00	0.00	8,124.99	189.00	1,394.50	1.00	-1.00	0.00	180.00	
10,533.60	0.00	0.00	10,394.50	189.00	1,394.50	0.00	0.00	0.00	0.00	
11,344.33	89.18	179.95	10,915.32	-324.42	1,394.95	11.00	11.00	22.20	179.95	
15,952.38	89.18	179.95	10,981.20	-4,932.00	1,399.00	0.00	0.00	0.00	0.00	BHL - Verna 204H

Pro Directional Planning Report

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Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

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	1.00	82.28	399.99	0.12	0.86	-0.12	1.00	1.00	0.00
500.00	2.00	82.28	499.96	0.47	3.46	-0.47	1.00	1.00	0.00
600.00	3.00	82.28	599.86	1.05	7.78	-1.05	1.00	1.00	0.00
700.00	4.00	82.28	699.68	1.87	13.83	-1.86	1.00	1.00	0.00
800.00	5.00	82.28	799.37	2.93	21.61	-2.91	1.00	1.00	0.00
900.00	6.00	82.28	898.90	4.22	31.10	-4.19	1.00	1.00	0.00
1,000.00	7.00	82.28	998.26	5.74	42.32	-5.70	1.00	1.00	0.00
1,100.00	8.00	82.28	1,097.40	7.49	55.25	-7.44	1.00	1.00	0.00
1,200.00	9.00	82.28	1,196.30	9.47	69.90	-9.41	1.00	1.00	0.00
1,300.00	10.00	82.28	1,294.93	11.69	86.26	-11.62	1.00	1.00	0.00
1,400.00	11.00	82.28	1,393.26	14.14	104.31	-14.05	1.00	1.00	0.00
1,500.00	12.00	82.28	1,491.25	16.82	124.07	-16.71	1.00	1.00	0.00
1,600.00	12.00	82.28	1,589.06	19.61	144.67	-19.48	0.00	0.00	0.00
1,700.00	12.00	82.28	1,686.88	22.40	165.28	-22.26	0.00	0.00	0.00
1,800.00	12.00	82.28	1,784.69	25.19	185.88	-25.03	0.00	0.00	0.00
1,900.00	12.00	82.28	1,882.51	27.98	206.48	-27.80	0.00	0.00	0.00
2,000.00	12.00	82.28	1,980.32	30.78	227.08	-30.58	0.00	0.00	0.00
2,100.00	12.00	82.28	2,078.13	33.57	247.69	-33.35	0.00	0.00	0.00
2,200.00	12.00	82.28	2,175.95	36.36	268.29	-36.13	0.00	0.00	0.00
2,300.00	12.00	82.28	2,273.76	39.15	288.89	-38.90	0.00	0.00	0.00
2,400.00	12.00	82.28	2,371.58	41.95	309.50	-41.68	0.00	0.00	0.00
2,500.00	12.00	82.28	2,469.39	44.74	330.10	-44.45	0.00	0.00	0.00
2,600.00	12.00	82.28	2,567.21	47.53	350.70	-47.23	0.00	0.00	0.00
2,700.00	12.00	82.28	2,665.02	50.32	371.30	-50.00	0.00	0.00	0.00
2,800.00	12.00	82.28	2,762.84	53.12	391.91	-52.77	0.00	0.00	0.00
2,900.00	12.00	82.28	2,860.65	55.91	412.51	-55.55	0.00	0.00	0.00
3,000.00	12.00	82.28	2,958.47	58.70	433.11	-58.32	0.00	0.00	0.00
3,100.00	12.00	82.28	3,056.28	61.49	453.72	-61.10	0.00	0.00	0.00
3,200.00	12.00	82.28	3,154.10	64.29	474.32	-63.87	0.00	0.00	0.00
3,300.00	12.00	82.28	3,251.91	67.08	494.92	-66.65	0.00	0.00	0.00
3,400.00	12.00	82.28	3,349.73	69.87	515.52	-69.42	0.00	0.00	0.00
3,500.00	12.00	82.28	3,447.54	72.66	536.13	-72.19	0.00	0.00	0.00
3,600.00	12.00	82.28	3,545.36	75.45	556.73	-74.97	0.00	0.00	0.00
3,700.00	12.00	82.28	3,643.17	78.25	577.33	-77.74	0.00	0.00	0.00
3,800.00	12.00	82.28	3,740.99	81.04	597.94	-80.52	0.00	0.00	0.00
3,900.00	12.00	82.28	3,838.80	83.83	618.54	-83.29	0.00	0.00	0.00
4,000.00	12.00	82.28	3,936.62	86.62	639.14	-86.07	0.00	0.00	0.00
4,100.00	12.00	82.28	4,034.43	89.42	659.74	-88.84	0.00	0.00	0.00
4,200.00	12.00	82.28	4,132.24	92.21	680.35	-91.62	0.00	0.00	0.00
4,300.00	12.00	82.28	4,230.06	95.00	700.95	-94.39	0.00	0.00	0.00
4,400.00	12.00	82.28	4,327.87	97.79	721.55	-97.16	0.00	0.00	0.00
4,500.00	12.00	82.28	4,425.69	100.59	742.15	-99.94	0.00	0.00	0.00
4,600.00	12.00	82.28	4,523.50	103.38	762.76	-102.71	0.00	0.00	0.00
4,700.00	12.00	82.28	4,621.32	106.17	783.36	-105.49	0.00	0.00	0.00
4,800.00	12.00	82.28	4,719.13	108.96	803.96	-108.26	0.00	0.00	0.00
4,900.00	12.00	82.28	4,816.95	111.76	824.57	-111.04	0.00	0.00	0.00
5,000.00	12.00	82.28	4,914.76	114.55	845.17	-113.81	0.00	0.00	0.00
5,100.00	12.00	82.28	5,012.58	117.34	865.77	-116.58	0.00	0.00	0.00

Pro Directional Planning Report

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Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

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	12.00	82.28	5,110.39	120.13	886.37	-119.36	0.00	0.00	0.00
5,300.00	12.00	82.28	5,208.21	122.92	906.98	-122.13	0.00	0.00	0.00
5,400.00	12.00	82.28	5,306.02	125.72	927.58	-124.91	0.00	0.00	0.00
5,500.00	12.00	82.28	5,403.84	128.51	948.18	-127.68	0.00	0.00	0.00
5,600.00	12.00	82.28	5,501.65	131.30	968.79	-130.46	0.00	0.00	0.00
5,700.00	12.00	82.28	5,599.47	134.09	989.39	-133.23	0.00	0.00	0.00
5,800.00	12.00	82.28	5,697.28	136.89	1,009.99	-136.01	0.00	0.00	0.00
5,900.00	12.00	82.28	5,795.10	139.68	1,030.59	-138.78	0.00	0.00	0.00
6,000.00	12.00	82.28	5,892.91	142.47	1,051.20	-141.55	0.00	0.00	0.00
6,100.00	12.00	82.28	5,990.73	145.26	1,071.80	-144.33	0.00	0.00	0.00
6,200.00	12.00	82.28	6,088.54	148.06	1,092.40	-147.10	0.00	0.00	0.00
6,300.00	12.00	82.28	6,186.35	150.85	1,113.01	-149.88	0.00	0.00	0.00
6,400.00	12.00	82.28	6,284.17	153.64	1,133.61	-152.65	0.00	0.00	0.00
6,500.00	12.00	82.28	6,381.98	156.43	1,154.21	-155.43	0.00	0.00	0.00
6,600.00	12.00	82.28	6,479.80	159.23	1,174.81	-158.20	0.00	0.00	0.00
6,700.00	12.00	82.28	6,577.61	162.02	1,195.42	-160.97	0.00	0.00	0.00
6,800.00	12.00	82.28	6,675.43	164.81	1,216.02	-163.75	0.00	0.00	0.00
6,900.00	12.00	82.28	6,773.24	167.60	1,236.62	-166.52	0.00	0.00	0.00
7,000.00	12.00	82.28	6,871.06	170.39	1,257.22	-169.30	0.00	0.00	0.00
7,064.09	12.00	82.28	6,933.75	172.18	1,270.43	-171.08	0.00	0.00	0.00
7,100.00	11.64	82.28	6,968.90	173.17	1,277.72	-172.06	1.00	-1.00	0.00
7,200.00	10.64	82.28	7,067.01	175.77	1,296.87	-174.64	1.00	-1.00	0.00
7,300.00	9.64	82.28	7,165.45	178.13	1,314.31	-176.99	1.00	-1.00	0.00
7,400.00	8.64	82.28	7,264.18	180.27	1,330.05	-179.10	1.00	-1.00	0.00
7,500.00	7.64	82.28	7,363.17	182.17	1,344.09	-180.99	1.00	-1.00	0.00
7,600.00	6.64	82.28	7,462.39	183.84	1,356.41	-182.65	1.00	-1.00	0.00
7,700.00	5.64	82.28	7,561.81	185.27	1,367.01	-184.08	1.00	-1.00	0.00
7,800.00	4.64	82.28	7,661.41	186.48	1,375.89	-185.28	1.00	-1.00	0.00
7,900.00	3.64	82.28	7,761.15	187.45	1,383.04	-186.24	1.00	-1.00	0.00
8,000.00	2.64	82.28	7,861.00	188.18	1,388.47	-186.97	1.00	-1.00	0.00
8,100.00	1.64	82.28	7,960.93	188.68	1,392.17	-187.47	1.00	-1.00	0.00
8,200.00	0.64	82.28	8,060.91	188.95	1,394.14	-187.74	1.00	-1.00	0.00
8,264.09	0.00	0.00	8,124.99	189.00	1,394.50	-187.78	1.00	-1.00	0.00
8,300.00	0.00	0.00	8,160.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,400.00	0.00	0.00	8,260.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,500.00	0.00	0.00	8,360.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,600.00	0.00	0.00	8,460.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,700.00	0.00	0.00	8,560.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,800.00	0.00	0.00	8,660.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
8,900.00	0.00	0.00	8,760.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,000.00	0.00	0.00	8,860.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,100.00	0.00	0.00	8,960.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,200.00	0.00	0.00	9,060.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,300.00	0.00	0.00	9,160.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,400.00	0.00	0.00	9,260.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,500.00	0.00	0.00	9,360.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,600.00	0.00	0.00	9,460.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,700.00	0.00	0.00	9,560.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,800.00	0.00	0.00	9,660.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
9,900.00	0.00	0.00	9,760.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,000.00	0.00	0.00	9,860.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,100.00	0.00	0.00	9,960.90	189.00	1,394.50	-187.78	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 204H
Company:	Matador Resources	TVD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Project:	Lea County, NM (NAD27)	MD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.00	0.00	0.00	10,060.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,300.00	0.00	0.00	10,160.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,400.00	0.00	0.00	10,260.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,500.00	0.00	0.00	10,360.90	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,533.60	0.00	0.00	10,394.50	189.00	1,394.50	-187.78	0.00	0.00	0.00
10,550.00	1.80	179.95	10,410.90	188.74	1,394.50	-187.52	11.00	11.00	0.00
10,600.00	7.30	179.95	10,460.72	184.77	1,394.50	-183.56	11.00	11.00	0.00
10,650.00	12.80	179.95	10,509.94	176.05	1,394.51	-174.83	11.00	11.00	0.00
10,700.00	18.30	179.95	10,558.09	162.64	1,394.52	-161.43	11.00	11.00	0.00
10,750.00	23.80	179.95	10,604.73	144.69	1,394.54	-143.47	11.00	11.00	0.00
10,800.00	29.30	179.95	10,649.44	122.35	1,394.56	-121.13	11.00	11.00	0.00
10,850.00	34.80	179.95	10,691.80	95.82	1,394.58	-94.60	11.00	11.00	0.00
10,900.00	40.30	179.95	10,731.42	65.35	1,394.61	-64.14	11.00	11.00	0.00
10,950.00	45.80	179.95	10,767.95	31.23	1,394.64	-30.02	11.00	11.00	0.00
11,000.00	51.30	179.95	10,801.03	-6.23	1,394.67	7.45	11.00	11.00	0.00
11,050.00	56.80	179.95	10,830.37	-46.69	1,394.71	47.91	11.00	11.00	0.00
11,100.00	62.30	179.95	10,855.69	-89.78	1,394.75	91.00	11.00	11.00	0.00
11,150.00	67.80	179.95	10,876.77	-135.10	1,394.78	136.32	11.00	11.00	0.00
11,200.00	73.30	179.95	10,893.41	-182.23	1,394.83	183.45	11.00	11.00	0.00
11,250.00	78.80	179.95	10,905.46	-230.74	1,394.87	231.96	11.00	11.00	0.00
11,300.00	84.30	179.95	10,912.80	-280.18	1,394.91	281.39	11.00	11.00	0.00
11,344.33	89.18	179.95	10,915.32	-324.42	1,394.95	325.64	11.00	11.00	0.00
11,400.00	89.18	179.95	10,916.11	-380.09	1,395.00	381.30	0.00	0.00	0.00
11,500.00	89.18	179.95	10,917.54	-480.08	1,395.09	481.29	0.00	0.00	0.00
11,600.00	89.18	179.95	10,918.97	-580.07	1,395.18	581.28	0.00	0.00	0.00
11,700.00	89.18	179.95	10,920.40	-680.06	1,395.26	681.27	0.00	0.00	0.00
11,800.00	89.18	179.95	10,921.83	-780.05	1,395.35	781.26	0.00	0.00	0.00
11,900.00	89.18	179.95	10,923.26	-880.04	1,395.44	881.25	0.00	0.00	0.00
12,000.00	89.18	179.95	10,924.69	-980.03	1,395.53	981.24	0.00	0.00	0.00
12,100.00	89.18	179.95	10,926.12	-1,080.02	1,395.62	1,081.23	0.00	0.00	0.00
12,200.00	89.18	179.95	10,927.55	-1,180.00	1,395.70	1,181.22	0.00	0.00	0.00
12,300.00	89.18	179.95	10,928.98	-1,279.99	1,395.79	1,281.21	0.00	0.00	0.00
12,400.00	89.18	179.95	10,930.41	-1,379.98	1,395.88	1,381.20	0.00	0.00	0.00
12,500.00	89.18	179.95	10,931.84	-1,479.97	1,395.97	1,481.19	0.00	0.00	0.00
12,600.00	89.18	179.95	10,933.27	-1,579.96	1,396.05	1,581.18	0.00	0.00	0.00
12,700.00	89.18	179.95	10,934.70	-1,679.95	1,396.14	1,681.17	0.00	0.00	0.00
12,800.00	89.18	179.95	10,936.13	-1,779.94	1,396.23	1,781.16	0.00	0.00	0.00
12,900.00	89.18	179.95	10,937.56	-1,879.93	1,396.32	1,881.15	0.00	0.00	0.00
13,000.00	89.18	179.95	10,938.99	-1,979.92	1,396.41	1,981.14	0.00	0.00	0.00
13,100.00	89.18	179.95	10,940.42	-2,079.91	1,396.49	2,081.13	0.00	0.00	0.00
13,200.00	89.18	179.95	10,941.85	-2,179.90	1,396.58	2,181.12	0.00	0.00	0.00
13,300.00	89.18	179.95	10,943.28	-2,279.89	1,396.67	2,281.11	0.00	0.00	0.00
13,400.00	89.18	179.95	10,944.71	-2,379.88	1,396.76	2,381.10	0.00	0.00	0.00
13,500.00	89.18	179.95	10,946.14	-2,479.87	1,396.85	2,481.09	0.00	0.00	0.00
13,600.00	89.18	179.95	10,947.57	-2,579.86	1,396.93	2,581.08	0.00	0.00	0.00
13,700.00	89.18	179.95	10,949.00	-2,679.85	1,397.02	2,681.07	0.00	0.00	0.00
13,800.00	89.18	179.95	10,950.43	-2,779.84	1,397.11	2,781.06	0.00	0.00	0.00
13,900.00	89.18	179.95	10,951.86	-2,879.83	1,397.20	2,881.05	0.00	0.00	0.00
14,000.00	89.18	179.95	10,953.29	-2,979.82	1,397.28	2,981.04	0.00	0.00	0.00
14,100.00	89.18	179.95	10,954.72	-3,079.81	1,397.37	3,081.03	0.00	0.00	0.00
14,200.00	89.18	179.95	10,956.15	-3,179.80	1,397.46	3,181.02	0.00	0.00	0.00
14,300.00	89.18	179.95	10,957.58	-3,279.79	1,397.55	3,281.01	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 204H
Company:	Matador Resources	TVD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Project:	Lea County, NM (NAD27)	MD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

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)
14,400.00	89.18	179.95	10,959.01	-3,379.78	1,397.64	3,381.00	0.00	0.00	0.00
14,500.00	89.18	179.95	10,960.44	-3,479.77	1,397.72	3,480.99	0.00	0.00	0.00
14,600.00	89.18	179.95	10,961.86	-3,579.76	1,397.81	3,580.98	0.00	0.00	0.00
14,700.00	89.18	179.95	10,963.29	-3,679.75	1,397.90	3,680.97	0.00	0.00	0.00
14,800.00	89.18	179.95	10,964.72	-3,779.74	1,397.99	3,780.96	0.00	0.00	0.00
14,900.00	89.18	179.95	10,966.15	-3,879.73	1,398.08	3,880.95	0.00	0.00	0.00
15,000.00	89.18	179.95	10,967.58	-3,979.72	1,398.16	3,980.94	0.00	0.00	0.00
15,100.00	89.18	179.95	10,969.01	-4,079.71	1,398.25	4,080.93	0.00	0.00	0.00
15,200.00	89.18	179.95	10,970.44	-4,179.70	1,398.34	4,180.92	0.00	0.00	0.00
15,300.00	89.18	179.95	10,971.87	-4,279.69	1,398.43	4,280.91	0.00	0.00	0.00
15,400.00	89.18	179.95	10,973.30	-4,379.68	1,398.51	4,380.90	0.00	0.00	0.00
15,500.00	89.18	179.95	10,974.73	-4,479.67	1,398.60	4,480.89	0.00	0.00	0.00
15,600.00	89.18	179.95	10,976.16	-4,579.66	1,398.69	4,580.88	0.00	0.00	0.00
15,700.00	89.18	179.95	10,977.59	-4,679.65	1,398.78	4,680.86	0.00	0.00	0.00
15,800.00	89.18	179.95	10,979.02	-4,779.64	1,398.87	4,780.85	0.00	0.00	0.00
15,900.00	89.18	179.95	10,980.45	-4,879.63	1,398.95	4,880.84	0.00	0.00	0.00
15,952.38	89.18	179.95	10,981.20	-4,932.00	1,399.00	4,933.22	0.00	0.00	0.00

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 - Verna 204H v2	0.00	0.00	10,936.50	141.00	1,395.00	586,064.00	728,441.00	32.609004	-103.591478
- plan misses target center by 198.42usft at 10979.30usft MD (10787.77 TVD, 9.66 N, 1394.66 E)									
- Point									
FPP - Verna 204H	0.00	0.00	10,936.50	-95.00	735.00	585,828.00	727,781.00	32.608368	-103.593627
- plan misses target center by 663.55usft at 11138.30usft MD (10872.23 TVD, -124.32 N, 1394.78 E)									
- Point									
2000' VS - Verna 204H	0.00	0.00	10,947.00	-1,999.36	736.78	583,923.64	727,782.78	32.603133	-103.593664
- plan misses target center by 659.69usft at 13018.97usft MD (10939.26 TVD, -1998.89 N, 1396.42 E)									
- Point									
BHL - Verna 204H v2	0.00	0.00	10,981.20	-4,932.00	1,399.00	580,991.00	728,445.00	32.595060	-103.591580
- plan hits target center									
- Point									
LPP - Verna 204H	0.00	0.00	10,981.20	-4,708.00	739.00	581,215.00	727,785.00	32.595688	-103.593718
- plan misses target center by 659.81usft at 15727.82usft MD (10977.99 TVD, -4707.47 N, 1398.80 E)									
- Point									
BHL - Verna 204H	0.00	0.00	10,981.20	-4,798.00	739.00	581,125.00	727,785.00	32.595441	-103.593720
- plan misses target center by 659.88usft at 15817.81usft MD (10979.28 TVD, -4797.45 N, 1398.88 E)									
- Point									

Pro Directional

Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 204H
Company:	Matador Resources	TVD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Project:	Lea County, NM (NAD27)	MD Reference:	GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)
Site:	Verna Rae	North Reference:	Grid
Well:	204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan D		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	599.86	1.05	7.78	Start Build 1.00
1,800.00	1,784.69	25.19	185.88	Start 5564.09 hold at 1800.00 MD
7,364.09	7,228.69	179.53	1,324.60	Start Drop -1.00
8,564.09	8,424.99	189.00	1,394.50	Start 1969.51 hold at 8564.09 MD
10,533.60	10,394.50	189.00	1,394.50	Start DLS 11.00 TFO 179.95
11,344.33	10,915.32	-324.42	1,394.95	Start 4608.05 hold at 11344.33 MD
15,952.38	10,981.20	-4,932.00	1,399.00	TD at 15952.38