

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.Lease Serial No.
NMLC064194

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
VERNA RAE FED COM 133H9. API Well No.
30-025-4434110. Field and Pool or Exploratory Area
TEAS;BONE SPRING, EAST11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MATADOR PRODUCTION COMPANY

Contact: TAMMY R LINK

Email: tlink@matadorresources.com

3a. Address

5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)

Ph: 575-627-2465

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

Sec 6 T20S R34E Mer NMP NWNE 230FNL 1755FEL

OCT 10 2018

RECEIVED

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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 plan's that correspond with Electronic Submission Identifier #00950-08905 that changes the BHL/LPP of Verna Rae Fed Com #133H well.

See Attachments.

For any questions or additional information, please call Cassie Hahn at 972-371-5440.

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

Electronic Submission #436771 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 09/24/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Mustafa Hague

Title

Petroleum Engineer
Carlsbad Field Office

Date 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 **

K2

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 #133H
⁷ OGRID No.		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3620'

¹⁰Surface Location

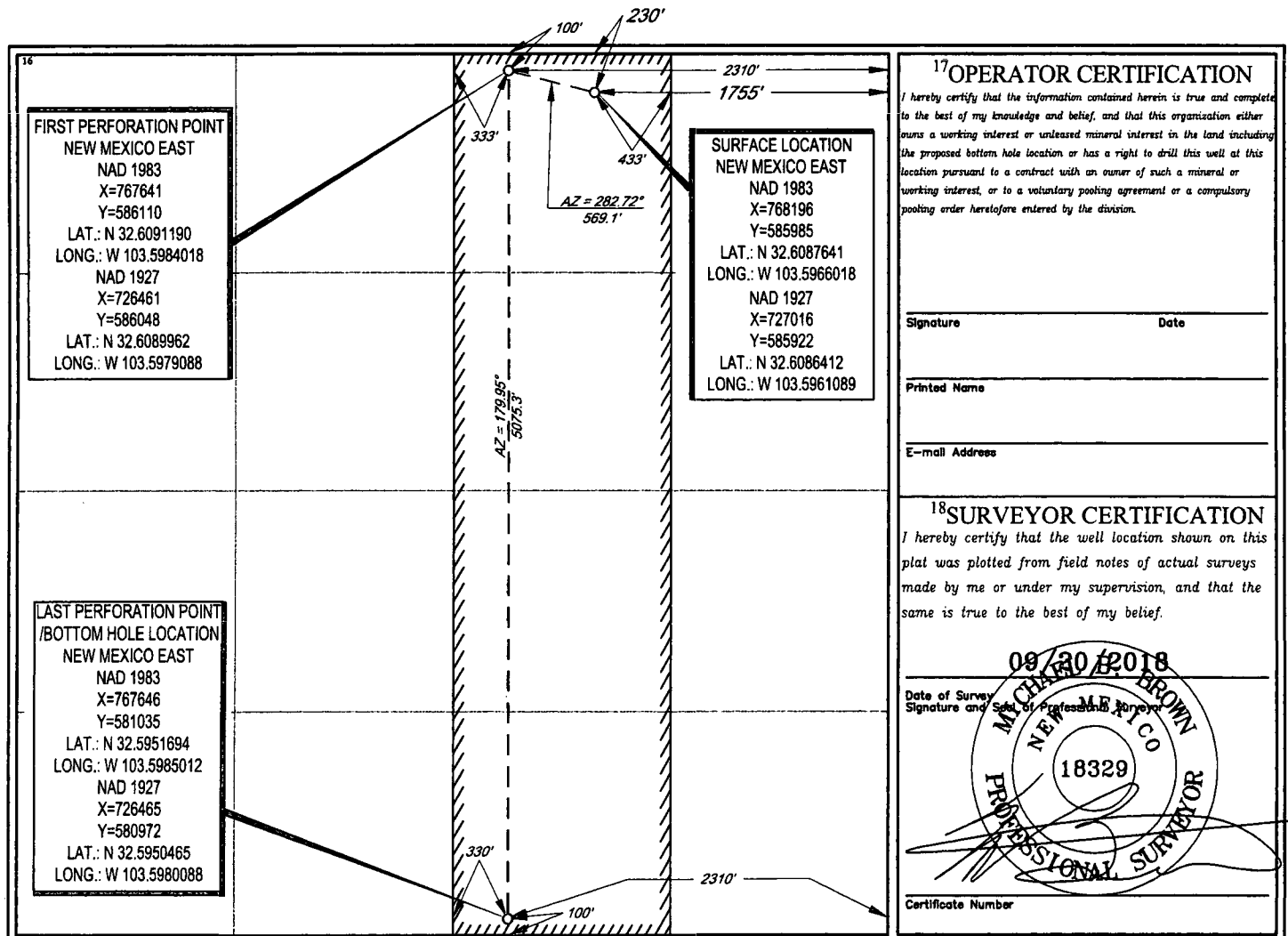
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	6	20-S	34-E	-	230'	NORTH	1755'	EAST	LEA

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
0	6	20-S	34-E	-	100'	SOUTH	2310'	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.



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 unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

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.

09/20/2018
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL M. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number _____

Plan Report 21-Sep-2018 22:56:14

Client.....: Matador Resources
 Location.....: Lea County, NM (NAD27)
 Site.....: Verna Rae
 Well.....: 134H

----- 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-).....: 585892.00 usft
 Easting (+E/W-).....: 727046.00 usft

MD	Inc	Azimuth	TVD	Subsea	N/S	E/W	VS	DLS	X	Y	Latitude	Longitude	Comments	
0	0	0	0	3648.5	0	0	0	0	0	727046	585892	32.60856	-103.596	Start Build 1.00
100	0	0	100	3548.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
200	0	0	200	3448.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
300	0	0	300	3348.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
400	0	0	400	3248.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
500	0	0	500	3148.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
600	0	0	600	3048.5	0	0	0	0	0	727046	585892	32.60856	-103.596	
700	1	73.61	699.99	2948.51	0.25	0.84	-0.25	1	727046.8	585892.3	32.60856	-103.596		
800	2	73.61	799.96	2848.54	0.99	3.35	-0.98	1	727049.4	585893	32.60856	-103.596		
900	3	73.61	899.86	2748.64	2.22	7.53	-2.21	1	727053.5	585894.2	32.60856	-103.596		
1000	4	73.61	999.68	2648.82	3.94	13.39	-3.93	1	727059.4	585895.9	32.60857	-103.596	Start 3404.72 hold at 1600.00 MD	
1100	5	73.61	1099.37	2549.13	6.15	20.92	-6.14	1	727066.9	585898.2	32.60857	-103.596		
1200	6	73.61	1198.9	2449.6	8.86	30.11	-8.83	1	727076.1	585900.9	32.60858	-103.596		
1300	7	73.61	1298.26	2350.24	12.05	40.97	-12.02	1	727087	585904.1	32.60859	-103.596		
1400	8	73.61	1397.4	2251.1	15.74	53.49	-15.69	1	727099.5	585907.7	32.6086	-103.596		
1500	9	73.61	1496.3	2152.2	19.91	67.67	-19.85	1	727113.7	585911.9	32.60861	-103.596		
1600	10	73.61	1594.93	2053.57	24.57	83.51	-24.49	1	727129.5	585916.6	32.60862	-103.596		
1700	10	73.61	1693.41	1955.09	29.47	100.17	-29.38	0	727146.2	585921.5	32.60864	-103.596		
1800	10	73.61	1791.89	1856.61	34.37	116.82	-34.27	0	727162.8	585926.4	32.60865	-103.596		
1900	10	73.61	1890.37	1758.13	39.27	133.48	-39.15	0	727179.5	585931.3	32.60866	-103.596		

2000	10	73.61	1988.85	1659.65	44.17	150.14	-44.04	0	727196.1	585936.2	32.60868	-103.596	
2100	10	73.61	2087.33	1561.17	49.07	166.8	-48.93	0	727212.8	585941.1	32.60869	-103.595	
2200	10	73.61	2185.82	1462.68	53.97	183.46	-53.81	0	727229.5	585946	32.6087	-103.595	
2300	10	73.61	2284.3	1364.2	58.87	200.12	-58.7	0	727246.1	585950.9	32.60872	-103.595	
2400	10	73.61	2382.78	1265.72	63.78	216.78	-63.59	0	727262.8	585955.8	32.60873	-103.595	
2500	10	73.61	2481.26	1167.24	68.68	233.44	-68.47	0	727279.4	585960.7	32.60874	-103.595	
2600	10	73.61	2579.74	1068.76	73.58	250.09	-73.36	0	727296.1	585965.6	32.60876	-103.595	
2700	10	73.61	2678.22	970.28	78.48	266.75	-78.25	0	727312.8	585970.5	32.60877	-103.595	
2800	10	73.61	2776.7	871.8	83.38	283.41	-83.13	0	727329.4	585975.4	32.60878	-103.595	
2900	10	73.61	2875.18	773.32	88.28	300.07	-88.02	0	727346.1	585980.3	32.60879	-103.595	
3000	10	73.61	2973.66	674.84	93.18	316.73	-92.9	0	727362.7	585985.2	32.60881	-103.595	
3100	10	73.61	3072.14	576.36	98.08	333.39	-97.79	0	727379.4	585990.1	32.60882	-103.595	
3200	10	73.61	3170.62	477.88	102.98	350.05	-102.68	0	727396.1	585995	32.60883	-103.595	
3300	10	73.61	3269.1	379.4	107.88	366.71	-107.56	0	727412.7	585999.9	32.60885	-103.595	
3400	10	73.61	3367.58	280.92	112.79	383.37	-112.45	0	727429.4	586004.8	32.60886	-103.595	
3500	10	73.61	3466.07	182.43	117.69	400.02	-117.34	0	727446	586009.7	32.60887	-103.595	
3600	10	73.61	3564.55	83.95	122.59	416.68	-122.22	0	727462.7	586014.6	32.60889	-103.595	
3700	10	73.61	3663.03	-14.53	127.49	433.34	-127.11	0	727479.3	586019.5	32.6089	-103.595	
3800	10	73.61	3761.51	-113.01	132.39	450	-132	0	727496	586024.4	32.60891	-103.595	
3900	10	73.61	3859.99	-211.49	137.29	466.66	-136.88	0	727512.7	586029.3	32.60893	-103.594	
4000	10	73.61	3958.47	-309.97	142.19	483.32	-141.77	0	727529.3	586034.2	32.60894	-103.594	
4100	10	73.61	4056.95	-408.45	147.09	499.98	-146.66	0	727546	586039.1	32.60895	-103.594	
4200	10	73.61	4155.43	-506.93	151.99	516.64	-151.54	0	727562.6	586044	32.60897	-103.594	
4300	10	73.61	4253.91	-605.41	156.89	533.3	-156.43	0	727579.3	586048.9	32.60898	-103.594	
4400	10	73.61	4352.39	-703.89	161.8	549.95	-161.32	0	727596	586053.8	32.60899	-103.594	
4500	10	73.61	4450.87	-802.37	166.7	566.61	-166.2	0	727612.6	586058.7	32.60901	-103.594	
4600	10	73.61	4549.35	-900.85	171.6	583.27	-171.09	0	727629.3	586063.6	32.60902	-103.594	
4700	10	73.61	4647.83	-999.33	176.5	599.93	-175.97	0	727645.9	586068.5	32.60903	-103.594	
4800	10	73.61	4746.32	-1097.82	181.4	616.59	-180.86	0	727662.6	586073.4	32.60904	-103.594	
4900	10	73.61	4844.8	-1196.3	186.3	633.25	-185.75	0	727679.3	586078.3	32.60906	-103.594	
5004.72	10	73.61	4947.93	-1299.43	191.43	650.69	-190.86	0	727696.7	586083.4	32.60907	-103.594	Start Drop -1.00
5100	9.05	73.61	5041.89	-1393.39	195.88	665.82	-195.3	1	727711.8	586087.9	32.60908	-103.594	
5200	8.05	73.61	5140.78	-1492.28	200.08	680.07	-199.48	1	727726.1	586092.1	32.60909	-103.594	
5300	7.05	73.61	5239.91	-1591.41	203.78	692.67	-203.18	1	727738.7	586095.8	32.6091	-103.594	
5400	6.05	73.61	5339.26	-1690.76	207	703.61	-206.39	1	727749.6	586099	32.60911	-103.594	
5500	5.05	73.61	5438.79	-1790.29	209.73	712.89	-209.11	1	727758.9	586101.7	32.60912	-103.594	
5600	4.05	73.61	5538.47	-1889.97	211.97	720.49	-211.34	1	727766.5	586104	32.60913	-103.594	
5700	3.05	73.61	5638.28	-1989.78	213.71	726.43	-213.08	1	727772.4	586105.7	32.60913	-103.594	
5800	2.05	73.61	5738.18	-2089.68	214.97	730.69	-214.33	1	727776.7	586107	32.60913	-103.594	
5900	1.05	73.61	5838.14	-2189.64	215.73	733.28	-215.09	1	727779.3	586107.7	32.60914	-103.594	
6004.72	0	0	5942.86	-2294.36	216	734.2	-215.36	1	727780.2	586108	32.60914	-103.594	Start 4360.64 hold at 6004.72 MD

6100	0	0	6038.14	-2389.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6200	0	0	6138.14	-2489.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6300	0	0	6238.14	-2589.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6400	0	0	6338.14	-2689.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6500	0	0	6438.14	-2789.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6600	0	0	6538.14	-2889.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6700	0	0	6638.14	-2989.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6800	0	0	6738.14	-3089.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
6900	0	0	6838.14	-3189.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7000	0	0	6938.14	-3289.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7100	0	0	7038.14	-3389.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7200	0	0	7138.14	-3489.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7300	0	0	7238.14	-3589.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7400	0	0	7338.14	-3689.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7500	0	0	7438.14	-3789.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7600	0	0	7538.14	-3889.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7700	0	0	7638.14	-3989.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7800	0	0	7738.14	-4089.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
7900	0	0	7838.14	-4189.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8000	0	0	7938.14	-4289.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8100	0	0	8038.14	-4389.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8200	0	0	8138.14	-4489.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8300	0	0	8238.14	-4589.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8400	0	0	8338.14	-4689.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8500	0	0	8438.14	-4789.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8600	0	0	8538.14	-4889.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8700	0	0	8638.14	-4989.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8800	0	0	8738.14	-5089.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
8900	0	0	8838.14	-5189.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
9000	0	0	8938.14	-5289.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594
9100	0	0	9038.14	-5389.64	216	734.2	-215.36	0	727780.2	586108</		

10200	0	0	10138.14	-6489.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594	
10300	0	0	10238.14	-6589.64	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594	
10365.36	0	0	10303.5	-6655	216	734.2	-215.36	0	727780.2	586108	32.60914	-103.594	Start DLS 11.00 TFO 179.95
10400	3.81	179.95	10338.11	-6689.61	214.85	734.2	-214.21	11	727780.2	586106.9	32.60913	-103.594	
10450	9.31	179.95	10387.76	-6739.26	209.14	734.21	-208.5	11	727780.2	586101.1	32.60912	-103.594	
10500	14.81	179.95	10436.64	-6788.14	198.7	734.22	-198.06	11	727780.2	586090.7	32.60909	-103.594	
10550	20.31	179.95	10484.29	-6835.79	183.62	734.23	-182.98	11	727780.2	586075.6	32.60905	-103.594	
10600	25.81	179.95	10530.28	-6881.78	164.04	734.25	-163.4	11	727780.3	586056	32.60899	-103.594	
10650	31.31	179.95	10574.18	-6925.68	140.14	734.27	-139.5	11	727780.3	586032.1	32.60893	-103.594	
10700	36.81	179.95	10615.59	-6967.09	112.15	734.3	-111.51	11	727780.3	586004.2	32.60885	-103.594	
10750	42.31	179.95	10654.12	-7005.62	80.32	734.33	-79.68	11	727780.3	585972.3	32.60876	-103.594	
10800	47.81	179.95	10689.42	-7040.92	44.94	734.36	-44.3	11	727780.4	585936.9	32.60867	-103.594	
10850	53.31	179.95	10721.18	-7072.68	6.34	734.4	-5.7	11	727780.4	585898.3	32.60856	-103.594	
10900	58.81	179.95	10749.08	-7100.58	-35.12	734.44	35.76	11	727780.4	585856.9	32.60845	-103.594	
10950	64.31	179.95	10772.88	-7124.38	-79.07	734.48	79.71	11	727780.5	585812.9	32.60833	-103.594	
11000	69.81	179.95	10792.36	-7143.86	-125.1	734.52	125.74	11	727780.5	585766.9	32.6082	-103.594	
11050	75.31	179.95	10807.34	-7158.84	-172.78	734.56	173.42	11	727780.6	585719.2	32.60807	-103.594	
11100	80.81	179.95	10817.68	-7169.18	-221.68	734.61	222.32	11	727780.6	585670.3	32.60793	-103.594	
11150	86.31	179.95	10823.29	-7174.79	-271.35	734.66	271.99	11	727780.7	585620.7	32.6078	-103.594	
11176.29	89.2	179.95	10824.32	-7175.82	-297.62	734.68	298.26	11	727780.7	585594.4	32.60773	-103.594	Start 4609.83 hold at 11176.29 MD
11200	89.2	179.95	10824.65	-7176.15	-321.32	734.7	321.96	0	727780.7	585570.7	32.60766	-103.594	
11300	89.2	179.95	10826.04	-7177.54	-421.31	734.8	421.95	0	727780.8	585470.7	32.60739	-103.594	
11400	89.2	179.95	10827.43	-7178.93	-521.3	734.89	521.94	0	727780.9	585370.7	32.60711	-103.594	
11500	89.2	179.95	10828.83	-7180.33	-621.29	734.98	621.93	0	727781	585270.7	32.60684	-103.594	
11600	89.2	179.95	10830.22	-7181.72	-721.28	735.08	721.93	0	727781.1	585170.7	32.60656	-103.594	
11700	89.2	179.95	10831.61	-7183.11	-821.27	735.17	821.92	0	727781.2	585070.7	32.60629	-103.594	
11800	89.2	179.95	10833	-7184.5	-921.26	735.27	921.91	0	727781.3	584970.7	32.60601	-103.594	
11900	89.2	179.95	10834.4	-7185.9	-1021.25	735.36	1021.9	0	727781.4	584870.8	32.60574	-103.594	
12000	89.2	179.95	10835.79	-7187.29	-1121.24	735.45	1121.89	0	727781.5	584770.8	32.60546	-103.594	
12100	89.2	179.95	10837.18	-7188.68	-1221.24	735.55	1221.88	0	727781.6	584670.8	32.60519	-103.594	
12200	89.2	179.95	10838.57	-7190.07	-1321.23	735.64	1321.87	0	727781.6	584570.8	32.60491	-103.594	
12300	89.2	179.95	10839.96	-7191.46	-1421.22	735.73	1421.86	0	727781.7	584470.8	32.60464	-103.594	
12400	89.2	179.95	10841.36	-7192.86	-1521.21	735.83	1521.85	0	727781.8	584370.8	32.60436	-103.594	
12500	89.2	179.95	10842.75	-7194.25	-1621.2	735.92	1621.84	0	727781.9	584270.8	32.60409	-103.594	
12600	89.2	179.95	10844.14	-7195.64	-1721.19	736.02	1721.83	0	727782	584170.8	32.60381	-103.594	
12700	89.2	179.95	10845.53	-7197.03	-1821.18	736.11	1821.82	0	727782.1	584070.8	32.60354	-103.594	
12800	89.2	179.95	10846.93	-7198.43	-1921.17	736.2	1921.81	0	727782.2	583970.8	32.60326	-103.594	
12900	89.2	179.95	10848.32	-7199.82	-2021.16	736.3	2021.8	0	727782.3	583870.8	32.60299	-103.594	
13000	89.2	179.95	10849.71	-7201.21	-2121.15	736.39	2121.79	0	727782.4	583770.9	32.60271	-103.594	
13100	89.2	179.95	10851.1	-7202.6	-2221.14	736.48	2221.78	0	727782.5	583670.9	32.60244	-103.594	
13200	89.2	179.95	10852.5	-7204	-2321.13	736.58	2321.77	0	727782.6	583570.9	32.60216	-103.594	

13300	89.2	179.95	10853.89	-7205.39	-2421.12	736.67	2421.76	0	727782.7	583470.9	32.60189	-103.594
13400	89.2	179.95	10855.28	-7206.78	-2521.11	736.76	2521.75	0	727782.8	583370.9	32.60161	-103.594
13500	89.2	179.95	10856.67	-7208.17	-2621.1	736.86	2621.74	0	727782.9	583270.9	32.60134	-103.594
13600	89.2	179.95	10858.06	-7209.56	-2721.09	736.95	2721.73	0	727783	583170.9	32.60106	-103.594
13700	89.2	179.95	10859.46	-7210.96	-2821.08	737.05	2821.72	0	727783.1	583070.9	32.60079	-103.594
13800	89.2	179.95	10860.85	-7212.35	-2921.07	737.14	2921.71	0	727783.1	582970.9	32.60051	-103.594
13900	89.2	179.95	10862.24	-7213.74	-3021.06	737.23	3021.7	0	727783.2	582870.9	32.60024	-103.594
14000	89.2	179.95	10863.63	-7215.13	-3121.05	737.33	3121.69	0	727783.3	582771	32.59997	-103.594
14100	89.2	179.95	10865.03	-7216.53	-3221.04	737.42	3221.68	0	727783.4	582671	32.59969	-103.594
14200	89.2	179.95	10866.42	-7217.92	-3321.03	737.51	3321.67	0	727783.5	582571	32.59942	-103.594
14300	89.2	179.95	10867.81	-7219.31	-3421.02	737.61	3421.66	0	727783.6	582471	32.59914	-103.594
14400	89.2	179.95	10869.2	-7220.7	-3521.01	737.7	3521.65	0	727783.7	582371	32.59887	-103.594
14500	89.2	179.95	10870.59	-7222.09	-3621	737.8	3621.64	0	727783.8	582271	32.59859	-103.594
14600	89.2	179.95	10871.99	-7223.49	-3720.99	737.89	3721.63	0	727783.9	582171	32.59832	-103.594
14700	89.2	179.95	10873.38	-7224.88	-3820.98	737.98	3821.62	0	727784	582071	32.59804	-103.594
14800	89.2	179.95	10874.77	-7226.27	-3920.97	738.08	3921.61	0	727784.1	581971	32.59777	-103.594
14900	89.2	179.95	10876.16	-7227.66	-4020.96	738.17	4021.61	0	727784.2	581871	32.59749	-103.594
15000	89.2	179.95	10877.56	-7229.06	-4120.95	738.26	4121.6	0	727784.3	581771.1	32.59722	-103.594
15100	89.2	179.95	10878.95	-7230.45	-4220.94	738.36	4221.59	0	727784.4	581671.1	32.59694	-103.594
15200	89.2	179.95	10880.34	-7231.84	-4320.93	738.45	4321.58	0	727784.5	581571.1	32.59667	-103.594
15300	89.2	179.95	10881.73	-7233.23	-4420.92	738.54	4421.57	0	727784.5	581471.1	32.59639	-103.594
15400	89.2	179.95	10883.12	-7234.62	-4520.91	738.64	4521.56	0	727784.6	581371.1	32.59612	-103.594
15500	89.2	179.95	10884.52	-7236.02	-4620.9	738.73	4621.55	0	727784.7	581271.1	32.59584	-103.594
15600	89.2	179.95	10885.91	-7237.41	-4720.89	738.83	4721.54	0	727784.8	581171.1	32.59557	-103.594
15700	89.2	179.95	10887.3	-7238.8	-4820.88	738.92	4821.53	0	727784.9	581071.1	32.59529	-103.594
15786.12	89.2	179.95	10888.5	-7240	-4907	739	4907.64	0	727785	580985	32.59506	-103.594

TD at 15786.12

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 3001.
Grid Convergence at Surface is 0.397°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 15786.12ft.,
the Bottom Hole Displacement is 4962.34ft., in the Direction of 179.950° (Grid).



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

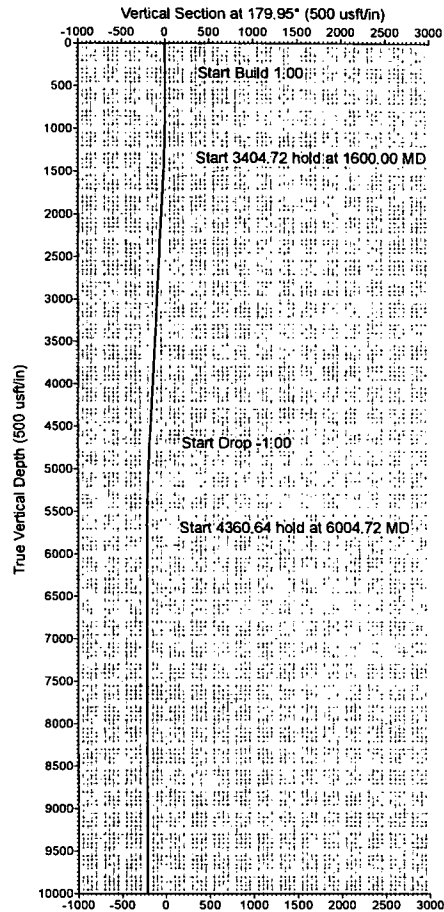


RKB Elevation: GL 3620'+KB 28.5' @ 3648.50usft (Patterson 809)

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	585892.00	727046.00	32.608557	-103.596012	

SECTION DETAILS- Lateral								
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
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	-190.86
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	734.66	11.00	286.26
8	15786.12	89.20	179.95	10868.50	-4907.00	739.00	0.00	4907.64

BHL - Verna 134H v3

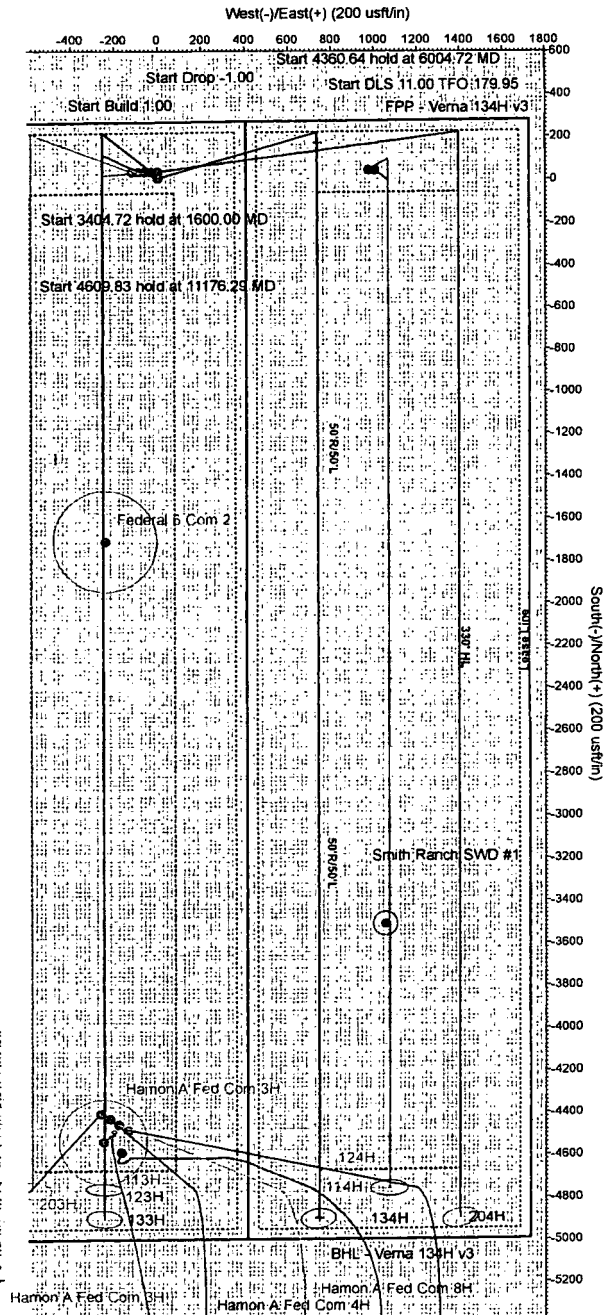
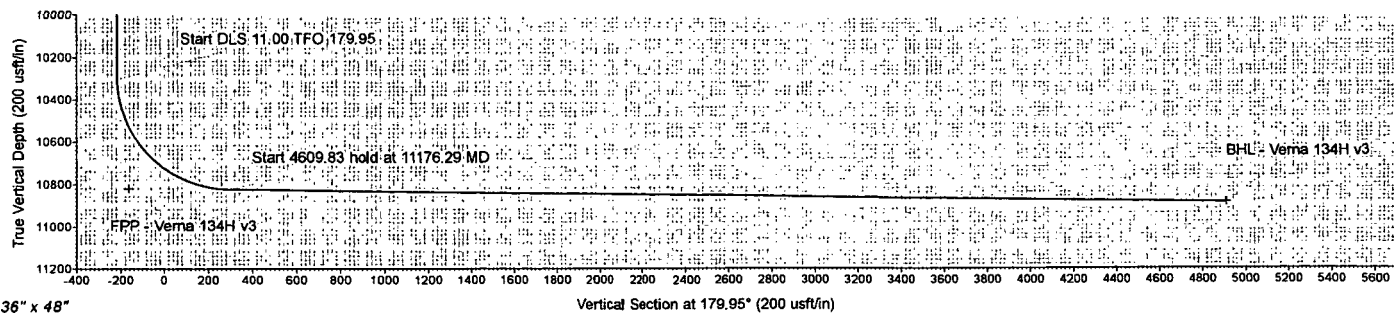
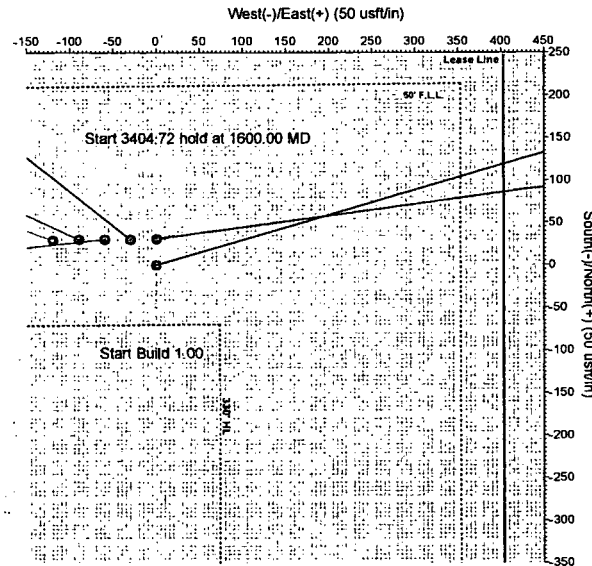


US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level



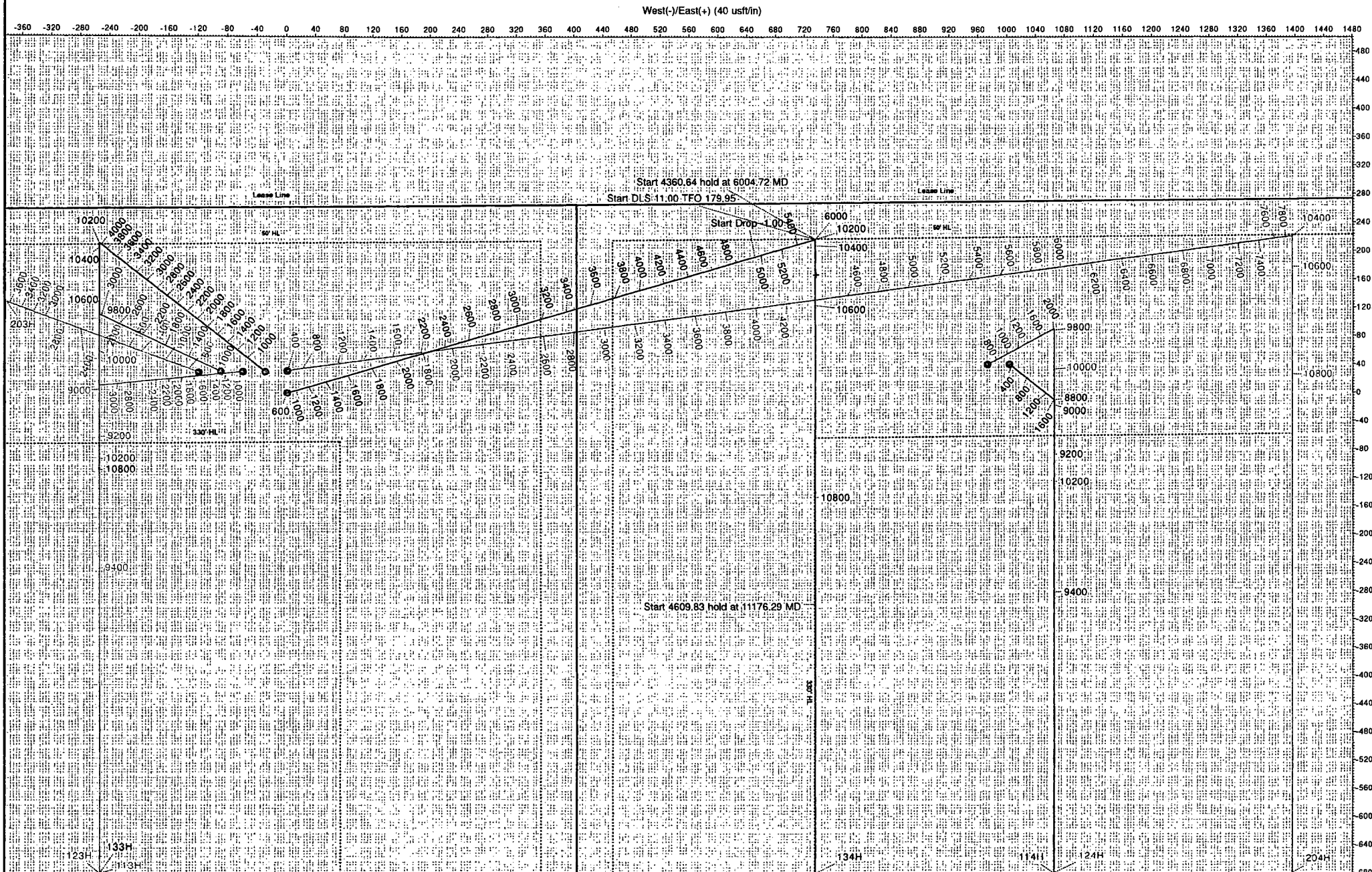
Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.27°
Magnetic Field Strength: 48223.8nT
Dip Angle: 60.55°
Date: 9/28/2018
Model: HDGM

Azimuth Corrections
Total Magnetic Corr. (M to G): 6.27°
Declination (M to T): 6.67° East





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



Matador Resources

Lea County, NM (NAD27)

Verna Rae

134H

OH

Plan: Plan #1

Standard Planning Report

21 September, 2018

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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:	134H					
Well Position	+N-S	-31.00 usft	Northing:	585,892.00 usft	Latitude:	32.608557
	+E-W	0.00 usft	Easting:	727,046.00 usft	Longitude:	-103.596012
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 #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.95	

Plan Survey Tool Program	Date 9/21/2018				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	15,785.78 Plan #1 (OH)	MWD+HDGM		
			OWSG MWD + HRGM		

Pro Directional

Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	10.00	73.61	1,594.93	24.57	83.51	1.00	1.00	0.00	73.61	
5,004.72	10.00	73.61	4,947.93	191.43	650.69	0.00	0.00	0.00	0.00	
6,004.72	0.00	0.00	5,942.86	216.00	734.20	1.00	-1.00	0.00	180.00	
10,365.36	0.00	0.00	10,303.50	216.00	734.20	0.00	0.00	0.00	0.00	
11,176.29	89.20	179.95	10,824.32	-297.62	734.68	11.00	11.00	22.19	179.95	
15,786.12	89.20	179.95	10,888.50	-4,907.00	739.00	0.00	0.00	0.00	0.00	BHL - Verna 134H

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	1.00	73.61	699.99	0.25	0.84	-0.25	1.00	1.00	0.00
800.00	2.00	73.61	799.96	0.99	3.35	-0.98	1.00	1.00	0.00
900.00	3.00	73.61	899.86	2.22	7.53	-2.21	1.00	1.00	0.00
1,000.00	4.00	73.61	999.68	3.94	13.39	-3.93	1.00	1.00	0.00
1,100.00	5.00	73.61	1,099.37	6.15	20.92	-6.14	1.00	1.00	0.00
1,200.00	6.00	73.61	1,198.90	8.86	30.11	-8.83	1.00	1.00	0.00
1,300.00	7.00	73.61	1,298.26	12.05	40.97	-12.02	1.00	1.00	0.00
1,400.00	8.00	73.61	1,397.40	15.74	53.49	-15.69	1.00	1.00	0.00
1,500.00	9.00	73.61	1,496.30	19.91	67.67	-19.85	1.00	1.00	0.00
1,600.00	10.00	73.61	1,594.93	24.57	83.51	-24.49	1.00	1.00	0.00
1,700.00	10.00	73.61	1,693.41	29.47	100.17	-29.38	0.00	0.00	0.00
1,800.00	10.00	73.61	1,791.89	34.37	116.82	-34.27	0.00	0.00	0.00
1,900.00	10.00	73.61	1,890.37	39.27	133.48	-39.15	0.00	0.00	0.00
2,000.00	10.00	73.61	1,988.85	44.17	150.14	-44.04	0.00	0.00	0.00
2,100.00	10.00	73.61	2,087.33	49.07	166.80	-48.93	0.00	0.00	0.00
2,200.00	10.00	73.61	2,185.82	53.97	183.46	-53.81	0.00	0.00	0.00
2,300.00	10.00	73.61	2,284.30	58.87	200.12	-58.70	0.00	0.00	0.00
2,400.00	10.00	73.61	2,382.78	63.78	216.78	-63.59	0.00	0.00	0.00
2,500.00	10.00	73.61	2,481.26	68.68	233.44	-68.47	0.00	0.00	0.00
2,600.00	10.00	73.61	2,579.74	73.58	250.09	-73.36	0.00	0.00	0.00
2,700.00	10.00	73.61	2,678.22	78.48	266.75	-78.25	0.00	0.00	0.00
2,800.00	10.00	73.61	2,776.70	83.38	283.41	-83.13	0.00	0.00	0.00
2,900.00	10.00	73.61	2,875.18	88.28	300.07	-88.02	0.00	0.00	0.00
3,000.00	10.00	73.61	2,973.66	93.18	316.73	-92.90	0.00	0.00	0.00
3,100.00	10.00	73.61	3,072.14	98.08	333.39	-97.79	0.00	0.00	0.00
3,200.00	10.00	73.61	3,170.62	102.98	350.05	-102.68	0.00	0.00	0.00
3,300.00	10.00	73.61	3,269.10	107.88	366.71	-107.56	0.00	0.00	0.00
3,400.00	10.00	73.61	3,367.58	112.79	383.37	-112.45	0.00	0.00	0.00
3,500.00	10.00	73.61	3,466.07	117.69	400.02	-117.34	0.00	0.00	0.00
3,600.00	10.00	73.61	3,564.55	122.59	416.68	-122.22	0.00	0.00	0.00
3,700.00	10.00	73.61	3,663.03	127.49	433.34	-127.11	0.00	0.00	0.00
3,800.00	10.00	73.61	3,761.51	132.39	450.00	-132.00	0.00	0.00	0.00
3,900.00	10.00	73.61	3,859.99	137.29	466.66	-136.88	0.00	0.00	0.00
4,000.00	10.00	73.61	3,958.47	142.19	483.32	-141.77	0.00	0.00	0.00
4,100.00	10.00	73.61	4,056.95	147.09	499.98	-146.66	0.00	0.00	0.00
4,200.00	10.00	73.61	4,155.43	151.99	516.64	-151.54	0.00	0.00	0.00
4,300.00	10.00	73.61	4,253.91	156.89	533.30	-156.43	0.00	0.00	0.00
4,400.00	10.00	73.61	4,352.39	161.80	549.95	-161.32	0.00	0.00	0.00
4,500.00	10.00	73.61	4,450.87	166.70	566.61	-166.20	0.00	0.00	0.00
4,600.00	10.00	73.61	4,549.35	171.60	583.27	-171.09	0.00	0.00	0.00
4,700.00	10.00	73.61	4,647.83	176.50	599.93	-175.97	0.00	0.00	0.00
4,800.00	10.00	73.61	4,746.32	181.40	616.59	-180.86	0.00	0.00	0.00
4,900.00	10.00	73.61	4,844.80	186.30	633.25	-185.75	0.00	0.00	0.00
5,004.72	10.00	73.61	4,947.93	191.43	650.69	-190.86	0.00	0.00	0.00
5,100.00	9.05	73.61	5,041.89	195.88	665.82	-195.30	1.00	-1.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	8.05	73.61	5,140.78	200.08	680.07	-199.48	1.00	-1.00	0.00
5,300.00	7.05	73.61	5,239.91	203.78	692.67	-203.18	1.00	-1.00	0.00
5,400.00	6.05	73.61	5,339.26	207.00	703.61	-206.39	1.00	-1.00	0.00
5,500.00	5.05	73.61	5,438.79	209.73	712.89	-209.11	1.00	-1.00	0.00
5,600.00	4.05	73.61	5,538.47	211.97	720.49	-211.34	1.00	-1.00	0.00
5,700.00	3.05	73.61	5,638.28	213.71	726.43	-213.08	1.00	-1.00	0.00
5,800.00	2.05	73.61	5,738.18	214.97	730.69	-214.33	1.00	-1.00	0.00
5,900.00	1.05	73.61	5,838.14	215.73	733.28	-215.09	1.00	-1.00	0.00
6,004.72	0.00	0.00	5,942.86	216.00	734.20	-215.36	1.00	-1.00	0.00
6,100.00	0.00	0.00	6,038.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,200.00	0.00	0.00	6,138.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,300.00	0.00	0.00	6,238.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,400.00	0.00	0.00	6,338.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,500.00	0.00	0.00	6,438.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,600.00	0.00	0.00	6,538.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,700.00	0.00	0.00	6,638.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,800.00	0.00	0.00	6,738.14	216.00	734.20	-215.36	0.00	0.00	0.00
6,900.00	0.00	0.00	6,838.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,000.00	0.00	0.00	6,938.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,100.00	0.00	0.00	7,038.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,200.00	0.00	0.00	7,138.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,300.00	0.00	0.00	7,238.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,400.00	0.00	0.00	7,338.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,500.00	0.00	0.00	7,438.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,538.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,638.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,738.14	216.00	734.20	-215.36	0.00	0.00	0.00
7,900.00	0.00	0.00	7,838.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,000.00	0.00	0.00	7,938.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,100.00	0.00	0.00	8,038.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,200.00	0.00	0.00	8,138.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,300.00	0.00	0.00	8,238.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,400.00	0.00	0.00	8,338.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,500.00	0.00	0.00	8,438.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,600.00	0.00	0.00	8,538.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,700.00	0.00	0.00	8,638.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,800.00	0.00	0.00	8,738.14	216.00	734.20	-215.36	0.00	0.00	0.00
8,900.00	0.00	0.00	8,838.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,000.00	0.00	0.00	8,938.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,100.00	0.00	0.00	9,038.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,200.00	0.00	0.00	9,138.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,300.00	0.00	0.00	9,238.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,400.00	0.00	0.00	9,338.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,500.00	0.00	0.00	9,438.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,600.00	0.00	0.00	9,538.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,700.00	0.00	0.00	9,638.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,800.00	0.00	0.00	9,738.14	216.00	734.20	-215.36	0.00	0.00	0.00
9,900.00	0.00	0.00	9,838.14	216.00	734.20	-215.36	0.00	0.00	0.00
10,000.00	0.00	0.00	9,938.14	216.00	734.20	-215.36	0.00	0.00	0.00
10,100.00	0.00	0.00	10,038.14	216.00	734.20	-215.36	0.00	0.00	0.00
10,200.00	0.00	0.00	10,138.14	216.00	734.20	-215.36	0.00	0.00	0.00
10,300.00	0.00	0.00	10,238.14	216.00	734.20	-215.36	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
10,365.36	0.00	0.00	10,303.50	216.00	734.20	-215.36	0.00	0.00	0.00
10,400.00	3.81	179.95	10,338.11	214.85	734.20	-214.21	11.00	11.00	0.00
10,450.00	9.31	179.95	10,387.76	209.14	734.21	-208.50	11.00	11.00	0.00
10,500.00	14.81	179.95	10,436.64	198.70	734.22	-198.06	11.00	11.00	0.00
10,550.00	20.31	179.95	10,484.29	183.62	734.23	-182.98	11.00	11.00	0.00
10,600.00	25.81	179.95	10,530.28	164.04	734.25	-163.40	11.00	11.00	0.00
10,650.00	31.31	179.95	10,574.18	140.14	734.27	-139.50	11.00	11.00	0.00
10,700.00	36.81	179.95	10,615.59	112.15	734.30	-111.51	11.00	11.00	0.00
10,750.00	42.31	179.95	10,654.12	80.32	734.33	-79.68	11.00	11.00	0.00
10,800.00	47.81	179.95	10,689.42	44.94	734.36	-44.30	11.00	11.00	0.00
10,850.00	53.31	179.95	10,721.18	6.34	734.40	-5.70	11.00	11.00	0.00
10,900.00	58.81	179.95	10,749.08	-35.12	734.44	35.76	11.00	11.00	0.00
10,950.00	64.31	179.95	10,772.88	-79.07	734.48	79.71	11.00	11.00	0.00
11,000.00	69.81	179.95	10,792.37	-125.10	734.52	125.74	11.00	11.00	0.00
11,050.00	75.31	179.95	10,807.34	-172.78	734.56	173.42	11.00	11.00	0.00
11,100.00	80.81	179.95	10,817.69	-221.68	734.61	222.32	11.00	11.00	0.00
11,150.00	86.31	179.95	10,823.29	-271.35	734.66	271.99	11.00	11.00	0.00
11,176.29	89.20	179.95	10,824.32	-297.62	734.68	298.26	11.00	11.00	0.00
11,200.00	89.20	179.95	10,824.65	-321.32	734.70	321.96	0.00	0.00	0.00
11,300.00	89.20	179.95	10,826.04	-421.31	734.80	421.95	0.00	0.00	0.00
11,400.00	89.20	179.95	10,827.44	-521.30	734.89	521.94	0.00	0.00	0.00
11,500.00	89.20	179.95	10,828.83	-621.29	734.98	621.93	0.00	0.00	0.00
11,600.00	89.20	179.95	10,830.22	-721.28	735.08	721.93	0.00	0.00	0.00
11,700.00	89.20	179.95	10,831.61	-821.27	735.17	821.92	0.00	0.00	0.00
11,800.00	89.20	179.95	10,833.00	-921.26	735.27	921.91	0.00	0.00	0.00
11,900.00	89.20	179.95	10,834.40	-1,021.25	735.36	1,021.90	0.00	0.00	0.00
12,000.00	89.20	179.95	10,835.79	-1,121.24	735.45	1,121.89	0.00	0.00	0.00
12,100.00	89.20	179.95	10,837.18	-1,221.24	735.55	1,221.88	0.00	0.00	0.00
12,200.00	89.20	179.95	10,838.57	-1,321.23	735.64	1,321.87	0.00	0.00	0.00
12,300.00	89.20	179.95	10,839.97	-1,421.22	735.73	1,421.86	0.00	0.00	0.00
12,400.00	89.20	179.95	10,841.36	-1,521.21	735.83	1,521.85	0.00	0.00	0.00
12,500.00	89.20	179.95	10,842.75	-1,621.20	735.92	1,621.84	0.00	0.00	0.00
12,600.00	89.20	179.95	10,844.14	-1,721.19	736.02	1,721.83	0.00	0.00	0.00
12,700.00	89.20	179.95	10,845.53	-1,821.18	736.11	1,821.82	0.00	0.00	0.00
12,800.00	89.20	179.95	10,846.93	-1,921.17	736.20	1,921.81	0.00	0.00	0.00
12,900.00	89.20	179.95	10,848.32	-2,021.16	736.30	2,021.80	0.00	0.00	0.00
13,000.00	89.20	179.95	10,849.71	-2,121.15	736.39	2,121.79	0.00	0.00	0.00
13,100.00	89.20	179.95	10,851.10	-2,221.14	736.48	2,221.78	0.00	0.00	0.00
13,200.00	89.20	179.95	10,852.50	-2,321.13	736.58	2,321.77	0.00	0.00	0.00
13,300.00	89.20	179.95	10,853.89	-2,421.12	736.67	2,421.76	0.00	0.00	0.00
13,400.00	89.20	179.95	10,855.28	-2,521.11	736.76	2,521.75	0.00	0.00	0.00
13,500.00	89.20	179.95	10,856.67	-2,621.10	736.86	2,621.74	0.00	0.00	0.00
13,600.00	89.20	179.95	10,858.06	-2,721.09	736.95	2,721.73	0.00	0.00	0.00
13,700.00	89.20	179.95	10,859.46	-2,821.08	737.05	2,821.72	0.00	0.00	0.00
13,800.00	89.20	179.95	10,860.85	-2,921.07	737.14	2,921.71	0.00	0.00	0.00
13,900.00	89.20	179.95	10,862.24	-3,021.06	737.23	3,021.70	0.00	0.00	0.00
14,000.00	89.20	179.95	10,863.63	-3,121.05	737.33	3,121.69	0.00	0.00	0.00
14,100.00	89.20	179.95	10,865.03	-3,221.04	737.42	3,221.68	0.00	0.00	0.00
14,200.00	89.20	179.95	10,866.42	-3,321.03	737.51	3,321.67	0.00	0.00	0.00
14,300.00	89.20	179.95	10,867.81	-3,421.02	737.61	3,421.66	0.00	0.00	0.00
14,400.00	89.20	179.95	10,869.20	-3,521.01	737.70	3,521.65	0.00	0.00	0.00
14,500.00	89.20	179.95	10,870.59	-3,621.00	737.80	3,621.64	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well 134H
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:	134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
14,600.00	89.20	179.95	10,871.99	-3,720.99	737.89	3,721.63	0.00	0.00	0.00
14,700.00	89.20	179.95	10,873.38	-3,820.98	737.98	3,821.62	0.00	0.00	0.00
14,800.00	89.20	179.95	10,874.77	-3,920.97	738.08	3,921.61	0.00	0.00	0.00
14,900.00	89.20	179.95	10,876.16	-4,020.96	738.17	4,021.61	0.00	0.00	0.00
15,000.00	89.20	179.95	10,877.56	-4,120.95	738.26	4,121.60	0.00	0.00	0.00
15,100.00	89.20	179.95	10,878.95	-4,220.94	738.36	4,221.59	0.00	0.00	0.00
15,200.00	89.20	179.95	10,880.34	-4,320.93	738.45	4,321.58	0.00	0.00	0.00
15,300.00	89.20	179.95	10,881.73	-4,420.92	738.54	4,421.57	0.00	0.00	0.00
15,400.00	89.20	179.95	10,883.12	-4,520.91	738.64	4,521.56	0.00	0.00	0.00
15,500.00	89.20	179.95	10,884.52	-4,620.90	738.73	4,621.55	0.00	0.00	0.00
15,600.00	89.20	179.95	10,885.91	-4,720.89	738.83	4,721.54	0.00	0.00	0.00
15,700.00	89.20	179.95	10,887.30	-4,820.88	738.92	4,821.53	0.00	0.00	0.00
15,786.12	89.20	179.95	10,888.50	-4,907.00	739.00	4,907.64	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
FPP - Verna 134H v3	0.00	0.00	10,820.00	166.00	735.00	586,058.00	727,781.00	32.609000	-103.593621
- plan misses target center by 178.06usft at 10800.00usft MD (10689.42 TVD, 44.94 N, 734.36 E)									
- Point									
BHL - Verna 134H v3	0.00	0.00	10,888.50	-4,907.00	739.00	580,985.00	727,785.00	32.595056	-103.593723
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	Start Build 1.00
1,600.00	1,594.93	24.57	83.51	Start 3404.72 hold at 1600.00 MD
5,004.72	4,947.93	191.43	650.69	Start Drop -1.00
6,004.72	5,942.86	216.00	734.20	Start 4360.64 hold at 6004.72 MD
10,365.36	10,303.50	216.00	734.20	Start DLS 11.00 TFO 179.95
11,176.29	10,824.32	-297.62	734.68	Start 4609.83 hold at 11176.29 MD
15,786.12	10,888.50	-4,907.00	739.00	TD at 15786.12