

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.*5. Lease Serial No.
NMLC064194

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

VERNA RAE FED 204H

2. Name of Operator

MATADOR PRODUCTION COMPANY

Contact: TAMMY R LINK

Email: tlink@matadorresources.com

9. API Well No.

30-025-44494

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 230FNL 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 C-102 changing the BHL/LPP location from 240' FSL and 990' FEL to 100' FSL and 330' FEL.

See attached C-102.

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

**Electronic Submission #436562 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 09/21/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Mustafa Hague</u>	Title <u>Petroleum Engineer</u>	Date <u>9/28/2018</u>
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.	Office <u>Carlsbad Field Office</u>	

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 ****

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44494		² Pool Code 59500	³ Pool Name TONTO; WOLFCAMP	
⁴ Property Code 320548	⁵ Property Name VERNA RAE FED COM			⁶ Well Number #204H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3620'

¹⁰Surface Location

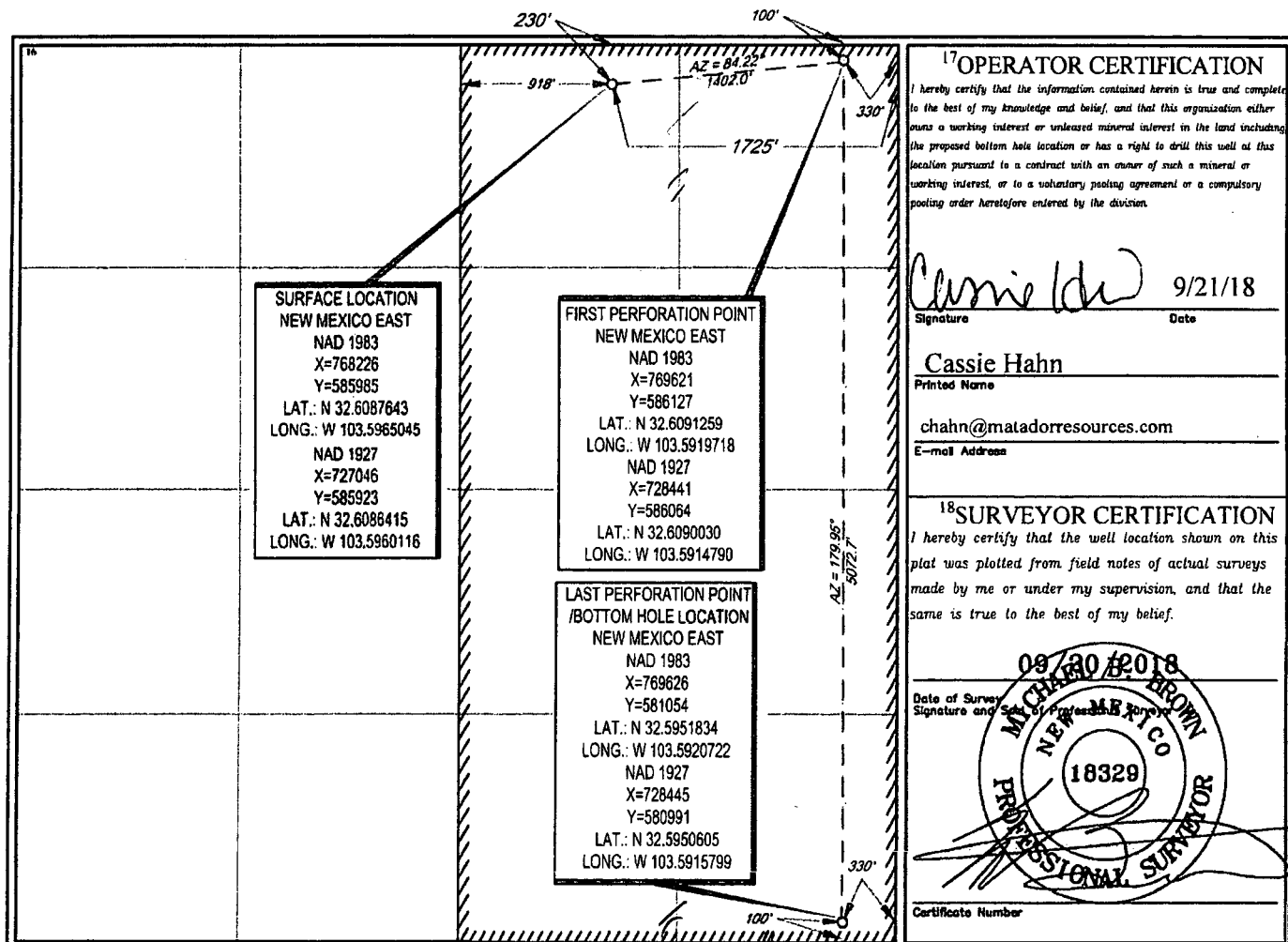
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	6	20-S	34-E	-	230'	NORTH	1725'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	20-S	34-E	-	100'	SOUTH	330'	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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
	+E/-W	0.00 usft	Easting:	727,046.00 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level: 3,620.00 usft

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

Design	Plan D			
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	179.95

Plan Survey Tool Program	Date 9/21/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
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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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)
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

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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



Matador Resources
Lea County, NM (NAD27)
Verna Rae
204H
Plan D
Patterson 809



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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	565923.00	727046.00	32.608843	-103.596011	

SECTION DETAILS- Lateral

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	
3	1500.00	12.00	82.28	1491.25	16.82	124.07	1.00	-16.71	
4	7064.09	12.00	82.28	6933.75	172.18	1270.43	0.00	-171.08	
5	8264.09	0.00	0.00	8124.99	189.00	1394.50	1.00	-187.78	
6	10533.60	0.00	0.00	10394.50	189.00	1394.50	0.00	-187.78	
7	11344.33	89.18	179.95	10915.32	-324.42	1394.95	11.00	325.64	
8	15952.38	89.18	179.95	10981.20	-4932.00	1399.00	0.00	4933.22	BHL - Verna 204H v2

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



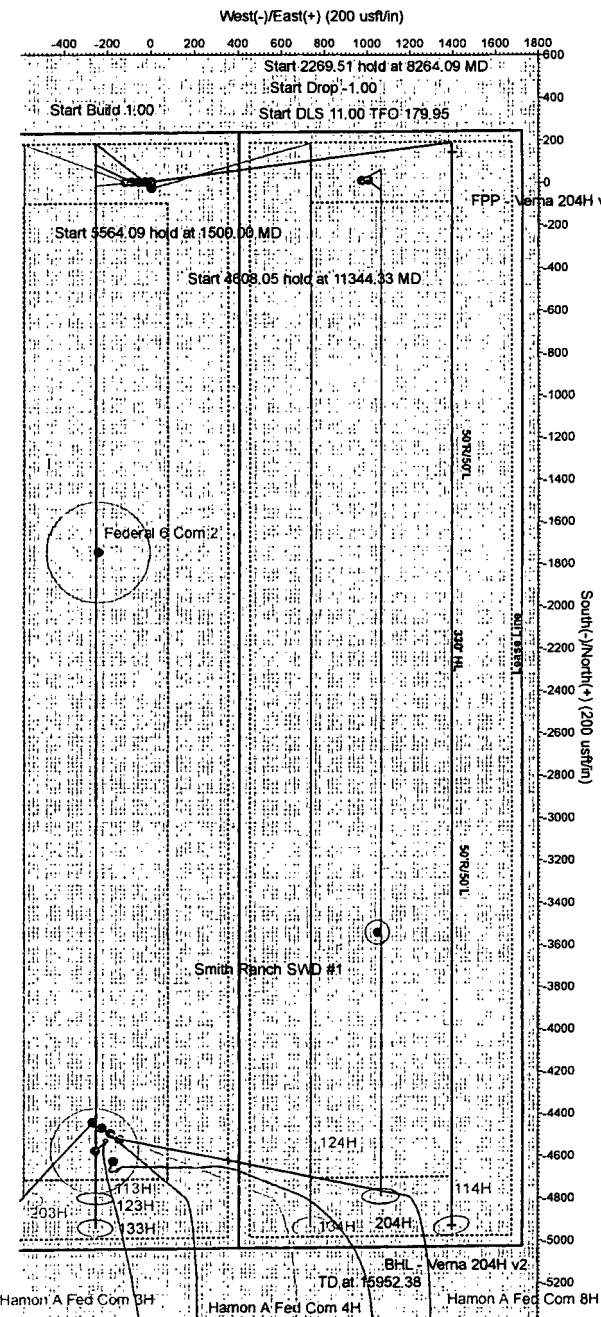
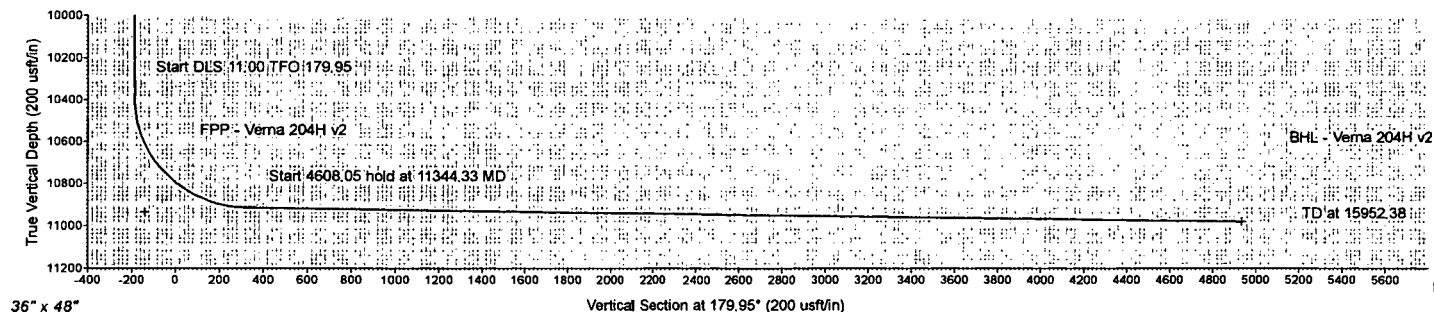
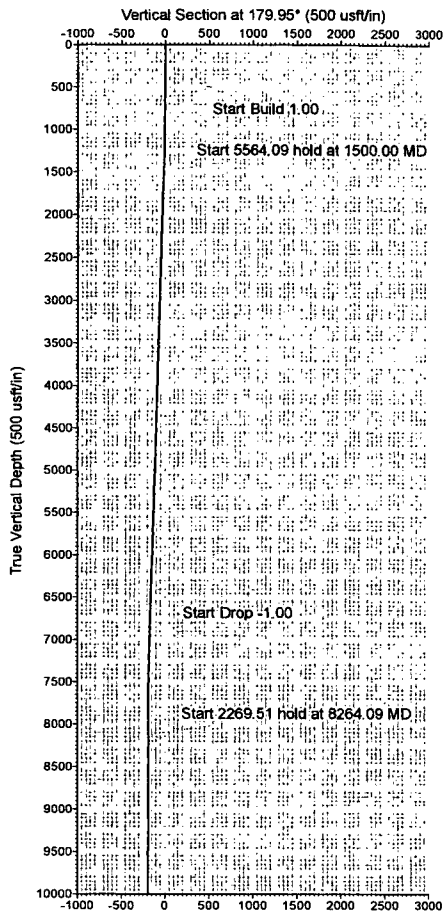
Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.27°

Magnetic Field
Strength: 48225.8nT
Dip Angle: 60.55°
Date: 9/28/2018
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.27°

Declination (M to T): 6.67° East



Plan Report 21-Sep-2018 21:34:10

Client.....: Matador Resources
Location.....: Lea County, NM (NAD27)
Site.....: Verna Rae
Well.....: 204H

----- Depth reference -----

Permanent datum.....: Mean Sea Level
Depth reference.....: GL 3620'+KB 28.5'
GL above permanent.....: 3620.00 usft
KB above permanent.....: 3648.50 usft

----- Surface Location -----

Northing (+N/S-).....: 585923.00 usft
Easting (+E/W-).....: 727046.00 usft

MD	Inc	Azimuth	TVD	Subsea	N/S	E/W	VS	DLS	
0	0	0	0	3648.5	0	0	0	0	0
100	0	0	100	3548.5	0	0	0	0	0
200	0	0	200	3448.5	0	0	0	0	0
300	0	0	300	3348.5	0	0	0	0	0
400	1	82.28	399.99	3248.51	0.12	0.86	-0.12	1	1
500	2	82.28	499.96	3148.54	0.47	3.46	-0.47	1	1
600	3	82.28	599.86	3048.64	1.05	7.78	-1.05	1	1
700	4	82.28	699.68	2948.82	1.87	13.83	-1.86	1	1
800	5	82.28	799.37	2849.13	2.93	21.61	-2.91	1	1
900	6	82.28	898.9	2749.6	4.22	31.1	-4.19	1	1
1000	7	82.28	998.26	2650.24	5.74	42.32	-5.7	1	1
1100	8	82.28	1097.4	2551.1	7.49	55.25	-7.44	1	1
1200	9	82.28	1196.3	2452.2	9.47	69.9	-9.41	1	1
1300	10	82.28	1294.93	2353.57	11.69	86.26	-11.62	1	1
1400	11	82.28	1393.26	2255.24	14.14	104.31	-14.05	1	1
1500	12	82.28	1491.25	2157.25	16.82	124.07	-16.71	1	1
1600	12	82.28	1589.06	2059.44	19.61	144.67	-19.48	0	0
1700	12	82.28	1686.88	1961.62	22.4	165.28	-22.26	0	0
1800	12	82.28	1784.69	1863.81	25.19	185.88	-25.03	0	0
1900	12	82.28	1882.51	1765.99	27.98	206.48	-27.8	0	0
2000	12	82.28	1980.32	1668.18	30.78	227.08	-30.58	0	0
2100	12	82.28	2078.13	1570.37	33.57	247.69	-33.35	0	0
2200	12	82.28	2175.95	1472.55	36.36	268.29	-36.13	0	0
2300	12	82.28	2273.76	1374.74	39.15	288.89	-38.9	0	0
2400	12	82.28	2371.58	1276.92	41.95	309.5	-41.68	0	0
2500	12	82.28	2469.39	1179.11	44.74	330.1	-44.45	0	0

2600	12	82.28	2567.21	1081.29	47.53	350.7	-47.23	0
2700	12	82.28	2665.02	983.48	50.32	371.3	-50	0
2800	12	82.28	2762.84	885.66	53.12	391.91	-52.77	0
2900	12	82.28	2860.65	787.85	55.91	412.51	-55.55	0
3000	12	82.28	2958.47	690.03	58.7	433.11	-58.32	0
3100	12	82.28	3056.28	592.22	61.49	453.72	-61.1	0
3200	12	82.28	3154.1	494.4	64.29	474.32	-63.87	0
3300	12	82.28	3251.91	396.59	67.08	494.92	-66.65	0
3400	12	82.28	3349.73	298.77	69.87	515.52	-69.42	0
3500	12	82.28	3447.54	200.96	72.66	536.13	-72.19	0
3600	12	82.28	3545.36	103.14	75.45	556.73	-74.97	0
3700	12	82.28	3643.17	5.33	78.25	577.33	-77.74	0
3800	12	82.28	3740.99	-92.49	81.04	597.94	-80.52	0
3900	12	82.28	3838.8	-190.3	83.83	618.54	-83.29	0
4000	12	82.28	3936.62	-288.12	86.62	639.14	-86.07	0
4100	12	82.28	4034.43	-385.93	89.42	659.74	-88.84	0
4200	12	82.28	4132.24	-483.74	92.21	680.35	-91.62	0
4300	12	82.28	4230.06	-581.56	95	700.95	-94.39	0
4400	12	82.28	4327.87	-679.37	97.79	721.55	-97.16	0
4500	12	82.28	4425.69	-777.19	100.59	742.15	-99.94	0
4600	12	82.28	4523.5	-875	103.38	762.76	-102.71	0
4700	12	82.28	4621.32	-972.82	106.17	783.36	-105.49	0
4800	12	82.28	4719.13	-1070.63	108.96	803.96	-108.26	0
4900	12	82.28	4816.95	-1168.45	111.76	824.57	-111.04	0
5000	12	82.28	4914.76	-1266.26	114.55	845.17	-113.81	0
5100	12	82.28	5012.58	-1364.08	117.34	865.77	-116.58	0
5200	12	82.28	5110.39	-1461.89	120.13	886.37	-119.36	0
5300	12	82.28	5208.21	-1559.71	122.92	906.98	-122.13	0
5400	12	82.28	5306.02	-1657.52	125.72	927.58	-124.91	0
5500	12	82.28	5403.84	-1755.34	128.51	948.18	-127.68	0
5600	12	82.28	5501.65	-1853.15	131.3	968.79	-130.46	0
5700	12	82.28	5599.47	-1950.97	134.09	989.39	-133.23	0
5800	12	82.28	5697.28	-2048.78	136.89	1009.99	-136.01	0
5900	12	82.28	5795.1	-2146.6	139.68	1030.59	-138.78	0
6000	12	82.28	5892.91	-2244.41	142.47	1051.2	-141.55	0
6100	12	82.28	5990.73	-2342.23	145.26	1071.8	-144.33	0
6200	12	82.28	6088.54	-2440.04	148.06	1092.4	-147.1	0
6300	12	82.28	6186.35	-2537.85	150.85	1113.01	-149.88	0
6400	12	82.28	6284.17	-2635.67	153.64	1133.61	-152.65	0
6500	12	82.28	6381.98	-2733.48	156.43	1154.21	-155.43	0
6600	12	82.28	6479.8	-2831.3	159.23	1174.81	-158.2	0
6700	12	82.28	6577.61	-2929.11	162.02	1195.42	-160.97	0
6800	12	82.28	6675.43	-3026.93	164.81	1216.02	-163.75	0
6900	12	82.28	6773.24	-3124.74	167.6	1236.62	-166.52	0
7000	12	82.28	6871.06	-3222.56	170.39	1257.22	-169.3	0
7064.09	12	82.28	6933.75	-3285.25	172.18	1270.43	-171.08	0
7100	11.64	82.28	6968.9	-3320.4	173.17	1277.72	-172.06	1

7200	10.64	82.28	7067.01	-3418.51	175.77	1296.87	-174.64	1
7300	9.64	82.28	7165.45	-3516.95	178.13	1314.31	-176.98	1
7400	8.64	82.28	7264.18	-3615.68	180.27	1330.05	-179.1	1
7500	7.64	82.28	7363.17	-3714.67	182.17	1344.09	-180.99	1
7600	6.64	82.28	7462.39	-3813.89	183.84	1356.41	-182.65	1
7700	5.64	82.28	7561.81	-3913.31	185.27	1367.01	-184.08	1
7800	4.64	82.28	7661.41	-4012.91	186.48	1375.89	-185.28	1
7900	3.64	82.28	7761.15	-4112.65	187.45	1383.04	-186.24	1
8000	2.64	82.28	7861	-4212.5	188.18	1388.47	-186.97	1
8100	1.64	82.28	7960.93	-4312.43	188.68	1392.17	-187.47	1
8200	0.64	82.28	8060.91	-4412.41	188.95	1394.14	-187.74	1
8264.09	0	0	8124.99	-4476.49	189	1394.5	-187.78	1
8300	0	0	8160.9	-4512.4	189	1394.5	-187.78	0
8400	0	0	8260.9	-4612.4	189	1394.5	-187.78	0
8500	0	0	8360.9	-4712.4	189	1394.5	-187.78	0
8600	0	0	8460.9	-4812.4	189	1394.5	-187.78	0
8700	0	0	8560.9	-4912.4	189	1394.5	-187.78	0
8800	0	0	8660.9	-5012.4	189	1394.5	-187.78	0
8900	0	0	8760.9	-5112.4	189	1394.5	-187.78	0
9000	0	0	8860.9	-5212.4	189	1394.5	-187.78	0
9100	0	0	8960.9	-5312.4	189	1394.5	-187.78	0
9200	0	0	9060.9	-5412.4	189	1394.5	-187.78	0
9300	0	0	9160.9	-5512.4	189	1394.5	-187.78	0
9400	0	0	9260.9	-5612.4	189	1394.5	-187.78	0
9500	0	0	9360.9	-5712.4	189	1394.5	-187.78	0
9600	0	0	9460.9	-5812.4	189	1394.5	-187.78	0
9700	0	0	9560.9	-5912.4	189	1394.5	-187.78	0
9800	0	0	9660.9	-6012.4	189	1394.5	-187.78	0
9900	0	0	9760.9	-6112.4	189	1394.5	-187.78	0
10000	0	0	9860.9	-6212.4	189	1394.5	-187.78	0
10100	0	0	9960.9	-6312.4	189	1394.5	-187.78	0
10200	0	0	10060.9	-6412.4	189	1394.5	-187.78	0
10300	0	0	10160.9	-6512.4	189	1394.5	-187.78	0
10400	0	0	10260.9	-6612.4	189	1394.5	-187.78	0
10500	0	0	10360.9	-6712.4	189	1394.5	-187.78	0
10533.6	0	0	10394.5	-6746	189	1394.5	-187.78	0
10550	1.8	179.95	10410.9	-6762.4	188.74	1394.5	-187.52	11
10600	7.3	179.95	10460.72	-6812.22	184.77	1394.5	-183.56	11
10650	12.8	179.95	10509.94	-6861.44	176.05	1394.51	-174.83	11
10700	18.3	179.95	10558.09	-6909.59	162.64	1394.52	-161.43	11
10750	23.8	179.95	10604.73	-6956.23	144.69	1394.54	-143.47	11
10800	29.3	179.95	10649.44	-7000.94	122.35	1394.56	-121.13	11
10850	34.8	179.95	10691.8	-7043.3	95.82	1394.58	-94.6	11
10900	40.3	179.95	10731.42	-7082.92	65.35	1394.61	-64.14	11
10950	45.8	179.95	10767.95	-7119.45	31.23	1394.64	-30.02	11
11000	51.3	179.95	10801.03	-7152.53	-6.23	1394.67	7.45	11
11050	56.8	179.95	10830.37	-7181.87	-46.69	1394.71	47.91	11

11100	62.3	179.95	10855.69	-7207.19	-89.78	1394.74	91	11
11150	67.8	179.95	10876.77	-7228.27	-135.1	1394.78	136.32	11
11200	73.3	179.95	10893.41	-7244.91	-182.23	1394.83	183.45	11
11250	78.8	179.95	10905.46	-7256.96	-230.74	1394.87	231.96	11
11300	84.3	179.95	10912.8	-7264.3	-280.18	1394.91	281.39	11
11344.33	89.18	179.95	10915.32	-7266.82	-324.42	1394.95	325.64	11
11400	89.18	179.95	10916.11	-7267.61	-380.09	1395	381.3	0
11500	89.18	179.95	10917.54	-7269.04	-480.08	1395.09	481.29	0
11600	89.18	179.95	10918.97	-7270.47	-580.07	1395.18	581.28	0
11700	89.18	179.95	10920.4	-7271.9	-680.06	1395.26	681.27	0
11800	89.18	179.95	10921.83	-7273.33	-780.05	1395.35	781.26	0
11900	89.18	179.95	10923.26	-7274.76	-880.04	1395.44	881.25	0
12000	89.18	179.95	10924.69	-7276.19	-980.03	1395.53	981.24	0
12100	89.18	179.95	10926.12	-7277.62	-1080.02	1395.62	1081.23	0
12200	89.18	179.95	10927.55	-7279.05	-1180	1395.7	1181.22	0
12300	89.18	179.95	10928.98	-7280.48	-1279.99	1395.79	1281.21	0
12400	89.18	179.95	10930.41	-7281.91	-1379.98	1395.88	1381.2	0
12500	89.18	179.95	10931.84	-7283.34	-1479.97	1395.97	1481.19	0
12600	89.18	179.95	10933.27	-7284.77	-1579.96	1396.05	1581.18	0
12700	89.18	179.95	10934.7	-7286.2	-1679.95	1396.14	1681.17	0
12800	89.18	179.95	10936.13	-7287.63	-1779.94	1396.23	1781.16	0
12900	89.18	179.95	10937.56	-7289.06	-1879.93	1396.32	1881.15	0
13000	89.18	179.95	10938.99	-7290.49	-1979.92	1396.41	1981.14	0
13100	89.18	179.95	10940.42	-7291.92	-2079.91	1396.49	2081.13	0
13200	89.18	179.95	10941.85	-7293.35	-2179.9	1396.58	2181.12	0
13300	89.18	179.95	10943.28	-7294.78	-2279.89	1396.67	2281.11	0
13400	89.18	179.95	10944.71	-7296.21	-2379.88	1396.76	2381.1	0
13500	89.18	179.95	10946.14	-7297.64	-2479.87	1396.85	2481.09	0
13600	89.18	179.95	10947.57	-7299.07	-2579.86	1396.93	2581.08	0
13700	89.18	179.95	10949	-7300.5	-2679.85	1397.02	2681.07	0
13800	89.18	179.95	10950.43	-7301.93	-2779.84	1397.11	2781.06	0
13900	89.18	179.95	10951.86	-7303.36	-2879.83	1397.2	2881.05	0
14000	89.18	179.95	10953.29	-7304.79	-2979.82	1397.28	2981.04	0
14100	89.18	179.95	10954.72	-7306.22	-3079.81	1397.37	3081.03	0
14200	89.18	179.95	10956.15	-7307.65	-3179.8	1397.46	3181.02	0
14300	89.18	179.95	10957.58	-7309.08	-3279.79	1397.55	3281.01	0
14400	89.18	179.95	10959.01	-7310.51	-3379.78	1397.64	3381	0
14500	89.18	179.95	10960.43	-7311.93	-3479.77	1397.72	3480.99	0
14600	89.18	179.95	10961.86	-7313.36	-3579.76	1397.81	3580.98	0
14700	89.18	179.95	10963.29	-7314.79	-3679.75	1397.9	3680.97	0
14800	89.18	179.95	10964.72	-7316.22	-3779.74	1397.99	3780.96	0
14900	89.18	179.95	10966.15	-7317.65	-3879.73	1398.08	3880.95	0
15000	89.18	179.95	10967.58	-7319.08	-3979.72	1398.16	3980.94	0
15100	89.18	179.95	10969.01	-7320.51	-4079.71	1398.25	4080.93	0
15200	89.18	179.95	10970.44	-7321.94	-4179.7	1398.34	4180.92	0
15300	89.18	179.95	10971.87	-7323.37	-4279.69	1398.43	4280.91	0
15400	89.18	179.95	10973.3	-7324.8	-4379.68	1398.51	4380.9	0

15500	89.18	179.95	10974.73	-7326.23	-4479.67	1398.6	4480.89	0
15600	89.18	179.95	10976.16	-7327.66	-4579.66	1398.69	4580.87	0
15700	89.18	179.95	10977.59	-7329.09	-4679.65	1398.78	4680.86	0
15800	89.18	179.95	10979.02	-7330.52	-4779.64	1398.87	4780.85	0
15900	89.18	179.95	10980.45	-7331.95	-4879.63	1398.95	4880.84	0
15952.38	89.18	179.95	10981.2	-7332.7	-4932	1399	4933.22	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to GL 3620'+KB 28.5'. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 179.950° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East
Grid Convergence at Surface is 0.397°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 15952.38ft.,
the Bottom Hole Displacement is 5126.58ft., in the Direction of 179.950° (Grid).

X	Y	Latitude	Longitude	Comments
727046	585923	32.60864	-103.596	
727046	585923	32.60864	-103.596	
727046	585923	32.60864	-103.596	
727046	585923	32.60864	-103.596	Start Build 1.00
727046.9	585923.1	32.60864	-103.596	
727049.5	585923.5	32.60864	-103.596	
727053.8	585924.1	32.60865	-103.596	
727059.8	585924.9	32.60865	-103.596	
727067.6	585925.9	32.60865	-103.596	
727077.1	585927.2	32.60865	-103.596	
727088.3	585928.7	32.60866	-103.596	
727101.3	585930.5	32.60866	-103.596	
727115.9	585932.5	32.60867	-103.596	
727132.3	585934.7	32.60867	-103.596	
727150.3	585937.1	32.60868	-103.596	
727170.1	585939.8	32.60869	-103.596	Start 5564.09 hold at 1500.00 MD
727190.7	585942.6	32.60869	-103.596	
727211.3	585945.4	32.6087	-103.595	
727231.9	585948.2	32.60871	-103.595	
727252.5	585951	32.60872	-103.595	
727273.1	585953.8	32.60872	-103.595	
727293.7	585956.6	32.60873	-103.595	
727314.3	585959.4	32.60874	-103.595	
727334.9	585962.2	32.60875	-103.595	
727355.5	585965	32.60875	-103.595	
727376.1	585967.7	32.60876	-103.595	

727396.7	585970.5	32.60877	-103.595
727417.3	585973.3	32.60877	-103.595
727437.9	585976.1	32.60878	-103.595
727458.5	585978.9	32.60879	-103.595
727479.1	585981.7	32.6088	-103.595
727499.7	585984.5	32.6088	-103.595
727520.3	585987.3	32.60881	-103.594
727540.9	585990.1	32.60882	-103.594
727561.5	585992.9	32.60883	-103.594
727582.1	585995.7	32.60883	-103.594
727602.7	585998.5	32.60884	-103.594
727623.3	586001.3	32.60885	-103.594
727643.9	586004	32.60885	-103.594
727664.5	586006.8	32.60886	-103.594
727685.1	586009.6	32.60887	-103.594
727705.7	586012.4	32.60888	-103.594
727726.4	586015.2	32.60888	-103.594
727747	586018	32.60889	-103.594
727767.6	586020.8	32.6089	-103.594
727788.2	586023.6	32.60891	-103.594
727808.8	586026.4	32.60891	-103.594
727829.4	586029.2	32.60892	-103.593
727850	586032	32.60893	-103.593
727870.6	586034.8	32.60893	-103.593
727891.2	586037.6	32.60894	-103.593
727911.8	586040.3	32.60895	-103.593
727932.4	586043.1	32.60896	-103.593
727953	586045.9	32.60896	-103.593
727973.6	586048.7	32.60897	-103.593
727994.2	586051.5	32.60898	-103.593
728014.8	586054.3	32.60899	-103.593
728035.4	586057.1	32.60899	-103.593
728056	586059.9	32.609	-103.593
728076.6	586062.7	32.60901	-103.593
728097.2	586065.5	32.60901	-103.593
728117.8	586068.3	32.60902	-103.593
728138.4	586071.1	32.60903	-103.592
728159	586073.9	32.60904	-103.592
728179.6	586076.6	32.60904	-103.592
728200.2	586079.4	32.60905	-103.592
728220.8	586082.2	32.60906	-103.592
728241.4	586085	32.60907	-103.592
728262	586087.8	32.60907	-103.592
728282.6	586090.6	32.60908	-103.592
728303.2	586093.4	32.60909	-103.592
728316.4	586095.2	32.60909	-103.592
728323.7	586096.2	32.60909	-103.592

Start Drop -1.00

[illegible]

728440.7	585833.2	32.60837	-103.591	
728440.8	585787.9	32.60825	-103.591	
728440.8	585740.8	32.60812	-103.591	
728440.9	585692.3	32.60798	-103.591	
728440.9	585642.8	32.60785	-103.591	
728441	585598.6	32.60772	-103.591	Start 4608.05 hold at 11344.33 MD
728441	585542.9	32.60757	-103.591	
728441.1	585442.9	32.6073	-103.591	
728441.2	585342.9	32.60702	-103.591	
728441.3	585242.9	32.60675	-103.591	
728441.4	585143	32.60647	-103.591	
728441.4	585043	32.6062	-103.592	
728441.5	584943	32.60592	-103.592	
728441.6	584843	32.60565	-103.592	
728441.7	584743	32.60537	-103.592	
728441.8	584643	32.6051	-103.592	
728441.9	584543	32.60482	-103.592	
728442	584443	32.60455	-103.592	
728442.1	584343	32.60427	-103.592	
728442.1	584243.1	32.604	-103.592	
728442.2	584143.1	32.60372	-103.592	
728442.3	584043.1	32.60345	-103.592	
728442.4	583943.1	32.60317	-103.592	
728442.5	583843.1	32.6029	-103.592	
728442.6	583743.1	32.60262	-103.592	
728442.7	583643.1	32.60235	-103.592	
728442.8	583543.1	32.60208	-103.592	
728442.9	583443.1	32.6018	-103.592	
728442.9	583343.1	32.60153	-103.592	
728443	583243.2	32.60125	-103.592	
728443.1	583143.2	32.60098	-103.592	
728443.2	583043.2	32.6007	-103.592	
728443.3	582943.2	32.60043	-103.592	
728443.4	582843.2	32.60015	-103.592	
728443.5	582743.2	32.59988	-103.592	
728443.6	582643.2	32.5996	-103.592	
728443.6	582543.2	32.59933	-103.592	
728443.7	582443.2	32.59905	-103.592	
728443.8	582343.2	32.59878	-103.592	
728443.9	582243.3	32.5985	-103.592	
728444	582143.3	32.59823	-103.592	
728444.1	582043.3	32.59795	-103.592	
728444.2	581943.3	32.59768	-103.592	
728444.3	581843.3	32.5974	-103.592	
728444.3	581743.3	32.59713	-103.592	
728444.4	581643.3	32.59685	-103.592	
728444.5	581543.3	32.59658	-103.592	

728444.6	581443.3	32.5963	-103.592	
728444.7	581343.3	32.59603	-103.592	
728444.8	581243.4	32.59575	-103.592	
728444.9	581143.4	32.59548	-103.592	
728445	581043.4	32.5952	-103.592	
728445	580991	32.59506	-103.592	TD at 15952.38

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