

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.*Carlsbad Field Office
Lease Serial No. NMMN 2418
If Indian, Allottee or Tribe Name**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-XXXX

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

Sec 17 T24S R34E NWNW 326FNL 410FWL
32.223934 N Lat, 103.499168 W Lon

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

8. Well Name and No.

CARL MOTTEK FEDERAL 121H

9. API Well No.

30-025-44936-00-X1

10. Field and Pool or Exploratory Area

RED HILLS-BONE SPRING, NORTH

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	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 recompleate 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 recompleation 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. RL0015172

Please see attached table for change in production casing. Change in Production casing for production top from 5 1/2" 20# P110 BTC/TXP to 5 1/2" 23# VAM HTTC. Change in production bottom from 5 1/2" 20# P110 BTC/TXP to 5 1/2" 20# VAM DWC/C is plus. Spec Sheets attached for 5 1/2" 23# VAM HTTC & 5 1/2" 20# VAM DWC/C is plus. Change in proposed drilling depth to 15,702' MD/10,050' TVD from 15,514' MD/10,750' MD. Revised direction plan attached.

Name	Hole Size	Csg Size	Wt/Grade	Thread Collar	Setting Depth	TOC
Surface	17 1/2"	13 3/8"(new)	54.5#J-55	BTC	1,300'	Surface
Interm	12 1/4"	9 5/8"(new)	40# J-55	BTC	5,300'	Surface

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

Electronic Submission #441660 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/30/2018 (19PP0249SE)

Name (Printed/Typed) TAMMY R LINK

Title PRODUCTION ANALYST

Signature (Electronic Submission)

Date 10/29/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Mustafa Hagne</u>	Title <u>Petroleum Engineer</u>	Date <u>11-01-2018</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)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

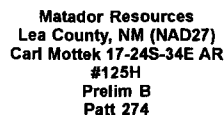
Additional data for EC transaction #441660 that would not fit on the form

32. Additional remarks, continued

Prod Top 8 3/4" 5 1/2"(new) 20# P-110 VAM HTTC 11,070' 4300'
Prod Botm 8 3/4" 5 1/2"(new) 20# P-110 DWC/C IS Plus 15,702' 4300'

Please e-mail all questions to James Long jlong@matadorresources.com

- All previous CoAm still apply.



+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	446144.00	758138.00	32.223810	-103.498595	

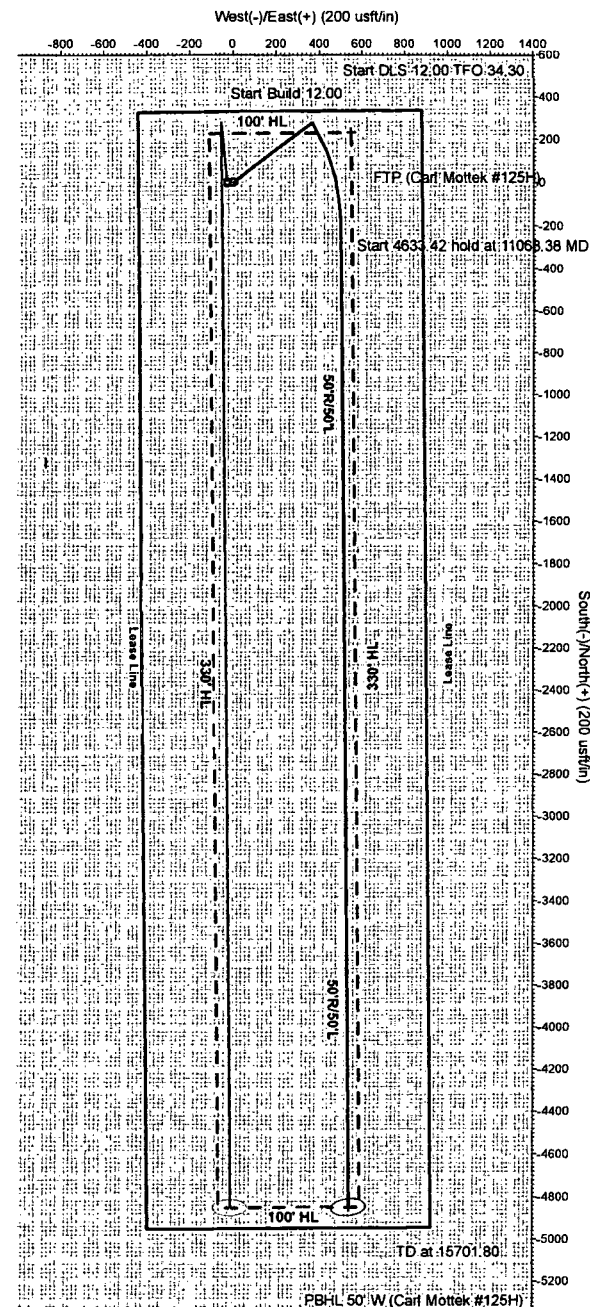
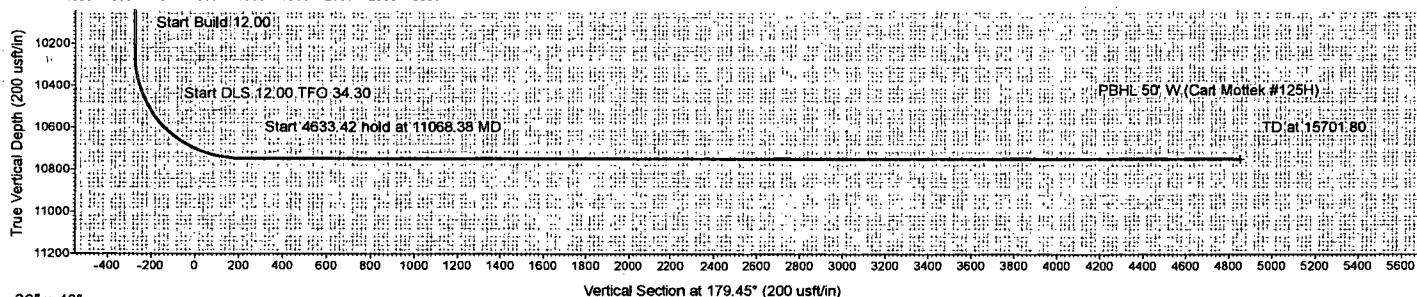
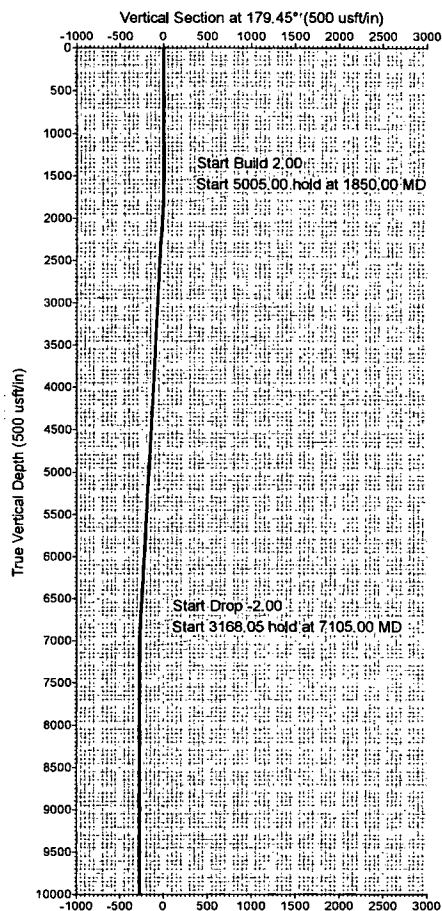
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	
3	1850.00	5.00	52.63	1849.68	6.02	8.68	2.00	-6.53	
4	6855.00	5.00	52.63	6835.64	271.38	355.34	0.00	-267.96	
5	7105.00	0.00	0.00	7085.32	278.00	-364.00	2.00	-274.49	
6	10273.05	0.00	0.00	10253.37	278.00	-364.00	0.00	-274.49	
7	10648.05	45.00	153.70	10590.99	152.63	425.96	12.00	-148.53	
8	11068.38	90.00	179.45	10750.00	-214.80	498.57	12.00	215.57	
9	15701.80	90.00	179.45	10750.00	-4848.00	543.00	0.00	4852.29	PBHL 50' W (Carl Mottek #125H)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Carl Mottek #125H)	0.00	230.00	545.00	448374.00	758683.00
PBHL 50' W (Carl Mottek #125H)	10750.00	-4848.00	543.00	441298.00	758681.00

A diagram showing a sphere with a horizontal line passing through its center. A point is marked on the upper surface of the sphere. From this point, three arrows originate: a vertical arrow pointing upwards labeled 'G', and two diagonal arrows pointing outwards and upwards, one to the left labeled 'T' and one to the right labeled 'M'.

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.27°
Magnetic Field
Strength: 47962.3snT
Dip Angle: 59.92°
Date: 11/5/2018
Model: HDGM

Total Magnetic Corr. (M to G): 6.27°



Matador Resources

**Lea County, NM (NAD27)
Carl Mottek 17-24S-34E AR
#125H**

OH

Plan: Prelim B

Standard Planning Report

29 October, 2018

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #125H
Company:	Matador Resources	TVD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

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:	Carl Mottek 17-24S-34E AR		
Site Position:		Northing:	446,143.00 usft
From:	Map	Easting:	758,108.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.223808
		Longitude:	-103.498692
		Grid Convergence:	0.45 °

Well:	#125H				
Well Position	+N/-S	1.00 usft	Northing:	446,144.00 usft	Latitude: 32.223811
	+E/-W	30.00 usft	Easting:	758,138.00 usft	Longitude: -103.498595
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level: 3,578.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	11/5/2018	6.72	59.92	47,962.30

Design:	Prelim B			
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	179.45

Plan Survey Tool Program	Date:	10/29/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	15,701.80 Prelim B (OH)	MWD+HDGM	
			OWSG MWD + HRGM	

Pro Directional Planning Report

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Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'±3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,850.00	5.00	52.63	1,849.68	6.62	8.66	2.00	2.00	0.00	52.63	
6,855.00	5.00	52.63	6,835.64	271.38	355.34	0.00	0.00	0.00	0.00	
7,105.00	0.00	0.00	7,085.32	278.00	364.00	2.00	-2.00	0.00	180.00	
10,273.05	0.00	0.00	10,253.37	278.00	364.00	0.00	0.00	0.00	0.00	
10,648.05	45.00	153.70	10,590.99	152.63	425.96	12.00	12.00	0.00	153.70	
11,068.38	90.00	179.45	10,750.00	-214.80	498.57	12.00	10.71	6.13	34.30	
15,701.80	90.00	179.45	10,750.00	-4,848.00	543.00	0.00	0.00	0.00	0.00	0.00 PBHL 50' W (Carl M

Pro Directional Planning Report

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Company:	Matador Resources	TVD Reference:	KB @ 3606.5'±3578'+28.5' @ 3606.50usft (Patt 274)
Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'±3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,700.00	2.00	52.63	1,699.98	1.06	1.39	-1.05	2.00	2.00	0.00
1,800.00	4.00	52.63	1,799.84	4.24	5.55	-4.18	2.00	2.00	0.00
1,850.00	5.00	52.63	1,849.68	6.62	8.66	-6.53	2.00	2.00	0.00
Start 5005.00 hold at 1850.00 MD									
1,900.00	5.00	52.63	1,899.49	9.26	12.13	-9.14	0.00	0.00	0.00
2,000.00	5.00	52.63	1,999.11	14.55	19.05	-14.37	0.00	0.00	0.00
2,100.00	5.00	52.63	2,098.73	19.84	25.98	-19.59	0.00	0.00	0.00
2,200.00	5.00	52.63	2,198.35	25.13	32.91	-24.81	0.00	0.00	0.00
2,300.00	5.00	52.63	2,297.97	30.42	39.83	-30.04	0.00	0.00	0.00
2,400.00	5.00	52.63	2,397.59	35.71	46.76	-35.26	0.00	0.00	0.00
2,500.00	5.00	52.63	2,497.21	41.00	53.69	-40.48	0.00	0.00	0.00
2,600.00	5.00	52.63	2,596.83	46.29	60.61	-45.71	0.00	0.00	0.00
2,700.00	5.00	52.63	2,696.45	51.58	67.54	-50.93	0.00	0.00	0.00
2,800.00	5.00	52.63	2,796.07	56.87	74.47	-56.15	0.00	0.00	0.00
2,900.00	5.00	52.63	2,895.69	62.16	81.39	-61.38	0.00	0.00	0.00
3,000.00	5.00	52.63	2,995.31	67.45	88.32	-66.60	0.00	0.00	0.00
3,100.00	5.00	52.63	3,094.93	72.74	95.25	-71.82	0.00	0.00	0.00
3,200.00	5.00	52.63	3,194.55	78.03	102.17	-77.05	0.00	0.00	0.00
3,300.00	5.00	52.63	3,294.17	83.32	109.10	-82.27	0.00	0.00	0.00
3,400.00	5.00	52.63	3,393.78	88.61	116.02	-87.49	0.00	0.00	0.00
3,500.00	5.00	52.63	3,493.40	93.90	122.95	-92.72	0.00	0.00	0.00
3,600.00	5.00	52.63	3,593.02	99.19	129.88	-97.94	0.00	0.00	0.00
3,700.00	5.00	52.63	3,692.64	104.48	136.80	-103.16	0.00	0.00	0.00
3,800.00	5.00	52.63	3,792.26	109.77	143.73	-108.39	0.00	0.00	0.00
3,900.00	5.00	52.63	3,891.88	115.06	150.66	-113.61	0.00	0.00	0.00
4,000.00	5.00	52.63	3,991.50	120.35	157.58	-118.83	0.00	0.00	0.00
4,100.00	5.00	52.63	4,091.12	125.64	164.51	-124.06	0.00	0.00	0.00
4,200.00	5.00	52.63	4,190.74	130.93	171.44	-129.28	0.00	0.00	0.00
4,300.00	5.00	52.63	4,290.36	136.22	178.36	-134.50	0.00	0.00	0.00
4,400.00	5.00	52.63	4,389.98	141.51	185.29	-139.73	0.00	0.00	0.00
4,500.00	5.00	52.63	4,489.60	146.80	192.22	-144.95	0.00	0.00	0.00
4,600.00	5.00	52.63	4,589.22	152.09	199.14	-150.17	0.00	0.00	0.00
4,700.00	5.00	52.63	4,688.84	157.38	206.07	-155.40	0.00	0.00	0.00
4,800.00	5.00	52.63	4,788.46	162.67	213.00	-160.62	0.00	0.00	0.00

Pro Directional Planning Report

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Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	5.00	52.63	4,888.08	167.96	219.92	-165.84	0.00	0.00	0.00
5,000.00	5.00	52.63	4,987.70	173.25	226.85	-171.07	0.00	0.00	0.00
5,100.00	5.00	52.63	5,087.32	178.54	233.78	-176.29	0.00	0.00	0.00
5,200.00	5.00	52.63	5,186.94	183.83	240.70	-181.51	0.00	0.00	0.00
5,300.00	5.00	52.63	5,286.55	189.12	247.63	-186.74	0.00	0.00	0.00
5,400.00	5.00	52.63	5,386.17	194.41	254.56	-191.96	0.00	0.00	0.00
5,500.00	5.00	52.63	5,485.79	199.70	261.48	-197.18	0.00	0.00	0.00
5,600.00	5.00	52.63	5,585.41	204.99	268.41	-202.41	0.00	0.00	0.00
5,700.00	5.00	52.63	5,685.03	210.28	275.33	-207.63	0.00	0.00	0.00
5,800.00	5.00	52.63	5,784.65	215.57	282.26	-212.85	0.00	0.00	0.00
5,900.00	5.00	52.63	5,884.27	220.86	289.19	-218.08	0.00	0.00	0.00
6,000.00	5.00	52.63	5,983.89	226.15	296.11	-223.30	0.00	0.00	0.00
6,100.00	5.00	52.63	6,083.51	231.44	303.04	-228.52	0.00	0.00	0.00
6,200.00	5.00	52.63	6,183.13	236.73	309.97	-233.75	0.00	0.00	0.00
6,300.00	5.00	52.63	6,282.75	242.02	316.89	-238.97	0.00	0.00	0.00
6,400.00	5.00	52.63	6,382.37	247.31	323.82	-244.19	0.00	0.00	0.00
6,500.00	5.00	52.63	6,481.99	252.60	330.75	-249.42	0.00	0.00	0.00
6,600.00	5.00	52.63	6,581.61	257.89	337.67	-254.64	0.00	0.00	0.00
6,700.00	5.00	52.63	6,681.23	263.18	344.60	-259.86	0.00	0.00	0.00
6,800.00	5.00	52.63	6,780.85	268.47	351.53	-265.09	0.00	0.00	0.00
6,855.00	5.00	52.63	6,835.64	271.38	355.34	-267.96	0.00	0.00	0.00
Start Drop -2.00									
6,900.00	4.10	52.63	6,880.50	273.55	358.17	-270.10	2.00	-2.00	0.00
7,000.00	2.10	52.63	6,980.34	276.83	362.47	-273.34	2.00	-2.00	0.00
7,105.00	0.00	0.00	7,085.32	278.00	364.00	-274.49	2.00	-2.00	0.00
Start 3168.05 hold at 7105.00 MD									
7,200.00	0.00	0.00	7,180.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,300.00	0.00	0.00	7,280.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,400.00	0.00	0.00	7,380.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,500.00	0.00	0.00	7,480.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,600.00	0.00	0.00	7,580.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,700.00	0.00	0.00	7,680.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,800.00	0.00	0.00	7,780.32	278.00	364.00	-274.49	0.00	0.00	0.00
7,900.00	0.00	0.00	7,880.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,000.00	0.00	0.00	7,980.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,100.00	0.00	0.00	8,080.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,200.00	0.00	0.00	8,180.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,300.00	0.00	0.00	8,280.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,400.00	0.00	0.00	8,380.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,500.00	0.00	0.00	8,480.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,600.00	0.00	0.00	8,580.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,700.00	0.00	0.00	8,680.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,800.00	0.00	0.00	8,780.32	278.00	364.00	-274.49	0.00	0.00	0.00
8,900.00	0.00	0.00	8,880.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,000.00	0.00	0.00	8,980.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,100.00	0.00	0.00	9,080.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,200.00	0.00	0.00	9,180.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,300.00	0.00	0.00	9,280.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,400.00	0.00	0.00	9,380.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,500.00	0.00	0.00	9,480.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,600.00	0.00	0.00	9,580.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,700.00	0.00	0.00	9,680.32	278.00	364.00	-274.49	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #125H
Company:	Matador Resources	TVD Reference:	KB @ 3606.5' = 3578' + 28.5' @ 3606.50usft (Patt 274)
Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5' = 3578' + 28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,800.00	0.00	0.00	9,780.32	278.00	364.00	-274.49	0.00	0.00	0.00
9,900.00	0.00	0.00	9,880.32	278.00	364.00	-274.49	0.00	0.00	0.00
10,000.00	0.00	0.00	9,980.32	278.00	364.00	-274.49	0.00	0.00	0.00
10,100.00	0.00	0.00	10,080.32	278.00	364.00	-274.49	0.00	0.00	0.00
10,200.00	0.00	0.00	10,180.32	278.00	364.00	-274.49	0.00	0.00	0.00
10,273.05	0.00	0.00	10,253.37	278.00	364.00	-274.49	0.00	0.00	0.00
Start Build 12.00									
10,275.00	0.23	153.70	10,255.32	278.00	364.00	-274.49	12.00	12.00	0.00
10,300.00	3.23	153.70	10,280.31	277.32	364.34	-273.81	12.00	12.00	0.00
10,325.00	6.23	153.70	10,305.22	275.47	365.25	-271.95	12.00	12.00	0.00
10,350.00	9.23	153.70	10,329.99	272.45	366.74	-268.92	12.00	12.00	0.00
10,375.00	12.23	153.70	10,354.55	268.28	368.80	-264.73	12.00	12.00	0.00
10,400.00	15.23	153.70	10,378.83	262.96	371.43	-259.38	12.00	12.00	0.00
10,425.00	18.23	153.70	10,402.77	256.51	374.62	-252.90	12.00	12.00	0.00
10,450.00	21.23	153.70	10,426.30	248.94	378.36	-245.30	12.00	12.00	0.00
10,475.00	24.23	153.70	10,449.35	240.28	382.64	-236.60	12.00	12.00	0.00
10,500.00	27.23	153.70	10,471.87	230.55	387.45	-226.82	12.00	12.00	0.00
10,525.00	30.23	153.70	10,493.79	219.78	392.78	-216.00	12.00	12.00	0.00
10,550.00	33.23	153.70	10,515.05	207.99	398.60	-204.15	12.00	12.00	0.00
10,575.00	36.23	153.70	10,535.59	195.22	404.91	-191.33	12.00	12.00	0.00
10,600.00	39.23	153.70	10,555.36	181.51	411.69	-177.55	12.00	12.00	0.00
10,625.00	42.23	153.70	10,574.30	166.88	418.92	-162.85	12.00	12.00	0.00
10,648.05	45.00	153.70	10,590.99	152.63	425.96	-148.53	12.00	12.00	0.00
Start DLS 12.00 TFO 34.30									
10,650.00	45.19	153.89	10,592.37	151.39	426.57	-147.29	12.00	9.92	9.53
10,675.00	47.70	156.16	10,609.59	134.97	434.21	-130.79	12.00	10.02	9.11
10,700.00	50.25	158.27	10,626.00	117.58	441.51	-113.34	12.00	10.19	8.41
10,725.00	52.83	160.22	10,641.55	99.28	448.44	-94.97	12.00	10.33	7.80
10,750.00	55.44	162.04	10,656.20	80.11	454.99	-75.74	12.00	10.45	7.28
10,775.00	58.08	163.75	10,669.90	60.12	461.13	-55.70	12.00	10.55	6.84
10,800.00	60.74	165.36	10,682.62	39.38	466.86	-34.90	12.00	10.64	6.46
10,825.00	63.41	166.89	10,694.33	17.94	472.15	-13.41	12.00	10.71	6.13
10,850.00	66.11	168.35	10,704.99	-4.15	477.00	8.72	12.00	10.77	5.85
10,875.00	68.81	169.76	10,714.57	-26.81	481.38	31.43	12.00	10.83	5.61
10,900.00	71.53	171.11	10,723.05	-50.00	485.28	54.66	12.00	10.87	5.40
10,925.00	74.26	172.42	10,730.41	-73.65	488.70	78.33	12.00	10.91	5.24
10,950.00	76.99	173.69	10,736.61	-97.68	491.63	102.40	12.00	10.94	5.10
10,975.00	79.73	174.94	10,741.65	-122.05	494.06	126.78	12.00	10.96	4.99
11,000.00	82.48	176.16	10,745.52	-146.67	495.97	151.42	12.00	10.98	4.90
11,025.00	85.23	177.37	10,748.20	-171.48	497.37	176.25	12.00	10.99	4.84
11,050.00	87.98	178.57	10,749.68	-196.42	498.26	201.19	12.00	11.00	4.80
11,068.38	90.00	179.45	10,750.00	-214.80	498.57	219.57	12.00	11.01	4.78
Start 4633.42 hold at 11068.38 MD									
11,100.00	90.00	179.45	10,750.00	-246.41	498.88	251.19	0.00	0.00	0.00
11,200.00	90.00	179.45	10,750.00	-346.41	499.84	351.19	0.00	0.00	0.00
11,300.00	90.00	179.45	10,750.00	-446.40	500.79	451.19	0.00	0.00	0.00
11,400.00	90.00	179.45	10,750.00	-546.40	501.75	551.19	0.00	0.00	0.00
11,500.00	90.00	179.45	10,750.00	-646.39	502.71	651.19	0.00	0.00	0.00
11,600.00	90.00	179.45	10,750.00	-746.39	503.67	751.19	0.00	0.00	0.00
11,700.00	90.00	179.45	10,750.00	-846.38	504.63	851.19	0.00	0.00	0.00
11,800.00	90.00	179.45	10,750.00	-946.38	505.59	951.19	0.00	0.00	0.00
11,900.00	90.00	179.45	10,750.00	-1,046.37	506.55	1,051.19	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #125H
Company:	Matador Resources	TVD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,000.00	90.00	179.45	10,750.00	-1,146.37	507.51	1,151.19	0.00	0.00	0.00
12,100.00	90.00	179.45	10,750.00	-1,246.37	508.46	1,251.19	0.00	0.00	0.00
12,200.00	90.00	179.45	10,750.00	-1,346.36	509.42	1,351.19	0.00	0.00	0.00
12,300.00	90.00	179.45	10,750.00	-1,446.36	510.38	1,451.19	0.00	0.00	0.00
12,400.00	90.00	179.45	10,750.00	-1,546.35	511.34	1,551.19	0.00	0.00	0.00
12,500.00	90.00	179.45	10,750.00	-1,646.35	512.30	1,651.19	0.00	0.00	0.00
12,600.00	90.00	179.45	10,750.00	-1,746.34	513.26	1,751.19	0.00	0.00	0.00
12,700.00	90.00	179.45	10,750.00	-1,846.34	514.22	1,851.19	0.00	0.00	0.00
12,800.00	90.00	179.45	10,750.00	-1,946.33	515.18	1,951.19	0.00	0.00	0.00
12,900.00	90.00	179.45	10,750.00	-2,046.33	516.14	2,051.19	0.00	0.00	0.00
13,000.00	90.00	179.45	10,750.00	-2,146.32	517.09	2,151.19	0.00	0.00	0.00
13,100.00	90.00	179.45	10,750.00	-2,246.32	518.05	2,251.19	0.00	0.00	0.00
13,200.00	90.00	179.45	10,750.00	-2,346.32	519.01	2,351.19	0.00	0.00	0.00
13,300.00	90.00	179.45	10,750.00	-2,446.31	519.97	2,451.19	0.00	0.00	0.00
13,400.00	90.00	179.45	10,750.00	-2,546.31	520.93	2,551.19	0.00	0.00	0.00
13,500.00	90.00	179.45	10,750.00	-2,646.30	521.89	2,651.19	0.00	0.00	0.00
13,600.00	90.00	179.45	10,750.00	-2,746.30	522.85	2,751.19	0.00	0.00	0.00
13,700.00	90.00	179.45	10,750.00	-2,846.29	523.81	2,851.19	0.00	0.00	0.00
13,800.00	90.00	179.45	10,750.00	-2,946.29	524.76	2,951.19	0.00	0.00	0.00
13,900.00	90.00	179.45	10,750.00	-3,046.28	525.72	3,051.19	0.00	0.00	0.00
14,000.00	90.00	179.45	10,750.00	-3,146.28	526.68	3,151.19	0.00	0.00	0.00
14,100.00	90.00	179.45	10,750.00	-3,246.27	527.64	3,251.19	0.00	0.00	0.00
14,200.00	90.00	179.45	10,750.00	-3,346.27	528.60	3,351.19	0.00	0.00	0.00
14,300.00	90.00	179.45	10,750.00	-3,446.26	529.56	3,451.19	0.00	0.00	0.00
14,400.00	90.00	179.45	10,750.00	-3,546.26	530.52	3,551.19	0.00	0.00	0.00
14,500.00	90.00	179.45	10,750.00	-3,646.26	531.48	3,651.19	0.00	0.00	0.00
14,600.00	90.00	179.45	10,750.00	-3,746.25	532.44	3,751.19	0.00	0.00	0.00
14,700.00	90.00	179.45	10,750.00	-3,846.25	533.39	3,851.19	0.00	0.00	0.00
14,800.00	90.00	179.45	10,750.00	-3,946.24	534.35	3,951.19	0.00	0.00	0.00
14,900.00	90.00	179.45	10,750.00	-4,046.24	535.31	4,051.19	0.00	0.00	0.00
15,000.00	90.00	179.45	10,750.00	-4,146.23	536.27	4,151.19	0.00	0.00	0.00
15,100.00	90.00	179.45	10,750.00	-4,246.23	537.23	4,251.19	0.00	0.00	0.00
15,200.00	90.00	179.45	10,750.00	-4,346.22	538.19	4,351.19	0.00	0.00	0.00
15,300.00	90.00	179.45	10,750.00	-4,446.22	539.15	4,451.19	0.00	0.00	0.00
15,400.00	90.00	179.45	10,750.00	-4,546.21	540.11	4,551.19	0.00	0.00	0.00
15,500.00	90.00	179.45	10,750.00	-4,646.21	541.07	4,651.19	0.00	0.00	0.00
15,600.00	90.00	179.45	10,750.00	-4,746.20	542.02	4,751.19	0.00	0.00	0.00
15,701.80	90.00	179.45	10,750.00	-4,848.00	543.00	4,852.99	0.00	0.00	0.00

TD at 15701.80

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #125H
Company:	Matador Resources	TVD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Project:	Lea County, NM (NAD27)	MD Reference:	KB @ 3606.5'=3578'+28.5' @ 3606.50usft (Patt 274)
Site:	Carl Mottek 17-24S-34E AR	North Reference:	Grid
Well:	#125H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim B		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (Carl Mottek #12:	0.00	0.01	0.00	230.00	545.00	446,374.00	758,683.00	32.224431	-103.496827
- plan misses target center by 591.54usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL 50' W (Carl Moi	0.00	0.01	10,750.00	-4,848.00	543.00	441,296.00	758,681.00	32.210473	-103.496961
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	Start Build 2.00
1,850.00	1,849.68	6.62	8.66	Start 5005.00 hold at 1850.00 MD
6,855.00	6,835.64	271.38	355.34	Start Drop -2.00
7,105.00	7,085.32	278.00	364.00	Start 3168.05 hold at 7105.00 MD
10,273.05	10,253.37	278.00	364.00	Start Build 12.00
10,648.05	10,590.99	152.63	425.96	Start DLS 12.00 TFO 34.30
11,068.38	10,750.00	-214.80	498.57	Start 4633.42 hold at 11068.38 MD
15,701.80	10,750.00	-4,848.00	543.00	TD at 15701.80