

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 333287

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-53349
4. Property Code 331615	5. Property Name Joe Hollingsworth Fee	6. Well No. 221H

7. Surface Location

UL - Lot D	Section 21	Township 22S	Range 28E	Lot Idn	Feet From 824	N/S Line N	Feet From 400	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	---------	------------------	---------------	------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot B	Section 22	Township 22S	Range 28E	Lot Idn B	Feet From 660	N/S Line N	Feet From 1670	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	--------------	------------------	---------------	-------------------	---------------	----------------

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
----------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3072
16. Multiple N	17. Proposed Depth 18739	18. Formation Wolfcamp	19. Contractor	20. Spud Date 3/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	405	0
Int1	9.875	7.625	29.7	9387	2215	0
Prod	6.75	5.5	20	18739	1095	9187

Casing/Cement Program: Additional Comments

Matador requests optionality to use a DV Tool Packer at 2800' on the intermediate string.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Brett A Jennings	Approved By: Katherine Pickford	
Title: Regulatory Analyst	Title: Geoscientist	
Email Address: brett.jennings@matadorresources.com	Approved Date: 1/30/2023	Expiration Date: 1/30/2025
Date: 1/30/2023	Phone: 972-629-2160	Conditions of Approval Attached

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 30-015-53349	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 331615	⁵ Property Name JOE HOLLINGSWORTH FEE	
⁷ OGRID No. 228937	⁶ Operator Name MATADOR PRODUCTION COMPANY	⁸ Well Number 221H
		⁹ Elevation 3072'

¹⁰Surface Location

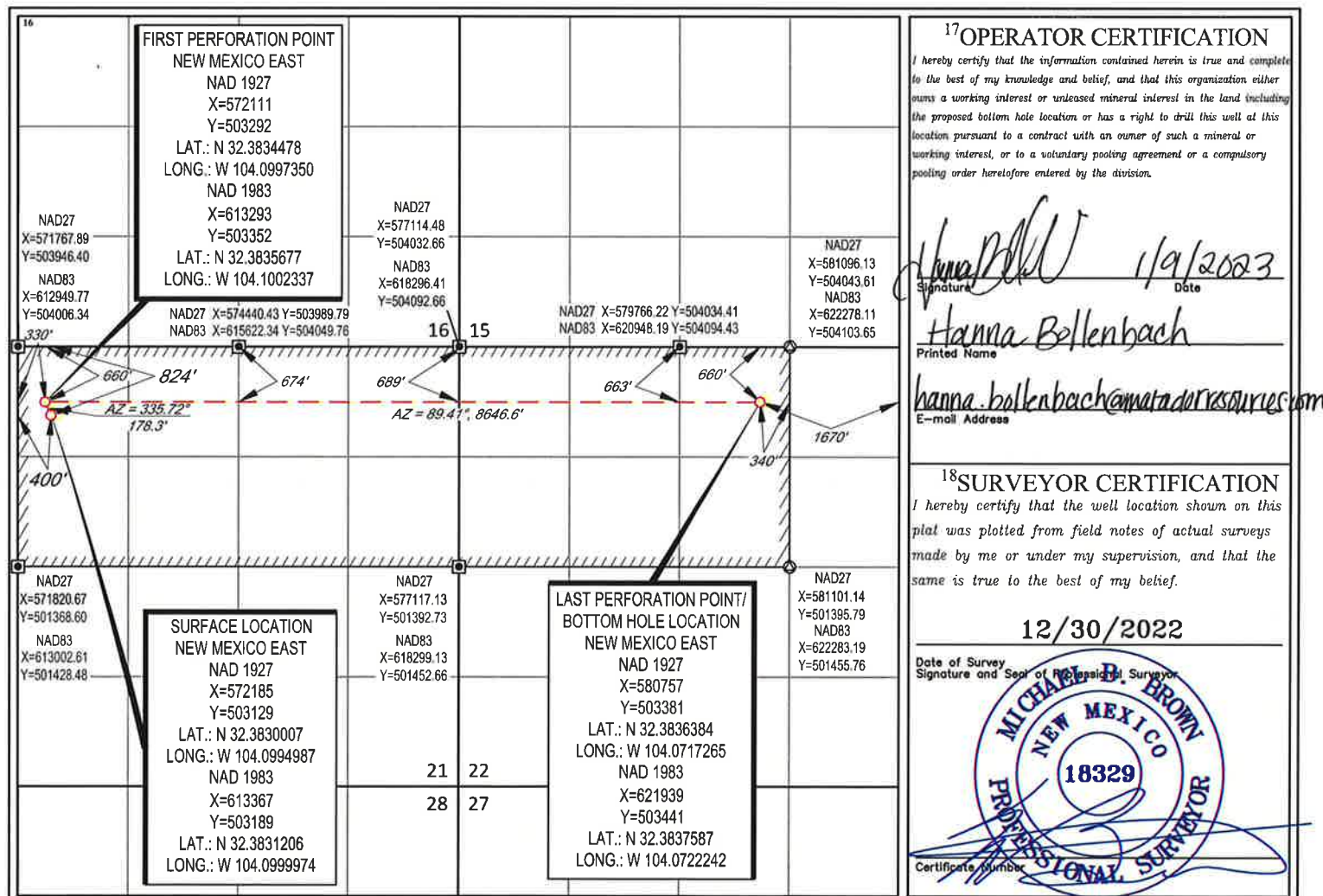
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	22-S	28-E	-	824'	NORTH	400'	WEST	EDDY

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
B	22	22-S	28-E	-	660'	NORTH	1670'	EAST	EDDY

¹² Dedicated Acres 560	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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



District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 333287

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-53349
	Well: Joe Hollingsworth Fee #221H

OCD Reviewer	Condition
kpickford	Will require administrative order for non-standard spacing unit
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 01/12/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Joe Hollingsworth Fee 222H	TBD	D 21-22S-28E	854' FNL 400' FWL	400	4,500	2,500
Joe Hollingsworth Fee 221H	TBD	D 21-22S-28E	824' FNL 400' FWL	400	4,500	2,500

IV. Central Delivery Point Name: Ace Stern Vegas TB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Joe Hollingsworth Fee 222H	TBD	02/22/2023	03/11/2023	04/01/2023	05/01/2023	06/01/2023
Joe Hollingsworth Fee 221H	TBD	03/12/2023	03/30/2023	04/01/2023	05/01/2023	06/01/2023

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Omar Enriquez Digitally signed by Omar Enriquez DN: cn=Omar Enriquez, o=, ou=, email=oenriquez@matadorresources.com, c=US
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: oenriquez@matadorresources.com
Date: 01/12/2023
Phone: (972) 587-4638
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's

Joe Hollingsworth 221H and 222H

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Joe Hollingsworth Fee 222H	400	4,500	2,500
Joe Hollingsworth Fee 221H	400	4,500	2,500

VII. Operation Practices

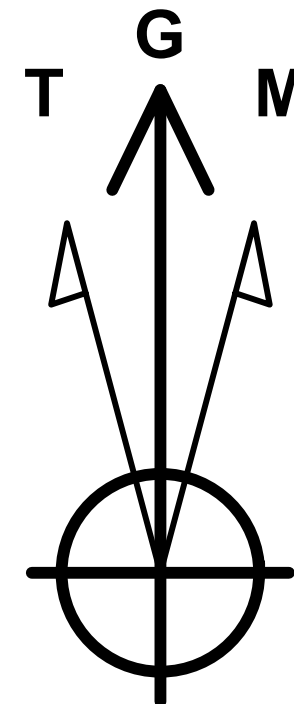
Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed



Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.49°

Magnetic Field
Strength: 47372.2nT
Dip Angle: 59.92°
Date: 1/12/2023
Model: IGRF2020

PROJECT DETAILS: Eddy County, New Mexico (NAD27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

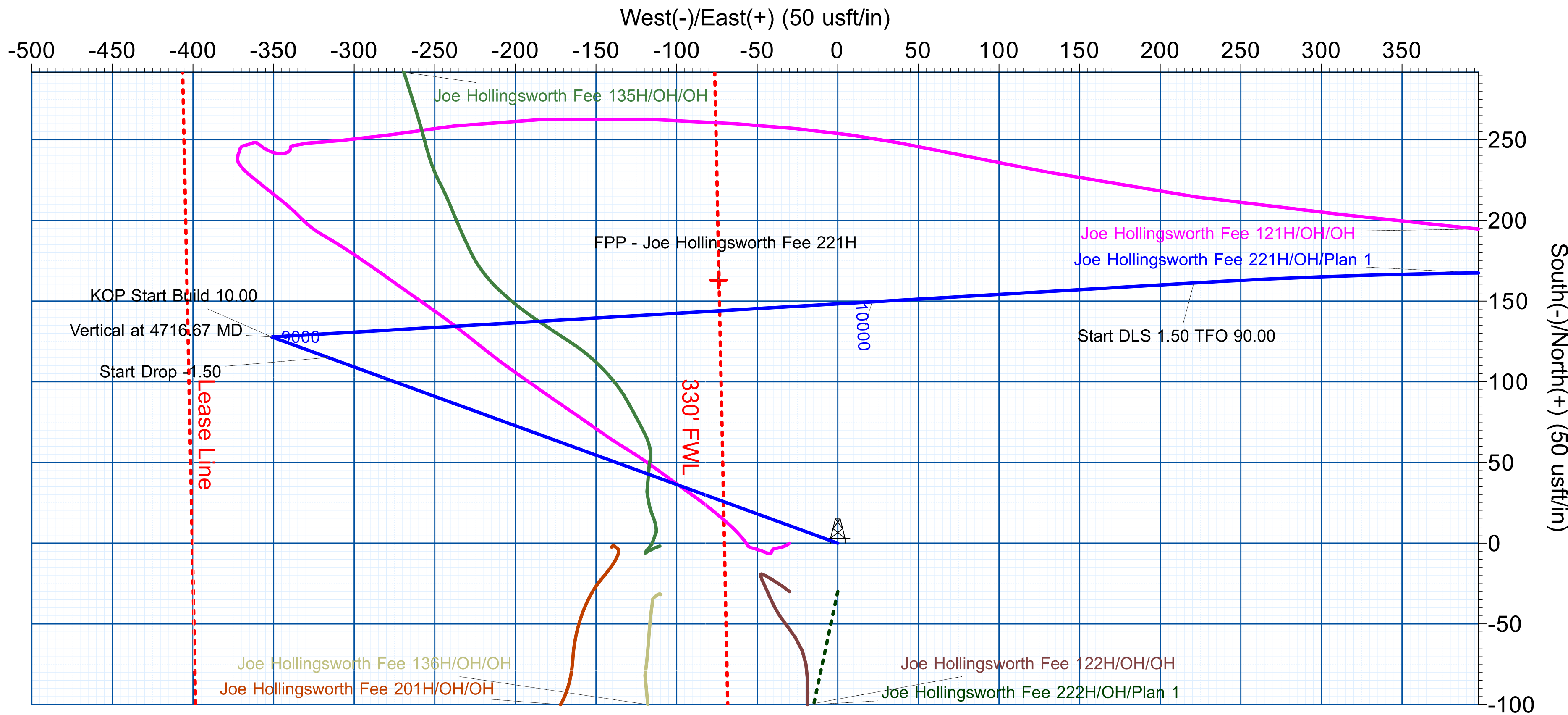


Company: Matador Resources Company
Field: Eddy County, New Mexico (NAD27)
Location: Joe Hollingsworth Fee
Well: Joe Hollingsworth Fee 221H
OH
Plan: Plan 1
GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)

To convert a Magnetic Direction to a Grid Direction, Add 6.49°

Rig: Patterson 298

SECTION DETAILS										Target	Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00		Start Nudge Build 1.50
3	2033.33	8.00	290.00	2031.60	12.71	-34.93	1.50	290.00	-34.80		8.00° at 2033.33 MD
4	4183.33	8.00	290.00	4160.68	115.05	-316.11	0.00	0.00	-314.91		Start Drop -1.50
5	4716.67	0.00	0.00	4692.28	127.77	-351.04	1.50	180.00	-349.71		Vertical at 4716.67 MD
6	9487.43	0.00	0.00	9463.04	127.77	-351.04	0.00	0.00	-349.71		KOP Start Build 10.00
7	10387.43	90.00	86.65	10036.00	161.25	220.94	10.00	86.65	222.59		Start DLS 1.50 TFO 90.00
8	10571.28	90.00	89.41	10036.00	167.57	404.66	1.50	90.00	406.37		LP 90.00° at 10571.28 MD
9	18739.05	90.00	89.41	10036.00	252.00	8572.00	0.00	0.00	8574.14	LPP/BHL - Joe Hollingsworth Fee 221H	



WELL DETAILS: Joe Hollingsworth Fee 221H

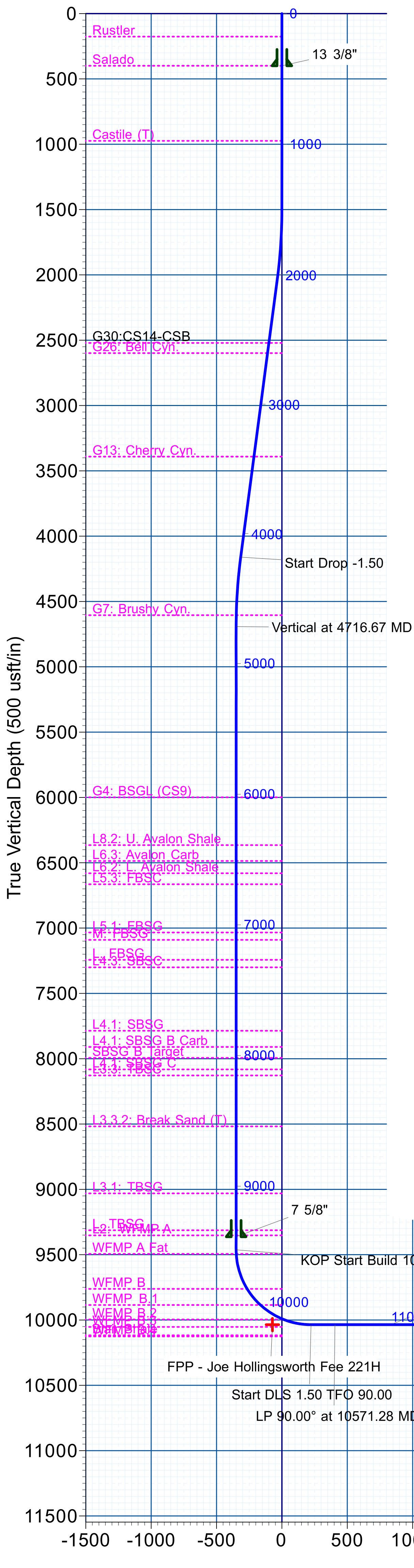
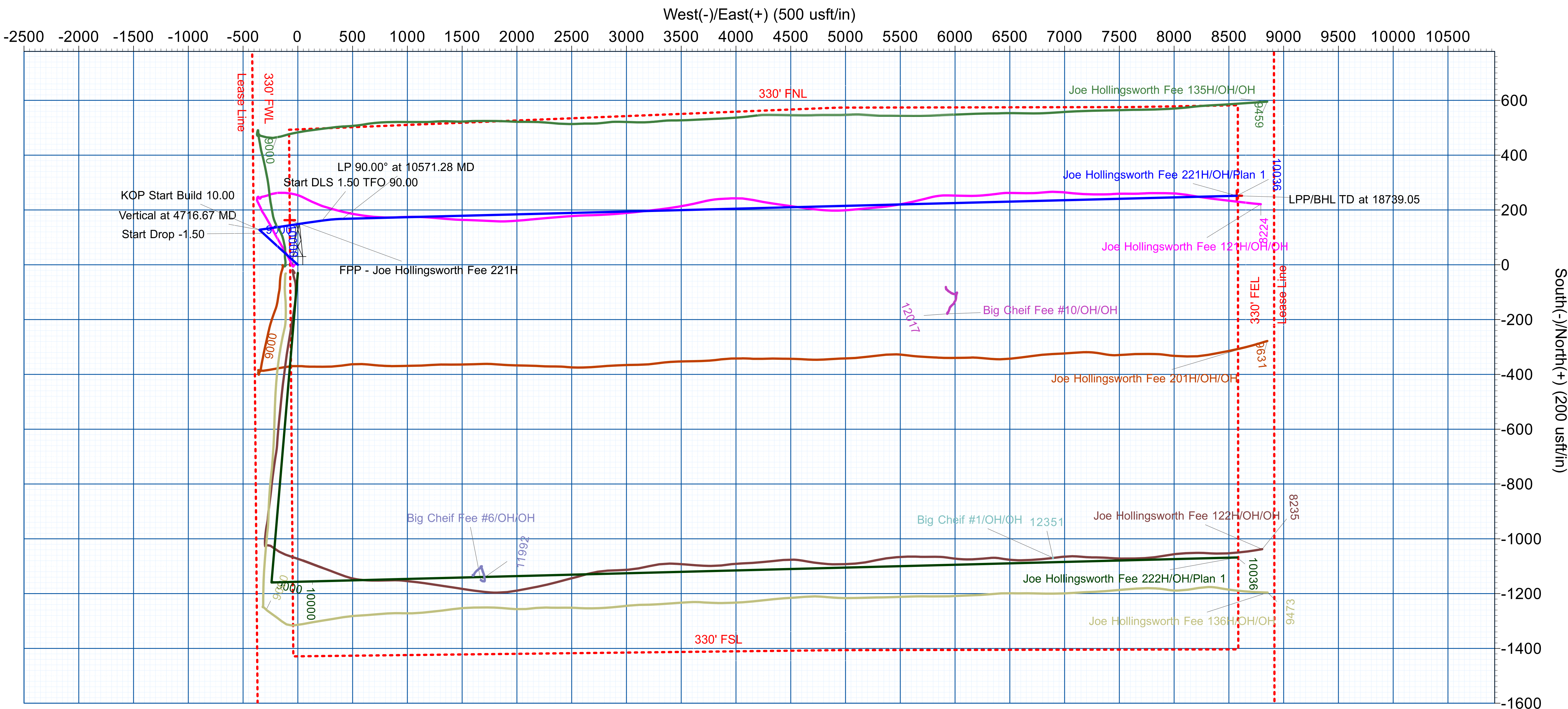
+N/-S	+E/-W	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)	3072.00
0.00	0.00	Northing 503129.00 Easting 572185.00 Latitude 32.383000 Longitude -104.099498	

CASING DETAILS

TVD	MD	Name	Size
400.00	400.00	13 3/8"	13-3/8
9363.04	9387.43	7 5/8"	7-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
176.00	176.00	Rustler
400.00	400.00	Salado
974.00	974.00	Castile (T)
2521.00	2527.54	G30:CS14-CSB
2599.00	2606.31	G26: Bell Cyn.
3391.00	3406.09	G13: Cherry Cyn.
4605.00	4629.38	G7: Brushy Cyn.
5999.00	6023.39	G4: BSG (CS9)
6365.00	6389.39	L8.2: U. Avalon Shale
6487.00	6511.39	L6.3: Avalon Carb
6581.00	6605.39	L6.2: L. Avalon Shale
6665.00	6689.39	L5.3: FBSC
7034.00	7058.39	L5.1: FBSC
7090.00	7114.39	M. FBSC
7243.00	7267.39	L. FBSC
7301.00	7325.39	L4.3: SBSC
7786.00	7810.39	L4.1: SBSC
7910.00	7934.39	L4.1: SBSC B Carb
7994.00	8018.39	SBSG B Target
8082.00	8106.39	L4.1: SBSC C
8128.00	8152.39	L3.3: TBSC
8518.00	8542.39	L3.3.2: Break Sand (T)
9031.00	9055.39	L3.1: TBSC
9313.00	9337.39	L. TBSC
9352.00	9376.39	L2: WFMP A
9494.00	9518.40	WFMP A Fat
9762.00	9801.95	WFMP B
9885.00	9961.73	WFMP B.1
9996.00	10172.07	WFMP B.2



Vertical Section at 89.41° (500 usft/in)

Matador Resources Company

Eddy County, New Mexico (NAD27)

Joe Hollingsworth Fee

Joe Hollingsworth Fee 221H

OH

Plan 1

Anticollision Report

13 January, 2023

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference	Plan 1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,073.91usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	1/13/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	18,738.52	Plan 1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Big Chief						
Big Cheif #1 - OH - OH	17,047.09	10,054.32	1,303.72	845.33	2.844	CC
Big Cheif #1 - OH - OH	17,100.00	10,054.32	1,304.79	844.84	2.837	ES, SF
Big Cheif Fee #10 - OH - OH	16,100.00	10,040.64	391.98	192.84	1.968	CC, ES, SF
Big Cheif Fee #6 - OH - OH	11,859.27	10,015.50	1,331.02	1,235.28	13.903	CC
Big Cheif Fee #6 - OH - OH	11,900.00	10,015.49	1,331.64	1,235.11	13.796	ES
Big Cheif Fee #6 - OH - OH	12,100.00	10,015.49	1,352.61	1,252.72	13.541	SF
Joe Hollingsworth Fee						
Joe Hollingsworth Fee 121H - OH - OH	0.00	2.00	30.00			
Joe Hollingsworth Fee 121H - OH - OH	2,300.00	2,295.47	46.16	28.33	2.589	ES
Joe Hollingsworth Fee 121H - OH - OH	7,500.00	7,503.59	119.78	63.11	2.114	SF
Joe Hollingsworth Fee 122H - OH - OH	0.00	1.00	42.43			
Joe Hollingsworth Fee 122H - OH - OH	300.00	300.61	43.32	40.82	17.355	ES
Joe Hollingsworth Fee 122H - OH - OH	1,500.00	1,500.69	60.16	48.34	5.092	SF
Joe Hollingsworth Fee 135H - OH - OH	0.00	0.99	110.34			
Joe Hollingsworth Fee 135H - OH - OH	2,500.00	2,488.11	120.48	98.74	5.542	ES
Joe Hollingsworth Fee 135H - OH - OH	18,700.00	17,869.86	648.40	376.19	2.382	SF
Joe Hollingsworth Fee 136H - OH - OH	0.00	1.00	114.23			
Joe Hollingsworth Fee 136H - OH - OH	900.00	899.83	120.44	111.92	14.147	ES
Joe Hollingsworth Fee 136H - OH - OH	18,739.05	18,050.91	1,541.37	1,104.31	3.527	SF
Joe Hollingsworth Fee 201H - OH - OH	1,000.00	1,001.07	135.90	127.33	15.865	CC
Joe Hollingsworth Fee 201H - OH - OH	1,100.00	1,097.83	137.08	126.38	12.815	ES
Joe Hollingsworth Fee 201H - OH - OH	18,739.05	18,226.31	692.45	306.18	1.793	SF
Joe Hollingsworth Fee 222H - OH - Plan 1	1,500.00	1,500.00	30.00	18.53	2.616	CC
Joe Hollingsworth Fee 222H - OH - Plan 1	1,600.00	1,599.99	30.47	18.32	2.507	ES, SF

Offset Design: Big Chief - Big Chief #1 - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 150-INC-ONLY													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.00	10,036.00	10,054.32	10,049.50	148.86	275.21	90.00	-1,069.14	6,893.61	2,023.16	1,656.78	366.38	5.522		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Big Chief - Big Cheif #1 - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 150-INC-ONLY														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,600.00	10,036.00	10,054.32	10,049.50	151.41	275.21	90.00	-1,069.14	6,893.61	1,947.76	1,576.49	371.27	5.246			
15,700.00	10,036.00	10,054.32	10,049.50	153.96	275.21	90.00	-1,069.14	6,893.61	1,874.66	1,498.16	376.50	4.979			
15,800.00	10,036.00	10,054.32	10,049.50	156.52	275.21	90.00	-1,069.14	6,893.61	1,804.14	1,422.07	382.07	4.722			
15,900.00	10,036.00	10,054.32	10,049.50	159.07	275.21	90.00	-1,069.14	6,893.61	1,736.52	1,348.55	387.97	4.476			
16,000.00	10,036.00	10,054.32	10,049.50	161.63	275.21	90.00	-1,069.14	6,893.61	1,672.15	1,277.96	394.20	4.242			
16,100.00	10,036.00	10,054.32	10,049.50	164.19	275.21	90.00	-1,069.14	6,893.61	1,611.42	1,210.71	400.71	4.021			
16,200.00	10,036.00	10,054.32	10,049.50	166.76	275.21	90.00	-1,069.14	6,893.61	1,554.75	1,147.28	407.47	3.816			
16,300.00	10,036.00	10,054.32	10,049.50	169.32	275.21	90.00	-1,069.14	6,893.61	1,502.61	1,088.21	414.40	3.626			
16,400.00	10,036.00	10,054.32	10,049.50	171.89	275.21	90.00	-1,069.14	6,893.61	1,455.48	1,034.06	421.42	3.454			
16,500.00	10,036.00	10,054.32	10,049.50	174.46	275.21	90.00	-1,069.14	6,893.61	1,413.86	985.48	428.38	3.300			
16,600.00	10,036.00	10,054.32	10,049.50	177.03	275.21	90.00	-1,069.14	6,893.61	1,378.25	943.10	435.15	3.167			
16,700.00	10,036.00	10,054.32	10,049.50	179.60	275.21	90.00	-1,069.14	6,893.61	1,349.14	907.58	441.55	3.055			
16,800.00	10,036.00	10,054.32	10,049.50	182.18	275.21	90.00	-1,069.14	6,893.61	1,326.93	879.53	447.40	2.966			
16,900.00	10,036.00	10,054.32	10,049.50	184.75	275.21	90.00	-1,069.14	6,893.61	1,311.99	859.47	452.52	2.899			
17,000.00	10,036.00	10,054.32	10,049.50	187.33	275.21	90.00	-1,069.14	6,893.61	1,304.57	847.83	456.74	2.856			
17,047.09	10,036.00	10,054.32	10,049.50	188.54	275.21	90.00	-1,069.14	6,893.61	1,303.72	845.33	458.39	2.844	CC		
17,100.00	10,036.00	10,054.32	10,049.50	189.91	275.21	90.00	-1,069.14	6,893.61	1,304.79	844.84	459.95	2.837	ES, SF		
17,200.00	10,036.00	10,054.32	10,049.50	192.49	275.21	90.00	-1,069.14	6,893.61	1,312.66	850.58	462.08	2.841			
17,300.00	10,036.00	10,054.32	10,049.50	195.07	275.21	90.00	-1,069.14	6,893.61	1,328.03	864.92	463.10	2.868			
17,400.00	10,036.00	10,054.32	10,049.50	197.65	275.21	90.00	-1,069.14	6,893.61	1,350.64	887.57	463.07	2.917			
17,500.00	10,036.00	10,054.32	10,049.50	200.24	275.21	90.00	-1,069.14	6,893.61	1,380.15	918.07	462.08	2.987			
17,600.00	10,036.00	10,054.32	10,049.50	202.82	275.21	90.00	-1,069.14	6,893.61	1,416.12	955.86	460.26	3.077			
17,700.00	10,036.00	10,054.32	10,049.50	205.41	275.21	90.00	-1,069.14	6,893.61	1,458.07	1,000.33	457.74	3.185			
17,800.00	10,036.00	10,054.32	10,049.50	208.00	275.21	90.00	-1,069.14	6,893.61	1,505.51	1,050.83	454.68	3.311			
17,900.00	10,036.00	10,054.32	10,049.50	210.58	275.21	90.00	-1,069.14	6,893.61	1,557.93	1,106.71	451.21	3.453			
18,000.00	10,036.00	10,054.32	10,049.50	213.17	275.21	90.00	-1,069.14	6,893.61	1,614.84	1,167.37	447.47	3.609			
18,100.00	10,036.00	10,054.32	10,049.50	215.76	275.21	90.00	-1,069.14	6,893.61	1,675.80	1,232.24	443.56	3.778			
18,200.00	10,036.00	10,054.32	10,049.50	218.35	275.21	90.00	-1,069.14	6,893.61	1,740.37	1,300.81	439.56	3.959			
18,300.00	10,036.00	10,054.32	10,049.50	220.95	275.21	90.00	-1,069.14	6,893.61	1,808.17	1,372.62	435.55	4.151			
18,400.00	10,036.00	10,054.32	10,049.50	223.54	275.21	90.00	-1,069.14	6,893.61	1,878.84	1,447.26	431.58	4.353			
18,500.00	10,036.00	10,054.32	10,049.50	226.13	275.21	90.00	-1,069.14	6,893.61	1,952.08	1,524.38	427.70	4.564			
18,600.00	10,036.00	10,054.32	10,049.50	228.73	275.21	90.00	-1,069.14	6,893.61	2,027.61	1,603.68	423.93	4.783			

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Big Chief - Big Cheif Fee #10 - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 25-GYRO-NS														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,100.00	10,036.00	10,084.58	10,080.81	113.55	35.16	95.14	-167.87	5,943.17	2,044.39	1,965.43	78.97	25.889			
14,200.00	10,036.00	10,082.42	10,078.65	116.05	35.15	94.83	-167.83	5,943.21	1,946.37	1,866.55	79.82	24.385			
14,300.00	10,036.00	10,080.27	10,076.50	118.54	35.14	94.52	-167.79	5,943.26	1,848.55	1,767.75	80.80	22.879			
14,400.00	10,036.00	10,078.13	10,074.37	121.04	35.14	94.21	-167.76	5,943.30	1,750.97	1,669.04	81.93	21.371			
14,500.00	10,036.00	10,076.28	10,072.52	123.55	35.13	93.94	-167.72	5,943.34	1,653.68	1,570.43	83.25	19.863			
14,600.00	10,036.00	10,073.61	10,069.85	126.06	35.12	93.55	-167.68	5,943.40	1,556.73	1,471.94	84.80	18.359			
14,700.00	10,036.00	10,071.01	10,067.25	128.58	35.11	93.17	-167.63	5,943.45	1,460.19	1,373.58	86.61	16.859			
14,800.00	10,036.00	10,068.47	10,064.71	131.10	35.10	92.80	-167.59	5,943.50	1,364.15	1,275.39	88.76	15.369			
14,900.00	10,036.00	10,065.99	10,062.23	133.63	35.09	92.44	-167.54	5,943.55	1,268.71	1,177.39	91.32	13.893			
15,000.00	10,036.00	10,063.57	10,059.81	136.16	35.09	92.09	-167.49	5,943.60	1,174.03	1,079.63	94.39	12.437			
15,100.00	10,036.00	10,061.20	10,057.44	138.69	35.08	91.74	-167.45	5,943.64	1,080.30	982.19	98.11	11.011			
15,200.00	10,036.00	10,058.89	10,055.13	141.23	35.07	91.41	-167.40	5,943.69	987.80	885.17	102.63	9.625			
15,300.00	10,036.00	10,056.63	10,052.87	143.77	35.06	91.08	-167.36	5,943.73	896.90	788.73	108.17	8.291			
15,400.00	10,036.00	10,054.43	10,050.67	146.31	35.05	90.76	-167.31	5,943.77	808.15	693.14	115.01	7.027			
15,500.00	10,036.00	10,052.27	10,048.51	148.86	35.05	90.44	-167.27	5,943.81	722.34	598.87	123.47	5.850			
15,600.00	10,036.00	10,050.16	10,046.40	151.41	35.04	90.13	-167.22	5,943.85	640.66	506.72	133.94	4.783			
15,700.00	10,036.00	10,048.42	10,044.66	153.96	35.03	89.88	-167.18	5,943.88	564.89	418.18	146.70	3.851			
15,800.00	10,036.00	10,046.62	10,042.87	156.52	35.03	89.62	-167.14	5,943.91	497.74	336.06	161.67	3.079			
15,900.00	10,036.00	10,044.73	10,040.98	159.07	35.02	89.34	-167.10	5,943.95	443.15	265.45	177.71	2.494			
16,000.00	10,036.00	10,042.74	10,038.99	161.63	35.01	89.05	-167.06	5,943.99	406.23	214.48	191.74	2.119			
16,098.82	10,036.00	10,040.66	10,036.91	164.16	35.01	88.74	-167.01	5,944.03	392.00	192.89	199.11	1.969			
16,100.00	10,036.00	10,040.64	10,036.88	164.19	35.01	88.74	-167.01	5,944.03	391.98	192.84	199.14	1.968	CC, ES, SF		
16,200.00	10,036.00	10,038.41	10,034.66	166.76	35.00	88.42	-166.96	5,944.08	402.82	205.87	196.95	2.045			
16,300.00	10,036.00	10,036.06	10,032.31	169.32	34.99	88.07	-166.91	5,944.13	436.89	250.00	186.88	2.338			
16,400.00	10,036.00	10,033.56	10,029.81	171.89	34.98	87.71	-166.85	5,944.19	489.35	316.03	173.32	2.823			
16,500.00	10,036.00	10,030.91	10,027.16	174.46	34.97	87.32	-166.79	5,944.25	555.02	395.30	159.73	3.475			
16,600.00	10,036.00	10,028.09	10,024.34	177.03	34.96	86.91	-166.72	5,944.31	629.78	482.11	147.67	4.265			
16,700.00	10,036.00	10,025.08	10,021.33	179.60	34.95	86.47	-166.65	5,944.39	710.76	573.24	137.52	5.168			
16,800.00	10,036.00	10,022.77	10,019.02	182.18	34.94	86.13	-166.59	5,944.44	796.07	666.92	129.15	6.164			
16,900.00	10,036.00	10,020.52	10,016.78	184.75	34.94	85.80	-166.54	5,944.50	884.45	762.18	122.27	7.233			
17,000.00	10,036.00	10,018.33	10,014.59	187.33	34.93	85.48	-166.49	5,944.55	975.08	858.47	116.61	8.362			
17,100.00	10,036.00	10,016.17	10,012.43	189.91	34.92	85.17	-166.43	5,944.60	1,067.38	955.46	111.92	9.537			
17,200.00	10,036.00	10,014.06	10,010.32	192.49	34.91	84.86	-166.39	5,944.65	1,160.94	1,052.94	108.00	10.749			
17,300.00	10,036.00	10,011.99	10,008.25	195.07	34.91	84.56	-166.34	5,944.70	1,255.50	1,150.80	104.70	11.991			
17,400.00	10,036.00	10,009.96	10,006.22	197.65	34.90	84.27	-166.29	5,944.75	1,350.84	1,248.93	101.91	13.255			
17,500.00	10,036.00	10,007.97	10,004.23	200.24	34.89	83.98	-166.24	5,944.80	1,446.80	1,347.28	99.53	14.537			
17,600.00	10,036.00	10,006.01	10,002.28	202.82	34.88	83.69	-166.20	5,944.84	1,543.28	1,445.80	97.48	15.832			
17,700.00	10,036.00	10,004.09	10,000.36	205.41	34.88	83.41	-166.15	5,944.88	1,640.17	1,544.46	95.71	17.138			
17,800.00	10,036.00	10,002.21	9,998.48	208.00	34.87	83.14	-166.11	5,944.93	1,737.41	1,643.25	94.16	18.451			
17,900.00	10,036.00	10,000.00	9,996.27	210.58	34.86	82.82	-166.06	5,944.97	1,834.95	1,742.13	92.82	19.769			
18,000.00	10,036.00	10,000.00	9,996.27	213.17	34.86	82.82	-166.06	5,944.97	1,932.74	1,841.10	91.64	21.090			
18,100.00	10,036.00	9,996.90	9,993.17	215.76	34.85	82.37	-165.99	5,945.04	2,030.74	1,940.14	90.60	22.415			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Big Chief - Big Cheif Fee #6 - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 25-GYRO-NS														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	125.32	-1,131.66	1,596.90	1,957.27						
100.00	100.00	79.21	79.21	0.50	0.21	125.33	-1,132.23	1,597.09	1,957.73	1,957.26	0.47	4,186.406			
200.00	200.00	168.10	168.09	1.05	0.53	125.34	-1,132.96	1,597.50	1,958.55	1,957.41	1.14	1,711.231			
300.00	300.00	273.51	273.50	1.55	0.90	125.35	-1,133.55	1,598.13	1,959.37	1,957.49	1.88	1,042.806			
400.00	400.00	370.54	370.53	1.98	1.24	125.34	-1,133.84	1,598.76	1,960.07	1,957.49	2.58	759.367			
500.00	500.00	471.33	471.31	2.40	1.60	125.35	-1,134.37	1,599.46	1,960.94	1,957.64	3.29	595.229			
600.00	600.00	575.00	574.98	2.79	1.96	125.33	-1,134.36	1,600.15	1,961.47	1,957.45	4.03	487.002			
700.00	700.00	675.00	674.98	3.18	2.31	125.32	-1,134.30	1,601.09	1,962.21	1,957.47	4.74	414.268			
800.00	800.00	770.25	770.22	3.56	2.64	125.30	-1,134.33	1,602.01	1,963.01	1,957.58	5.43	361.544			
900.00	900.00	877.28	877.24	3.94	3.01	125.28	-1,134.04	1,603.05	1,963.64	1,957.48	6.16	318.642			
1,000.00	1,000.00	978.78	978.74	4.32	3.37	125.25	-1,133.62	1,603.99	1,964.16	1,957.28	6.88	285.661			
1,100.00	1,100.00	1,075.00	1,074.96	4.69	3.70	125.23	-1,133.30	1,604.79	1,964.65	1,957.08	7.57	259.506			
1,200.00	1,200.00	1,180.91	1,180.86	5.06	4.07	125.20	-1,132.74	1,605.81	1,965.13	1,956.83	8.30	236.781			
1,300.00	1,300.00	1,276.50	1,276.44	5.43	4.41	125.17	-1,132.10	1,606.78	1,965.58	1,956.59	8.99	218.588			
1,400.00	1,400.00	1,381.94	1,381.88	5.79	4.78	125.13	-1,131.18	1,607.82	1,965.88	1,956.16	9.72	202.281			
1,500.00	1,500.00	1,482.07	1,481.99	6.16	5.13	125.09	-1,130.14	1,608.79	1,966.08	1,955.65	10.43	188.571			
1,600.00	1,599.99	1,580.45	1,580.35	6.47	5.47	-164.97	-1,128.77	1,610.09	1,967.62	1,956.43	11.18	175.926			
1,700.00	1,699.91	1,669.70	1,669.58	6.78	5.79	-165.04	-1,127.26	1,611.79	1,972.00	1,959.88	12.12	162.715			
1,800.00	1,799.69	1,750.00	1,749.82	7.10	6.07	-165.13	-1,125.47	1,614.03	1,979.40	1,966.42	12.98	152.496			
1,900.00	1,899.27	1,837.93	1,837.64	7.48	6.38	-165.26	-1,123.40	1,617.88	1,990.48	1,976.64	13.84	143.821			
2,000.00	1,998.57	1,933.38	1,932.95	8.00	6.72	-165.43	-1,120.97	1,622.50	2,004.39	1,989.68	14.70	136.334			
2,100.00	2,097.62	2,017.05	2,016.49	8.33	7.01	-165.61	-1,119.08	1,626.85	2,020.72	2,005.40	15.32	131.885			
2,200.00	2,196.65	2,112.70	2,111.98	8.67	7.35	-165.83	-1,117.01	1,631.98	2,037.41	2,021.42	15.99	127.412			
2,300.00	2,295.67	2,206.78	2,205.87	9.02	7.68	-166.05	-1,115.10	1,637.43	2,054.57	2,037.90	16.67	123.285			
2,400.00	2,394.70	2,300.00	2,298.91	9.39	8.00	-166.27	-1,113.23	1,643.01	2,071.92	2,054.58	17.34	119.501			
10,300.00	10,029.34	10,010.69	10,007.95	37.44	34.91	80.45	-1,149.99	1,706.35	2,044.11	1,972.11	72.00	28.391			
10,400.00	10,036.00	10,015.55	10,012.82	38.08	34.93	89.60	-1,150.03	1,706.35	1,972.49	1,900.07	72.42	27.238			
10,500.00	10,036.00	10,015.53	10,012.80	38.88	34.93	89.59	-1,150.02	1,706.35	1,901.96	1,829.01	72.95	26.074			
10,600.00	10,036.00	10,015.53	10,012.79	39.84	34.93	89.58	-1,150.02	1,706.35	1,832.31	1,758.70	73.62	24.890			
10,700.00	10,036.00	10,015.52	10,012.79	40.93	34.93	89.58	-1,150.02	1,706.35	1,765.08	1,690.64	74.44	23.711			
10,800.00	10,036.00	10,015.52	10,012.79	42.15	34.93	89.58	-1,150.02	1,706.35	1,701.08	1,625.62	75.45	22.544			
10,900.00	10,036.00	10,015.52	10,012.78	43.51	34.93	89.58	-1,150.02	1,706.35	1,640.67	1,564.01	76.67	21.400			
11,000.00	10,036.00	10,015.52	10,012.78	44.97	34.93	89.58	-1,150.02	1,706.35	1,584.28	1,506.20	78.08	20.290			
11,100.00	10,036.00	10,015.51	10,012.78	46.54	34.93	89.58	-1,150.02	1,706.35	1,532.35	1,452.64	79.71	19.225			
11,200.00	10,036.00	10,015.51	10,012.78	48.20	34.93	89.58	-1,150.02	1,706.35	1,485.34	1,403.82	81.53	18.219			
11,300.00	10,036.00	10,015.51	10,012.77	49.94	34.93	89.58	-1,150.02	1,706.35	1,443.74	1,360.22	83.52	17.286			
11,400.00	10,036.00	10,015.51	10,012.77	51.76	34.93	89.58	-1,150.02	1,706.35	1,408.03	1,322.37	85.65	16.439			
11,500.00	10,036.00	10,015.50	10,012.77	53.64	34.93	89.58	-1,150.02	1,706.35	1,378.65	1,290.77	87.88	15.688			
11,600.00	10,036.00	10,015.50	10,012.77	55.59	34.93	89.58	-1,150.02	1,706.35	1,356.03	1,265.89	90.14	15.043			
11,700.00	10,036.00	10,015.50	10,012.77	57.59	34.93	89.58	-1,150.02	1,706.35	1,340.51	1,248.13	92.38	14.511			
11,800.00	10,036.00	10,015.50	10,012.76	59.64	34.93	89.58	-1,150.02	1,706.35	1,332.34	1,237.81	94.53	14.095			
11,859.27	10,036.00	10,015.50	10,012.76	60.88	34.93	89.58	-1,150.02	1,706.35	1,331.02	1,235.28	95.74	13.903 CC			
11,900.00	10,036.00	10,015.49	10,012.76	61.73	34.93	89.58	-1,150.02	1,706.35	1,331.64	1,235.11	96.53	13.796 ES			
12,000.00	10,036.00	10,015.49	10,012.76	63.86	34.93	89.58	-1,150.02	1,706.35	1,338.44	1,240.11	98.33	13.612			
12,100.00	10,036.00	10,015.49	10,012.76	66.03	34.93	89.58	-1,150.02	1,706.35	1,352.61	1,252.72	99.89	13.541 SF			
12,200.00	10,036.00	10,015.49	10,012.75	68.23	34.93	89.58	-1,150.02	1,706.35	1,373.94	1,272.73	101.21	13.576			
12,300.00	10,036.00	10,015.48	10,012.75	70.46	34.93	89.58	-1,150.02	1,706.35	1,402.09	1,299.83	102.26	13.711			
12,400.00	10,036.00	10,015.48	10,012.75	72.72	34.93	89.58	-1,150.02	1,706.35	1,436.66	1,333.60	103.06	13.940			
12,500.00	10,036.00	10,015.48	10,012.75	75.00	34.93	89.58	-1,150.02	1,706.35	1,477.21	1,373.58	103.63	14.255			
12,600.00	10,036.00	10,015.48	10,012.74	77.30	34.93	89.58	-1,150.02	1,706.35	1,523.25	1,419.25	103.99	14.648			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Big Chief - Big Cheif Fee #6 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 25-GYRO-NS													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,700.00	10,036.00	10,015.47	10,012.74	79.62	34.93	89.58	-1,150.02	1,706.35	1,574.30	1,470.12	104.18	15.111		
12,800.00	10,036.00	10,015.47	10,012.74	81.96	34.93	89.58	-1,150.02	1,706.35	1,629.90	1,525.68	104.22	15.639		
12,900.00	10,036.00	10,015.47	10,012.74	84.32	34.93	89.58	-1,150.02	1,706.35	1,689.59	1,585.46	104.13	16.225		
13,000.00	10,036.00	10,015.47	10,012.73	86.70	34.93	89.58	-1,150.02	1,706.35	1,752.96	1,649.01	103.95	16.863		
13,100.00	10,036.00	10,015.46	10,012.73	89.08	34.93	89.58	-1,150.02	1,706.35	1,819.62	1,715.92	103.70	17.547		
13,200.00	10,036.00	10,015.46	10,012.73	91.49	34.93	89.58	-1,150.02	1,706.35	1,889.22	1,785.83	103.39	18.272		
13,300.00	10,036.00	10,015.46	10,012.73	93.90	34.93	89.58	-1,150.02	1,706.35	1,961.45	1,858.41	103.04	19.035		
13,400.00	10,036.00	10,015.46	10,012.72	96.32	34.93	89.58	-1,150.02	1,706.35	2,036.04	1,933.37	102.67	19.831		

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 121H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		194-MWD+IGRF					Rule Assigned:				Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.01	-90.00	0.00	-30.00	30.00					
100.00	100.00	101.88	101.88	0.50	0.63	-90.32	-0.17	-30.20	30.20	29.17	1.03	29.298		
200.00	200.00	201.75	201.74	1.05	1.22	-91.24	-0.67	-30.78	30.79	28.71	2.08	14.807		
300.00	300.00	301.51	301.50	1.55	1.45	-92.40	-1.34	-32.00	32.03	29.28	2.75	11.655		
400.00	400.00	401.43	401.40	1.98	1.78	-93.64	-2.14	-33.67	33.74	30.26	3.48	9.699		
500.00	500.00	501.38	501.34	2.40	2.20	-94.30	-2.67	-35.47	35.58	31.34	4.24	8.393		
600.00	600.00	601.46	601.39	2.79	2.61	-94.60	-3.00	-37.24	37.36	32.38	4.98	7.497		
700.00	700.00	701.65	701.58	3.18	2.95	-94.65	-3.14	-38.59	38.72	33.04	5.68	6.816		
800.00	800.00	801.77	801.69	3.56	3.31	-94.88	-3.36	-39.45	39.59	33.20	6.39	6.193		
900.00	900.00	901.79	901.71	3.94	3.65	-95.43	-3.82	-40.17	40.35	33.23	7.12	5.665		
1,000.00	1,000.00	1,001.81	1,001.73	4.32	3.99	-96.49	-4.63	-40.76	41.03	33.17	7.86	5.220		
1,100.00	1,100.00	1,101.82	1,101.73	4.69	4.32	-98.05	-5.84	-41.28	41.69	33.10	8.60	4.850		
1,200.00	1,200.00	1,201.00	1,200.89	5.06	4.69	-98.80	-6.58	-42.49	43.01	33.73	9.28	4.633		
1,300.00	1,300.00	1,300.09	1,299.89	5.43	5.35	-96.23	-5.06	-46.35	46.68	36.74	9.94	4.698		
1,400.00	1,400.00	1,400.35	1,400.03	5.79	5.77	-93.93	-3.50	-50.90	51.06	40.46	10.60	4.818		
1,500.00	1,500.00	1,501.16	1,500.80	6.16	6.12	-92.92	-2.76	-54.04	54.12	42.81	11.31	4.785		
1,600.00	1,599.99	1,601.93	1,601.54	6.47	6.47	-22.37	-1.80	-55.46	54.28	42.32	11.96	4.538		
1,700.00	1,699.91	1,700.40	1,699.93	6.78	6.96	-20.31	1.49	-57.83	52.95	40.20	12.75	4.154		
1,800.00	1,799.69	1,799.17	1,798.43	7.10	7.53	-16.79	6.89	-62.49	51.61	37.99	13.61	3.791		
1,900.00	1,899.27	1,897.60	1,896.31	7.48	8.04	-12.25	13.97	-70.10	51.14	36.59	14.54	3.517		
2,000.00	1,998.57	1,997.35	1,995.42	8.00	8.46	-8.15	21.23	-78.76	49.36	33.88	15.48	3.188		
2,100.00	2,097.62	2,096.34	2,093.59	8.33	8.82	-3.98	28.83	-88.81	47.36	31.13	16.23	2.918		
2,200.00	2,196.65	2,196.17	2,192.46	8.67	9.17	0.53	36.89	-100.11	46.73	29.73	17.01	2.748		
2,279.51	2,275.39	2,275.42	2,270.99	8.95	9.47	4.21	43.17	-108.71	46.06	28.40	17.65	2.609		
2,300.00	2,295.67	2,295.47	2,290.83	9.02	9.56	5.21	44.89	-111.08	46.16	28.33	17.82	2.589 ES		
2,400.00	2,394.70	2,394.15	2,388.10	9.39	10.01	9.97	54.41	-124.68	49.08	30.38	18.69	2.625		
2,500.00	2,493.73	2,493.69	2,486.03	9.76	10.40	13.30	63.90	-139.70	53.35	33.85	19.50	2.736		
2,600.00	2,592.75	2,593.52	2,584.18	10.15	10.75	16.89	74.31	-154.72	58.28	38.00	20.28	2.874		
2,700.00	2,691.78	2,693.64	2,682.68	10.54	11.11	19.91	84.50	-169.49	63.02	41.95	21.07	2.992		
2,800.00	2,790.81	2,793.94	2,781.45	10.93	11.48	22.60	94.44	-183.83	67.38	45.53	21.85	3.084		
2,900.00	2,889.83	2,894.04	2,880.13	11.33	11.85	25.14	104.11	-197.58	71.29	48.66	22.63	3.150		
3,000.00	2,988.86	2,994.40	2,979.14	11.73	12.22	27.69	113.78	-210.84	74.94	51.52	23.43	3.199		
3,100.00	3,087.89	3,094.37	3,077.85	12.14	12.60	30.44	123.46	-223.30	78.29	54.07	24.22	3.232		
3,200.00	3,186.91	3,194.56	3,176.83	12.55	12.98	33.10	133.12	-235.52	81.61	56.58	25.03	3.261		
3,300.00	3,285.94	3,295.31	3,276.45	12.96	13.37	35.42	142.12	-247.56	84.36	58.51	25.85	3.264		
3,400.00	3,384.97	3,395.86	3,375.98	13.38	13.76	37.53	150.34	-259.20	86.38	59.72	26.66	3.240		
3,500.00	3,484.00	3,496.41	3,475.63	13.79	14.15	39.78	158.05	-270.14	87.72	60.24	27.48	3.192		
3,600.00	3,583.02	3,596.24	3,574.61	14.21	14.53	42.04	165.58	-280.77	88.97	60.67	28.30	3.144		
3,700.00	3,682.05	3,696.08	3,673.56	14.63	14.93	44.09	173.15	-291.66	90.50	61.38	29.12	3.108		
3,800.00	3,781.08	3,796.21	3,772.81	15.05	15.33	45.98	180.63	-302.69	92.08	62.13	29.94	3.075		
3,900.00	3,880.10	3,896.85	3,872.57	15.47	15.73	47.65	187.67	-313.87	93.36	62.58	30.78	3.033		
4,000.00	3,979.13	3,997.60	3,972.59	15.89	16.14	49.61	193.96	-324.22	93.71	62.07	31.64	2.962		
4,100.00	4,078.16	4,097.44	4,071.89	16.32	16.56	52.96	200.63	-332.15	93.87	61.33	32.54	2.885		
4,200.00	4,177.19	4,197.40	4,171.34	16.73	16.95	56.70	207.64	-339.44	94.55	61.12	33.42	2.829		
4,300.00	4,276.44	4,297.69	4,271.12	17.14	17.33	59.19	214.13	-347.23	96.03	61.76	34.27	2.803		
4,400.00	4,375.98	4,398.13	4,371.07	17.55	17.72	60.26	220.24	-354.99	98.56	63.46	35.09	2.808		
4,500.00	4,475.73	4,498.14	4,470.65	17.95	18.10	60.25	226.01	-362.23	102.01	66.14	35.87	2.844		
4,600.00	4,575.63	4,597.85	4,569.96	18.33	18.48	59.38	231.98	-368.84	106.89	70.28	36.60	2.920		
4,700.00	4,675.61	4,700.95	4,672.83	18.70	18.91	58.98	237.58	-372.38	111.99	74.61	37.38	2.996		
4,800.00	4,775.61	4,803.70	4,775.53	19.01	19.31	-10.51	240.78	-372.01	114.96	76.92	38.05	3.022		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 121H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 194-MWD+IGRF													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,875.61	4,903.53	4,875.34	19.34	19.61	-9.91	242.84	-371.14	116.84	78.15	38.68	3.020	
5,000.00	4,975.61	5,003.76	4,975.54	19.66	19.92	-9.45	244.90	-370.54	118.76	79.44	39.32	3.020	
5,100.00	5,075.61	5,105.47	5,077.23	19.99	20.22	-8.72	246.08	-369.19	119.70	79.75	39.95	2.996	
5,200.00	5,175.61	5,205.61	5,177.36	20.32	20.51	-7.80	246.55	-367.31	119.90	79.30	40.60	2.953	
5,300.00	5,275.61	5,305.32	5,277.04	20.65	20.79	-6.80	247.24	-365.29	120.32	79.08	41.24	2.917	
5,400.00	5,375.61	5,405.34	5,377.04	20.98	21.08	-5.83	247.83	-363.31	120.69	78.80	41.89	2.881	
5,500.00	5,475.61	5,505.94	5,477.62	21.31	21.38	-4.97	248.57	-361.55	121.26	78.73	42.53	2.851	
5,600.00	5,575.61	5,607.78	5,579.44	21.65	21.70	-4.21	247.75	-359.87	120.32	77.15	43.17	2.787	
5,700.00	5,675.61	5,708.07	5,679.70	21.98	22.00	-3.25	246.12	-357.76	118.56	74.74	43.82	2.706	
5,800.00	5,775.61	5,807.80	5,779.39	22.31	22.30	-2.20	244.59	-355.53	116.92	72.44	44.48	2.629	
5,900.00	5,875.61	5,907.45	5,879.00	22.65	22.60	-1.08	243.29	-353.21	115.55	70.41	45.14	2.560	
6,000.00	5,975.61	6,007.05	5,978.57	22.99	22.89	0.17	242.30	-350.70	114.53	68.73	45.80	2.501	
6,100.00	6,075.61	6,106.67	6,078.15	23.32	23.19	1.46	241.61	-348.14	113.88	67.42	46.46	2.451	
6,189.39	6,165.01	6,195.55	6,167.01	23.63	23.46	2.53	241.31	-346.02	113.65	66.60	47.05	2.416	
6,200.00	6,175.61	6,206.09	6,177.54	23.66	23.49	2.65	241.30	-345.79	113.66	66.54	47.12	2.412	
6,300.00	6,275.61	6,305.84	6,277.28	24.00	23.80	3.61	241.41	-343.87	113.87	66.09	47.78	2.383	
6,400.00	6,375.61	6,405.23	6,376.65	24.34	24.10	4.40	241.84	-342.27	114.41	65.98	48.43	2.362	
6,500.00	6,475.61	6,505.37	6,476.78	24.68	24.41	5.11	242.53	-340.77	115.23	66.14	49.09	2.347	
6,600.00	6,575.61	6,605.00	6,576.40	25.02	24.73	5.50	243.34	-339.90	116.11	66.36	49.75	2.334	
6,700.00	6,675.61	6,705.51	6,676.90	25.36	25.06	5.63	244.13	-339.57	116.93	66.51	50.41	2.319	
6,800.00	6,775.61	6,805.62	6,777.01	25.71	25.39	5.65	244.67	-339.48	117.47	66.38	51.08	2.299	
6,900.00	6,875.61	6,905.50	6,876.89	26.05	25.73	5.62	245.26	-339.48	118.06	66.30	51.76	2.281	
7,000.00	6,975.61	7,005.75	6,977.14	26.39	26.06	5.69	245.73	-339.28	118.55	66.12	52.43	2.261	
7,100.00	7,075.61	7,105.93	7,077.32	26.73	26.38	5.88	246.04	-338.85	118.90	65.80	53.09	2.239	
7,200.00	7,175.61	7,206.20	7,177.59	27.08	26.70	6.13	246.10	-338.32	119.02	65.26	53.76	2.214	
7,284.39	7,260.00	7,290.62	7,262.00	27.37	26.97	6.36	246.03	-337.86	118.99	64.67	54.32	2.191	
7,300.00	7,275.61	7,306.17	7,277.56	27.42	27.02	6.39	246.02	-337.80	118.99	64.57	54.42	2.186	
7,400.00	7,375.61	7,405.98	7,377.36	27.77	27.35	6.46	246.14	-337.63	119.13	64.03	55.10	2.162	
7,500.00	7,475.61	7,503.59	7,474.94	28.11	28.58	6.97	246.63	-336.51	119.78	63.11	56.67	2.114 SF	
7,600.00	7,575.61	7,598.70	7,568.75	28.46	32.51	13.69	248.78	-321.57	124.86	66.13	58.73	2.126	
7,700.00	7,675.61	7,691.13	7,658.30	28.81	35.42	23.14	250.09	-298.77	134.42	75.74	58.68	2.291	
7,800.00	7,775.61	7,772.24	7,734.55	29.15	35.94	32.16	254.16	-271.56	155.40	98.66	56.73	2.739	
7,900.00	7,875.61	7,844.00	7,797.76	29.50	36.58	40.83	258.52	-238.04	190.37	135.88	54.50	3.493	
8,000.00	7,975.61	7,908.97	7,850.54	29.85	37.20	48.38	261.68	-200.33	238.31	185.47	52.84	4.510	
8,100.00	8,075.61	7,967.78	7,894.68	30.19	37.74	54.44	263.22	-161.54	296.18	244.55	51.63	5.737	
8,200.00	8,175.61	8,029.00	7,937.16	30.54	38.24	59.99	262.68	-117.48	361.34	310.07	51.27	7.048	
8,300.00	8,275.61	8,063.54	7,959.37	30.89	38.42	62.78	261.51	-91.06	432.15	382.89	49.26	8.773	
8,400.00	8,375.61	8,098.00	7,980.06	31.24	38.59	65.31	259.92	-63.56	508.09	460.17	47.92	10.602	
8,500.00	8,475.61	8,118.93	7,991.53	31.59	38.66	66.77	258.66	-46.10	588.56	542.31	46.25	12.725	
8,600.00	8,575.61	8,142.00	8,002.63	31.94	38.75	68.34	256.85	-25.97	673.01	627.81	45.20	14.890	
8,700.00	8,675.61	8,142.00	8,002.63	32.29	38.75	68.34	256.85	-25.97	760.22	716.83	43.39	17.521	
8,800.00	8,775.61	8,157.68	8,009.16	32.64	38.80	69.39	255.35	-11.79	849.64	806.91	42.73	19.884	
8,900.00	8,875.61	8,179.00	8,016.55	32.99	38.87	70.79	252.91	8.05	941.29	898.77	42.52	22.137	
9,000.00	8,975.61	8,179.00	8,016.55	33.34	38.87	70.79	252.91	8.05	1,033.56	991.89	41.67	24.806	
9,100.00	9,075.61	8,179.00	8,016.55	33.69	38.87	70.79	252.91	8.05	1,127.15	1,086.12	41.03	27.473	
9,200.00	9,175.61	8,179.00	8,016.55	34.04	38.87	70.79	252.91	8.05	1,221.75	1,181.19	40.56	30.123	
9,300.00	9,275.61	8,179.00	8,016.55	34.39	38.87	70.79	252.91	8.05	1,317.15	1,276.93	40.22	32.745	
9,400.00	9,375.61	8,195.91	8,021.25	34.74	38.92	71.88	250.52	24.11	1,412.63	1,372.23	40.40	34.967	
9,500.00	9,475.61	8,210.00	8,024.44	35.08	38.97	-12.86	248.10	37.62	1,509.02	1,468.48	40.54	37.222	
9,600.00	9,574.89	8,210.00	8,024.44	35.40	38.97	-8.16	248.10	37.62	1,602.20	1,561.91	40.29	39.769	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 121H - OH - OH														Offset Site Error:	0.00 usft	
Survey Program:		194-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
9,700.00	9,670.77	8,210.00	8,024.44	35.69	38.97	-5.98	248.10	37.62	1,689.16	1,649.22	39.94	42.293				
9,800.00	9,760.34	8,210.00	8,024.44	35.98	38.97	-4.77	248.10	37.62	1,768.34	1,728.80	39.55	44.716				
9,900.00	9,840.87	8,262.82	8,033.73	36.26	39.13	-3.40	238.17	88.66	1,836.31	1,795.99	40.32	45.538				
10,000.00	9,909.93	8,304.00	8,038.99	36.48	39.26	-2.61	230.17	128.70	1,893.83	1,853.02	40.81	46.408				
10,100.00	9,965.40	8,304.00	8,038.99	36.65	39.26	-2.39	230.17	128.70	1,938.93	1,898.47	40.45	47.928				
10,200.00	10,005.61	8,304.00	8,038.99	36.92	39.26	-2.24	230.17	128.70	1,972.37	1,932.13	40.24	49.014				
10,300.00	10,029.34	8,352.16	8,041.92	37.44	39.44	-1.82	221.48	175.96	1,990.93	1,949.49	41.45	48.036				
10,400.00	10,036.00	8,399.00	8,040.57	38.08	39.62	-1.52	214.60	222.26	1,998.16	1,955.56	42.59	46.911				
10,500.00	10,036.00	8,399.00	8,040.57	38.88	39.62	-1.48	214.60	222.26	2,001.11	1,958.67	42.44	47.152				
10,600.00	10,036.00	8,498.67	8,034.05	39.84	40.11	-1.03	202.73	321.00	2,007.40	1,963.75	43.65	45.987				
10,700.00	10,036.00	8,618.14	8,027.11	40.93	40.85	-0.64	190.55	439.64	2,013.19	1,969.06	44.13	45.620				
10,800.00	10,036.00	8,784.74	8,023.29	42.15	42.26	-0.26	178.96	605.78	2,014.92	1,969.88	45.04	44.734				
10,900.00	10,036.00	8,945.54	8,024.57	43.51	44.08	-0.05	173.18	766.45	2,013.70	1,967.68	46.01	43.763				
10,980.75	10,036.00	9,104.26	8,030.58	44.69	46.29	-0.02	173.52	925.03	2,010.48	1,963.35	47.12	42.665				
11,000.00	10,036.00	9,123.70	8,031.66	44.97	46.58	-0.02	173.81	944.44	2,009.41	1,962.17	47.25	42.531				
11,079.91	10,036.00	9,195.05	8,035.53	46.22	47.70	-0.02	174.67	1,015.67	2,005.08	1,957.39	47.70	42.038				
11,100.00	10,036.00	9,211.26	8,036.34	46.54	47.96	-0.02	174.74	1,031.86	2,004.08	1,956.28	47.80	41.930				
11,179.59	10,036.00	9,274.68	8,039.22	47.86	49.00	0.01	174.51	1,095.22	2,000.47	1,952.27	48.21	41.497				
11,200.00	10,036.00	9,290.58	8,039.85	48.20	49.27	0.02	174.34	1,111.11	1,999.66	1,951.34	48.31	41.388				
11,279.27	10,036.00	9,346.00	8,041.79	49.58	50.21	0.06	173.41	1,166.48	1,996.93	1,948.23	48.71	41.000				
11,300.00	10,036.00	9,366.55	8,042.39	49.94	50.57	0.08	172.95	1,187.02	1,996.33	1,947.48	48.86	40.860				
11,378.86	10,036.00	9,422.67	8,043.58	51.37	51.57	0.14	171.49	1,243.11	1,994.66	1,945.36	49.30	40.460				
11,400.00	10,036.00	9,440.00	8,043.82	51.76	51.88	0.16	170.98	1,260.43	1,994.37	1,944.94	49.44	40.343				
11,478.56	10,036.00	9,502.41	8,044.37	53.24	53.02	0.24	168.79	1,322.80	1,993.68	1,943.72	49.96	39.907				
11,500.00	10,036.00	9,520.15	8,044.45	53.64	53.35	0.26	168.06	1,340.53	1,993.58	1,943.47	50.11	39.786				
11,579.59	10,036.00	9,624.84	8,045.33	55.19	55.36	0.39	164.67	1,445.15	1,992.97	1,942.03	50.94	39.125				
11,600.00	10,036.00	9,643.78	8,045.64	55.59	55.73	0.41	164.39	1,464.08	1,992.64	1,941.54	51.10	38.995				
11,678.65	10,036.00	9,709.99	8,046.46	57.16	57.05	0.45	163.62	1,530.29	1,991.68	1,939.99	51.69	38.529				
11,700.00	10,036.00	9,723.00	8,046.57	57.59	57.31	0.46	163.51	1,543.29	1,991.51	1,939.69	51.82	38.430				
11,800.00	10,036.00	9,797.02	8,046.58	59.64	58.82	0.50	162.56	1,617.31	1,991.56	1,939.01	52.56	37.894				
11,900.00	10,036.00	9,878.08	8,045.47	61.73	60.50	0.57	160.98	1,698.34	1,992.94	1,939.56	53.37	37.340				
12,000.00	10,036.00	9,979.30	8,043.59	63.86	62.63	0.66	159.16	1,799.53	1,994.83	1,940.49	54.34	36.711				
12,100.00	10,036.00	10,226.19	8,047.38	66.03	68.05	0.64	162.45	2,046.26	1,993.93	1,937.54	56.39	35.360				
12,180.94	10,036.00	10,348.87	8,056.00	67.81	70.80	0.55	166.93	2,168.54	1,988.07	1,930.47	57.60	34.517				
12,200.00	10,036.00	10,373.00	8,057.83	68.23	71.35	0.53	167.77	2,192.58	1,986.63	1,928.79	57.84	34.345				
12,280.37	10,036.00	10,437.77	8,062.58	70.02	72.82	0.49	169.99	2,257.14	1,980.68	1,922.14	58.54	33.832				
12,300.00	10,036.00	10,456.04	8,063.89	70.46	73.24	0.47	170.62	2,275.35	1,979.27	1,920.53	58.74	33.698				
12,380.44	10,036.00	10,534.82	8,069.48	72.27	75.05	0.42	173.36	2,353.89	1,973.54	1,913.98	59.56	33.134				
12,400.00	10,036.00	10,554.10	8,070.85	72.72	75.49	0.40	174.02	2,373.11	1,972.15	1,912.39	59.76	32.999				
12,480.28	10,036.00	10,625.36	8,075.73	74.55	77.14	0.36	176.24	2,444.17	1,966.64	1,906.09	60.56	32.477				
12,500.00	10,036.00	10,642.81	8,076.88	75.00	77.55	0.35	176.72	2,461.57	1,965.34	1,904.59	60.75	32.351				
12,580.03	10,036.00	10,708.38	8,080.92	76.84	79.08	0.33	178.38	2,526.99	1,960.41	1,898.89	61.52	31.867				
12,600.00	10,036.00	10,724.63	8,081.84	77.30	79.46	0.32	178.78	2,543.21	1,959.27	1,897.56	61.71	31.749				
12,679.56	10,036.00	10,778.91	8,084.59	79.15	80.73	0.30	179.98	2,597.41	1,955.27	1,892.84	62.42	31.323				
12,700.00	10,036.00	10,791.95	8,085.12	79.62	81.04	0.30	180.20	2,610.44	1,954.42	1,891.82	62.60	31.219				
12,779.05	10,036.00	10,833.00	8,086.50	81.47	82.01	0.30	180.73	2,651.46	1,951.92	1,888.67	63.25	30.862				
12,800.00	10,036.00	10,857.27	8,087.10	81.96	82.58	0.30	180.97	2,675.72	1,951.39	1,887.87	63.52	30.723				
12,878.54	10,036.00	10,910.63	8,087.91	83.82	83.84	0.29	181.61	2,729.07	1,950.19	1,885.92	64.27	30.344				
12,900.00	10,036.00	10,926.00	8,088.02	84.32	84.21	0.29	181.82	2,744.44	1,950.04	1,885.56	64.48	30.241				
13,000.00	10,036.00	11,007.64	8,088.07	86.70	86.15	0.27	183.56	2,826.06	1,949.97	1,884.43	65.54	29.752				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 121H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 194-MWD+IGRF							Rule Assigned:						Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,100.00	10,036.00	11,080.15	8,087.31	89.08	87.88	0.22	185.76	2,898.53	1,951.01	1,884.46	66.55	29.315	
13,200.00	10,036.00	11,279.68	8,088.79	91.49	92.69	0.07	192.99	3,097.87	1,950.29	1,881.79	68.50	28.473	
13,279.94	10,036.00	11,375.74	8,092.94	93.42	95.02	-0.02	197.25	3,193.74	1,946.73	1,877.13	69.60	27.971	
13,300.00	10,036.00	11,392.00	8,093.60	93.90	95.41	-0.04	197.96	3,209.97	1,945.92	1,876.10	69.82	27.871	
13,379.31	10,036.00	11,453.80	8,095.77	95.82	96.92	-0.10	200.75	3,271.67	1,943.14	1,872.46	70.68	27.492	
13,400.00	10,036.00	11,469.79	8,096.24	96.32	97.31	-0.12	201.50	3,287.64	1,942.53	1,871.63	70.90	27.396	
13,479.04	10,036.00	11,532.81	8,097.74	98.25	98.85	-0.19	204.60	3,350.56	1,940.65	1,868.87	71.78	27.035	
13,500.00	10,036.00	11,549.70	8,098.06	98.76	99.26	-0.22	205.52	3,367.43	1,940.26	1,868.24	72.02	26.941	
13,578.77	10,036.00	11,613.86	8,098.95	100.69	100.83	-0.31	209.29	3,431.46	1,939.17	1,866.26	72.92	26.594	
13,600.00	10,036.00	11,631.32	8,099.12	101.21	101.26	-0.34	210.40	3,448.90	1,938.98	1,865.82	73.16	26.503	
13,678.30	10,036.00	11,696.88	8,099.44	103.13	102.86	-0.45	214.90	3,514.29	1,938.62	1,864.54	74.08	26.170	
13,700.00	10,036.00	11,715.72	8,099.47	103.66	103.33	-0.48	216.28	3,533.08	1,938.60	1,864.26	74.34	26.078	
13,800.00	10,036.00	11,797.25	8,099.22	106.12	105.33	-0.65	222.70	3,614.36	1,938.99	1,863.48	75.52	25.677	
13,900.00	10,036.00	11,870.85	8,098.06	108.59	107.14	-0.83	229.52	3,687.63	1,940.67	1,864.01	76.66	25.314	
14,000.00	10,036.00	12,001.52	8,095.32	111.07	110.39	-1.07	238.97	3,817.91	1,943.07	1,864.87	78.21	24.845	
14,100.00	10,036.00	12,128.44	8,096.31	113.55	113.57	-1.12	242.05	3,944.79	1,942.09	1,862.37	79.73	24.359	
14,179.17	10,036.00	12,211.68	8,096.80	115.53	115.66	-1.12	242.85	4,028.02	1,941.64	1,860.83	80.80	24.030	
14,200.00	10,036.00	12,235.67	8,097.00	116.05	116.26	-1.10	242.39	4,052.01	1,941.45	1,860.35	81.09	23.941	
14,280.67	10,036.00	12,369.08	8,099.63	118.06	119.64	-0.82	234.23	4,185.11	1,939.89	1,857.45	82.43	23.533	
14,300.00	10,036.00	12,428.02	8,102.32	118.54	121.12	-0.66	229.69	4,243.81	1,938.98	1,856.07	82.90	23.389	
14,380.61	10,036.00	12,526.00	8,108.71	120.56	123.58	-0.45	223.35	4,341.38	1,933.58	1,849.51	84.07	23.000	
14,400.00	10,036.00	12,551.40	8,110.51	121.04	124.21	-0.40	221.93	4,366.68	1,932.16	1,847.80	84.36	22.904	
14,479.91	10,036.00	12,620.00	8,114.75	123.05	125.94	-0.26	217.95	4,435.03	1,927.14	1,841.78	85.36	22.576	
14,500.00	10,036.00	12,620.00	8,114.75	123.55	125.94	-0.26	217.95	4,435.03	1,925.97	1,840.45	85.52	22.520	
14,579.66	10,036.00	12,682.80	8,117.85	125.55	127.52	-0.13	214.24	4,497.63	1,922.03	1,835.52	86.50	22.219	
14,600.00	10,036.00	12,697.93	8,118.50	126.06	127.90	-0.10	213.36	4,512.73	1,921.16	1,834.41	86.75	22.146	
14,679.40	10,036.00	12,761.97	8,120.86	128.06	129.51	0.03	209.72	4,576.62	1,918.21	1,830.47	87.74	21.863	
14,700.00	10,036.00	12,779.07	8,121.41	128.58	129.94	0.06	208.77	4,593.68	1,917.54	1,829.55	88.00	21.791	
14,779.03	10,036.00	12,838.89	8,123.05	130.58	131.45	0.18	205.55	4,653.40	1,915.40	1,826.43	88.97	21.529	
14,800.00	10,036.00	12,853.64	8,123.35	131.10	131.83	0.20	204.81	4,668.13	1,914.98	1,825.76	89.22	21.463	
14,878.42	10,036.00	12,901.00	8,123.97	133.08	133.02	0.28	202.62	4,715.43	1,914.05	1,823.94	90.12	21.240	
14,900.00	10,036.00	12,924.56	8,124.11	133.63	133.62	0.32	201.63	4,738.97	1,913.93	1,823.50	90.43	21.165	
15,000.00	10,036.00	12,995.00	8,123.83	136.16	135.40	0.42	199.19	4,809.37	1,914.37	1,822.73	91.64	20.891	
15,100.00	10,036.00	13,090.00	8,122.53	138.69	137.82	0.49	197.80	4,904.34	1,915.76	1,822.76	93.00	20.600	
15,200.00	10,036.00	13,251.99	8,123.67	141.23	141.94	0.44	201.11	5,066.27	1,914.67	1,819.89	94.78	20.200	
15,280.28	10,036.00	13,365.13	8,127.08	143.27	144.81	0.34	205.42	5,179.28	1,912.09	1,815.99	96.09	19.898	
15,300.00	10,036.00	13,400.59	8,128.64	143.77	145.71	0.32	206.72	5,214.67	1,911.13	1,814.66	96.46	19.812	
15,379.14	10,036.00	13,449.99	8,130.35	145.78	146.97	0.28	208.39	5,264.01	1,908.37	1,810.94	97.43	19.588	
15,400.00	10,036.00	13,468.00	8,130.79	146.31	147.43	0.27	208.96	5,282.01	1,907.86	1,810.15	97.71	19.526	
15,481.15	10,036.00	13,658.00	8,139.44	148.38	152.26	0.03	218.83	5,471.51	1,905.06	1,805.66	99.40	19.165	
15,500.00	10,036.00	13,681.93	8,141.51	148.86	152.87	-0.01	220.55	5,495.29	1,903.41	1,803.71	99.70	19.092	
15,580.38	10,036.00	13,753.00	8,147.22	150.91	154.67	-0.15	226.03	5,565.91	1,896.92	1,796.11	100.81	18.816	
15,600.00	10,036.00	13,753.00	8,147.22	151.41	154.67	-0.15	226.03	5,565.91	1,895.45	1,794.44	101.01	18.766	
15,680.35	10,036.00	13,825.45	8,152.36	153.46	156.50	-0.32	232.26	5,637.91	1,889.78	1,787.67	102.11	18.507	
15,700.00	10,036.00	13,847.00	8,153.75	153.96	157.05	-0.38	234.26	5,659.32	1,888.52	1,786.11	102.40	18.442	
15,779.79	10,036.00	13,900.43	8,156.88	156.00	158.40	-0.52	239.47	5,712.41	1,883.84	1,780.41	103.43	18.213	
15,800.00	10,036.00	13,915.35	8,157.65	156.52	158.78	-0.56	240.99	5,727.23	1,882.80	1,779.10	103.70	18.156	
15,879.50	10,036.00	13,974.48	8,160.34	158.55	160.28	-0.72	246.96	5,785.99	1,879.26	1,774.49	104.77	17.937	
15,900.00	10,036.00	13,989.87	8,160.93	159.07	160.68	-0.76	248.26	5,801.32	1,878.48	1,773.44	105.04	17.883	
15,979.38	10,036.00	14,055.31	8,163.02	161.10	162.36	-0.86	252.27	5,866.60	1,875.98	1,769.85	106.13	17.676	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 121H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 194-MWD+IGRF													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,000.00	10,036.00	14,078.44	8,163.72	161.63	162.96	-0.88	252.99	5,889.71	1,875.37	1,768.92	106.44	17.618	
16,079.55	10,036.00	14,160.41	8,166.33	163.67	165.09	-0.84	252.68	5,971.62	1,872.81	1,765.22	107.59	17.407	
16,100.00	10,036.00	14,178.80	8,166.90	164.19	165.57	-0.83	252.45	5,990.01	1,872.17	1,764.31	107.87	17.356	
16,179.12	10,036.00	14,244.23	8,168.72	166.22	167.25	-0.79	251.91	6,055.41	1,869.97	1,761.04	108.92	17.168	
16,200.00	10,036.00	14,258.69	8,169.03	166.76	167.62	-0.79	251.82	6,069.86	1,869.52	1,760.33	109.19	17.122	
16,300.00	10,036.00	14,320.00	8,169.78	169.32	169.20	-0.76	251.50	6,131.17	1,868.38	1,757.98	110.41	16.923	
16,400.00	10,036.00	14,414.00	8,169.55	171.89	171.61	-0.76	252.47	6,225.16	1,868.63	1,756.81	111.82	16.711	
16,500.00	10,036.00	14,482.33	8,168.51	174.46	173.37	-0.80	254.71	6,293.44	1,870.09	1,757.02	113.07	16.539	
16,600.00	10,036.00	14,720.22	8,172.63	177.03	179.49	-0.96	262.14	6,531.04	1,868.22	1,752.85	115.37	16.194	
16,679.88	10,036.00	14,794.00	8,176.39	179.08	181.40	-0.92	261.49	6,604.72	1,864.12	1,747.62	116.50	16.002	
16,700.00	10,036.00	14,811.83	8,177.26	179.60	181.86	-0.91	261.38	6,622.53	1,863.13	1,746.36	116.78	15.955	
16,779.53	10,036.00	14,878.64	8,180.25	181.65	183.58	-0.89	261.43	6,689.27	1,859.57	1,741.70	117.87	15.776	
16,800.00	10,036.00	14,889.00	8,180.67	182.18	183.85	-0.89	261.50	6,699.62	1,858.76	1,740.63	118.13	15.735	
16,879.26	10,036.00	14,953.00	8,182.86	184.22	185.50	-0.91	262.67	6,763.57	1,856.09	1,736.87	119.22	15.569	
16,900.00	10,036.00	14,968.19	8,183.26	184.75	185.89	-0.92	263.14	6,778.75	1,855.54	1,736.05	119.50	15.528	
16,979.85	10,036.00	15,070.61	8,186.22	186.81	188.53	-0.98	266.27	6,881.08	1,853.32	1,732.53	120.79	15.343	
17,000.00	10,036.00	15,093.65	8,187.10	187.33	189.13	-0.99	266.62	6,904.09	1,852.55	1,731.45	121.10	15.298	
17,079.67	10,036.00	15,172.00	8,190.13	189.38	191.16	-0.91	264.97	6,982.36	1,849.42	1,727.19	122.23	15.130	
17,100.00	10,036.00	15,191.42	8,190.86	189.91	191.67	-0.88	264.04	7,001.74	1,848.64	1,726.12	122.52	15.089	
17,179.18	10,036.00	15,254.97	8,192.92	191.95	193.32	-0.77	261.27	7,065.20	1,846.02	1,722.44	123.58	14.938	
17,200.00	10,036.00	15,266.00	8,193.22	192.49	193.60	-0.75	260.84	7,076.22	1,845.45	1,721.62	123.83	14.903	
17,278.79	10,036.00	15,326.18	8,194.41	194.52	195.16	-0.68	258.89	7,136.35	1,843.88	1,719.01	124.87	14.766	
17,300.00	10,036.00	15,341.05	8,194.58	195.07	195.54	-0.66	258.53	7,151.22	1,843.63	1,718.48	125.15	14.731	
17,400.00	10,036.00	15,416.18	8,194.76	197.65	197.48	-0.60	257.29	7,226.34	1,843.35	1,716.88	126.47	14.576	
17,500.00	10,036.00	15,492.88	8,194.00	200.24	199.46	-0.55	256.73	7,303.03	1,844.33	1,716.54	127.78	14.433	
17,600.00	10,036.00	15,584.38	8,192.00	202.82	201.83	-0.54	257.27	7,394.50	1,846.48	1,717.28	129.20	14.292	
17,700.00	10,036.00	15,779.29	8,193.77	205.41	206.88	-0.54	259.16	7,589.34	1,845.18	1,713.94	131.24	14.060	
17,781.88	10,036.00	15,844.45	8,195.28	207.53	208.57	-0.53	259.45	7,654.48	1,843.23	1,710.83	132.40	13.922	
17,800.00	10,036.00	16,065.83	8,213.18	208.00	214.27	-0.52	261.43	7,874.94	1,840.89	1,707.67	133.22	13.818	
17,881.60	10,036.00	16,113.00	8,219.28	210.11	215.48	-0.51	261.32	7,921.71	1,830.56	1,696.11	134.45	13.615	
17,900.00	10,036.00	16,139.70	8,222.56	210.58	216.17	-0.49	261.18	7,948.20	1,828.24	1,693.52	134.72	13.571	
17,981.06	10,036.00	16,187.98	8,227.81	212.68	217.41	-0.46	260.48	7,996.19	1,819.41	1,683.51	135.90	13.388	
18,000.00	10,036.00	16,208.00	8,229.73	213.17	217.93	-0.44	260.02	8,016.11	1,817.58	1,681.41	136.18	13.347	
18,080.22	10,036.00	16,241.33	8,232.52	215.25	218.79	-0.39	258.92	8,049.30	1,810.65	1,673.34	137.31	13.187	
18,100.00	10,036.00	16,251.38	8,233.25	215.76	219.06	-0.37	258.49	8,059.32	1,809.22	1,671.63	137.58	13.150	
18,179.55	10,036.00	16,302.00	8,236.08	217.82	220.37	-0.27	255.66	8,109.78	1,804.57	1,665.87	138.70	13.011	
18,200.00	10,036.00	16,302.00	8,236.08	218.35	220.37	-0.27	255.66	8,109.78	1,803.58	1,664.65	138.93	12.982	
18,279.30	10,036.00	16,361.83	8,238.29	220.41	221.92	-0.12	251.75	8,169.44	1,800.62	1,660.59	140.04	12.858	
18,300.00	10,036.00	16,377.37	8,238.76	220.95	222.32	-0.09	250.77	8,184.94	1,800.00	1,659.67	140.32	12.827	
18,378.84	10,036.00	16,434.36	8,240.07	222.99	223.80	0.04	247.31	8,241.81	1,798.18	1,656.78	141.40	12.717	
18,400.00	10,036.00	16,449.37	8,240.29	223.54	224.19	0.07	246.41	8,256.79	1,797.87	1,656.18	141.68	12.689	
18,500.00	10,036.00	16,522.95	8,240.69	226.13	226.10	0.23	242.15	8,330.24	1,797.33	1,654.29	143.03	12.566	
18,600.00	10,036.00	16,601.98	8,240.10	228.73	228.15	0.39	237.95	8,409.16	1,798.10	1,653.70	144.41	12.452	
18,700.00	10,036.00	16,680.00	8,238.82	231.32	230.17	0.53	234.43	8,487.09	1,799.85	1,654.08	145.76	12.348	
18,739.05	10,036.00	16,716.99	8,237.97	232.05	231.13	0.59	232.87	8,524.04	1,800.77	1,654.66	146.11	12.325	

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 122H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		194-MWD+IGRF				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-135.00	-30.00	-30.00	42.43					
100.00	100.00	100.94	100.94	0.50	0.63	-134.26	-29.66	-30.43	42.49	41.59	0.91	46.928		
200.00	200.00	200.87	200.86	1.05	1.22	-132.10	-28.65	-31.71	42.73	40.93	1.80	23.747		
300.00	300.00	300.61	300.56	1.55	1.45	-128.46	-26.94	-33.92	43.32	40.82	2.50	17.355 ES		
400.00	400.00	400.32	400.18	1.98	1.84	-123.31	-24.62	-37.45	44.83	41.65	3.18	14.112		
500.00	500.00	500.14	499.89	2.40	2.31	-118.18	-22.16	-41.36	46.94	43.09	3.85	12.198		
600.00	600.00	600.18	599.82	2.79	2.73	-113.67	-19.83	-45.23	49.40	44.86	4.54	10.872		
700.00	700.00	700.73	700.34	3.18	3.10	-111.93	-19.14	-47.54	51.25	45.79	5.46	9.381		
800.00	800.00	801.22	800.81	3.56	3.42	-113.38	-20.64	-47.73	52.00	45.39	6.61	7.869		
900.00	900.00	901.36	900.90	3.94	3.72	-117.16	-23.83	-46.45	52.21	44.77	7.44	7.019		
1,000.00	1,000.00	1,001.26	1,000.71	4.32	4.06	-121.63	-27.55	-44.73	52.53	44.37	8.16	6.436		
1,100.00	1,100.00	1,101.09	1,100.43	4.69	4.38	-126.54	-31.76	-42.86	53.35	44.45	8.90	5.997		
1,200.00	1,200.00	1,200.95	1,200.15	5.06	4.71	-132.01	-36.58	-40.61	54.67	45.04	9.63	5.676		
1,300.00	1,300.00	1,301.01	1,300.06	5.43	5.05	-137.36	-41.43	-38.15	56.33	45.96	10.37	5.433		
1,400.00	1,400.00	1,401.07	1,399.98	5.79	5.39	-142.50	-46.02	-35.31	58.01	46.92	11.09	5.231		
1,500.00	1,500.00	1,500.69	1,499.38	6.16	5.78	-148.55	-51.30	-31.38	60.16	48.34	11.81	5.092 SF		
1,600.00	1,599.99	1,599.08	1,597.38	6.47	6.24	-86.83	-58.40	-26.32	64.07	51.54	12.53	5.113		
1,700.00	1,699.91	1,697.36	1,695.17	6.78	6.65	-95.97	-67.09	-21.82	71.15	57.90	13.26	5.367		
1,800.00	1,799.69	1,796.57	1,793.97	7.10	7.01	-103.46	-75.78	-19.64	80.55	66.58	13.97	5.765		
1,900.00	1,899.27	1,894.51	1,891.51	7.48	7.36	-109.94	-84.61	-18.73	92.19	77.53	14.66	6.288		
2,000.00	1,998.57	1,992.34	1,988.87	8.00	7.70	-115.68	-94.21	-18.60	106.62	91.23	15.38	6.931		
2,100.00	2,097.62	2,089.17	2,085.16	8.33	8.05	-120.74	-104.40	-18.64	123.59	107.57	16.02	7.713		
2,200.00	2,196.65	2,184.36	2,179.60	8.67	8.48	-123.99	-116.19	-19.82	142.88	126.18	16.69	8.560		
2,300.00	2,295.67	2,279.12	2,273.22	9.02	9.00	-125.53	-130.45	-22.95	164.43	147.01	17.41	9.443		
2,400.00	2,394.70	2,375.59	2,368.27	9.39	9.41	-126.16	-146.35	-27.61	186.99	168.86	18.13	10.315		
2,500.00	2,493.73	2,470.61	2,461.50	9.76	9.79	-126.02	-163.45	-34.07	210.45	191.63	18.82	11.180		
2,600.00	2,592.75	2,566.31	2,555.11	10.15	10.17	-125.56	-181.88	-41.64	234.79	215.25	19.54	12.017		
2,700.00	2,691.78	2,663.84	2,650.50	10.54	10.52	-125.20	-200.72	-49.27	259.24	238.96	20.28	12.784		
2,800.00	2,790.81	2,761.09	2,745.65	10.93	10.89	-124.91	-219.27	-56.87	283.46	262.44	21.02	13.484		
2,900.00	2,889.83	2,857.77	2,840.15	11.33	11.27	-124.56	-238.02	-64.94	307.85	286.08	21.76	14.145		
3,000.00	2,988.86	2,956.53	2,936.83	11.73	11.67	-124.39	-256.71	-72.57	331.96	309.42	22.54	14.729		
3,100.00	3,087.89	3,055.58	3,033.99	12.14	12.09	-124.38	-274.70	-79.53	355.52	332.20	23.32	15.247		
3,200.00	3,186.91	3,153.58	3,130.20	12.55	12.52	-124.41	-292.03	-86.26	378.66	354.57	24.09	15.720		
3,300.00	3,285.94	3,250.63	3,225.39	12.96	12.95	-124.33	-309.42	-93.67	401.83	376.98	24.85	16.169		
3,400.00	3,384.97	3,345.62	3,318.57	13.38	13.38	-124.29	-326.50	-100.70	425.13	399.53	25.60	16.608		
3,500.00	3,484.00	3,435.01	3,406.17	13.79	13.80	-124.33	-343.35	-106.44	449.51	423.22	26.29	17.097		
3,600.00	3,583.02	3,526.75	3,495.65	14.21	14.26	-124.27	-362.61	-112.64	475.80	448.77	27.03	17.604		
3,700.00	3,682.05	3,623.68	3,590.23	14.63	14.75	-124.19	-382.73	-119.44	501.83	474.01	27.83	18.034		
3,800.00	3,781.08	3,713.51	3,677.66	15.05	15.20	-124.07	-402.28	-125.95	528.77	500.24	28.53	18.535		
3,900.00	3,880.10	3,805.87	3,767.36	15.47	15.67	-123.96	-423.33	-132.41	556.74	527.47	29.27	19.022		
4,000.00	3,979.13	3,902.69	3,861.39	15.89	16.18	-123.87	-445.45	-138.94	584.83	554.76	30.07	19.451		
4,100.00	4,078.16	4,001.90	3,957.86	16.32	16.69	-123.86	-467.77	-145.10	612.72	581.83	30.89	19.833		
4,200.00	4,177.19	4,103.03	4,056.46	16.73	17.21	-123.96	-489.50	-150.89	639.73	608.00	31.73	20.161		
4,300.00	4,276.44	4,201.24	4,152.34	17.14	17.72	-124.26	-510.08	-156.08	665.44	632.90	32.53	20.455		
4,400.00	4,375.98	4,300.22	4,249.05	17.55	18.22	-124.36	-530.56	-161.19	689.48	656.12	33.36	20.667		
4,500.00	4,475.73	4,401.01	4,347.60	17.95	18.74	-124.26	-551.04	-166.44	711.75	677.56	34.19	20.816		
4,600.00	4,575.63	4,497.24	4,441.75	18.33	19.23	-124.03	-570.28	-171.43	732.31	697.35	34.95	20.952		
4,700.00	4,675.61	4,589.93	4,532.35	18.70	19.70	-123.67	-589.29	-176.02	752.06	716.40	35.66	21.092		
4,800.00	4,775.61	4,689.69	4,629.81	19.01	20.22	167.00	-610.08	-180.63	771.37	735.01	36.36	21.213		
4,900.00	4,875.61	4,794.79	4,732.71	19.34	20.75	167.65	-631.03	-184.86	790.00	752.88	37.12	21.280		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 122H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 194-MWD+IGRF													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,975.61	4,898.97	4,834.96	19.66	21.27	168.18	-650.72	-188.17	807.86	769.99	37.87	21.332	
5,100.00	5,075.61	5,009.20	4,943.30	19.99	21.83	168.77	-670.54	-192.53	824.74	786.07	38.67	21.329	
5,200.00	5,175.61	5,107.75	5,040.07	20.32	22.36	169.44	-688.02	-199.01	840.99	801.63	39.37	21.364	
5,300.00	5,275.61	5,211.58	5,142.05	20.65	22.88	170.15	-706.11	-206.29	856.98	816.87	40.11	21.367	
5,400.00	5,375.61	5,317.78	5,246.62	20.98	23.39	170.77	-723.60	-212.64	872.29	831.42	40.87	21.345	
5,500.00	5,475.61	5,424.88	5,352.27	21.31	23.89	171.31	-740.17	-218.44	886.77	845.14	41.63	21.304	
5,600.00	5,575.61	5,532.01	5,458.15	21.65	24.38	171.79	-755.59	-223.58	900.33	857.95	42.38	21.245	
5,700.00	5,675.61	5,638.29	5,563.34	21.98	24.85	172.23	-769.96	-228.48	913.11	869.99	43.12	21.175	
5,800.00	5,775.61	5,724.36	5,648.54	22.31	25.24	172.56	-781.55	-232.30	925.93	882.21	43.73	21.174	
5,900.00	5,875.61	5,810.33	5,733.38	22.65	25.64	172.91	-794.82	-236.33	940.66	896.33	44.34	21.216	
6,000.00	5,975.61	5,903.55	5,825.27	22.99	26.08	173.29	-809.92	-240.79	956.20	911.20	45.00	21.250	
6,100.00	6,075.61	5,998.06	5,918.36	23.32	26.53	173.66	-825.68	-245.08	972.28	926.62	45.66	21.293	
6,200.00	6,175.61	6,087.86	6,006.72	23.66	26.97	174.01	-841.06	-249.31	988.86	942.57	46.29	21.361	
6,300.00	6,275.61	6,174.41	6,091.63	24.00	27.40	174.39	-857.09	-254.27	1,006.74	959.85	46.90	21.466	
6,400.00	6,375.61	6,277.52	6,192.62	24.34	27.93	174.87	-876.80	-260.84	1,025.25	977.59	47.66	21.513	
6,500.00	6,475.61	6,401.07	6,314.15	24.68	28.53	175.34	-898.05	-267.33	1,041.97	993.37	48.60	21.442	
6,600.00	6,575.61	6,523.43	6,435.09	25.02	29.10	175.66	-916.17	-271.78	1,056.46	1,006.97	49.50	21.344	
6,700.00	6,675.61	6,635.83	6,546.53	25.36	29.60	175.88	-930.45	-274.89	1,068.90	1,018.60	50.30	21.250	
6,800.00	6,775.61	6,711.00	6,620.93	25.71	29.97	176.12	-940.45	-278.67	1,081.93	1,031.08	50.85	21.278	
6,900.00	6,875.61	6,795.06	6,703.79	26.05	30.41	176.49	-953.22	-284.76	1,096.72	1,045.26	51.46	21.313	
7,000.00	6,975.61	6,880.46	6,787.77	26.39	30.85	176.84	-967.56	-290.66	1,113.13	1,061.06	52.06	21.380	
7,100.00	7,075.61	6,973.69	6,879.42	26.73	31.32	177.14	-983.91	-295.48	1,130.40	1,077.67	52.73	21.439	
7,200.00	7,175.61	7,143.78	7,047.58	27.08	32.09	177.42	-1,008.67	-299.88	1,144.88	1,090.84	54.05	21.184	
7,300.00	7,275.61	7,284.80	7,187.96	27.42	32.64	177.45	-1,022.08	-299.90	1,154.40	1,099.37	55.03	20.978	
7,400.00	7,375.61	7,489.83	7,392.75	27.77	33.25	177.18	-1,026.79	-294.26	1,156.06	1,100.04	56.02	20.635	
7,500.00	7,475.61	7,593.15	7,495.84	28.11	33.79	176.88	-1,024.64	-288.29	1,154.27	1,097.57	56.71	20.355	
7,575.95	7,551.57	7,651.00	7,552.56	28.38	34.39	176.33	-1,023.24	-277.19	1,153.38	1,096.11	57.27	20.138	
7,600.00	7,575.61	7,651.00	7,552.56	28.46	34.39	176.33	-1,023.24	-277.19	1,153.63	1,096.23	57.40	20.098	
7,700.00	7,675.61	7,705.87	7,605.16	28.81	35.34	175.56	-1,023.52	-261.62	1,156.97	1,098.52	58.45	19.794	
7,800.00	7,775.61	7,745.00	7,642.02	29.15	36.05	174.93	-1,025.71	-248.68	1,165.81	1,106.55	59.25	19.675	
7,900.00	7,875.61	7,800.38	7,693.39	29.50	36.37	173.97	-1,030.78	-228.63	1,179.32	1,119.29	60.03	19.646	
8,000.00	7,975.61	7,858.21	7,746.18	29.85	36.73	172.91	-1,037.69	-206.09	1,196.84	1,136.11	60.73	19.708	
8,100.00	8,075.61	7,932.00	7,810.36	30.19	37.22	171.28	-1,046.76	-170.92	1,217.72	1,156.21	61.51	19.797	
8,200.00	8,175.61	7,966.13	7,838.01	30.54	37.72	170.38	-1,050.85	-151.35	1,242.45	1,180.56	61.89	20.075	
8,300.00	8,275.61	8,024.00	7,879.82	30.89	38.57	168.60	-1,057.73	-112.05	1,272.78	1,209.97	62.81	20.264	
8,400.00	8,375.61	8,024.00	7,879.82	31.24	38.57	168.60	-1,057.73	-112.05	1,307.41	1,245.12	62.29	20.989	
8,500.00	8,475.61	8,063.76	7,905.00	31.59	39.01	167.24	-1,062.27	-81.62	1,347.42	1,284.73	62.68	21.496	
8,600.00	8,575.61	8,091.93	7,921.41	31.94	39.32	166.24	-1,065.36	-58.94	1,392.17	1,329.38	62.79	22.171	
8,700.00	8,675.61	8,119.00	7,936.03	32.29	39.61	165.26	-1,068.20	-36.34	1,441.47	1,378.58	62.89	22.920	
8,800.00	8,775.61	8,147.87	7,950.88	32.64	39.66	164.20	-1,071.27	-11.77	1,494.87	1,432.22	62.65	23.860	
8,900.00	8,875.61	8,179.52	7,966.86	32.99	39.71	163.06	-1,074.86	15.31	1,551.83	1,489.37	62.46	24.847	
9,000.00	8,975.61	8,214.00	7,983.93	33.34	39.77	161.83	-1,079.04	44.97	1,612.02	1,549.71	62.32	25.867	
9,100.00	9,075.61	8,214.00	7,983.93	33.69	39.77	161.83	-1,079.04	44.97	1,675.46	1,613.94	61.52	27.236	
9,200.00	9,175.61	8,214.00	7,983.93	34.04	39.77	161.83	-1,079.04	44.97	1,742.32	1,681.60	60.72	28.693	
9,300.00	9,275.61	8,214.00	7,983.93	34.39	39.77	161.83	-1,079.04	44.97	1,812.24	1,752.29	59.95	30.227	
9,400.00	9,375.61	8,214.00	7,983.93	34.74	39.77	161.83	-1,079.04	44.97	1,884.88	1,825.66	59.22	31.829	
9,500.00	9,475.61	8,255.24	8,001.91	35.08	39.80	72.34	-1,084.45	81.67	1,957.39	1,897.84	59.55	32.870	
9,600.00	9,574.89	8,263.11	8,004.82	35.40	39.81	62.02	-1,085.53	88.90	2,031.24	1,972.19	59.04	34.404	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.00	0.00	0.99	0.99	0.00	0.01	-90.91	-1.75	-110.33	110.34					
100.00	100.00	100.19	100.18	0.50	0.75	-90.97	-1.88	-110.70	110.72	109.64	1.08	102.762		
200.00	200.00	199.37	199.36	1.05	1.49	-91.16	-2.26	-111.78	111.82	109.61	2.21	50.710		
300.00	300.00	299.05	299.02	1.55	2.02	-91.47	-2.90	-113.43	113.48	110.35	3.14	36.176		
400.00	400.00	398.18	398.13	1.98	2.33	-91.94	-3.92	-115.52	115.63	111.77	3.85	30.024		
500.00	500.00	498.49	498.40	2.40	2.91	-92.50	-5.15	-117.83	117.97	113.15	4.82	24.456		
600.00	600.00	599.38	599.27	2.79	3.55	-93.02	-6.32	-119.80	119.98	114.19	5.78	20.744		
700.00	700.00	702.15	702.03	3.18	4.47	-93.01	-6.31	-120.10	120.27	113.55	6.72	17.889		
800.00	800.00	803.76	803.61	3.56	5.73	-92.27	-4.69	-118.37	118.49	110.40	8.09	14.642		
900.00	900.00	904.03	903.82	3.94	7.32	-90.87	-1.76	-116.12	116.16	106.19	9.98	11.642		
1,000.00	1,000.00	1,003.24	1,002.92	4.32	8.03	-88.92	2.14	-113.91	113.95	102.75	11.19	10.179		
1,100.00	1,100.00	1,101.91	1,101.51	4.69	8.26	-86.91	6.09	-112.71	112.88	100.89	11.99	9.418		
1,130.97	1,130.97	1,132.40	1,131.97	4.80	8.32	-86.28	7.31	-112.56	112.80	100.58	12.22	9.231		
1,200.00	1,200.00	1,199.92	1,199.42	5.06	8.42	-84.70	10.45	-112.78	113.28	100.57	12.71	8.916		
1,300.00	1,300.00	1,297.58	1,296.89	5.43	8.61	-81.92	16.25	-114.52	115.74	102.37	13.37	8.657		
1,400.00	1,400.00	1,397.73	1,396.73	5.79	8.78	-78.50	23.79	-116.88	119.36	105.40	13.96	8.552		
1,500.00	1,500.00	1,498.07	1,496.62	6.16	9.05	-74.42	33.01	-118.39	122.99	108.45	14.53	8.463		
1,600.00	1,599.99	1,600.37	1,598.47	6.47	9.58	-0.16	42.69	-118.29	124.47	109.19	15.28	8.144		
1,700.00	1,699.91	1,700.37	1,698.06	6.78	10.36	4.08	51.58	-116.34	122.07	105.73	16.34	7.471		
1,800.00	1,799.69	1,794.66	1,791.89	7.10	11.91	8.14	60.71	-116.93	120.40	103.03	17.37	6.932		
1,819.23	1,818.86	1,812.81	1,809.93	7.14	12.25	8.91	62.61	-117.50	120.36	102.83	17.52	6.869		
1,900.00	1,899.27	1,890.67	1,887.22	7.48	13.52	12.11	71.18	-121.40	120.91	102.99	17.93	6.745		
2,000.00	1,998.57	1,990.09	1,985.86	8.00	14.70	16.23	82.19	-127.23	120.61	102.17	18.44	6.541		
2,100.00	2,097.62	2,088.98	2,083.96	8.33	15.58	20.47	92.95	-133.47	119.25	100.48	18.78	6.352		
2,144.00	2,141.19	2,132.23	2,126.84	8.48	15.74	22.15	97.54	-136.68	119.09	100.11	18.98	6.273		
2,200.00	2,196.65	2,187.35	2,181.46	8.67	15.95	24.09	103.26	-141.31	119.34	100.05	19.29	6.187		
2,300.00	2,295.67	2,287.43	2,280.60	9.02	16.32	26.94	113.08	-150.99	120.57	100.59	19.98	6.035		
2,400.00	2,394.70	2,389.16	2,381.50	9.39	16.67	29.16	121.27	-161.01	120.85	100.06	20.79	5.814		
2,476.18	2,470.14	2,464.92	2,456.71	9.67	16.89	30.46	126.31	-168.56	120.42	98.92	21.50	5.602		
2,500.00	2,493.73	2,488.11	2,479.71	9.76	16.95	30.82	127.94	-171.05	120.48	98.74	21.74	5.542 ES		
2,600.00	2,592.75	2,585.44	2,576.05	10.15	17.18	32.15	135.57	-182.56	122.12	99.37	22.75	5.369		
2,700.00	2,691.78	2,684.15	2,673.51	10.54	17.44	33.37	144.56	-195.40	125.56	101.80	23.75	5.286		
2,800.00	2,790.81	2,783.40	2,771.47	10.93	17.73	35.06	154.73	-207.65	129.61	104.83	24.78	5.229		
2,900.00	2,889.83	2,883.58	2,870.39	11.33	18.22	37.43	166.16	-218.61	133.99	108.32	25.67	5.220		
3,000.00	2,988.86	2,983.73	2,969.40	11.73	18.79	40.89	178.76	-226.81	138.24	111.65	26.59	5.198		
3,100.00	3,087.89	3,084.25	3,068.86	12.14	19.37	44.96	191.91	-232.99	142.56	114.95	27.61	5.164		
3,200.00	3,186.91	3,184.84	3,168.51	12.55	19.95	49.00	204.53	-238.37	146.75	118.07	28.68	5.116		
3,300.00	3,285.94	3,287.03	3,269.92	12.96	20.30	52.90	216.10	-243.35	150.32	120.52	29.79	5.045		
3,400.00	3,384.97	3,388.41	3,370.73	13.38	20.66	56.48	225.74	-248.10	152.69	121.78	30.91	4.940		
3,500.00	3,484.00	3,484.02	3,465.72	13.79	21.08	59.93	235.77	-252.24	156.54	124.42	32.11	4.875		
3,600.00	3,583.02	3,580.05	3,560.85	14.21	21.51	63.48	248.31	-255.94	163.48	130.16	33.32	4.906		
3,700.00	3,682.05	3,680.10	3,659.90	14.63	21.96	66.89	261.92	-259.75	171.58	137.03	34.55	4.966		
3,800.00	3,781.08	3,780.57	3,759.42	15.05	22.39	69.94	275.03	-263.75	179.67	143.97	35.70	5.033		
3,900.00	3,880.10	3,881.89	3,859.93	15.47	22.75	72.80	287.29	-267.66	187.27	150.55	36.72	5.100		
4,000.00	3,979.13	3,981.24	3,958.57	15.89	23.13	75.42	298.45	-271.41	194.44	156.70	37.73	5.153		
4,100.00	4,078.16	4,077.82	4,054.29	16.32	23.53	77.42	310.42	-276.24	202.95	164.23	38.72	5.241		
4,200.00	4,177.19	4,176.02	4,151.35	16.73	23.94	78.88	323.94	-282.48	212.85	173.17	39.68	5.364		
4,300.00	4,276.44	4,276.17	4,250.32	17.14	24.36	79.84	337.69	-289.22	223.07	182.46	40.61	5.493		
4,400.00	4,375.98	4,376.87	4,349.88	17.55	24.76	80.07	351.14	-296.13	233.38	191.94	41.44	5.632		
4,500.00	4,475.73	4,478.00	4,449.97	17.95	25.14	79.74	363.95	-302.92	243.49	201.32	42.18	5.773		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 225-MWD+IGRF														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
4,600.00	4,575.63	4,579.91	4,550.95	18.33	25.51	78.93	375.99	-309.52	253.31	210.44	42.87	5.909			
4,700.00	4,675.61	4,682.22	4,652.48	18.70	25.88	77.72	386.89	-315.77	262.63	219.11	43.52	6.035			
4,800.00	4,775.61	4,785.00	4,754.64	19.01	26.25	6.24	396.56	-321.66	271.28	227.17	44.11	6.150			
4,900.00	4,875.61	4,888.13	4,857.28	19.34	26.61	4.92	404.88	-327.21	278.80	234.08	44.72	6.235			
5,000.00	4,975.61	4,985.96	4,954.70	19.66	26.95	3.83	412.41	-332.01	286.12	240.82	45.30	6.316			
5,100.00	5,075.61	5,084.13	5,052.44	19.99	27.30	2.89	420.50	-336.28	294.10	248.20	45.90	6.408			
5,200.00	5,175.61	5,184.61	5,152.50	20.32	27.66	2.07	428.81	-340.17	302.20	255.69	46.51	6.498			
5,300.00	5,275.61	5,283.53	5,251.05	20.65	28.03	1.38	436.73	-343.62	310.11	262.96	47.15	6.577			
5,400.00	5,375.61	5,376.44	5,343.46	20.98	28.43	0.64	445.44	-347.49	319.42	271.58	47.84	6.678			
5,500.00	5,475.61	5,471.01	5,437.28	21.31	28.86	-0.25	456.24	-352.46	330.82	282.29	48.54	6.816			
5,600.00	5,575.61	5,576.19	5,541.71	21.65	29.40	-1.04	467.81	-357.18	341.88	292.41	49.47	6.911			
5,700.00	5,675.61	5,684.29	5,649.31	21.98	30.00	-1.49	477.67	-360.17	351.09	300.62	50.47	6.956			
5,800.00	5,775.61	5,796.92	5,761.73	22.31	30.70	-1.71	484.36	-361.67	357.06	305.53	51.53	6.929			
5,900.00	5,875.61	5,903.28	5,868.04	22.65	31.26	-1.74	487.58	-362.00	360.08	307.66	52.41	6.870			
6,000.00	5,975.61	6,007.08	5,971.82	22.99	31.76	-1.77	489.49	-362.21	361.93	308.70	53.23	6.799			
6,100.00	6,075.61	6,108.98	6,073.72	23.32	32.08	-1.81	490.54	-362.50	362.96	309.08	53.89	6.736			
6,200.00	6,175.61	6,210.65	6,175.38	23.66	32.38	-1.89	491.10	-363.01	363.53	309.01	54.52	6.668			
6,300.00	6,275.61	6,311.95	6,276.68	24.00	32.63	-2.02	491.23	-363.85	363.69	308.56	55.13	6.597			
6,400.00	6,375.61	6,413.99	6,378.71	24.34	32.88	-2.22	490.97	-365.09	363.47	307.76	55.71	6.524			
6,500.00	6,475.61	6,519.38	6,484.08	24.68	33.13	-2.47	489.51	-366.66	362.16	305.92	56.23	6.440			
6,600.00	6,575.61	6,622.29	6,586.93	25.02	33.39	-2.76	486.69	-368.35	359.48	302.72	56.76	6.333			
6,700.00	6,675.61	6,721.36	6,685.96	25.36	33.65	-3.04	483.88	-369.93	356.74	299.41	57.33	6.223			
6,800.00	6,775.61	6,820.70	6,785.25	25.71	33.91	-3.29	481.31	-371.36	354.23	296.33	57.90	6.118			
6,900.00	6,875.61	6,920.31	6,884.82	26.05	34.18	-3.49	478.86	-372.43	351.84	293.37	58.47	6.017			
7,000.00	6,975.61	7,020.31	6,984.80	26.39	34.47	-3.60	476.51	-373.00	349.53	290.46	59.07	5.917			
7,100.00	7,075.61	7,120.59	7,085.04	26.73	34.75	-3.58	474.13	-372.68	347.14	287.46	59.69	5.816			
7,200.00	7,175.61	7,218.40	7,182.83	27.08	35.05	-3.38	472.04	-371.36	344.92	284.52	60.40	5.711			
7,300.00	7,275.61	7,315.19	7,279.57	27.42	35.35	-2.96	470.89	-368.78	343.59	282.42	61.17	5.617			
7,400.00	7,375.61	7,412.93	7,377.25	27.77	35.62	-2.39	470.57	-365.32	343.10	281.18	61.93	5.540			
7,431.90	7,407.51	7,444.21	7,408.51	27.88	35.71	-2.20	470.59	-364.24	343.07	280.91	62.16	5.519			
7,500.00	7,475.61	7,511.00	7,475.26	28.11	35.89	-1.83	470.80	-361.99	343.21	280.54	62.67	5.477			
7,600.00	7,575.61	7,610.22	7,574.43	28.46	36.13	-1.33	471.42	-358.99	343.75	280.41	63.34	5.427			
7,700.00	7,675.61	7,709.71	7,673.90	28.81	36.38	-0.94	472.17	-356.68	344.46	280.47	63.99	5.383			
7,800.00	7,775.61	7,810.55	7,774.72	29.15	36.63	-0.67	472.88	-355.05	345.15	280.52	64.63	5.341			
7,900.00	7,875.61	7,911.36	7,875.52	29.50	36.89	-0.51	473.31	-354.10	345.56	280.31	65.25	5.296			
8,000.00	7,975.61	8,009.83	7,973.99	29.85	37.14	-0.37	473.85	-353.28	346.10	280.23	65.88	5.254			
8,100.00	8,075.61	8,109.22	8,073.37	30.19	37.40	-0.22	474.76	-352.35	347.01	280.51	66.50	5.218			
8,200.00	8,175.61	8,211.86	8,176.01	30.54	37.67	-0.10	475.33	-351.64	347.57	280.45	67.12	5.179			
8,300.00	8,275.61	8,314.11	8,278.25	30.89	37.94	-0.16	475.14	-351.99	347.38	279.66	67.72	5.130			
8,400.00	8,375.61	8,414.54	8,378.67	31.24	38.20	-0.45	474.51	-353.76	346.76	278.45	68.31	5.076			
8,500.00	8,475.61	8,514.86	8,478.98	31.59	38.47	-0.71	473.99	-355.35	346.26	277.34	68.91	5.025			
8,600.00	8,575.61	8,613.92	8,578.02	31.94	38.73	-0.87	473.17	-356.27	345.44	275.92	69.53	4.969			
8,700.00	8,675.61	8,716.88	8,680.94	32.29	39.68	-0.60	472.91	-354.68	345.19	274.05	71.14	4.852			
8,800.00	8,775.61	8,821.42	8,783.73	32.64	41.54	2.34	470.46	-337.04	343.05	268.97	74.08	4.631			
8,861.38	8,837.00	8,879.42	8,838.00	32.85	42.35	5.74	468.39	-316.79	342.34	267.20	75.14	4.556			
8,900.00	8,875.61	8,913.34	8,868.30	32.99	42.41	8.29	466.86	-301.63	342.77	267.48	75.29	4.553			
9,000.00	8,975.61	8,980.27	8,924.18	33.34	42.56	14.36	463.66	-265.06	350.67	275.63	75.04	4.673			
9,100.00	9,075.61	9,039.00	8,968.43	33.69	42.75	20.38	463.02	-226.52	373.64	300.27	73.37	5.093			
9,200.00	9,175.61	9,074.62	8,993.19	34.04	42.96	24.06	463.97	-200.93	411.35	341.28	70.07	5.871			
9,300.00	9,275.61	9,134.00	9,031.81	34.39	43.36	29.81	468.17	-156.05	462.41	394.77	67.64	6.837			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 225-MWD+IGRF													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.00	9,375.61	9,156.79	9,045.78	34.74	43.47	31.85	470.35	-138.18	521.65	457.75	63.90	8.164	
9,500.00	9,475.61	9,201.69	9,072.24	35.08	43.70	-50.07	474.30	-102.11	587.79	526.05	61.74	9.520	
9,600.00	9,574.89	9,248.86	9,098.46	35.40	43.92	-40.89	477.99	-63.09	653.33	593.33	60.00	10.889	
9,700.00	9,670.77	9,302.19	9,126.44	35.69	44.15	-34.25	481.86	-17.86	712.56	653.91	58.66	12.148	
9,800.00	9,760.34	9,367.09	9,158.38	35.98	44.46	-29.50	486.08	38.48	763.17	705.36	57.81	13.200	
9,900.00	9,840.87	9,439.20	9,191.96	36.26	44.85	-26.30	489.73	102.18	802.70	745.45	57.25	14.021	
10,000.00	9,909.93	9,512.00	9,223.86	36.48	45.29	-24.35	493.23	167.52	830.28	773.53	56.75	14.631	
10,100.00	9,965.40	9,579.92	9,251.48	36.65	45.76	-23.39	496.55	229.48	845.59	789.35	56.24	15.035	
10,121.52	9,975.40	9,607.00	9,261.82	36.67	45.95	-23.25	497.86	254.48	847.40	790.82	56.59	14.976	
10,200.00	10,005.61	9,653.65	9,278.87	36.92	46.33	-23.18	500.06	297.85	848.40	792.27	56.13	15.115	
10,281.72	10,026.28	9,702.00	9,295.63	37.34	46.71	-23.55	502.20	343.14	841.05	785.21	55.84	15.061	
10,300.00	10,029.34	9,702.00	9,295.63	37.44	46.71	-23.65	502.20	343.14	838.62	783.16	55.46	15.120	
10,383.96	10,036.76	9,748.84	9,309.19	37.98	47.14	-24.43	503.93	387.92	823.12	767.49	55.63	14.796	
10,400.00	10,036.00	9,755.00	9,310.64	38.08	47.20	-24.62	504.12	393.91	818.78	763.17	55.61	14.724	
10,482.65	10,036.00	9,797.00	9,318.41	38.74	47.58	-25.02	505.14	435.15	803.63	747.88	55.75	14.415	
10,500.00	10,036.00	9,797.00	9,318.41	38.88	47.58	-25.05	505.14	435.15	801.01	745.46	55.55	14.420	
10,580.53	10,036.00	9,834.74	9,322.87	39.65	47.97	-25.28	506.03	472.61	792.31	736.27	56.04	14.137	
10,600.00	10,036.00	9,844.65	9,323.75	39.84	48.07	-25.35	506.32	482.48	791.00	734.77	56.23	14.067	
10,678.93	10,036.00	9,890.00	9,326.27	40.70	48.54	-25.51	507.97	527.73	787.71	730.51	57.20	13.771	
10,700.00	10,036.00	9,899.31	9,326.52	40.93	48.64	-25.54	508.37	537.03	787.42	730.11	57.31	13.739	
10,740.33	10,036.00	9,932.52	9,327.32	41.42	49.01	-25.65	510.03	570.18	787.24	729.46	57.77	13.627	
10,800.00	10,036.00	9,981.00	9,328.18	42.15	49.56	-25.84	513.05	618.56	787.64	729.15	58.49	13.467	
10,822.90	10,036.00	10,003.44	9,328.43	42.46	49.83	-25.93	514.52	640.95	787.96	729.16	58.80	13.400	
10,900.00	10,036.00	10,079.55	9,328.35	43.51	50.77	-26.11	518.14	716.97	789.29	729.48	59.81	13.196	
10,979.86	10,036.00	10,189.37	9,329.58	44.68	52.22	-26.25	520.83	826.74	788.95	727.76	61.19	12.894	
11,000.00	10,036.00	10,214.68	9,330.28	44.97	52.57	-26.27	521.07	852.04	788.45	726.94	61.51	12.818	
11,080.04	10,036.00	10,303.45	9,333.45	46.23	53.83	-26.32	521.08	940.75	785.49	722.79	62.70	12.527	
11,100.00	10,036.00	10,323.53	9,334.26	46.54	54.12	-26.33	521.12	960.82	784.70	721.71	62.99	12.458	
11,179.88	10,036.00	10,402.38	9,337.40	47.86	55.31	-26.39	521.30	1,039.60	781.57	717.39	64.18	12.178	
11,200.00	10,036.00	10,422.07	9,338.10	48.20	55.61	-26.40	521.23	1,059.29	780.80	716.34	64.47	12.111	
11,279.27	10,036.00	10,488.50	9,339.95	49.58	56.66	-26.39	520.96	1,125.68	778.34	712.78	65.56	11.872	
11,300.00	10,036.00	10,505.11	9,340.22	49.94	56.92	-26.39	520.97	1,142.30	777.95	712.11	65.84	11.815	
11,398.78	10,036.00	10,591.37	9,340.86	51.74	58.34	-26.42	521.91	1,228.54	777.29	709.94	67.35	11.542	
11,400.00	10,036.00	10,592.48	9,340.87	51.76	58.36	-26.42	521.93	1,229.65	777.29	709.92	67.37	11.538	
11,423.34	10,036.00	10,613.57	9,340.99	52.20	58.71	-26.44	522.46	1,250.74	777.33	709.57	67.76	11.472	
11,500.00	10,036.00	10,694.54	9,341.19	53.64	60.12	-26.49	523.89	1,331.69	777.40	708.28	69.13	11.246	
11,579.67	10,036.00	10,790.17	9,341.59	55.19	61.83	-26.39	523.15	1,427.32	776.48	705.95	70.53	11.010	
11,600.00	10,036.00	10,815.04	9,341.98	55.59	62.28	-26.35	522.73	1,452.18	775.95	705.07	70.89	10.947	
11,680.01	10,036.00	10,893.00	9,345.10	57.19	63.73	-26.43	523.19	1,530.07	772.94	700.55	72.40	10.677	
11,700.00	10,036.00	10,919.85	9,346.49	57.59	64.25	-26.50	523.77	1,556.88	772.05	699.15	72.90	10.591	
11,798.14	10,036.00	10,988.00	9,348.09	59.60	65.55	-26.56	524.60	1,625.00	770.20	695.59	74.61	10.323	
11,800.00	10,036.00	10,988.00	9,348.09	59.64	65.55	-26.56	524.60	1,625.00	770.21	695.58	74.63	10.320	
11,822.36	10,036.00	11,010.17	9,348.01	60.10	65.98	-26.55	524.70	1,647.16	770.22	695.15	75.07	10.260	
11,900.00	10,036.00	11,065.13	9,346.50	61.73	67.04	-26.47	524.84	1,702.10	771.86	695.50	76.37	10.107	
11,980.44	10,036.00	11,205.61	9,346.46	63.44	69.82	-26.36	524.62	1,842.49	771.34	692.83	78.51	9.825	
12,000.00	10,036.00	11,221.85	9,347.01	63.86	70.15	-26.35	524.44	1,858.71	770.56	691.67	78.89	9.768	
12,079.12	10,036.00	11,286.14	9,348.09	65.58	71.45	-26.26	523.11	1,922.98	768.29	687.97	80.33	9.564	
12,100.00	10,036.00	11,301.81	9,348.10	66.03	71.77	-26.22	522.76	1,938.65	767.98	687.31	80.67	9.520	
12,135.45	10,036.00	11,328.42	9,347.89	66.81	72.32	-26.16	522.27	1,965.25	767.78	686.52	81.26	9.448	
12,200.00	10,036.00	11,393.75	9,346.65	68.23	73.67	-26.03	521.61	2,030.57	768.31	685.88	82.43	9.321	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH													Offset Site Error:	0.00 usft					
Survey Program:		225-MWD+IGRF		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning						
12,280.06	10,036.00	11,496.91	9,349.45	70.01	75.83	-26.06	521.68	2,133.68	765.73	681.37	84.36	9.077							
12,300.00	10,036.00	11,511.90	9,349.80	70.46	76.15	-26.06	521.62	2,148.66	765.17	680.41	84.76	9.028							
12,379.58	10,036.00	11,589.71	9,350.10	72.25	77.81	-25.94	520.48	2,226.46	764.01	677.71	86.30	8.853							
12,400.00	10,036.00	11,623.79	9,350.65	72.72	78.54	-25.86	519.51	2,260.52	763.37	676.66	86.71	8.803							
12,479.79	10,036.00	11,700.01	9,352.79	74.54	80.19	-25.69	516.66	2,336.66	759.72	671.58	88.14	8.620							
12,500.00	10,036.00	11,715.46	9,353.01	75.00	80.52	-25.65	516.12	2,352.09	759.07	670.58	88.48	8.579							
12,579.96	10,036.00	11,802.56	9,354.00	76.84	82.43	-25.47	513.88	2,439.16	757.06	667.09	89.97	8.415							
12,600.00	10,036.00	11,831.32	9,355.19	77.30	83.07	-25.47	513.69	2,467.89	756.17	665.72	90.45	8.360							
12,680.99	10,036.00	11,932.68	9,362.37	79.18	85.33	-25.70	514.62	2,568.98	750.93	658.27	92.66	8.104							
12,700.00	10,036.00	11,947.74	9,363.69	79.62	85.67	-25.75	514.89	2,583.98	749.50	656.35	93.15	8.046							
12,779.99	10,036.00	12,007.45	9,367.51	81.50	87.01	-25.87	515.38	2,643.57	744.81	649.76	95.05	7.836							
12,800.00	10,036.00	12,030.00	9,368.38	81.96	87.52	-25.88	515.33	2,666.10	744.02	648.50	95.53	7.789							
12,879.21	10,036.00	12,090.68	9,370.32	83.83	88.91	-25.94	515.86	2,726.74	741.57	644.25	97.31	7.620							
12,900.00	10,036.00	12,108.94	9,370.92	84.32	89.32	-25.98	516.36	2,744.98	741.11	643.27	97.84	7.575							
12,999.93	10,036.00	12,232.82	9,377.44	86.69	92.17	-26.48	521.60	2,868.57	737.88	636.79	101.08	7.300							
13,000.00	10,036.00	12,218.00	9,376.33	86.70	91.83	-26.40	520.90	2,853.81	737.99	637.09	100.90	7.314							
13,079.58	10,036.00	12,290.55	9,379.52	88.60	93.51	-26.56	522.31	2,926.25	735.23	632.21	103.02	7.137							
13,100.00	10,036.00	12,312.00	9,379.70	89.08	94.01	-26.53	521.96	2,947.70	734.85	631.41	103.44	7.104							
13,168.66	10,036.00	12,362.85	9,379.34	90.73	95.20	-26.40	520.88	2,998.54	734.24	629.51	104.72	7.011							
13,200.00	10,036.00	12,388.45	9,378.89	91.49	95.80	-26.34	520.47	3,024.13	734.36	629.06	105.30	6.974							
13,279.81	10,036.00	12,499.41	9,378.86	93.41	98.38	-26.21	519.79	3,135.06	734.00	626.92	107.08	6.855							
13,300.00	10,036.00	12,518.40	9,379.55	93.90	98.83	-26.23	519.90	3,154.04	733.30	625.72	107.58	6.816							
13,379.38	10,036.00	12,588.42	9,381.91	95.82	100.47	-26.35	521.21	3,224.01	731.19	621.51	109.68	6.667							
13,400.00	10,036.00	12,610.07	9,382.62	96.32	100.98	-26.41	521.89	3,245.63	730.78	620.50	110.29	6.626							
13,479.69	10,036.00	12,691.00	9,386.38	98.27	102.89	-26.69	524.92	3,326.42	728.43	615.64	112.79	6.458							
13,500.00	10,036.00	12,710.44	9,387.29	98.76	103.35	-26.76	525.65	3,345.83	727.83	614.40	113.44	6.416							
13,543.89	10,036.00	12,738.36	9,387.86	99.83	104.01	-26.81	526.40	3,373.72	727.35	612.79	114.56	6.349							
13,600.00	10,036.00	12,784.00	9,386.94	101.21	105.09	-26.78	526.87	3,419.35	728.24	612.43	115.82	6.288							
13,621.92	10,036.00	12,790.09	9,386.67	101.74	105.24	-26.77	526.87	3,425.44	728.86	612.66	116.21	6.272							
13,700.00	10,036.00	12,865.88	9,383.29	103.66	107.05	-26.62	527.28	3,501.15	731.80	614.02	117.79	6.213							
13,722.62	10,036.00	12,888.61	9,382.30	104.22	107.59	-26.59	527.55	3,523.86	732.70	614.43	118.27	6.195							
13,800.00	10,036.00	12,973.83	9,379.29	106.12	109.62	-26.51	528.82	3,609.01	735.30	615.28	120.02	6.126							
13,822.67	10,036.00	12,996.59	9,378.66	106.68	110.16	-26.50	529.24	3,631.76	735.94	615.39	120.55	6.105							
13,900.00	10,036.00	13,076.64	9,376.62	108.59	112.08	-26.50	530.99	3,711.76	738.11	615.67	122.44	6.029							
13,980.09	10,036.00	13,194.23	9,377.93	110.58	114.91	-26.60	533.09	3,829.31	737.38	612.53	124.84	5.907							
14,000.00	10,036.00	13,214.88	9,378.61	111.07	115.41	-26.64	533.44	3,849.94	736.84	611.42	125.42	5.875							
14,079.46	10,036.00	13,291.20	9,381.36	113.04	117.26	-26.79	535.01	3,926.20	734.66	606.90	127.75	5.751							
14,100.00	10,036.00	13,309.04	9,381.91	113.55	117.69	-26.83	535.45	3,944.03	734.22	605.87	128.35	5.720							
14,178.98	10,036.00	13,379.56	9,383.57	115.52	119.40	-26.97	537.48	4,014.49	733.21	602.53	130.68	5.611							
14,200.00	10,036.00	13,399.35	9,383.96	116.05	119.89	-27.02	538.14	4,034.27	733.07	601.75	131.32	5.582							
14,279.11	10,036.00	13,478.91	9,385.51	118.02	121.82	-27.24	541.26	4,113.76	732.74	598.86	133.88	5.473							
14,300.00	10,036.00	13,502.58	9,386.18	118.54	122.40	-27.32	542.35	4,137.39	732.56	597.92	134.64	5.441							
14,379.75	10,036.00	13,593.36	9,389.65	120.54	124.62	-27.66	546.46	4,228.01	731.14	593.52	137.62	5.313							
14,400.00	10,036.00	13,616.55	9,390.49	121.04	125.19	-27.71	546.94	4,251.17	730.59	592.31	138.27	5.284							
14,480.21	10,036.00	13,707.50	9,393.79	123.06	127.44	-27.77	546.93	4,342.07	727.62	587.14	140.48	5.180							
14,500.00	10,036.00	13,729.86	9,394.73	123.55	127.99	-27.77	546.74	4,364.40	726.71	585.71	141.00	5.154							
14,579.97	10,036.00	13,805.69	9,397.94	125.56	129.85	-27.80	546.24	4,440.17	723.08	579.93	143.16	5.051							
14,600.00	10,036.00	13,824.56	9,398.71	126.06	130.32	-27.81	546.21	4,459.02	722.25	578.54	143.71	5.026							
14,679.54	10,036.00	13,895.52	9,401.05	128.07	132.07	-27.84	546.08	4,529.94	719.48	573.62	145.87	4.933							
14,700.00	10,036.00	13,913.73	9,401.47	128.58	132.52	-27.84	546.01	4,548.14	718.93	572.54	146.39	4.911							

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,779.08	10,036.00	13,983.70	9,402.50	130.58	134.24	-27.81	545.78	4,618.10	717.40	569.04	148.36	4.836			
14,800.00	10,036.00	14,002.19	9,402.64	131.10	134.70	-27.80	545.78	4,636.60	717.16	568.29	148.87	4.817			
14,879.05	10,036.00	14,080.06	9,403.07	133.10	136.63	-27.78	546.14	4,714.46	716.55	565.66	150.89	4.749			
14,900.00	10,036.00	14,101.21	9,403.26	133.63	137.15	-27.79	546.35	4,735.62	716.38	564.92	151.46	4.730			
14,979.52	10,036.00	14,189.47	9,404.42	135.64	139.34	-27.80	546.84	4,823.86	715.29	561.70	153.60	4.657			
15,000.00	10,036.00	14,211.95	9,404.80	136.16	139.90	-27.79	546.75	4,846.33	714.84	560.74	154.11	4.639			
15,079.88	10,036.00	14,296.06	9,406.81	138.18	141.99	-27.80	546.70	4,930.42	712.75	556.51	156.23	4.562			
15,100.00	10,036.00	14,323.49	9,407.79	138.69	142.68	-27.83	546.83	4,957.84	712.07	555.23	156.84	4.540			
15,180.80	10,036.00	14,421.03	9,414.17	140.74	145.11	-28.08	547.97	5,055.16	707.34	547.64	159.71	4.429			
15,200.00	10,036.00	14,437.90	9,415.34	141.23	145.53	-28.13	548.12	5,071.99	706.16	545.79	160.38	4.403			
15,279.70	10,036.00	14,488.00	9,418.27	143.25	146.78	-28.21	548.27	5,122.00	702.25	539.36	162.89	4.311			
15,300.00	10,036.00	14,515.10	9,419.21	143.77	147.46	-28.21	548.07	5,149.07	701.35	537.91	163.44	4.291			
15,352.10	10,036.00	14,547.90	9,419.20	145.10	148.28	-28.14	547.43	5,181.87	700.63	536.03	164.60	4.257			
15,400.00	10,036.00	14,582.00	9,417.86	146.31	149.13	-27.98	546.30	5,215.92	701.25	535.97	165.28	4.243			
15,422.38	10,036.00	14,598.09	9,416.93	146.88	149.54	-27.89	545.71	5,231.98	701.87	536.33	165.53	4.240			
15,500.00	10,036.00	14,676.46	9,413.32	148.86	151.51	-27.60	544.40	5,310.25	704.06	537.43	166.63	4.225			
15,579.78	10,036.00	14,786.18	9,411.83	150.89	154.27	-27.47	544.39	5,419.94	704.66	536.25	168.41	4.184			
15,600.00	10,036.00	14,816.95	9,412.41	151.41	155.04	-27.46	544.34	5,450.71	704.21	535.29	168.93	4.169			
15,680.63	10,036.00	14,915.40	9,417.00	153.47	157.52	-27.53	543.94	5,549.05	700.24	528.99	171.24	4.089			
15,700.00	10,036.00	14,935.19	9,418.10	153.96	158.02	-27.55	543.88	5,568.80	699.16	527.33	171.83	4.069			
15,780.59	10,036.00	15,019.15	9,423.11	156.02	160.13	-27.68	543.82	5,652.62	694.49	520.11	174.38	3.983			
15,800.00	10,036.00	15,039.55	9,424.44	156.52	160.64	-27.72	543.86	5,672.97	693.29	518.27	175.03	3.961			
15,880.64	10,036.00	15,120.65	9,430.06	158.58	162.68	-27.91	544.38	5,753.87	688.20	510.31	177.89	3.869			
15,900.00	10,036.00	15,139.92	9,431.46	159.07	163.17	-27.97	544.60	5,773.10	686.98	508.36	178.61	3.846			
15,980.41	10,036.00	15,215.96	9,436.86	161.13	165.09	-28.21	545.78	5,848.93	682.13	500.41	181.72	3.754			
16,000.00	10,036.00	15,234.36	9,438.10	161.63	165.55	-28.27	546.12	5,867.29	681.03	498.55	182.48	3.732			
16,080.29	10,036.00	15,312.10	9,443.09	163.69	167.51	-28.51	547.47	5,944.86	676.77	491.17	185.60	3.646			
16,100.00	10,036.00	15,331.28	9,444.25	164.19	168.00	-28.56	547.76	5,964.00	675.77	489.42	186.35	3.626			
16,179.90	10,036.00	15,403.75	9,448.16	166.24	169.83	-28.74	548.77	6,036.36	672.12	482.84	189.28	3.551			
16,200.00	10,036.00	15,421.85	9,448.99	166.76	170.29	-28.78	549.02	6,054.44	671.36	481.36	189.99	3.534			
16,279.81	10,036.00	15,499.91	9,452.31	168.80	172.27	-28.95	550.24	6,132.41	668.58	475.72	192.86	3.467			
16,300.00	10,036.00	15,519.94	9,453.17	169.32	172.77	-29.00	550.60	6,152.42	667.89	474.28	193.61	3.450			
16,379.64	10,036.00	15,596.15	9,456.12	171.37	174.71	-29.15	551.72	6,228.56	665.37	468.94	196.43	3.387			
16,400.00	10,036.00	15,615.55	9,456.72	171.89	175.20	-29.17	551.87	6,247.95	664.80	467.71	197.08	3.373			
16,479.43	10,036.00	15,691.32	9,458.62	173.93	177.12	-29.22	552.23	6,323.70	662.84	463.34	199.50	3.322			
16,500.00	10,036.00	15,710.95	9,459.03	174.46	177.62	-29.22	552.31	6,343.33	662.40	462.29	200.11	3.310			
16,580.20	10,036.00	15,808.30	9,462.58	176.52	180.09	-29.36	553.18	6,440.60	659.81	456.97	202.84	3.253			
16,600.00	10,036.00	15,825.81	9,463.54	177.03	180.54	-29.41	553.43	6,458.08	658.91	455.30	203.61	3.236			
16,679.28	10,036.00	15,891.09	9,465.70	179.07	182.20	-29.47	553.63	6,523.32	656.34	450.18	206.16	3.184			
16,700.00	10,036.00	15,908.00	9,465.89	179.60	182.63	-29.45	553.49	6,540.23	655.95	449.26	206.69	3.174			
16,799.47	10,036.00	15,997.97	9,465.93	182.16	184.92	-29.33	552.84	6,630.20	655.06	446.09	208.97	3.135			
16,800.00	10,036.00	16,003.00	9,465.89	182.18	185.05	-29.33	552.83	6,635.23	655.08	446.11	208.97	3.135			
16,823.01	10,036.00	16,020.14	9,465.76	182.77	185.49	-29.30	552.77	6,652.37	655.05	445.55	209.50	3.127			
16,900.00	10,036.00	16,093.61	9,464.96	184.75	187.36	-29.20	552.58	6,725.83	655.30	444.12	211.19	3.103			
16,979.31	10,036.00	16,185.16	9,465.13	186.80	189.70	-29.19	553.32	6,817.38	655.09	441.70	213.40	3.070			
17,000.00	10,036.00	16,205.97	9,465.58	187.33	190.23	-29.22	553.75	6,838.17	654.81	440.68	214.13	3.058			
17,078.86	10,036.00	16,277.93	9,466.70	189.36	192.06	-29.34	555.39	6,910.10	654.21	437.35	216.86	3.017			
17,100.00	10,036.00	16,297.94	9,466.89	189.91	192.57	-29.37	555.87	6,930.11	654.19	436.60	217.59	3.007			
17,150.98	10,036.00	16,348.54	9,467.36	191.22	193.87	-29.45	557.21	6,980.69	654.17	434.78	219.40	2.982			
17,200.00	10,036.00	16,394.69	9,467.80	192.49	195.04	-29.53	558.53	7,026.82	654.21	433.06	221.15	2.958			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 135H - OH - OH														Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,222.40	10,036.00	16,413.00	9,467.80	193.07	195.51	-29.56	559.00	7,045.12	654.38	432.52	221.86	2.949			
17,300.00	10,036.00	16,478.00	9,466.47	195.07	197.17	-29.54	560.19	7,110.09	656.05	432.18	223.87	2.931			
17,322.25	10,036.00	16,497.76	9,465.74	195.64	197.68	-29.51	560.43	7,129.84	656.79	432.45	224.34	2.928			
17,400.00	10,036.00	16,573.69	9,462.79	197.65	199.62	-29.40	561.44	7,205.70	659.52	433.52	226.01	2.918			
17,423.47	10,036.00	16,601.39	9,461.78	198.26	200.33	-29.36	561.80	7,233.39	660.30	433.75	226.55	2.915			
17,500.00	10,036.00	16,702.62	9,459.92	200.24	202.91	-29.28	562.81	7,334.59	661.62	433.14	228.48	2.896			
17,580.59	10,036.00	16,809.44	9,464.11	202.32	205.65	-29.45	563.74	7,441.30	658.60	427.17	231.43	2.846			
17,600.00	10,036.00	16,829.45	9,465.19	202.82	206.16	-29.49	563.91	7,461.29	657.68	425.49	232.18	2.833			
17,680.24	10,036.00	16,909.48	9,469.64	204.90	208.21	-29.68	564.68	7,541.20	653.77	418.39	235.38	2.778			
17,700.00	10,036.00	16,928.87	9,470.72	205.41	208.71	-29.73	564.92	7,560.55	652.83	416.64	236.19	2.764			
17,779.58	10,036.00	16,996.96	9,473.97	207.47	210.45	-29.87	565.68	7,628.55	649.59	410.30	239.30	2.715			
17,800.00	10,036.00	17,013.43	9,474.43	208.00	210.88	-29.89	565.76	7,645.02	649.05	409.08	239.97	2.705			
17,879.22	10,036.00	17,087.46	9,475.37	210.05	212.78	-29.88	565.85	7,719.04	647.79	405.58	242.22	2.674			
17,900.00	10,036.00	17,109.45	9,475.73	210.58	213.34	-29.89	565.98	7,741.03	647.45	404.59	242.86	2.666			
17,979.23	10,036.00	17,186.15	9,477.37	212.64	215.31	-29.97	566.88	7,817.71	646.05	400.50	245.55	2.631			
18,000.00	10,036.00	17,205.13	9,477.68	213.17	215.80	-29.99	567.15	7,836.68	645.79	399.54	246.25	2.623			
18,079.03	10,036.00	17,281.57	9,478.61	215.22	217.76	-30.06	568.41	7,913.10	645.20	396.28	248.92	2.592			
18,100.00	10,036.00	17,302.69	9,478.89	215.76	218.30	-30.09	568.83	7,934.22	645.05	395.38	249.67	2.584			
18,178.96	10,036.00	17,379.48	9,480.01	217.81	220.28	-30.22	570.61	8,010.98	644.57	391.97	252.60	2.552			
18,200.00	10,036.00	17,399.54	9,480.26	218.35	220.79	-30.25	571.13	8,031.03	644.51	391.12	253.39	2.544			
18,279.63	10,036.00	17,490.99	9,482.33	220.42	223.14	-30.51	574.20	8,122.40	643.94	386.91	257.03	2.505			
18,300.00	10,036.00	17,516.44	9,483.61	220.95	223.80	-30.64	575.42	8,147.79	643.44	385.16	258.28	2.491			
18,379.15	10,036.00	17,585.70	9,486.79	223.00	225.58	-30.97	578.54	8,216.90	641.73	379.33	262.40	2.446			
18,400.00	10,036.00	17,603.60	9,487.27	223.54	226.04	-31.02	579.16	8,234.78	641.52	378.20	263.32	2.436			
18,434.60	10,036.00	17,632.97	9,487.76	224.44	226.79	-31.09	580.04	8,264.14	641.37	376.68	264.69	2.423			
18,500.00	10,036.00	17,688.04	9,487.78	226.13	228.21	-31.16	581.49	8,319.19	641.90	374.96	266.94	2.405			
18,522.32	10,036.00	17,711.00	9,487.44	226.71	228.80	-31.17	582.03	8,342.14	642.34	374.68	267.65	2.400			
18,600.00	10,036.00	17,776.96	9,485.77	228.73	230.50	-31.15	583.53	8,408.06	644.47	374.73	269.74	2.389			
18,622.04	10,036.00	17,796.94	9,485.10	229.30	231.01	-31.14	583.98	8,428.02	645.24	374.94	270.30	2.387			
18,700.00	10,036.00	17,869.86	9,482.24	231.32	232.89	-31.08	585.71	8,500.87	648.40	376.19	272.20	2.382 SF			
18,708.61	10,036.00	17,877.95	9,481.89	231.48	233.10	-31.08	585.92	8,508.94	648.78	376.43	272.35	2.382			
18,739.05	10,036.00	17,906.57	9,480.61	232.05	233.83	-31.05	586.66	8,537.53	650.19	377.31	272.88	2.383			

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	1.00	1.00	0.00	0.01	-106.16	-31.80	-109.71	114.23					
100.00	100.00	100.90	100.90	0.50	0.75	-106.13	-31.75	-109.77	114.27	113.59	0.68	167.614		
200.00	200.00	200.81	200.81	1.05	1.50	-106.03	-31.59	-109.95	114.39	112.99	1.41	81.373		
300.00	300.00	300.00	299.99	1.55	1.98	-105.91	-31.47	-110.44	114.84	112.70	2.14	53.633		
400.00	400.00	399.71	399.70	1.98	2.19	-105.89	-31.73	-111.44	115.87	112.93	2.95	39.309		
500.00	500.00	499.36	499.34	2.40	2.39	-106.10	-32.49	-112.58	117.19	113.32	3.87	30.305		
600.00	600.00	599.70	599.67	2.79	2.71	-106.37	-33.38	-113.65	118.46	113.39	5.07	23.380		
700.00	700.00	700.09	700.06	3.18	3.30	-106.61	-34.14	-114.44	119.43	113.17	6.25	19.094		
800.00	800.00	800.59	800.55	3.56	3.94	-106.89	-34.86	-114.83	120.01	112.70	7.31	16.420		
900.00	900.00	899.83	899.78	3.94	4.80	-107.41	-36.03	-114.92	120.44	111.92	8.51	14.147	ES	
1,000.00	1,000.00	997.67	997.52	4.32	6.45	-109.28	-40.38	-115.43	122.34	112.37	9.96	12.277		
1,100.00	1,100.00	1,095.99	1,095.53	4.69	8.17	-112.47	-48.11	-116.35	126.03	114.44	11.59	10.872		
1,200.00	1,200.00	1,194.39	1,193.40	5.06	9.85	-116.41	-58.19	-117.19	131.07	117.67	13.39	9.786		
1,300.00	1,300.00	1,292.90	1,291.22	5.43	10.61	-120.59	-69.83	-118.11	137.56	122.79	14.77	9.315		
1,400.00	1,400.00	1,391.47	1,389.07	5.79	11.15	-124.35	-81.66	-119.50	145.23	129.27	15.96	9.100		
1,500.00	1,500.00	1,493.61	1,490.41	6.16	11.84	-128.27	-94.41	-119.68	152.80	135.34	17.46	8.751		
1,600.00	1,599.99	1,594.60	1,590.44	6.47	12.56	-63.09	-107.88	-116.71	158.69	139.85	18.84	8.421		
1,700.00	1,699.91	1,689.59	1,684.33	6.78	13.22	-68.50	-121.97	-113.44	165.43	145.47	19.96	8.287		
1,800.00	1,799.69	1,784.38	1,777.76	7.10	13.82	-74.23	-137.74	-111.22	175.09	154.25	20.84	8.401		
1,900.00	1,899.27	1,881.27	1,873.23	7.48	14.15	-79.95	-154.26	-110.02	186.95	165.61	21.34	8.761		
2,000.00	1,998.57	1,977.40	1,967.99	8.00	14.48	-85.29	-170.41	-109.87	200.59	178.84	21.75	9.221		
2,100.00	2,097.62	2,071.11	2,060.23	8.33	14.81	-90.30	-186.93	-110.52	216.98	194.91	22.07	9.831		
2,200.00	2,196.65	2,166.22	2,153.64	8.67	15.15	-94.66	-204.77	-112.00	236.23	213.84	22.38	10.553		
2,300.00	2,295.67	2,267.76	2,253.55	9.02	15.57	-97.90	-222.30	-116.44	255.72	232.94	22.78	11.224		
2,400.00	2,394.70	2,367.83	2,352.18	9.39	16.01	-99.85	-237.26	-124.20	274.08	250.83	23.25	11.789		
2,500.00	2,493.73	2,463.11	2,446.01	9.76	16.46	-101.32	-251.71	-132.39	293.03	269.33	23.70	12.365		
2,600.00	2,592.75	2,559.19	2,540.48	10.15	16.91	-102.63	-267.10	-140.72	312.98	288.79	24.20	12.934		
2,700.00	2,691.78	2,656.99	2,636.65	10.54	17.26	-103.89	-282.95	-148.71	333.24	308.48	24.76	13.461		
2,800.00	2,790.81	2,754.97	2,733.06	10.93	17.62	-105.12	-298.85	-156.08	353.60	328.27	25.33	13.961		
2,900.00	2,889.83	2,853.26	2,829.82	11.33	17.98	-106.30	-314.68	-162.90	373.95	348.03	25.92	14.427		
3,000.00	2,988.86	2,951.04	2,926.14	11.73	18.35	-107.44	-330.32	-169.14	394.31	367.79	26.52	14.869		
3,100.00	3,087.89	3,048.26	3,021.93	12.14	18.72	-108.53	-345.93	-174.83	414.86	387.74	27.12	15.295		
3,200.00	3,186.91	3,143.66	3,115.92	12.55	19.09	-109.56	-361.45	-179.92	435.75	408.03	27.73	15.717		
3,300.00	3,285.94	3,237.44	3,208.23	12.96	19.46	-110.55	-377.37	-184.44	457.49	429.17	28.32	16.153		
3,400.00	3,384.97	3,335.53	3,304.71	13.38	19.85	-111.55	-394.51	-188.69	479.87	450.89	28.97	16.562		
3,500.00	3,484.00	3,437.80	3,405.47	13.79	20.26	-112.53	-411.54	-192.89	501.57	471.89	29.68	16.901		
3,600.00	3,583.02	3,527.75	3,494.12	14.21	20.69	-113.34	-426.35	-196.41	523.24	492.87	30.37	17.227		
3,700.00	3,682.05	3,611.62	3,576.45	14.63	21.14	-114.05	-442.04	-199.47	547.24	516.19	31.05	17.626		
3,800.00	3,781.08	3,703.17	3,665.95	15.05	21.62	-114.76	-461.04	-202.54	573.33	541.51	31.82	18.017		
3,900.00	3,880.10	3,805.80	3,766.44	15.47	22.16	-115.57	-481.72	-205.37	598.99	566.25	32.74	18.295		
4,000.00	3,979.13	3,902.73	3,861.52	15.89	22.61	-116.33	-500.44	-207.47	624.02	590.53	33.49	18.634		
4,100.00	4,078.16	3,995.56	3,952.51	16.32	23.00	-117.01	-518.74	-209.25	649.56	615.43	34.13	19.031		
4,200.00	4,177.19	4,089.24	4,044.25	16.73	23.39	-117.72	-537.66	-210.90	675.67	640.88	34.78	19.424		
4,300.00	4,276.44	4,183.95	4,136.94	17.14	23.80	-118.55	-557.06	-212.56	701.34	665.88	35.46	19.778		
4,400.00	4,375.98	4,280.85	4,231.73	17.55	24.21	-119.15	-577.07	-214.22	726.01	689.81	36.20	20.056		
4,500.00	4,475.73	4,379.47	4,328.26	17.95	24.64	-119.56	-597.24	-215.62	749.30	712.35	36.95	20.278		
4,600.00	4,575.63	4,475.16	4,421.93	18.33	25.06	-119.78	-616.75	-216.89	771.29	733.62	37.67	20.475		
4,700.00	4,675.61	4,569.11	4,513.78	18.70	25.47	-119.77	-636.43	-218.84	792.44	754.07	38.37	20.652		
4,800.00	4,775.61	4,666.56	4,608.92	19.01	25.91	-120.64	-657.27	-221.59	813.12	774.06	39.06	20.818		
4,900.00	4,875.61	4,766.06	4,706.09	19.34	26.36	-121.11	-678.45	-224.87	833.66	793.89	39.77	20.960		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF						Rule Assigned:					Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
5,000.00	4,975.61	4,875.46	4,813.06	19.66	26.84	171.60	-701.04	-228.69	853.61	813.03	40.59	21.033		
5,100.00	5,075.61	4,988.92	4,924.41	19.99	27.35	172.05	-722.51	-232.25	871.92	830.50	41.42	21.050		
5,200.00	5,175.61	5,078.12	5,011.97	20.32	27.74	172.42	-739.24	-235.71	890.00	847.97	42.04	21.171		
5,300.00	5,275.61	5,169.00	5,100.92	20.65	28.15	172.89	-757.16	-240.60	908.94	866.26	42.67	21.300		
5,400.00	5,375.61	5,280.90	5,210.52	20.98	28.64	173.44	-778.86	-246.81	927.59	884.08	43.51	21.321		
5,500.00	5,475.61	5,382.84	5,310.71	21.31	29.12	173.85	-797.12	-251.35	944.92	900.65	44.27	21.347		
5,600.00	5,575.61	5,460.42	5,386.79	21.65	29.52	174.13	-811.95	-254.47	963.55	918.68	44.87	21.475		
5,700.00	5,675.61	5,547.00	5,471.31	21.98	29.97	174.44	-830.43	-257.84	984.37	938.81	45.56	21.606		
5,800.00	5,775.61	5,649.92	5,571.73	22.31	30.54	174.78	-852.68	-261.42	1,005.63	959.10	46.53	21.614		
5,900.00	5,875.61	5,761.39	5,680.94	22.65	31.15	175.07	-874.77	-264.51	1,025.12	977.57	47.54	21.562		
6,000.00	5,975.61	5,855.23	5,772.96	22.99	31.60	175.25	-893.08	-266.29	1,044.41	996.16	48.25	21.646		
6,100.00	6,075.61	5,955.71	5,871.45	23.32	32.07	175.40	-912.94	-267.37	1,064.03	1,015.03	49.00	21.715		
6,200.00	6,175.61	6,075.25	5,988.91	23.66	32.60	175.61	-935.05	-269.45	1,082.34	1,032.48	49.87	21.705		
6,300.00	6,275.61	6,188.08	6,100.08	24.00	33.10	175.86	-954.07	-272.73	1,098.94	1,048.27	50.67	21.689		
6,400.00	6,375.61	6,297.83	6,208.35	24.34	33.57	176.15	-971.49	-277.00	1,114.52	1,063.08	51.44	21.665		
6,500.00	6,475.61	6,379.51	6,288.89	24.68	33.95	176.37	-984.63	-280.52	1,130.33	1,078.27	52.05	21.715		
6,600.00	6,575.61	6,459.67	6,367.72	25.02	34.33	176.59	-998.79	-283.82	1,147.73	1,095.09	52.64	21.802		
6,700.00	6,675.61	6,562.09	6,468.26	25.36	34.81	176.85	-1,017.85	-287.92	1,166.12	1,112.70	53.42	21.830		
6,800.00	6,775.61	6,678.10	6,582.41	25.71	35.36	177.14	-1,037.99	-292.84	1,183.26	1,128.96	54.30	21.790		
6,900.00	6,875.61	6,765.70	6,668.64	26.05	35.75	177.35	-1,052.94	-296.38	1,200.13	1,145.21	54.92	21.851		
7,000.00	6,975.61	6,853.08	6,754.56	26.39	36.14	177.53	-1,068.62	-299.36	1,217.91	1,162.38	55.54	21.929		
7,100.00	7,075.61	6,940.29	6,840.17	26.73	36.55	177.69	-1,085.02	-302.11	1,236.59	1,180.44	56.15	22.022		
7,200.00	7,175.61	7,027.19	6,925.30	27.08	36.95	177.87	-1,102.14	-305.20	1,256.16	1,199.39	56.77	22.129		
7,300.00	7,275.61	7,137.14	7,032.98	27.42	37.46	178.08	-1,124.05	-309.11	1,275.99	1,218.42	57.57	22.164		
7,400.00	7,375.61	7,261.67	7,155.38	27.77	38.04	178.25	-1,146.77	-312.10	1,294.18	1,235.69	58.49	22.126		
7,500.00	7,475.61	7,405.89	7,297.86	28.11	38.70	178.36	-1,169.00	-313.90	1,309.56	1,249.94	59.62	21.966		
7,600.00	7,575.61	7,523.32	7,414.31	28.46	39.21	178.41	-1,184.06	-314.53	1,322.33	1,261.82	60.52	21.850		
7,700.00	7,675.61	7,638.03	7,528.22	28.81	39.70	178.45	-1,197.60	-315.14	1,334.13	1,272.75	61.39	21.734		
7,800.00	7,775.61	7,777.29	7,666.82	29.15	40.26	178.50	-1,211.06	-315.94	1,343.78	1,281.46	62.32	21.561		
7,900.00	7,875.61	7,892.52	7,781.73	29.50	40.70	178.53	-1,219.61	-316.46	1,351.16	1,288.03	63.13	21.402		
8,000.00	7,975.61	8,000.03	7,888.99	29.85	41.10	178.53	-1,226.86	-316.31	1,357.90	1,293.99	63.91	21.248		
8,100.00	8,075.61	8,104.08	7,992.84	30.19	41.46	178.53	-1,233.40	-316.14	1,364.19	1,299.59	64.60	21.118		
8,200.00	8,175.61	8,213.03	8,101.60	30.54	41.84	178.56	-1,239.89	-316.58	1,370.15	1,304.85	65.30	20.981		
8,300.00	8,275.61	8,345.39	8,233.83	30.89	42.28	178.60	-1,245.60	-317.40	1,374.44	1,308.40	66.04	20.812		
8,400.00	8,375.61	8,467.92	8,356.32	31.24	42.65	178.64	-1,248.34	-318.48	1,376.64	1,309.92	66.72	20.633		
8,500.00	8,475.61	8,580.14	8,468.53	31.59	42.94	178.68	-1,249.55	-319.40	1,377.70	1,310.33	67.37	20.449		
8,600.00	8,575.61	8,696.32	8,584.70	31.94	43.21	178.71	-1,249.38	-320.11	1,377.52	1,309.51	68.01	20.255		
8,700.00	8,675.61	8,803.28	8,691.66	32.29	43.45	178.75	-1,248.63	-320.89	1,376.81	1,308.17	68.64	20.059		
8,800.00	8,775.61	8,893.90	8,782.27	32.64	43.66	178.73	-1,247.56	-320.57	1,375.67	1,306.37	69.31	19.849		
8,820.80	8,796.41	8,909.05	8,797.41	32.71	43.70	178.71	-1,247.52	-320.18	1,375.63	1,306.18	69.45	19.808		
8,900.00	8,875.61	8,945.00	8,833.34	32.99	43.78	178.66	-1,247.66	-318.79	1,376.49	1,306.54	69.95	19.679		
9,000.00	8,975.61	9,010.75	8,898.72	33.34	44.03	178.39	-1,249.65	-312.43	1,380.16	1,309.37	70.79	19.497		
9,100.00	9,075.61	9,038.00	8,925.54	33.69	44.13	178.21	-1,251.30	-307.93	1,387.99	1,316.71	71.28	19.471		
9,200.00	9,175.61	9,110.26	8,995.25	34.04	44.84	177.49	-1,257.82	-290.25	1,398.73	1,326.74	71.99	19.430		
9,300.00	9,275.61	9,156.25	9,038.07	34.39	45.19	176.85	-1,263.39	-274.48	1,413.54	1,341.19	72.35	19.538		
9,400.00	9,375.61	9,228.00	9,101.05	34.74	45.56	175.53	-1,272.82	-241.59	1,431.63	1,358.89	72.74	19.682		
9,500.00	9,475.61	9,263.39	9,130.45	35.08	45.77	87.83	-1,277.92	-222.56	1,453.37	1,380.50	72.87	19.946		
9,600.00	9,574.89	9,322.00	9,177.85	35.40	46.13	84.22	-1,287.69	-189.51	1,478.66	1,405.53	73.13	20.219		
9,700.00	9,670.77	9,359.78	9,207.45	35.69	46.30	81.04	-1,294.69	-167.11	1,505.49	1,432.44	73.04	20.611		
9,800.00	9,760.34	9,391.00	9,231.27	35.98	46.44	77.99	-1,300.74	-147.86	1,532.96	1,460.08	72.87	21.036		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.00	9,840.87	9,564.94	9,317.05	36.26	47.13	73.29	-1,314.42	-1.37	1,556.45	1,480.35	76.10	20.454			
10,000.00	9,909.93	9,610.00	9,324.05	36.48	47.22	70.49	-1,311.36	42.99	1,576.11	1,498.89	77.22	20.411			
10,100.00	9,965.40	9,653.73	9,326.81	36.65	47.29	68.07	-1,307.95	86.50	1,593.84	1,516.23	77.61	20.537			
10,200.00	10,005.61	9,704.00	9,328.15	36.92	47.39	66.07	-1,304.24	136.61	1,608.24	1,529.97	78.27	20.547			
10,300.00	10,029.34	9,795.00	9,328.39	37.44	47.63	64.50	-1,298.36	227.42	1,617.75	1,538.65	79.10	20.452			
10,322.43	10,032.37	9,811.46	9,328.38	37.58	47.68	64.33	-1,297.40	243.85	1,619.04	1,539.71	79.32	20.411			
10,400.00	10,036.00	9,927.84	9,329.89	38.08	48.13	64.10	-1,289.67	359.96	1,619.64	1,539.19	80.45	20.133			
10,481.89	10,036.00	10,006.03	9,334.21	38.73	48.52	64.19	-1,284.50	437.85	1,616.08	1,534.42	81.66	19.791			
10,500.00	10,036.00	10,015.97	9,334.77	38.88	48.58	64.20	-1,283.96	447.76	1,615.26	1,533.37	81.89	19.724			
10,581.21	10,036.00	10,070.00	9,337.29	39.66	48.91	64.25	-1,281.75	501.68	1,612.05	1,528.91	83.13	19.391			
10,600.00	10,036.00	10,070.00	9,337.29	39.84	48.91	64.24	-1,281.75	501.68	1,611.10	1,527.77	83.34	19.332			
10,680.13	10,036.00	10,129.32	9,338.76	40.71	49.34	64.27	-1,280.06	560.96	1,608.94	1,524.19	84.75	18.984			
10,700.00	10,036.00	10,143.75	9,338.87	40.93	49.45	64.27	-1,279.67	575.38	1,608.57	1,523.47	85.10	18.902			
10,779.28	10,036.00	10,207.86	9,338.38	41.90	49.98	64.24	-1,277.96	639.47	1,607.66	1,521.00	86.66	18.551			
10,800.00	10,036.00	10,225.35	9,338.03	42.15	50.14	64.23	-1,277.49	656.94	1,607.53	1,520.46	87.08	18.461			
10,880.22	10,036.00	10,331.23	9,337.41	43.24	51.17	64.17	-1,274.13	762.75	1,606.10	1,516.98	89.12	18.022			
10,900.00	10,036.00	10,344.00	9,337.43	43.51	51.30	64.17	-1,273.71	775.51	1,605.70	1,516.17	89.53	17.935			
10,992.20	10,036.00	10,412.59	9,338.23	44.86	52.08	64.17	-1,271.76	844.06	1,604.01	1,512.32	91.69	17.495			
11,000.00	10,036.00	10,434.00	9,337.82	44.97	52.33	64.16	-1,271.43	865.46	1,604.17	1,512.17	92.00	17.436			
11,021.58	10,036.00	10,434.00	9,337.82	45.31	52.33	64.16	-1,271.43	865.46	1,604.09	1,511.70	92.38	17.363			
11,100.00	10,036.00	10,467.39	9,336.56	46.54	52.76	64.12	-1,271.22	898.83	1,605.52	1,511.44	94.09	17.065			
11,119.59	10,036.00	10,477.11	9,336.04	46.86	52.88	64.11	-1,271.24	908.53	1,606.18	1,511.65	94.54	16.990			
11,200.00	10,036.00	10,521.00	9,332.89	48.20	53.46	64.02	-1,271.73	952.31	1,610.18	1,513.76	96.42	16.700			
11,281.82	10,036.00	10,752.10	9,328.65	49.62	56.84	63.86	-1,267.78	1,183.13	1,608.64	1,508.21	100.44	16.016			
11,300.00	10,036.00	10,768.58	9,328.87	49.94	57.10	63.86	-1,267.11	1,199.60	1,608.05	1,507.08	100.97	15.926			
11,381.49	10,036.00	10,869.14	9,329.63	51.42	58.69	63.83	-1,262.53	1,300.04	1,605.26	1,501.57	103.68	15.482			
11,400.00	10,036.00	10,896.45	9,330.39	51.76	59.14	63.83	-1,261.20	1,327.31	1,604.39	1,500.05	104.35	15.376			
11,481.72	10,036.00	10,979.02	9,332.70	53.30	60.53	63.86	-1,256.96	1,409.73	1,600.38	1,493.37	107.01	14.955			
11,500.00	10,036.00	10,987.00	9,332.90	53.64	60.66	63.86	-1,256.53	1,417.71	1,599.50	1,491.99	107.51	14.878			
11,580.93	10,036.00	11,050.15	9,334.22	55.22	61.77	63.86	-1,253.63	1,480.78	1,596.22	1,486.17	110.04	14.505			
11,600.00	10,036.00	11,063.34	9,334.44	55.59	62.01	63.87	-1,253.15	1,493.95	1,595.64	1,485.01	110.63	14.424			
11,680.07	10,036.00	11,129.28	9,335.73	57.19	63.21	63.89	-1,251.42	1,559.85	1,593.78	1,480.53	113.25	14.073			
11,700.00	10,036.00	11,147.02	9,336.29	57.59	63.54	63.91	-1,251.13	1,577.59	1,593.40	1,479.47	113.93	13.986			
11,779.61	10,036.00	11,215.42	9,339.01	59.22	64.83	64.00	-1,250.59	1,645.93	1,592.18	1,475.50	116.68	13.646			
11,800.00	10,036.00	11,232.48	9,339.62	59.64	65.16	64.02	-1,250.51	1,662.98	1,591.97	1,474.59	117.38	13.563			
11,872.81	10,036.00	11,290.51	9,341.34	61.16	66.28	64.08	-1,250.40	1,720.98	1,591.58	1,471.71	119.87	13.277			
11,900.00	10,036.00	11,310.18	9,341.80	61.73	66.67	64.10	-1,250.47	1,740.64	1,591.65	1,470.87	120.78	13.178			
11,921.84	10,036.00	11,325.98	9,342.12	62.19	66.98	64.12	-1,250.58	1,756.44	1,591.79	1,470.27	121.52	13.099			
12,000.00	10,036.00	11,366.00	9,342.74	63.86	67.77	64.15	-1,251.06	1,796.46	1,593.10	1,469.18	123.92	12.855			
12,020.81	10,036.00	11,393.33	9,342.91	64.31	68.32	64.17	-1,251.56	1,823.78	1,593.54	1,468.73	124.81	12.768			
12,100.00	10,036.00	11,442.90	9,342.38	66.03	69.33	64.18	-1,252.86	1,873.33	1,596.52	1,469.14	127.38	12.533			
12,182.51	10,036.00	11,747.00	9,357.33	67.84	75.68	64.70	-1,252.02	2,175.96	1,597.00	1,463.26	133.74	11.941			
12,200.00	10,036.00	11,747.00	9,357.33	68.23	75.68	64.70	-1,252.02	2,175.96	1,595.51	1,461.24	134.27	11.883			
12,282.62	10,036.00	11,791.97	9,363.70	70.07	76.64	64.89	-1,250.68	2,220.45	1,589.39	1,452.07	137.33	11.574			
12,300.00	10,036.00	11,798.72	9,364.51	70.46	76.79	64.92	-1,250.59	2,227.15	1,588.47	1,450.54	137.93	11.517			
12,380.11	10,036.00	11,841.00	9,368.62	72.27	77.70	65.06	-1,250.73	2,269.23	1,585.82	1,444.99	140.83	11.261			
12,400.00	10,036.00	11,841.00	9,368.62	72.72	77.70	65.06	-1,250.73	2,269.23	1,585.43	1,444.05	141.38	11.214			
12,480.92	10,036.00	11,950.95	9,378.71	74.56	80.13	65.42	-1,251.44	2,378.71	1,583.52	1,438.18	145.34	10.895			
12,500.00	10,036.00	11,964.76	9,379.95	75.00	80.43	65.47	-1,251.42	2,392.46	1,582.95	1,436.86	146.09	10.836			
12,579.71	10,036.00	12,030.00	9,384.34	76.83	81.86	65.62	-1,251.31	2,457.55	1,581.30	1,432.01	149.29	10.592			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH														Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,600.00	10,036.00	12,030.00	9,384.34	77.30	81.86	65.62	-1,251.31	2,457.55	1,581.05	1,431.18	149.86	10.550			
12,637.66	10,036.00	12,053.57	9,385.22	78.17	82.39	65.65	-1,251.34	2,481.10	1,580.92	1,429.65	151.26	10.451			
12,700.00	10,036.00	12,084.32	9,385.53	79.62	83.08	65.67	-1,251.60	2,511.85	1,581.72	1,428.32	153.41	10.311			
12,720.11	10,036.00	12,094.24	9,385.43	80.09	83.30	65.67	-1,251.74	2,521.77	1,582.25	1,428.16	154.09	10.268			
12,800.00	10,036.00	12,148.47	9,383.43	81.96	84.51	65.63	-1,252.80	2,575.95	1,585.52	1,428.54	156.98	10.100			
12,822.62	10,036.00	12,175.23	9,382.13	82.50	85.12	65.60	-1,253.24	2,602.67	1,586.52	1,428.55	157.97	10.043			
12,900.00	10,036.00	12,351.40	9,377.35	84.32	89.11	65.46	-1,252.61	2,778.71	1,588.42	1,425.85	162.57	9.771			
12,982.53	10,036.00	12,483.88	9,383.95	86.28	92.13	65.63	-1,248.35	2,910.95	1,584.79	1,417.99	166.80	9.501			
13,000.00	10,036.00	12,504.42	9,385.26	86.70	92.60	65.67	-1,247.57	2,931.43	1,583.89	1,416.29	167.60	9.450			
13,082.16	10,036.00	12,586.84	9,389.89	88.66	94.49	65.78	-1,244.06	3,013.65	1,579.58	1,408.37	171.21	9.226			
13,100.00	10,036.00	12,595.00	9,390.28	89.08	94.67	65.79	-1,243.68	3,021.79	1,578.67	1,406.78	171.89	9.184			
13,181.00	10,036.00	12,651.27	9,392.87	91.03	95.98	65.85	-1,241.68	3,077.96	1,575.35	1,400.18	175.17	8.993			
13,200.00	10,036.00	12,663.05	9,393.40	91.49	96.26	65.87	-1,241.43	3,089.73	1,574.80	1,398.88	175.92	8.952			
13,279.57	10,036.00	12,717.73	9,395.61	93.41	97.54	65.94	-1,240.82	3,144.36	1,573.40	1,394.27	179.13	8.784			
13,300.00	10,036.00	12,733.29	9,396.04	93.90	97.90	65.96	-1,240.69	3,159.92	1,573.21	1,393.25	179.96	8.742			
13,379.59	10,036.00	12,813.60	9,396.82	95.83	99.79	65.98	-1,239.98	3,240.22	1,573.00	1,389.53	183.48	8.573			
13,400.00	10,036.00	12,857.10	9,397.36	96.32	100.82	65.99	-1,239.04	3,283.70	1,572.69	1,388.01	184.68	8.516			
13,481.21	10,036.00	12,953.60	9,400.49	98.30	103.09	66.07	-1,236.28	3,380.11	1,570.23	1,381.72	188.51	8.330			
13,500.00	10,036.00	12,975.05	9,401.67	98.76	103.60	66.11	-1,235.81	3,401.52	1,569.61	1,380.21	189.41	8.287			
13,582.41	10,036.00	13,083.78	9,409.92	100.78	106.18	66.36	-1,232.77	3,509.89	1,565.64	1,372.06	193.58	8.088			
13,600.00	10,036.00	13,095.56	9,410.86	101.21	106.46	66.39	-1,232.44	3,521.63	1,564.78	1,370.44	194.33	8.052			
13,680.90	10,036.00	13,161.00	9,415.18	103.19	108.02	66.52	-1,231.02	3,586.91	1,561.72	1,363.81	197.91	7.891			
13,700.00	10,036.00	13,161.00	9,415.18	103.66	108.02	66.52	-1,231.02	3,586.91	1,561.13	1,362.59	198.54	7.863			
13,786.08	10,036.00	13,208.24	9,417.21	105.78	109.16	66.59	-1,230.74	3,634.10	1,560.02	1,358.07	201.95	7.725			
13,800.00	10,036.00	13,215.67	9,417.44	106.12	109.34	66.60	-1,230.78	3,641.52	1,560.05	1,357.56	202.49	7.704			
13,821.50	10,036.00	13,227.15	9,417.74	106.65	109.62	66.61	-1,230.88	3,653.00	1,560.21	1,356.89	203.31	7.674			
13,900.00	10,036.00	13,279.46	9,418.42	108.59	110.89	66.66	-1,231.90	3,705.29	1,561.87	1,355.42	206.45	7.565			
13,921.39	10,036.00	13,299.32	9,418.51	109.12	111.37	66.67	-1,232.34	3,725.15	1,562.47	1,355.07	207.40	7.534			
14,000.00	10,036.00	13,389.58	9,418.28	111.07	113.56	66.70	-1,234.05	3,815.39	1,564.70	1,353.52	211.18	7.409			
14,023.52	10,036.00	13,428.29	9,418.16	111.65	114.50	66.71	-1,234.28	3,854.11	1,565.08	1,352.57	212.51	7.365			
14,100.00	10,036.00	13,530.18	9,418.18	113.55	116.98	66.71	-1,233.48	3,955.99	1,565.23	1,348.88	216.35	7.235			
14,179.82	10,036.00	13,621.50	9,418.56	115.54	119.20	66.71	-1,231.81	4,047.29	1,564.51	1,344.39	220.12	7.107			
14,200.00	10,036.00	13,647.55	9,418.70	116.05	119.83	66.71	-1,231.21	4,073.33	1,564.23	1,343.12	221.12	7.074			
14,281.71	10,036.00	13,767.69	9,419.95	118.09	122.76	66.71	-1,226.70	4,193.38	1,561.84	1,336.58	225.26	6.933			
14,300.00	10,036.00	13,792.79	9,420.74	118.54	123.37	66.72	-1,225.61	4,218.44	1,561.05	1,334.87	226.18	6.902			
14,382.24	10,036.00	13,879.33	9,424.79	120.60	125.48	66.82	-1,221.87	4,304.81	1,557.03	1,326.95	230.09	6.767			
14,400.00	10,036.00	13,895.86	9,425.55	121.04	125.89	66.84	-1,221.17	4,321.31	1,556.19	1,325.28	230.91	6.739			
14,481.21	10,036.00	13,955.54	9,427.83	123.08	127.35	66.89	-1,218.79	4,380.89	1,552.81	1,318.33	234.48	6.622			
14,500.00	10,036.00	13,967.93	9,428.11	123.55	127.65	66.89	-1,218.36	4,393.27	1,552.22	1,316.95	235.27	6.598			
14,579.91	10,036.00	14,025.00	9,428.56	125.56	129.05	66.89	-1,216.71	4,450.31	1,550.57	1,311.91	238.65	6.497			
14,600.00	10,036.00	14,044.93	9,428.60	126.06	129.54	66.89	-1,216.21	4,470.24	1,550.28	1,310.71	239.57	6.471			
14,680.57	10,036.00	14,139.38	9,429.22	128.09	131.87	66.89	-1,213.87	4,564.66	1,549.04	1,305.59	243.45	6.363			
14,700.00	10,036.00	14,173.47	9,429.78	128.58	132.71	66.90	-1,212.71	4,598.72	1,548.50	1,303.97	244.52	6.333			
14,780.29	10,036.00	14,231.01	9,430.89	130.61	134.14	66.91	-1,210.56	4,656.21	1,546.04	1,298.06	247.98	6.234			
14,800.00	10,036.00	14,240.40	9,430.96	131.10	134.38	66.92	-1,210.34	4,665.60	1,545.75	1,296.99	248.76	6.214			
14,833.88	10,036.00	14,256.54	9,430.98	131.96	134.78	66.91	-1,210.08	4,681.73	1,545.56	1,295.49	250.07	6.181			
14,900.00	10,036.00	14,295.00	9,430.53	133.63	135.74	66.90	-1,210.06	4,720.19	1,546.33	1,293.67	252.65	6.120			
14,920.22	10,036.00	14,295.00	9,430.53	134.14	135.74	66.90	-1,210.06	4,720.19	1,546.82	1,293.62	253.21	6.109			
15,000.00	10,036.00	14,355.15	9,429.04	136.16	137.26	66.88	-1,211.12	4,780.32	1,549.69	1,293.23	256.46	6.043			
15,019.55	10,036.00	14,368.92	9,428.63	136.65	137.60	66.87	-1,211.49	4,794.07	1,550.58	1,293.34	257.23	6.028			

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF				Rule Assigned:				Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,100.00	10,036.00	14,452.95	9,426.17	138.69	139.71	66.84	-1,214.07	4,878.02	1,554.55	1,293.56	261.00	5.956		
15,179.43	10,036.00	14,616.37	9,427.73	140.71	143.81	66.95	-1,216.20	5,041.37	1,555.94	1,289.56	266.38	5.841		
15,200.00	10,036.00	14,644.19	9,428.95	141.23	144.50	66.99	-1,216.09	5,069.16	1,555.71	1,288.20	267.51	5.816		
15,280.09	10,036.00	14,727.21	9,432.69	143.26	146.58	67.12	-1,215.32	5,152.10	1,554.38	1,282.89	271.48	5.725		
15,300.00	10,036.00	14,745.69	9,433.32	143.77	147.04	67.14	-1,215.10	5,170.56	1,554.08	1,281.65	272.43	5.705		
15,398.57	10,036.00	14,820.79	9,434.75	146.28	148.93	67.19	-1,214.22	5,245.64	1,553.27	1,276.50	276.77	5.612		
15,400.00	10,036.00	14,821.81	9,434.76	146.31	148.95	67.19	-1,214.21	5,246.66	1,553.27	1,276.44	276.83	5.611		
15,422.51	10,036.00	14,837.82	9,434.76	146.89	149.35	67.19	-1,214.10	5,262.68	1,553.33	1,275.56	277.78	5.592		
15,500.00	10,036.00	14,907.58	9,433.80	148.86	151.11	67.16	-1,213.71	5,332.42	1,554.07	1,272.84	281.23	5.526		
15,522.59	10,036.00	14,931.01	9,433.24	149.44	151.69	67.14	-1,213.48	5,355.84	1,554.29	1,272.02	282.27	5.506		
15,600.00	10,036.00	15,007.43	9,431.17	151.41	153.62	67.07	-1,212.59	5,432.24	1,555.01	1,269.26	285.75	5.442		
15,681.66	10,036.00	15,171.57	9,437.48	153.49	157.74	67.28	-1,210.36	5,596.06	1,553.41	1,262.41	291.00	5.338		
15,700.00	10,036.00	15,182.20	9,438.44	153.96	158.01	67.31	-1,210.19	5,606.64	1,552.67	1,260.82	291.86	5.320		
15,780.02	10,036.00	15,239.00	9,442.72	156.00	159.44	67.46	-1,209.88	5,663.28	1,550.57	1,254.92	295.66	5.245		
15,800.00	10,036.00	15,239.00	9,442.72	156.52	159.44	67.46	-1,209.88	5,663.28	1,550.25	1,253.91	296.34	5.231		
15,879.29	10,036.00	15,310.26	9,446.37	158.54	161.25	67.60	-1,210.04	5,734.45	1,549.62	1,249.41	300.21	5.162		
15,900.00	10,036.00	15,328.40	9,447.03	159.07	161.71	67.62	-1,210.05	5,752.57	1,549.54	1,248.34	301.19	5.145		
15,979.15	10,036.00	15,408.17	9,449.64	161.10	163.73	67.72	-1,210.05	5,832.31	1,549.31	1,244.19	305.12	5.078		
16,000.00	10,036.00	15,429.51	9,450.38	161.63	164.27	67.75	-1,210.05	5,853.63	1,549.24	1,243.08	306.16	5.060		
16,079.70	10,036.00	15,516.91	9,453.15	163.67	166.48	67.85	-1,209.69	5,940.99	1,548.75	1,238.52	310.23	4.992		
16,100.00	10,036.00	15,546.36	9,454.02	164.19	167.23	67.88	-1,209.39	5,970.42	1,548.53	1,237.16	311.36	4.973		
16,180.84	10,036.00	15,642.56	9,457.89	166.27	169.66	68.00	-1,207.41	6,066.52	1,546.45	1,230.86	315.60	4.900		
16,200.00	10,036.00	15,655.16	9,458.30	166.76	169.98	68.01	-1,207.14	6,079.11	1,546.03	1,229.57	316.45	4.885		
16,299.26	10,036.00	15,723.22	9,459.20	169.30	171.71	68.04	-1,206.14	6,147.15	1,545.10	1,224.31	320.79	4.817		
16,300.00	10,036.00	15,723.88	9,459.20	169.32	171.72	68.04	-1,206.14	6,147.81	1,545.10	1,224.28	320.82	4.816		
16,322.95	10,036.00	15,744.42	9,459.07	169.91	172.24	68.04	-1,205.89	6,168.35	1,545.12	1,223.26	321.86	4.801		
16,400.00	10,036.00	15,818.46	9,457.27	171.89	174.12	67.97	-1,204.73	6,242.36	1,545.44	1,220.09	325.35	4.750		
16,480.22	10,036.00	15,931.23	9,454.23	173.95	176.98	67.83	-1,201.01	6,355.02	1,544.44	1,215.08	329.36	4.689		
16,500.00	10,036.00	15,948.59	9,453.97	174.46	177.42	67.81	-1,200.41	6,372.37	1,544.11	1,213.86	330.25	4.676		
16,579.27	10,036.00	15,998.00	9,453.65	176.50	178.68	67.79	-1,199.04	6,421.76	1,543.25	1,209.71	333.54	4.627		
16,600.00	10,036.00	16,025.35	9,453.62	177.03	179.38	67.79	-1,198.57	6,449.11	1,543.07	1,208.45	334.62	4.611		
16,621.98	10,036.00	16,039.10	9,453.58	177.59	179.73	67.78	-1,198.43	6,462.86	1,543.11	1,207.58	335.53	4.599		
16,700.00	10,036.00	16,094.00	9,453.23	179.60	181.13	67.78	-1,198.63	6,517.75	1,544.22	1,205.40	338.82	4.558		
16,722.06	10,036.00	16,109.71	9,453.08	180.17	181.54	67.78	-1,198.82	6,533.46	1,544.75	1,205.00	339.75	4.547		
16,800.00	10,036.00	16,205.33	9,451.32	182.18	183.98	67.74	-1,198.87	6,629.06	1,546.06	1,202.35	343.72	4.498		
16,822.49	10,036.00	16,228.32	9,451.03	182.76	184.57	67.73	-1,198.81	6,652.05	1,546.33	1,201.55	344.78	4.485		
16,900.00	10,036.00	16,307.04	9,451.70	184.75	186.58	67.77	-1,199.24	6,730.77	1,547.21	1,198.63	348.58	4.439		
16,922.53	10,036.00	16,329.57	9,452.09	185.33	187.16	67.79	-1,199.43	6,753.29	1,547.46	1,197.76	349.70	4.425		
17,000.00	10,036.00	16,407.84	9,453.32	187.33	189.16	67.85	-1,200.05	6,831.55	1,548.31	1,194.77	353.54	4.379		
17,022.68	10,036.00	16,431.19	9,453.43	187.91	189.76	67.86	-1,200.12	6,854.90	1,548.54	1,193.89	354.65	4.366		
17,100.00	10,036.00	16,512.86	9,452.71	189.91	191.85	67.84	-1,199.78	6,936.56	1,549.24	1,190.86	358.38	4.323		
17,179.86	10,036.00	16,642.81	9,452.41	191.97	195.17	67.82	-1,197.83	7,066.48	1,549.24	1,186.39	362.85	4.270		
17,200.00	10,036.00	16,646.26	9,452.79	192.49	195.26	67.83	-1,197.58	7,069.92	1,548.57	1,184.93	363.64	4.258		
17,280.63	10,036.00	16,732.14	9,454.90	194.57	197.46	67.89	-1,195.40	7,155.75	1,546.66	1,178.98	367.68	4.206		
17,300.00	10,036.00	16,758.00	9,455.52	195.07	198.12	67.91	-1,194.97	7,181.60	1,546.41	1,177.68	368.73	4.194		
17,379.24	10,036.00	16,814.46	9,456.15	197.12	199.56	67.92	-1,194.07	7,238.04	1,545.54	1,173.27	372.27	4.152		
17,400.00	10,036.00	16,832.82	9,456.07	197.65	200.03	67.92	-1,193.72	7,256.40	1,545.41	1,172.19	373.22	4.141		
17,480.57	10,036.00	16,941.02	9,456.21	199.73	202.80	67.91	-1,191.25	7,364.56	1,544.50	1,167.11	377.39	4.093		
17,500.00	10,036.00	16,972.94	9,457.13	200.24	203.62	67.93	-1,190.35	7,396.45	1,543.97	1,165.48	378.50	4.079		
17,582.10	10,036.00	17,071.68	9,461.33	202.36	206.14	68.04	-1,186.55	7,495.03	1,540.44	1,157.65	382.79	4.024		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 136H - OH - OH														Offset Site Error: 0.00 usft	
Survey Program: 225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,600.00	10,036.00	17,084.98	9,461.91	202.82	206.48	68.05	-1,186.06	7,508.31	1,539.71	1,156.05	383.66	4.013			
17,681.00	10,036.00	17,148.69	9,464.32	204.92	208.11	68.12	-1,184.15	7,571.94	1,537.06	1,149.50	387.55	3.966			
17,700.00	10,036.00	17,168.74	9,464.98	205.41	208.63	68.13	-1,183.59	7,591.97	1,536.51	1,148.00	388.52	3.955			
17,780.84	10,036.00	17,246.21	9,467.20	207.50	210.61	68.19	-1,181.21	7,669.38	1,534.13	1,141.63	392.49	3.909			
17,800.00	10,036.00	17,259.56	9,467.59	208.00	210.96	68.20	-1,180.87	7,682.72	1,533.65	1,140.27	393.38	3.899			
17,879.35	10,036.00	17,326.00	9,469.78	210.05	212.66	68.27	-1,180.10	7,749.12	1,532.52	1,135.30	397.22	3.858			
17,900.00	10,036.00	17,326.00	9,469.78	210.58	212.66	68.27	-1,180.10	7,749.12	1,532.36	1,134.44	397.92	3.851			
17,922.73	10,036.00	17,347.02	9,470.57	211.17	213.21	68.31	-1,180.15	7,770.12	1,532.32	1,133.26	399.07	3.840			
18,000.00	10,036.00	17,406.22	9,473.07	213.17	214.73	68.41	-1,180.92	7,829.26	1,532.80	1,130.07	402.72	3.806			
18,020.66	10,036.00	17,421.00	9,473.76	213.71	215.12	68.44	-1,181.26	7,844.02	1,533.08	1,129.40	403.68	3.798			
18,100.00	10,036.00	17,460.92	9,475.19	215.76	216.15	68.52	-1,182.62	7,883.90	1,535.34	1,128.58	406.76	3.775			
18,200.00	10,036.00	17,690.26	9,478.50	218.35	222.13	68.71	-1,186.35	8,112.99	1,539.87	1,125.66	414.21	3.718			
18,283.50	10,036.00	17,800.00	9,482.19	220.52	224.94	68.76	-1,179.28	8,222.44	1,534.32	1,115.88	418.44	3.667			
18,300.00	10,036.00	17,800.00	9,482.19	220.95	224.94	68.76	-1,179.28	8,222.44	1,533.43	1,114.22	419.20	3.658			
18,381.69	10,036.00	17,854.61	9,484.35	223.06	226.36	68.80	-1,176.23	8,276.91	1,529.24	1,106.13	423.12	3.614			
18,400.00	10,036.00	17,862.10	9,484.62	223.54	226.56	68.81	-1,176.03	8,284.39	1,528.74	1,104.81	423.93	3.606			
18,469.58	10,036.00	17,895.00	9,485.67	225.34	227.41	68.85	-1,175.80	8,317.28	1,528.02	1,101.10	426.92	3.579			
18,500.00	10,036.00	17,895.00	9,485.67	226.13	227.41	68.85	-1,175.80	8,317.28	1,528.32	1,100.50	427.82	3.572			
18,520.06	10,036.00	17,895.00	9,485.67	226.65	227.41	68.85	-1,175.80	8,317.28	1,528.85	1,100.53	428.33	3.569			
18,600.00	10,036.00	17,948.21	9,486.57	228.73	228.81	68.91	-1,177.24	8,370.45	1,531.50	1,099.86	431.64	3.548			
18,700.00	10,036.00	17,999.53	9,486.16	231.32	230.16	68.94	-1,180.41	8,421.67	1,538.33	1,103.39	434.94	3.537			
18,739.05	10,036.00	18,050.91	9,485.18	232.05	231.50	68.96	-1,183.80	8,472.93	1,541.37	1,104.31	437.06	3.527 SF			

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH														Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF						Rule Assigned:						Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.00	0.00	1.00	1.00	0.00	0.01	-90.99	-2.43	-140.30	140.32						
100.00	100.00	101.38	101.38	0.50	0.76	-90.93	-2.28	-140.16	140.18	139.02	1.16	120.799			
200.00	200.00	201.76	201.76	1.05	1.51	-90.76	-1.85	-139.76	139.77	137.40	2.37	58.976			
300.00	300.00	301.32	301.32	1.55	2.03	-90.55	-1.33	-139.31	139.32	136.00	3.32	41.958			
400.00	400.00	401.23	401.23	1.98	2.25	-90.48	-1.16	-139.15	139.15	135.21	3.94	35.286			
500.00	500.00	501.18	501.18	2.40	2.43	-90.49	-1.19	-139.00	139.01	134.49	4.51	30.795			
600.00	600.00	601.25	601.24	2.79	2.71	-90.54	-1.32	-138.88	138.89	133.79	5.09	27.269			
700.00	700.00	701.64	701.63	3.18	3.62	-90.69	-1.66	-138.56	138.57	132.86	5.71	24.252			
800.00	800.00	802.15	802.14	3.56	4.42	-90.94	-2.27	-137.93	137.95	131.60	6.35	21.726			
900.00	900.00	902.81	902.79	3.94	5.08	-91.34	-3.19	-136.84	136.89	129.88	7.00	19.546			
1,000.00	1,000.00	1,001.07	1,001.03	4.32	5.51	-92.00	-4.75	-135.82	135.90	127.33	8.57	15.865 CC			
1,004.45	1,004.45	1,005.38	1,005.33	4.33	5.52	-92.05	-4.86	-135.81	135.90	127.24	8.66	15.694			
1,100.00	1,100.00	1,097.83	1,097.71	4.69	6.56	-93.46	-8.27	-136.79	137.08	126.38	10.70	12.815 ES			
1,200.00	1,200.00	1,193.88	1,193.55	5.06	8.71	-95.63	-13.80	-139.99	140.87	127.55	13.32	10.575			
1,300.00	1,300.00	1,289.29	1,288.50	5.43	11.06	-98.27	-21.18	-145.67	147.73	131.61	16.11	9.168			
1,400.00	1,400.00	1,388.87	1,387.31	5.79	12.56	-101.54	-31.20	-152.78	156.54	138.48	18.06	8.669			
1,500.00	1,500.00	1,488.82	1,486.24	6.16	13.91	-105.55	-44.15	-158.65	165.34	145.47	19.86	8.324			
1,600.00	1,599.99	1,590.77	1,586.97	6.47	14.96	-40.23	-59.32	-162.76	172.81	151.52	21.28	8.119			
1,700.00	1,699.91	1,691.23	1,686.16	6.78	15.95	-45.59	-75.17	-164.61	177.88	155.34	22.54	7.891			
1,800.00	1,799.69	1,787.02	1,780.84	7.10	16.71	-50.56	-89.36	-167.39	183.17	159.87	23.30	7.861			
1,900.00	1,899.27	1,884.21	1,877.07	7.48	17.42	-55.00	-101.92	-172.81	189.45	165.59	23.86	7.940			
2,000.00	1,998.57	1,983.73	1,975.62	8.00	17.92	-59.83	-114.56	-178.37	195.42	171.32	24.10	8.110			
2,100.00	2,097.62	2,082.29	2,073.23	8.33	18.35	-65.10	-127.44	-182.97	201.49	177.38	24.11	8.358			
2,200.00	2,196.65	2,180.33	2,170.36	8.67	18.63	-69.81	-139.60	-188.27	209.11	185.05	24.06	8.690			
2,300.00	2,295.67	2,279.89	2,269.06	9.02	18.92	-73.83	-150.92	-194.82	217.90	193.80	24.10	9.040			
2,400.00	2,394.70	2,381.43	2,369.86	9.39	19.22	-77.19	-160.68	-202.26	226.59	202.35	24.24	9.349			
2,500.00	2,493.73	2,482.82	2,470.62	9.76	19.51	-80.01	-168.75	-210.09	234.71	210.27	24.44	9.602			
2,600.00	2,592.75	2,583.74	2,571.01	10.15	19.81	-82.74	-176.25	-217.08	242.53	217.87	24.66	9.835			
2,700.00	2,691.78	2,681.40	2,668.21	10.54	20.10	-85.31	-183.44	-223.31	250.55	225.67	24.88	10.072			
2,800.00	2,790.81	2,777.39	2,763.63	10.93	20.39	-87.61	-191.33	-230.12	260.12	234.98	25.13	10.349			
2,900.00	2,889.83	2,875.51	2,861.08	11.33	20.69	-89.74	-200.09	-237.60	270.94	245.47	25.47	10.639			
3,000.00	2,988.86	2,974.54	2,959.43	11.73	20.99	-91.79	-209.03	-244.84	282.12	256.28	25.84	10.917			
3,100.00	3,087.89	3,070.19	3,054.40	12.14	21.30	-93.69	-218.13	-251.60	294.03	267.80	26.23	11.210			
3,200.00	3,186.91	3,164.54	3,147.96	12.55	21.60	-95.48	-228.45	-258.29	307.63	280.99	26.64	11.549			
3,300.00	3,285.94	3,264.58	3,247.07	12.96	21.93	-97.27	-240.10	-265.20	322.18	295.04	27.14	11.870			
3,400.00	3,384.97	3,366.42	3,348.12	13.38	22.26	-99.04	-251.14	-271.50	336.09	308.40	27.69	12.136			
3,500.00	3,484.00	3,466.93	3,447.94	13.79	22.59	-100.71	-261.33	-277.19	349.50	321.24	28.26	12.368			
3,600.00	3,583.02	3,567.26	3,547.66	14.21	22.92	-102.29	-271.02	-282.57	362.68	333.83	28.85	12.573			
3,700.00	3,682.05	3,664.38	3,644.18	14.63	23.24	-103.69	-280.39	-287.88	376.09	346.65	29.44	12.776			
3,800.00	3,781.08	3,761.58	3,740.72	15.05	23.56	-104.95	-290.13	-293.61	390.12	360.06	30.06	12.979			
3,900.00	3,880.10	3,859.81	3,838.27	15.47	23.89	-106.14	-300.19	-299.32	404.54	373.84	30.71	13.173			
4,000.00	3,979.13	3,958.67	3,936.45	15.89	24.23	-107.31	-310.42	-304.67	419.22	387.84	31.38	13.360			
4,100.00	4,078.16	4,060.83	4,037.99	16.32	24.57	-108.50	-320.48	-309.74	433.55	401.46	32.09	13.510			
4,200.00	4,177.19	4,162.44	4,139.07	16.73	24.91	-109.69	-329.68	-314.34	447.25	414.45	32.80	13.636			
4,300.00	4,276.44	4,262.88	4,239.05	17.14	25.25	-110.78	-338.33	-318.67	460.07	426.56	33.51	13.728			
4,400.00	4,375.98	4,363.90	4,339.64	17.55	25.59	-111.51	-346.67	-322.85	471.70	437.44	34.26	13.768			
4,500.00	4,475.73	4,465.49	4,440.84	17.95	25.94	-111.95	-354.61	-326.75	481.98	446.96	35.01	13.765			
4,600.00	4,575.63	4,566.65	4,541.66	18.33	26.27	-112.11	-362.10	-330.28	490.87	455.11	35.76	13.726			
4,700.00	4,675.61	4,667.47	4,642.17	18.70	26.61	-112.01	-369.29	-333.43	498.54	462.04	36.50	13.659			
4,800.00	4,775.61	4,770.55	4,744.99	19.01	26.95	-118.32	-376.23	-336.26	505.21	467.99	37.21	13.576			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 225-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.00	4,875.61	4,874.67	4,848.90	19.34	27.30	178.61	-382.38	-338.66	511.05	473.12	37.93	13.473		
5,000.00	4,975.61	4,986.77	4,960.85	19.66	27.64	178.92	-387.27	-341.34	515.37	476.71	38.66	13.330		
5,100.00	5,075.61	5,097.29	5,071.29	19.99	27.97	179.32	-389.39	-344.88	517.22	477.84	39.38	13.133		
5,200.00	5,175.61	5,198.91	5,172.86	20.32	28.26	179.65	-390.31	-347.84	518.10	478.01	40.09	12.923		
5,300.00	5,275.61	5,299.78	5,273.71	20.65	28.55	179.89	-390.91	-350.01	518.69	477.90	40.79	12.717		
5,400.00	5,375.61	5,399.31	5,373.22	20.98	28.84	-179.93	-391.52	-351.66	519.30	477.83	41.47	12.522		
5,500.00	5,475.61	5,499.32	5,473.22	21.31	29.14	-179.80	-392.19	-352.90	519.98	477.83	42.15	12.337		
5,600.00	5,575.61	5,599.87	5,573.76	21.65	29.45	-179.69	-392.79	-353.86	520.58	477.76	42.82	12.157		
5,700.00	5,675.61	5,700.04	5,673.93	21.98	29.76	-179.61	-393.31	-354.60	521.09	477.60	43.49	11.982		
5,800.00	5,775.61	5,799.95	5,773.83	22.31	30.08	-179.53	-393.82	-355.30	521.62	477.46	44.16	11.813		
5,900.00	5,875.61	5,901.10	5,874.99	22.65	30.37	-179.46	-394.28	-355.98	522.07	477.23	44.84	11.643		
6,000.00	5,975.61	6,002.78	5,976.66	22.99	30.66	-179.39	-394.43	-356.57	522.23	476.69	45.53	11.470		
6,100.00	6,075.61	6,103.44	6,077.32	23.32	30.92	-179.33	-394.33	-357.15	522.14	475.88	46.26	11.287		
6,200.00	6,175.61	6,203.93	6,177.81	23.66	31.17	-179.25	-394.14	-357.90	521.96	474.96	46.99	11.107		
6,300.00	6,275.61	6,303.92	6,277.79	24.00	31.43	-179.15	-393.90	-358.78	521.73	474.00	47.73	10.931		
6,400.00	6,375.61	6,403.82	6,377.69	24.34	31.68	-179.04	-393.66	-359.76	521.51	473.04	48.47	10.760		
6,500.00	6,475.61	6,503.09	6,476.95	24.68	31.95	-178.95	-393.51	-360.62	521.37	472.18	49.19	10.600		
6,546.23	6,521.85	6,548.98	6,522.85	24.84	32.08	-178.91	-393.49	-360.93	521.36	471.84	49.52	10.529		
6,600.00	6,575.61	6,602.10	6,575.96	25.02	32.23	-178.88	-393.51	-361.22	521.38	471.49	49.89	10.450		
6,700.00	6,675.61	6,699.98	6,673.84	25.36	32.53	-178.83	-393.83	-361.65	521.71	471.15	50.56	10.319		
6,800.00	6,775.61	6,798.25	6,772.10	25.71	32.82	-178.80	-394.53	-361.95	522.43	471.20	51.24	10.196		
6,900.00	6,875.61	6,897.61	6,871.46	26.05	33.11	-178.81	-395.45	-361.88	523.36	471.41	51.95	10.074		
7,000.00	6,975.61	6,996.55	6,970.39	26.39	33.39	-178.87	-396.51	-361.38	524.42	471.75	52.67	9.957		
7,100.00	7,075.61	7,094.74	7,068.57	26.73	33.65	-178.96	-397.86	-360.55	525.77	472.36	53.41	9.844		
7,200.00	7,175.61	7,195.35	7,169.16	27.08	33.92	-179.09	-399.49	-359.41	527.38	473.23	54.15	9.739		
7,300.00	7,275.61	7,299.11	7,272.90	27.42	34.19	-179.24	-400.61	-358.03	528.43	473.55	54.89	9.627		
7,400.00	7,375.61	7,402.71	7,376.49	27.77	34.47	-179.41	-401.00	-356.47	528.79	473.20	55.59	9.512		
7,500.00	7,475.61	7,506.21	7,479.98	28.11	34.76	-179.58	-400.69	-354.88	528.48	472.21	56.27	9.392		
7,600.00	7,575.61	7,607.69	7,581.45	28.46	35.07	-179.74	-399.87	-353.46	527.67	470.74	56.92	9.270		
7,700.00	7,675.61	7,708.66	7,682.41	28.81	35.38	-179.83	-398.86	-352.62	526.66	469.09	57.57	9.148		
7,800.00	7,775.61	7,808.13	7,781.88	29.15	35.65	-179.85	-397.80	-352.42	525.60	467.34	58.26	9.022		
7,900.00	7,875.61	7,906.00	7,879.74	29.50	35.91	-179.80	-396.88	-352.90	524.66	465.71	58.95	8.899		
8,000.00	7,975.61	8,004.83	7,978.57	29.85	36.18	-179.72	-396.26	-353.61	524.03	464.37	59.67	8.782		
8,100.00	8,075.61	8,102.91	8,076.64	30.19	36.45	-179.67	-396.13	-354.05	523.91	463.53	60.38	8.677		
8,200.00	8,175.61	8,209.72	8,183.44	30.54	36.74	-179.59	-395.43	-354.77	523.25	462.15	61.11	8.563		
8,300.00	8,275.61	8,314.30	8,288.00	30.89	37.02	-179.45	-393.45	-356.07	521.36	459.53	61.83	8.432		
8,400.00	8,375.61	8,413.89	8,387.56	31.24	37.28	-179.28	-391.29	-357.54	519.22	456.64	62.58	8.297		
8,500.00	8,475.61	8,512.80	8,486.43	31.59	37.54	-179.11	-389.25	-359.04	517.17	453.86	63.32	8.168		
8,600.00	8,575.61	8,610.73	8,584.34	31.94	37.81	-178.99	-387.57	-360.10	515.47	451.42	64.05	8.048		
8,700.00	8,675.61	8,709.07	8,682.67	32.29	38.08	-178.92	-386.26	-360.69	514.16	449.38	64.77	7.938		
8,800.00	8,775.61	8,807.86	8,781.45	32.64	38.35	-178.85	-385.20	-361.36	513.10	447.61	65.48	7.835		
8,900.00	8,875.61	8,906.62	8,880.21	32.99	38.61	-178.84	-384.45	-361.37	512.34	446.19	66.15	7.745		
8,960.19	8,935.80	8,963.22	8,936.80	33.20	38.77	-178.96	-384.11	-360.36	511.96	445.41	66.55	7.693		
9,000.00	8,975.61	8,995.00	8,968.44	33.34	38.88	-179.27	-384.42	-357.54	512.29	445.49	66.80	7.669		
9,100.00	9,075.61	9,096.98	9,066.90	33.69	39.96	177.90	-387.08	-332.14	515.28	447.74	67.54	7.630		
9,200.00	9,175.61	9,197.01	9,155.18	34.04	41.64	172.72	-384.95	-285.57	517.33	448.93	68.40	7.563		
9,300.00	9,275.61	9,268.26	9,211.40	34.39	42.62	167.92	-381.92	-241.99	525.28	456.19	69.09	7.603		
9,400.00	9,375.61	9,325.00	9,251.90	34.74	43.19	163.66	-379.23	-202.38	542.86	473.62	69.25	7.839		
9,500.00	9,475.61	9,376.03	9,285.07	35.08	43.47	72.56	-376.60	-163.71	571.08	502.15	68.93	8.285		
9,600.00	9,574.89	9,420.00	9,311.25	35.40	43.71	65.89	-374.12	-128.48	606.08	538.09	67.98	8.915		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
9,700.00	9,670.77	9,472.74	9,339.92	35.69	43.82	59.31	-371.36	-84.31	642.99	576.07	66.92	9.608		
9,800.00	9,760.34	9,514.00	9,360.41	35.98	43.89	54.25	-369.69	-48.54	679.14	613.93	65.22	10.414		
9,900.00	9,840.87	9,577.96	9,389.92	36.26	43.93	49.67	-369.04	8.19	711.76	647.44	64.32	11.066		
10,000.00	9,909.93	9,637.89	9,415.54	36.48	43.98	46.68	-370.85	62.32	739.20	675.60	63.60	11.622		
10,100.00	9,965.40	9,704.00	9,439.13	36.65	44.04	44.63	-371.76	124.06	759.58	696.06	63.51	11.960		
10,200.00	10,005.61	9,747.34	9,450.91	36.92	44.07	43.48	-371.81	165.75	773.40	710.23	63.16	12.244		
10,217.81	10,011.07	9,755.26	9,452.64	37.01	44.08	43.34	-371.83	173.47	775.29	712.12	63.17	12.273		
10,300.00	10,029.34	9,799.00	9,459.90	37.44	44.11	42.95	-372.00	216.59	781.78	718.14	63.64	12.284		
10,321.58	10,032.27	9,799.00	9,459.90	37.58	44.11	42.88	-372.00	216.59	782.80	719.34	63.46	12.335		
10,400.00	10,036.00	9,848.44	9,464.15	38.08	44.12	43.04	-372.01	265.85	783.79	719.33	64.46	12.158		
10,424.02	10,036.00	9,862.66	9,464.74	38.27	44.12	43.10	-371.92	280.05	783.80	719.04	64.76	12.103		
10,500.00	10,036.00	9,972.57	9,466.44	38.88	44.13	43.22	-368.61	389.87	784.04	717.22	66.82	11.733		
10,581.42	10,036.00	10,059.00	9,471.24	39.66	44.13	43.26	-363.70	476.02	778.74	710.59	68.15	11.427		
10,600.00	10,036.00	10,073.00	9,472.17	39.84	44.13	43.26	-363.09	489.98	777.27	708.92	68.35	11.372		
10,679.66	10,036.00	10,122.34	9,474.82	40.70	44.15	43.36	-361.87	539.22	773.45	704.28	69.17	11.181		
10,700.00	10,036.00	10,134.33	9,475.25	40.93	44.15	43.38	-361.83	551.21	773.02	703.63	69.39	11.141		
10,743.99	10,036.00	10,166.00	9,475.99	41.47	44.17	43.46	-362.20	582.87	772.86	702.86	70.00	11.041		
10,800.00	10,036.00	10,199.07	9,476.17	42.15	44.19	43.53	-363.06	615.93	773.90	703.18	70.72	10.943		
10,821.46	10,036.00	10,214.40	9,476.06	42.44	44.21	43.56	-363.54	631.25	774.62	703.56	71.06	10.901		
10,900.00	10,036.00	10,288.38	9,474.36	43.51	44.37	43.66	-366.35	705.16	778.51	705.92	72.59	10.725		
10,979.54	10,036.00	10,407.17	9,476.00	44.67	45.41	43.97	-369.32	823.88	779.51	704.54	74.98	10.397		
11,000.00	10,036.00	10,433.74	9,476.98	44.97	45.78	44.05	-369.64	850.43	779.29	703.76	75.53	10.317		
11,080.68	10,036.00	10,531.00	9,482.38	46.24	47.30	44.37	-369.32	947.53	776.31	698.59	77.72	9.988		
11,100.00	10,036.00	10,552.95	9,483.73	46.54	47.67	44.43	-368.98	969.43	775.36	697.11	78.25	9.909		
11,181.83	10,036.00	10,604.33	9,485.20	47.90	48.55	44.51	-368.51	1,020.79	773.75	694.03	79.73	9.705		
11,200.00	10,036.00	10,622.00	9,485.16	48.20	48.85	44.51	-368.45	1,038.46	773.87	693.72	80.15	9.655		
11,223.36	10,036.00	10,637.56	9,485.01	48.60	49.13	44.51	-368.40	1,054.02	774.11	693.52	80.59	9.606		
11,300.00	10,036.00	10,732.07	9,484.67	49.94	50.82	44.49	-367.31	1,148.52	774.28	691.58	82.70	9.362		
11,380.27	10,036.00	10,828.58	9,487.51	51.40	52.63	44.55	-364.72	1,244.95	771.51	686.49	85.02	9.075		
11,400.00	10,036.00	10,842.53	9,487.94	51.76	52.90	44.57	-364.43	1,258.89	770.93	685.48	85.45	9.022		
11,478.93	10,036.00	10,900.97	9,488.98	53.25	54.04	44.63	-364.01	1,317.31	770.06	682.81	87.25	8.826		
11,500.00	10,036.00	10,927.35	9,489.42	53.64	54.56	44.67	-364.07	1,343.69	770.00	682.07	87.93	8.757		
11,579.72	10,036.00	11,017.65	9,492.76	55.19	56.37	44.91	-364.40	1,433.93	768.65	678.17	90.48	8.495		
11,600.00	10,036.00	11,036.59	9,493.43	55.59	56.75	44.96	-364.37	1,452.85	768.27	677.21	91.06	8.437		
11,679.18	10,036.00	11,109.01	9,494.99	57.17	58.23	45.04	-363.71	1,525.25	767.13	673.90	93.24	8.228		
11,700.00	10,036.00	11,127.28	9,495.17	57.59	58.61	45.05	-363.50	1,543.52	766.97	673.19	93.79	8.178		
11,778.94	10,036.00	11,202.71	9,495.17	59.21	60.18	45.05	-362.67	1,618.95	766.92	670.94	95.98	7.991		
11,800.00	10,036.00	11,228.07	9,495.29	59.64	60.71	45.05	-362.37	1,644.30	766.83	670.18	96.66	7.934		
11,873.20	10,036.00	11,295.31	9,496.23	61.17	62.14	45.10	-361.57	1,711.54	766.08	667.32	98.76	7.757		
11,900.00	10,036.00	11,311.23	9,496.20	61.73	62.49	45.10	-361.56	1,727.45	766.29	666.90	99.38	7.710		
11,921.04	10,036.00	11,323.72	9,496.04	62.18	62.76	45.11	-361.63	1,739.94	766.72	666.84	99.87	7.677		
12,000.00	10,036.00	11,372.99	9,494.20	63.86	63.83	45.09	-362.61	1,789.16	770.42	668.72	101.70	7.575		
12,022.80	10,036.00	11,408.55	9,492.74	64.36	64.61	45.08	-363.62	1,824.68	771.71	669.02	102.69	7.515		
12,100.00	10,036.00	11,507.91	9,492.14	66.03	66.80	45.23	-366.03	1,924.00	773.82	668.13	105.69	7.322		
12,179.66	10,036.00	11,614.67	9,493.40	67.78	69.18	45.43	-367.46	2,030.74	774.69	665.84	108.85	7.117		
12,200.00	10,036.00	11,650.96	9,495.29	68.23	69.99	45.56	-367.63	2,066.98	774.16	664.29	109.88	7.046		
12,279.59	10,036.00	11,717.66	9,499.33	70.00	71.50	45.84	-368.19	2,133.55	771.87	659.29	112.58	6.856		
12,300.00	10,036.00	11,734.36	9,500.22	70.46	71.88	45.91	-368.48	2,150.22	771.52	658.26	113.27	6.812		
12,367.40	10,036.00	11,790.64	9,502.60	71.98	73.17	46.13	-369.66	2,206.44	771.05	655.50	115.55	6.673		
12,400.00	10,036.00	11,818.10	9,503.27	72.72	73.80	46.20	-370.14	2,233.88	771.16	654.53	116.63	6.612		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 225-MWD+IGRF														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,423.35	10,036.00	11,843.00	9,503.58	73.25	74.37	46.25	-370.51	2,258.78	771.39	653.91	117.49	6.566			
12,500.00	10,036.00	11,928.10	9,504.71	75.00	76.33	46.39	-371.10	2,343.87	771.67	651.35	120.33	6.413			
12,528.73	10,036.00	11,952.02	9,505.17	75.66	76.89	46.42	-371.11	2,367.79	771.53	650.27	121.26	6.363			
12,600.00	10,036.00	12,002.12	9,505.52	77.30	78.06	46.51	-371.87	2,417.88	772.51	649.12	123.39	6.261			
12,622.80	10,036.00	12,032.00	9,505.31	77.83	78.76	46.56	-372.83	2,447.74	773.41	649.04	124.37	6.219			
12,700.00	10,036.00	12,112.21	9,506.36	79.62	80.66	46.75	-374.58	2,527.91	774.52	647.15	127.37	6.081			
12,781.31	10,036.00	12,241.54	9,512.87	81.53	83.73	47.14	-374.07	2,657.06	771.47	639.98	131.49	5.867			
12,800.00	10,036.00	12,260.02	9,513.93	81.96	84.17	47.19	-373.67	2,675.49	770.59	638.38	132.21	5.829			
12,880.31	10,036.00	12,333.23	9,517.16	83.86	85.91	47.29	-371.36	2,748.60	766.94	631.87	135.07	5.678			
12,900.00	10,036.00	12,348.13	9,517.56	84.32	86.27	47.29	-370.87	2,763.49	766.25	630.54	135.71	5.646			
12,979.16	10,036.00	12,408.11	9,518.10	86.20	87.69	47.27	-369.17	2,823.44	764.72	626.54	138.18	5.534			
13,000.00	10,036.00	12,430.40	9,518.03	86.70	88.23	47.25	-368.63	2,845.72	764.56	625.66	138.91	5.504			
13,079.37	10,036.00	12,513.45	9,518.46	88.59	90.21	47.22	-366.80	2,928.75	763.60	621.88	141.72	5.388			
13,100.00	10,036.00	12,532.22	9,518.62	89.08	90.66	47.22	-366.44	2,947.52	763.34	620.93	142.42	5.360			
13,178.91	10,036.00	12,604.17	9,518.94	90.98	92.40	47.23	-365.37	3,019.45	762.84	617.73	145.10	5.257			
13,200.00	10,036.00	12,623.83	9,518.98	91.49	92.87	47.23	-365.18	3,039.11	762.81	616.98	145.83	5.231			
13,279.23	10,036.00	12,702.38	9,519.23	93.40	94.77	47.27	-364.94	3,117.66	763.07	614.35	148.72	5.131			
13,300.00	10,036.00	12,741.22	9,519.85	93.90	95.72	47.30	-364.53	3,156.50	762.84	613.04	149.80	5.092			
13,382.46	10,036.00	12,876.66	9,527.44	95.90	99.02	47.52	-359.09	3,291.58	757.79	604.15	153.64	4.932			
13,400.00	10,036.00	12,892.37	9,528.86	96.32	99.40	47.57	-358.26	3,307.21	756.16	601.82	154.35	4.899			
13,481.46	10,036.00	12,955.44	9,533.83	98.31	100.94	47.74	-355.47	3,370.02	749.79	592.26	157.53	4.760			
13,500.00	10,036.00	12,974.00	9,535.05	98.76	101.39	47.78	-354.82	3,388.52	748.63	590.34	158.29	4.729			
13,580.08	10,036.00	13,030.68	9,538.02	100.72	102.79	47.90	-353.33	3,445.11	744.78	583.52	161.26	4.619			
13,600.00	10,036.00	13,045.82	9,538.61	101.21	103.16	47.93	-353.06	3,460.23	744.14	582.16	161.99	4.594			
13,679.11	10,036.00	13,109.96	9,540.26	103.15	104.74	48.02	-352.38	3,524.34	742.76	577.87	164.89	4.505			
13,700.00	10,036.00	13,127.56	9,540.49	103.66	105.17	48.04	-352.26	3,541.94	742.63	576.99	165.64	4.483			
13,779.21	10,036.00	13,210.35	9,541.06	105.61	107.22	48.10	-351.83	3,624.73	742.58	573.83	168.75	4.401			
13,800.00	10,036.00	13,237.13	9,541.62	106.12	107.88	48.13	-351.59	3,651.50	742.31	572.64	169.68	4.375			
13,880.53	10,036.00	13,333.43	9,544.98	108.11	110.26	48.29	-349.92	3,747.72	740.01	566.82	173.19	4.273			
13,900.00	10,036.00	13,356.78	9,545.94	108.59	110.84	48.32	-349.27	3,771.05	739.22	565.19	174.03	4.248			
13,981.86	10,036.00	13,448.00	9,551.07	110.62	113.10	48.46	-345.18	3,862.03	733.92	556.47	177.45	4.136			
14,000.00	10,036.00	13,474.36	9,552.83	111.07	113.76	48.51	-343.82	3,888.29	732.45	554.16	178.28	4.108			
14,080.10	10,036.00	13,543.00	9,556.62	113.06	115.49	48.68	-342.12	3,956.80	728.51	546.88	181.63	4.011			
14,100.00	10,036.00	13,543.00	9,556.62	113.55	115.49	48.68	-342.12	3,956.80	727.75	545.55	182.20	3.994			
14,179.58	10,036.00	13,615.49	9,559.36	115.54	117.31	48.86	-341.74	4,029.24	726.08	540.54	185.53	3.913			
14,200.00	10,036.00	13,638.00	9,559.94	116.05	117.87	48.90	-341.62	4,051.74	725.82	539.39	186.43	3.893			
14,231.82	10,036.00	13,656.81	9,560.28	116.84	118.35	48.93	-341.59	4,070.54	725.60	538.09	187.51	3.870			
14,300.00	10,036.00	13,704.36	9,560.38	118.54	119.54	48.99	-342.09	4,118.09	726.58	536.74	189.84	3.827			
14,323.10	10,036.00	13,732.00	9,559.94	119.12	120.23	49.01	-342.77	4,145.72	727.48	536.60	190.89	3.811			
14,400.00	10,036.00	13,819.71	9,560.25	121.04	122.46	49.09	-343.00	4,233.41	727.98	533.68	194.30	3.747			
14,446.31	10,036.00	13,871.49	9,560.93	122.21	123.77	49.12	-342.24	4,285.17	727.35	531.05	196.30	3.705			
14,500.00	10,036.00	13,921.00	9,560.11	123.55	125.03	49.09	-342.12	4,334.67	728.19	529.92	198.26	3.673			
14,522.06	10,036.00	13,923.10	9,560.04	124.11	125.08	49.08	-342.13	4,336.77	728.65	529.96	198.68	3.667			
14,600.00	10,036.00	14,011.18	9,558.10	126.06	127.30	49.04	-342.59	4,424.82	730.69	528.85	201.84	3.620			
14,679.09	10,036.00	14,109.56	9,559.12	128.06	129.78	49.19	-343.27	4,523.19	731.18	525.58	205.61	3.556			
14,700.00	10,036.00	14,127.22	9,559.68	128.58	130.22	49.24	-343.45	4,540.84	731.08	524.59	206.49	3.540			
14,722.81	10,036.00	14,146.32	9,560.21	129.16	130.71	49.29	-343.71	4,559.93	731.08	523.62	207.45	3.524			
14,800.00	10,036.00	14,216.63	9,561.66	131.10	132.48	49.49	-345.23	4,630.21	731.89	521.07	210.83	3.472			
14,880.93	10,036.00	14,337.18	9,567.18	133.15	135.54	49.95	-346.50	4,750.61	730.84	515.17	215.67	3.389			
14,900.00	10,036.00	14,367.91	9,569.58	133.63	136.31	50.10	-346.20	4,781.24	729.88	513.04	216.84	3.366			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		225-MWD+IGRF						Rule Assigned:				Offset Well Error:	0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,981.79	10,036.00	14,455.47	9,577.47	135.70	138.53	50.52	-344.21	4,868.42	724.35	503.20	221.15	3.275		
15,000.00	10,036.00	14,472.67	9,578.89	136.16	138.96	50.60	-343.75	4,885.56	723.17	501.11	222.06	3.257		
15,080.29	10,036.00	14,531.42	9,582.79	138.19	140.45	50.79	-342.34	4,944.16	719.00	493.32	225.68	3.186		
15,100.00	10,036.00	14,544.90	9,583.34	138.69	140.79	50.82	-342.12	4,957.63	718.40	491.91	226.49	3.172		
15,178.92	10,036.00	14,607.58	9,584.28	140.70	142.38	50.88	-341.46	5,020.29	717.56	487.96	229.59	3.125		
15,200.00	10,036.00	14,628.97	9,584.28	141.23	142.92	50.88	-341.13	5,041.67	717.48	487.04	230.43	3.114		
15,279.52	10,036.00	14,716.98	9,583.42	143.25	145.16	50.75	-338.72	5,129.65	716.94	483.53	233.41	3.072		
15,300.00	10,036.00	14,742.28	9,583.24	143.77	145.80	50.70	-337.69	5,154.92	716.55	482.40	234.15	3.060		
15,379.85	10,036.00	14,822.54	9,582.98	145.80	147.83	50.53	-333.90	5,235.10	714.44	477.55	236.89	3.016		
15,400.00	10,036.00	14,840.90	9,582.88	146.31	148.30	50.49	-333.11	5,253.44	714.00	476.42	237.57	3.005		
15,481.03	10,036.00	14,944.73	9,583.89	148.38	150.93	50.38	-328.68	5,357.16	711.60	470.95	240.65	2.957		
15,500.00	10,036.00	14,972.38	9,585.09	148.86	151.63	50.40	-327.28	5,384.75	710.49	469.04	241.45	2.943		
15,598.33	10,036.00	15,023.58	9,586.20	151.37	152.95	50.45	-326.35	5,435.92	707.98	462.79	245.19	2.888		
15,600.00	10,036.00	15,024.58	9,586.21	151.41	152.98	50.45	-326.35	5,436.93	707.98	462.74	245.25	2.887		
15,627.53	10,036.00	15,054.00	9,586.28	152.11	153.73	50.49	-326.73	5,466.35	708.46	461.95	246.51	2.874		
15,700.00	10,036.00	15,096.11	9,585.94	153.96	154.82	50.56	-328.00	5,508.43	710.64	461.74	248.90	2.855		
15,721.15	10,036.00	15,113.54	9,585.74	154.50	155.27	50.59	-328.68	5,525.85	711.60	461.87	249.73	2.849		
15,800.00	10,036.00	15,195.24	9,584.67	156.52	157.38	50.76	-332.44	5,607.46	715.71	462.21	253.50	2.823		
15,822.35	10,036.00	15,223.80	9,584.63	157.09	158.11	50.83	-333.56	5,635.99	716.59	461.80	254.79	2.812		
15,900.00	10,036.00	15,308.22	9,584.97	159.07	160.27	51.02	-336.08	5,720.37	718.80	460.13	258.67	2.779		
15,922.37	10,036.00	15,331.53	9,584.97	159.64	160.87	51.06	-336.59	5,743.68	719.36	459.65	259.71	2.770		
16,000.00	10,036.00	15,410.16	9,585.08	161.63	162.88	51.19	-338.25	5,822.29	721.20	457.92	263.27	2.739		
16,080.12	10,036.00	15,538.75	9,589.47	163.68	166.18	51.59	-339.62	5,950.76	721.07	452.64	268.42	2.686		
16,100.00	10,036.00	15,548.15	9,589.96	164.19	166.42	51.63	-339.61	5,960.15	720.44	451.15	269.29	2.675		
16,179.17	10,036.00	15,610.14	9,592.48	166.22	168.01	51.82	-339.58	6,022.09	719.06	446.13	272.93	2.635		
16,200.00	10,036.00	15,631.25	9,592.95	166.76	168.55	51.86	-339.63	6,043.19	718.99	445.06	273.93	2.625		
16,280.89	10,036.00	15,737.61	9,598.55	168.83	171.28	52.21	-338.59	6,149.38	716.18	437.59	278.59	2.571		
16,300.00	10,036.00	15,752.07	9,599.59	169.32	171.65	52.28	-338.55	6,163.81	715.46	435.87	279.59	2.559		
16,379.25	10,036.00	15,812.00	9,603.87	171.36	173.20	52.64	-339.63	6,223.57	713.78	429.97	283.80	2.515		
16,400.00	10,036.00	15,829.45	9,605.06	171.89	173.65	52.75	-340.24	6,240.97	713.67	428.70	284.97	2.504		
16,422.70	10,036.00	15,848.56	9,606.22	172.47	174.14	52.87	-340.91	6,260.03	713.66	427.44	286.22	2.493		
16,500.00	10,036.00	15,914.54	9,609.08	174.46	175.84	53.20	-343.28	6,325.90	714.50	424.25	290.25	2.462		
16,522.37	10,036.00	15,935.79	9,609.53	175.03	176.39	53.27	-343.91	6,347.14	714.93	423.55	291.38	2.454		
16,600.00	10,036.00	16,015.01	9,608.65	177.03	178.43	53.29	-344.62	6,426.34	716.65	421.90	294.75	2.431		
16,680.20	10,036.00	16,126.89	9,607.56	179.09	181.32	53.11	-341.22	6,538.15	715.65	417.59	298.06	2.401		
16,700.00	10,036.00	16,146.63	9,607.52	179.60	181.82	53.07	-340.34	6,557.87	715.12	416.35	298.77	2.394		
16,780.17	10,036.00	16,229.71	9,607.18	181.67	183.95	52.90	-336.39	6,640.86	712.95	411.37	301.57	2.364		
16,800.00	10,036.00	16,251.39	9,607.13	182.18	184.51	52.86	-335.26	6,662.51	712.32	410.07	302.25	2.357		
16,880.61	10,036.00	16,336.75	9,607.43	184.25	186.70	52.69	-330.61	6,747.74	709.31	404.24	305.07	2.325		
16,900.00	10,036.00	16,356.79	9,607.77	184.75	187.21	52.68	-329.65	6,767.75	708.53	402.70	305.82	2.317		
16,980.10	10,036.00	16,427.84	9,609.50	186.82	189.03	52.69	-326.90	6,838.73	705.56	396.39	309.17	2.282		
17,000.00	10,036.00	16,444.15	9,609.83	187.33	189.45	52.70	-326.46	6,855.03	705.05	395.05	310.00	2.274		
17,079.53	10,036.00	16,518.94	9,610.97	189.38	191.38	52.74	-325.05	6,929.80	703.77	390.34	313.42	2.245		
17,100.00	10,036.00	16,540.70	9,611.29	189.91	191.94	52.75	-324.61	6,951.55	703.41	389.09	314.33	2.238		
17,180.29	10,036.00	16,630.20	9,613.03	191.98	194.25	52.80	-322.34	7,041.01	701.52	383.62	317.90	2.207		
17,200.00	10,036.00	16,652.76	9,613.70	192.49	194.83	52.82	-321.68	7,063.55	700.87	382.05	318.81	2.198		
17,280.69	10,036.00	16,736.30	9,617.22	194.57	196.98	52.98	-319.46	7,146.98	697.77	375.01	322.76	2.162		
17,300.00	10,036.00	16,755.90	9,618.30	195.07	197.48	53.04	-319.10	7,166.55	697.01	373.21	323.80	2.153		
17,387.11	10,036.00	16,815.32	9,621.21	197.32	199.02	53.26	-319.03	7,225.89	695.15	367.14	328.01	2.119		
17,400.00	10,036.00	16,823.80	9,621.51	197.65	199.24	53.30	-319.20	7,234.36	695.19	366.60	328.58	2.116		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 201H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 225-MWD+IGRF													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,421.27	10,036.00	16,837.79	9,621.93	198.20	199.60	53.35	-319.57	7,248.34	695.43	365.93	329.51	2.111	
17,500.00	10,036.00	16,892.10	9,622.74	200.24	201.02	53.55	-322.00	7,302.59	698.19	365.42	332.77	2.098	
17,519.65	10,036.00	16,905.99	9,622.73	200.74	201.38	53.59	-322.81	7,316.45	699.29	365.76	333.53	2.097	
17,600.00	10,036.00	16,977.48	9,621.37	202.82	203.24	53.78	-327.77	7,387.75	705.28	368.06	337.21	2.091	
17,681.22	10,036.00	17,141.00	9,620.62	204.92	207.52	53.83	-328.11	7,551.09	706.18	363.31	342.87	2.060	
17,700.00	10,036.00	17,167.93	9,622.42	205.41	208.22	53.91	-326.98	7,577.94	704.83	360.91	343.92	2.049	
17,779.59	10,036.00	17,235.00	9,625.30	207.47	209.96	54.07	-325.73	7,644.93	702.11	354.09	348.02	2.017	
17,800.00	10,036.00	17,235.00	9,625.30	208.00	209.96	54.07	-325.73	7,644.93	701.64	352.88	348.76	2.012	
17,879.30	10,036.00	17,316.78	9,627.62	210.05	212.08	54.25	-325.53	7,726.68	700.82	347.96	352.86	1.986	
17,900.00	10,036.00	17,331.00	9,628.06	210.58	212.45	54.29	-325.48	7,740.89	700.60	346.81	353.79	1.980	
17,960.29	10,036.00	17,389.30	9,629.61	212.14	213.96	54.42	-325.53	7,799.17	700.22	343.39	356.83	1.962	
18,000.00	10,036.00	17,425.00	9,630.28	213.17	214.88	54.50	-325.81	7,834.86	700.37	341.64	358.73	1.952	
18,031.79	10,036.00	17,443.65	9,630.43	214.00	215.37	54.53	-326.10	7,853.51	700.87	340.97	359.90	1.947	
18,100.00	10,036.00	17,485.53	9,629.76	215.76	216.45	54.57	-327.41	7,895.36	703.82	341.84	361.98	1.944	
18,200.00	10,036.00	17,601.22	9,624.75	218.35	219.47	54.54	-332.58	8,010.81	711.12	344.27	366.85	1.938	
18,221.23	10,036.00	17,626.81	9,624.28	218.90	220.13	54.54	-333.03	8,036.39	711.82	343.89	367.93	1.935	
18,300.00	10,036.00	17,693.01	9,622.04	220.95	221.85	54.48	-334.18	8,102.55	715.14	344.53	370.61	1.930	
18,323.86	10,036.00	17,716.68	9,620.82	221.57	222.46	54.43	-334.62	8,126.18	716.41	344.97	371.44	1.929	
18,400.00	10,036.00	17,855.30	9,616.76	223.54	226.06	54.09	-331.49	8,264.66	716.93	342.28	374.65	1.914	
18,482.24	10,036.00	17,962.47	9,619.17	225.67	228.82	53.96	-324.25	8,371.55	711.88	334.49	377.39	1.886	
18,500.00	10,036.00	17,982.02	9,619.86	226.13	229.33	53.94	-322.81	8,391.03	710.60	332.55	378.05	1.880	
18,582.29	10,036.00	18,066.51	9,622.94	228.27	231.50	53.87	-316.28	8,475.22	704.38	323.17	381.21	1.848	
18,600.00	10,036.00	18,084.52	9,623.55	228.73	231.96	53.85	-314.82	8,493.15	703.01	321.15	381.86	1.841	
18,682.11	10,036.00	18,164.17	9,625.76	230.86	234.00	53.71	-308.14	8,572.49	696.79	311.97	384.82	1.811	
18,700.00	10,036.00	18,181.50	9,626.12	231.32	234.45	53.67	-306.64	8,589.75	695.47	310.05	385.42	1.804	
18,732.18	10,036.00	18,218.37	9,626.86	231.92	235.39	53.58	-303.30	8,626.47	693.00	306.88	386.12	1.795	
18,739.05	10,036.00	18,226.31	9,627.03	232.05	235.60	53.56	-302.54	8,634.37	692.45	306.18	386.26	1.793 SF	

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 222H - OH - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0.00 usft
Reference	Offset	Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-30.00	0.00	30.00						
100.00	100.00	100.00	100.00	0.50	0.50	180.00	-30.00	0.00	30.00	29.20	0.80	37.482			
200.00	200.00	200.00	200.00	1.05	1.05	180.00	-30.00	0.00	30.00	28.28	1.72	17.459			
300.00	300.00	300.00	300.00	1.55	1.55	180.00	-30.00	0.00	30.00	27.42	2.58	11.611			
400.00	400.00	400.00	400.00	1.98	1.98	180.00	-30.00	0.00	30.00	26.62	3.38	8.875			
500.00	500.00	500.00	500.00	2.40	2.40	180.00	-30.00	0.00	30.00	25.85	4.15	7.233			
600.00	600.00	600.00	600.00	2.79	2.79	180.00	-30.00	0.00	30.00	25.10	4.90	6.122			
700.00	700.00	700.00	700.00	3.18	3.18	180.00	-30.00	0.00	30.00	24.36	5.64	5.316			
800.00	800.00	800.00	800.00	3.56	3.56	180.00	-30.00	0.00	30.00	23.62	6.38	4.702			
900.00	900.00	900.00	900.00	3.94	3.94	180.00	-30.00	0.00	30.00	22.89	7.11	4.217			
1,000.00	1,000.00	1,000.00	1,000.00	4.32	4.32	180.00	-30.00	0.00	30.00	22.16	7.84	3.825			
1,100.00	1,100.00	1,100.00	1,100.00	4.69	4.69	180.00	-30.00	0.00	30.00	21.43	8.57	3.500			
1,200.00	1,200.00	1,200.00	1,200.00	5.06	5.06	180.00	-30.00	0.00	30.00	20.70	9.30	3.227			
1,300.00	1,300.00	1,300.00	1,300.00	5.43	5.43	180.00	-30.00	0.00	30.00	19.98	10.02	2.993			
1,400.00	1,400.00	1,400.00	1,400.00	5.79	5.79	180.00	-30.00	0.00	30.00	19.25	10.75	2.792			
1,500.00	1,500.00	1,500.00	1,500.00	6.16	6.16	180.00	-30.00	0.00	30.00	18.53	11.47	2.616 CC			
1,600.00	1,599.99	1,599.99	1,599.99	6.47	6.52	-112.31	-30.00	0.00	30.47	18.32	12.15	2.507 ES, SF			
1,700.00	1,699.91	1,699.91	1,699.91	6.78	6.89	-118.76	-30.00	0.00	32.17	19.37	12.80	2.513			
1,800.00	1,799.69	1,799.69	1,799.69	7.10	7.25	-127.93	-30.00	0.00	35.78	22.32	13.46	2.657			
1,900.00	1,899.27	1,899.27	1,899.27	7.48	7.61	-137.73	-30.00	0.00	42.04	27.82	14.21	2.957			
2,000.00	1,998.57	1,998.57	1,998.57	8.00	7.97	-146.49	-30.00	0.00	51.37	36.32	15.05	3.414			
2,100.00	2,097.62	2,096.69	2,096.68	8.33	8.29	-152.38	-31.20	-0.25	64.04	48.33	15.71	4.076			
2,200.00	2,196.65	2,194.55	2,194.47	8.67	8.75	-154.80	-34.85	-1.03	78.65	62.27	16.38	4.801			
2,300.00	2,295.67	2,292.06	2,291.78	9.02	9.21	-155.15	-40.92	-2.32	94.70	77.64	17.06	5.551			
2,400.00	2,394.70	2,389.09	2,388.42	9.39	9.66	-154.31	-49.37	-4.12	112.11	94.37	17.74	6.320			
2,500.00	2,493.73	2,485.53	2,484.22	9.76	10.10	-152.80	-60.14	-6.41	130.95	112.52	18.43	7.106			
2,600.00	2,592.75	2,581.25	2,579.01	10.15	10.53	-150.91	-73.17	-9.18	151.33	132.20	19.13	7.912			
2,700.00	2,691.78	2,676.41	2,672.89	10.54	10.88	-148.84	-88.42	-12.42	173.33	153.51	19.82	8.743			
2,800.00	2,790.81	2,773.60	2,768.60	10.93	11.18	-146.98	-104.93	-15.93	196.15	175.59	20.56	9.541			
2,900.00	2,889.83	2,870.79	2,864.31	11.33	11.49	-145.51	-121.43	-19.43	219.13	197.83	21.30	10.289			
3,000.00	2,988.86	2,967.97	2,960.02	11.73	11.82	-144.31	-137.94	-22.94	242.21	220.17	22.04	10.991			
3,100.00	3,087.89	3,065.16	3,055.73	12.14	12.15	-143.32	-154.45	-26.45	265.38	242.60	22.78	11.648			
3,200.00	3,186.91	3,162.34	3,151.43	12.55	12.48	-142.50	-170.95	-29.96	288.61	265.08	23.53	12.265			
3,300.00	3,285.94	3,259.53	3,247.14	12.96	12.82	-141.79	-187.46	-33.47	311.89	287.61	24.28	12.844			
3,400.00	3,384.97	3,356.72	3,342.85	13.38	13.17	-141.18	-203.97	-36.98	335.21	310.17	25.04	13.388			
3,500.00	3,484.00	3,453.90	3,438.56	13.79	13.52	-140.66	-220.48	-40.49	358.56	332.77	25.80	13.900			
3,600.00	3,583.02	3,551.09	3,534.27	14.21	13.88	-140.19	-236.98	-44.00	381.94	355.38	26.56	14.382			
3,700.00	3,682.05	3,648.27	3,629.98	14.63	14.24	-139.78	-253.49	-47.50	405.33	378.01	27.32	14.837			
3,800.00	3,781.08	3,745.46	3,725.69	15.05	14.61	-139.42	-270.00	-51.01	428.75	400.66	28.08	15.267			
3,900.00	3,880.10	3,842.65	3,821.40	15.47	14.99	-139.09	-286.51	-54.52	452.17	423.32	28.85	15.673			
4,000.00	3,979.13	3,939.83	3,917.11	15.89	15.37	-138.79	-303.01	-58.03	475.62	445.99	29.62	16.057			
4,100.00	4,078.16	4,037.02	4,012.82	16.32	15.76	-138.53	-319.52	-61.54	499.07	468.68	30.39	16.421			
4,200.00	4,177.19	4,134.21	4,108.54	16.73	16.16	-138.32	-336.03	-65.05	522.50	491.35	31.16	16.771			
4,300.00	4,276.44	4,231.66	4,204.50	17.14	16.56	-138.20	-352.58	-68.57	544.71	512.77	31.93	17.057			
4,400.00	4,375.98	4,329.45	4,300.81	17.55	16.97	-137.90	-369.19	-72.10	565.03	532.27	32.76	17.247			
4,500.00	4,475.73	4,427.52	4,397.39	17.95	17.39	-137.45	-385.85	-75.64	583.51	549.93	33.58	17.378			
4,600.00	4,575.63	4,525.80	4,494.18	18.33	17.81	-136.85	-402.54	-79.19	600.18	565.80	34.38	17.456			
4,700.00	4,675.61	4,624.22	4,591.10	18.70	18.24	-136.10	-419.26	-82.74	615.09	579.92	35.17	17.487			
4,800.00	4,775.61	4,722.70	4,688.09	19.01	18.67	-154.84	-435.99	-86.30	628.94	593.07	35.88	17.530			
4,900.00	4,875.61	4,821.18	4,785.07	19.34	19.11	-155.77	-452.71	-89.85	642.94	606.36	36.58	17.575			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 222H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,975.61	4,919.66	4,882.06	19.66	19.54	156.66	-469.44	-93.41	657.11	619.82	37.29	17.623	
5,100.00	5,075.61	5,018.14	4,979.04	19.99	19.99	157.52	-486.17	-96.96	671.42	633.42	37.99	17.673	
5,200.00	5,175.61	5,116.63	5,076.03	20.32	20.43	158.34	-502.90	-100.52	685.87	647.17	38.70	17.724	
5,300.00	5,275.61	5,215.11	5,173.01	20.65	20.88	159.12	-519.62	-104.07	700.45	661.05	39.40	17.778	
5,400.00	5,375.61	5,313.59	5,269.99	20.98	21.32	159.87	-536.35	-107.63	715.16	675.06	40.11	17.832	
5,500.00	5,475.61	5,412.07	5,366.98	21.31	21.77	160.59	-553.08	-111.18	729.99	689.18	40.81	17.888	
5,600.00	5,575.61	5,510.55	5,463.96	21.65	22.23	161.29	-569.81	-114.74	744.92	703.41	41.51	17.944	
5,700.00	5,675.61	5,609.03	5,560.95	21.98	22.68	161.95	-586.53	-118.29	759.96	717.74	42.22	18.000	
5,800.00	5,775.61	5,707.51	5,657.93	22.31	23.13	162.59	-603.26	-121.85	775.10	732.18	42.92	18.057	
5,900.00	5,875.61	5,805.99	5,754.92	22.65	23.59	163.21	-619.99	-125.41	790.33	746.70	43.63	18.114	
6,000.00	5,975.61	5,904.47	5,851.90	22.99	24.05	163.80	-636.71	-128.96	805.64	761.31	44.33	18.172	
6,100.00	6,075.61	6,002.95	5,948.89	23.32	24.51	164.37	-653.44	-132.52	821.04	776.00	45.04	18.229	
6,200.00	6,175.61	6,101.43	6,045.87	23.66	24.96	164.92	-670.17	-136.07	836.51	790.76	45.75	18.286	
6,300.00	6,275.61	6,199.91	6,142.86	24.00	25.42	165.45	-686.90	-139.63	852.06	805.60	46.45	18.343	
6,400.00	6,375.61	6,298.39	6,239.84	24.34	25.89	165.96	-703.62	-143.18	867.67	820.51	47.16	18.399	
6,500.00	6,475.61	6,396.88	6,336.83	24.68	26.35	166.46	-720.35	-146.74	883.35	835.48	47.87	18.455	
6,600.00	6,575.61	6,495.36	6,433.81	25.02	26.81	166.93	-737.08	-150.29	899.09	850.52	48.57	18.510	
6,700.00	6,675.61	6,593.84	6,530.79	25.36	27.27	167.39	-753.81	-153.85	914.89	865.61	49.28	18.565	
6,800.00	6,775.61	6,692.32	6,627.78	25.71	27.74	167.84	-770.53	-157.41	930.75	880.76	49.99	18.620	
6,900.00	6,875.61	6,790.80	6,724.76	26.05	28.20	168.26	-787.26	-160.96	946.66	895.96	50.70	18.673	
7,000.00	6,975.61	6,889.28	6,821.75	26.39	28.67	168.68	-803.99	-164.52	962.62	911.21	51.40	18.727	
7,100.00	7,075.61	6,987.76	6,918.73	26.73	29.13	169.08	-820.72	-168.07	978.63	926.51	52.11	18.779	
7,200.00	7,175.61	7,086.24	7,015.72	27.08	29.60	169.47	-837.44	-171.63	994.68	941.86	52.82	18.831	
7,300.00	7,275.61	7,184.72	7,112.70	27.42	30.06	169.85	-854.17	-175.18	1,010.78	957.24	53.53	18.882	
7,400.00	7,375.61	7,283.20	7,209.69	27.77	30.53	170.21	-870.90	-178.74	1,026.91	972.67	54.24	18.932	
7,500.00	7,475.61	7,381.68	7,306.67	28.11	31.00	170.56	-887.62	-182.29	1,043.09	988.14	54.95	18.982	
7,600.00	7,575.61	7,480.16	7,403.66	28.46	31.46	170.91	-904.35	-185.85	1,059.31	1,003.64	55.66	19.031	
7,700.00	7,675.61	7,578.64	7,500.64	28.81	31.93	171.24	-921.08	-189.40	1,075.56	1,019.18	56.37	19.079	
7,800.00	7,775.61	7,677.13	7,597.63	29.15	32.40	171.56	-937.81	-192.96	1,091.84	1,034.76	57.08	19.127	
7,900.00	7,875.61	7,775.61	7,694.61	29.50	32.87	171.87	-954.53	-196.52	1,108.16	1,050.36	57.80	19.174	
8,000.00	7,975.61	7,874.09	7,791.59	29.85	33.34	172.18	-971.26	-200.07	1,124.51	1,066.00	58.51	19.220	
8,100.00	8,075.61	7,972.57	7,888.58	30.19	33.81	172.47	-987.99	-203.63	1,140.89	1,081.67	59.22	19.265	
8,200.00	8,175.61	8,071.05	7,985.56	30.54	34.28	172.76	-1,004.72	-207.18	1,157.30	1,097.36	59.93	19.310	
8,300.00	8,275.61	8,169.53	8,082.55	30.89	34.75	173.04	-1,021.44	-210.74	1,173.73	1,113.09	60.64	19.354	
8,400.00	8,375.61	8,268.01	8,179.53	31.24	35.22	173.31	-1,038.17	-214.29	1,190.19	1,128.83	61.36	19.397	
8,500.00	8,475.61	8,366.49	8,276.52	31.59	35.69	173.57	-1,054.90	-217.85	1,206.68	1,144.61	62.07	19.440	
8,600.00	8,575.61	8,464.97	8,373.50	31.94	36.16	173.83	-1,071.62	-221.40	1,223.19	1,160.41	62.79	19.482	
8,700.00	8,675.61	8,563.45	8,470.49	32.29	36.63	174.08	-1,088.35	-224.96	1,239.73	1,176.23	63.50	19.523	
8,800.00	8,775.61	8,668.91	8,574.36	32.64	37.13	174.34	-1,106.20	-228.75	1,256.24	1,191.97	64.27	19.566	
8,900.00	8,875.61	8,813.43	8,717.25	32.99	37.79	174.64	-1,127.30	-233.24	1,270.49	1,205.14	65.35	19.443	
9,000.00	8,975.61	8,959.40	8,862.30	33.34	38.39	174.86	-1,143.22	-236.62	1,281.15	1,214.77	66.37	19.302	
9,100.00	9,075.61	9,106.41	9,008.91	33.69	38.95	175.00	-1,153.77	-238.86	1,288.16	1,220.84	67.33	19.133	
9,200.00	9,175.61	9,254.04	9,156.44	34.04	39.44	175.06	-1,158.80	-239.93	1,291.50	1,223.30	68.20	18.938	
9,300.00	9,275.61	9,373.22	9,275.61	34.39	39.79	175.07	-1,159.25	-240.03	1,291.79	1,222.88	68.91	18.745	
9,400.00	9,375.61	9,473.22	9,375.61	34.74	40.06	175.07	-1,159.25	-240.03	1,291.79	1,222.22	69.58	18.566	
9,492.30	9,467.90	9,564.81	9,467.20	35.06	40.32	88.46	-1,159.25	-240.01	1,291.77	1,221.58	70.19	18.405	
9,500.00	9,475.61	9,571.39	9,473.78	35.08	40.34	88.42	-1,159.25	-239.93	1,291.80	1,221.56	70.24	18.392	
9,600.00	9,574.89	9,656.89	9,558.83	35.40	40.67	88.44	-1,159.16	-231.97	1,292.20	1,221.40	70.80	18.250	
9,700.00	9,670.77	9,742.68	9,642.02	35.69	41.05	88.49	-1,158.95	-211.36	1,293.25	1,221.97	71.28	18.142	
9,800.00	9,760.34	9,829.03	9,721.72	35.98	41.38	88.58	-1,158.61	-178.31	1,294.93	1,223.24	71.69	18.063	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 222H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,840.87	9,916.23	9,796.23	36.26	41.67	88.70	-1,158.14	-133.19	1,297.21	1,225.14	72.07	18.000	
10,000.00	9,909.93	10,004.55	9,863.85	36.48	41.92	88.84	-1,157.56	-76.51	1,300.08	1,227.60	72.47	17.938	
10,100.00	9,965.40	10,094.31	9,922.82	36.65	42.11	89.01	-1,156.86	-8.97	1,303.48	1,230.50	72.99	17.860	
10,200.00	10,005.61	10,185.83	9,971.34	36.92	42.27	89.21	-1,156.05	68.51	1,307.37	1,233.70	73.67	17.746	
10,300.00	10,029.34	10,279.43	10,007.58	37.44	42.43	89.43	-1,155.16	154.70	1,311.67	1,237.09	74.57	17.589	
10,400.00	10,036.00	10,375.50	10,029.68	38.08	42.60	89.72	-1,154.20	248.06	1,316.25	1,240.54	75.71	17.385	
10,500.00	10,036.00	10,474.81	10,036.00	38.88	42.86	90.00	-1,153.17	347.06	1,319.41	1,242.25	77.16	17.100	
10,600.00	10,036.00	10,574.81	10,036.00	39.84	43.24	90.00	-1,152.14	447.05	1,320.08	1,241.13	78.95	16.721	
10,700.00	10,036.00	10,674.81	10,036.00	40.93	43.77	90.00	-1,151.10	547.04	1,320.07	1,239.06	81.02	16.294	
10,800.00	10,036.00	10,774.81	10,036.00	42.15	44.49	90.00	-1,150.07	647.04	1,320.07	1,236.70	83.37	15.834	
10,900.00	10,036.00	10,874.81	10,036.00	43.51	45.41	90.00	-1,149.03	747.03	1,320.07	1,234.09	85.98	15.353	
11,000.00	10,036.00	10,974.81	10,036.00	44.97	46.50	90.00	-1,148.00	847.03	1,320.07	1,231.24	88.83	14.861	
11,100.00	10,036.00	11,074.81	10,036.00	46.54	47.76	90.00	-1,146.96	947.02	1,320.07	1,228.18	91.89	14.366	
11,200.00	10,036.00	11,174.81	10,036.00	48.20	49.17	90.00	-1,145.93	1,047.02	1,320.07	1,224.93	95.14	13.875	
11,300.00	10,036.00	11,274.81	10,036.00	49.94	50.69	90.00	-1,144.89	1,147.01	1,320.07	1,221.50	98.56	13.393	
11,400.00	10,036.00	11,374.81	10,036.00	51.76	52.33	90.00	-1,143.86	1,247.01	1,320.06	1,217.92	102.14	12.924	
11,500.00	10,036.00	11,474.81	10,036.00	53.64	54.05	90.00	-1,142.82	1,347.00	1,320.06	1,214.20	105.86	12.469	
11,600.00	10,036.00	11,574.81	10,036.00	55.59	55.86	90.00	-1,141.79	1,447.00	1,320.06	1,210.35	109.71	12.032	
11,700.00	10,036.00	11,674.81	10,036.00	57.59	57.73	90.00	-1,140.75	1,546.99	1,320.06	1,206.39	113.67	11.613	
11,800.00	10,036.00	11,774.81	10,036.00	59.64	59.67	90.00	-1,139.71	1,646.98	1,320.06	1,202.33	117.73	11.212	
11,900.00	10,036.00	11,874.81	10,036.00	61.73	61.66	90.00	-1,138.68	1,746.98	1,320.06	1,198.17	121.89	10.830	
12,000.00	10,036.00	11,974.81	10,036.00	63.86	63.70	90.00	-1,137.64	1,846.97	1,320.06	1,193.93	126.12	10.466	
12,100.00	10,036.00	12,074.81	10,036.00	66.03	65.78	90.00	-1,136.61	1,946.97	1,320.05	1,189.62	130.43	10.120	
12,200.00	10,036.00	12,174.81	10,036.00	68.23	67.91	90.00	-1,135.57	2,046.96	1,320.05	1,185.24	134.81	9.792	
12,300.00	10,036.00	12,274.81	10,036.00	70.46	70.07	90.00	-1,134.54	2,146.96	1,320.05	1,180.80	139.25	9.480	
12,400.00	10,036.00	12,374.81	10,036.00	72.72	72.26	90.00	-1,133.50	2,246.95	1,320.05	1,176.31	143.74	9.183	
12,500.00	10,036.00	12,474.81	10,036.00	75.00	74.48	90.00	-1,132.47	2,346.95	1,320.05	1,171.76	148.29	8.902	
12,600.00	10,036.00	12,574.81	10,036.00	77.30	76.73	90.00	-1,131.43	2,446.94	1,320.05	1,167.17	152.88	8.635	
12,700.00	10,036.00	12,674.81	10,036.00	79.62	79.00	90.00	-1,130.40	2,546.94	1,320.05	1,162.53	157.51	8.381	
12,800.00	10,036.00	12,774.81	10,036.00	81.96	81.29	90.00	-1,129.36	2,646.93	1,320.04	1,157.86	162.18	8.139	
12,900.00	10,036.00	12,874.81	10,036.00	84.32	83.61	90.00	-1,128.33	2,746.93	1,320.04	1,153.16	166.89	7.910	
13,000.00	10,036.00	12,974.81	10,036.00	86.70	85.94	90.00	-1,127.29	2,846.92	1,320.04	1,148.42	171.62	7.691	
13,100.00	10,036.00	13,074.81	10,036.00	89.08	88.29	90.00	-1,126.26	2,946.91	1,320.04	1,143.65	176.39	7.484	
13,200.00	10,036.00	13,174.81	10,036.00	91.49	90.66	90.00	-1,125.22	3,046.91	1,320.04	1,138.85	181.19	7.286	
13,300.00	10,036.00	13,274.81	10,036.00	93.90	93.03	90.00	-1,124.19	3,146.90	1,320.04	1,134.03	186.01	7.097	
13,400.00	10,036.00	13,374.81	10,036.00	96.32	95.43	90.00	-1,123.15	3,246.90	1,320.04	1,129.19	190.85	6.917	
13,500.00	10,036.00	13,474.81	10,036.00	98.76	97.83	90.00	-1,122.12	3,346.89	1,320.03	1,124.32	195.71	6.745	
13,600.00	10,036.00	13,574.81	10,036.00	101.21	100.25	90.00	-1,121.08	3,446.89	1,320.03	1,119.44	200.60	6.581	
13,700.00	10,036.00	13,674.81	10,036.00	103.66	102.68	90.00	-1,120.05	3,546.88	1,320.03	1,114.53	205.50	6.424	
13,800.00	10,036.00	13,774.81	10,036.00	106.12	105.11	90.00	-1,119.01	3,646.88	1,320.03	1,109.61	210.42	6.273	
13,900.00	10,036.00	13,874.81	10,036.00	108.59	107.56	90.00	-1,117.98	3,746.87	1,320.03	1,104.68	215.35	6.130	
14,000.00	10,036.00	13,974.81	10,036.00	111.07	110.01	90.00	-1,116.94	3,846.87	1,320.03	1,099.72	220.30	5.992	
14,100.00	10,036.00	14,074.81	10,036.00	113.55	112.47	90.00	-1,115.91	3,946.86	1,320.03	1,094.76	225.27	5.860	
14,200.00	10,036.00	14,174.81	10,036.00	116.05	114.94	90.00	-1,114.87	4,046.86	1,320.02	1,089.78	230.25	5.733	
14,300.00	10,036.00	14,274.81	10,036.00	118.54	117.42	90.00	-1,113.84	4,146.85	1,320.02	1,084.79	235.23	5.612	
14,400.00	10,036.00	14,374.81	10,036.00	121.04	119.90	90.00	-1,112.80	4,246.85	1,320.02	1,079.79	240.24	5.495	
14,500.00	10,036.00	14,474.81	10,036.00	123.55	122.39	90.00	-1,111.77	4,346.84	1,320.02	1,074.77	245.25	5.382	
14,600.00	10,036.00	14,574.81	10,036.00	126.06	124.89	90.00	-1,110.73	4,446.83	1,320.02	1,069.75	250.27	5.274	
14,700.00	10,036.00	14,674.81	10,036.00	128.58	127.39	90.00	-1,109.70	4,546.83	1,320.02	1,064.72	255.30	5.170	
14,800.00	10,036.00	14,774.81	10,036.00	131.10	129.90	90.00	-1,108.66	4,646.82	1,320.02	1,059.67	260.34	5.070	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Legacy Directional Drilling

Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Joe Hollingsworth Fee - Joe Hollingsworth Fee 222H - OH - Plan 1														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,900.00	10,036.00	14,874.81	10,036.00	133.63	132.41	90.00	-1,107.63	4,746.82	1,320.01	1,054.62	265.39	4.974			
15,000.00	10,036.00	14,974.81	10,036.00	136.16	134.92	90.00	-1,106.59	4,846.81	1,320.01	1,049.57	270.45	4.881			
15,100.00	10,036.00	15,074.81	10,036.00	138.69	137.44	90.00	-1,105.56	4,946.81	1,320.01	1,044.50	275.51	4.791			
15,200.00	10,036.00	15,174.81	10,036.00	141.23	139.96	90.00	-1,104.52	5,046.80	1,320.01	1,039.43	280.58	4.705			
15,300.00	10,036.00	15,274.81	10,036.00	143.77	142.49	90.00	-1,103.49	5,146.80	1,320.01	1,034.35	285.66	4.621			
15,400.00	10,036.00	15,374.81	10,036.00	146.31	145.02	90.00	-1,102.45	5,246.79	1,320.01	1,029.26	290.75	4.540			
15,500.00	10,036.00	15,474.81	10,036.00	148.86	147.56	90.00	-1,101.42	5,346.79	1,320.01	1,024.17	295.84	4.462			
15,600.00	10,036.00	15,574.81	10,036.00	151.41	150.09	90.00	-1,100.38	5,446.78	1,320.00	1,019.07	300.94	4.386			
15,700.00	10,036.00	15,674.81	10,036.00	153.96	152.63	90.00	-1,099.35	5,546.78	1,320.00	1,013.97	306.04	4.313			
15,800.00	10,036.00	15,774.81	10,036.00	156.52	155.18	90.00	-1,098.31	5,646.77	1,320.00	1,008.86	311.14	4.242			
15,900.00	10,036.00	15,874.81	10,036.00	159.07	157.72	90.00	-1,097.28	5,746.76	1,320.00	1,003.74	316.26	4.174			
16,000.00	10,036.00	15,974.81	10,036.00	161.63	160.27	90.00	-1,096.24	5,846.76	1,320.00	998.63	321.37	4.107			
16,100.00	10,036.00	16,074.81	10,036.00	164.19	162.82	90.00	-1,095.21	5,946.75	1,320.00	993.50	326.50	4.043			
16,200.00	10,036.00	16,174.81	10,036.00	166.76	165.38	90.00	-1,094.17	6,046.75	1,320.00	988.38	331.62	3.980			
16,300.00	10,036.00	16,274.81	10,036.00	169.32	167.94	90.00	-1,093.14	6,146.74	1,319.99	983.24	336.75	3.920			
16,400.00	10,036.00	16,374.81	10,036.00	171.89	170.49	90.00	-1,092.10	6,246.74	1,319.99	978.11	341.88	3.861			
16,500.00	10,036.00	16,474.81	10,036.00	174.46	173.05	90.00	-1,091.07	6,346.73	1,319.99	972.97	347.02	3.804			
16,600.00	10,036.00	16,574.81	10,036.00	177.03	175.62	90.00	-1,090.03	6,446.73	1,319.99	967.83	352.16	3.748			
16,700.00	10,036.00	16,674.81	10,036.00	179.60	178.18	90.00	-1,089.00	6,546.72	1,319.99	962.68	357.31	3.694			
16,800.00	10,036.00	16,774.81	10,036.00	182.18	180.75	90.00	-1,087.96	6,646.72	1,319.99	957.53	362.46	3.642			
16,900.00	10,036.00	16,874.81	10,036.00	184.75	183.32	90.00	-1,086.93	6,746.71	1,319.99	952.38	367.61	3.591			
17,000.00	10,036.00	16,974.81	10,036.00	187.33	185.89	90.00	-1,085.89	6,846.71	1,319.98	947.23	372.76	3.541			
17,100.00	10,036.00	17,074.81	10,036.00	189.91	188.46	90.00	-1,084.86	6,946.70	1,319.98	942.07	377.92	3.493			
17,200.00	10,036.00	17,174.81	10,036.00	192.49	191.03	90.00	-1,083.82	7,046.70	1,319.98	936.91	383.08	3.446			
17,300.00	10,036.00	17,274.81	10,036.00	195.07	193.61	90.00	-1,082.79	7,146.69	1,319.98	931.74	388.24	3.400			
17,400.00	10,036.00	17,374.81	10,036.00	197.65	196.18	90.00	-1,081.75	7,246.68	1,319.98	926.58	393.40	3.355			
17,500.00	10,036.00	17,474.81	10,036.00	200.24	198.76	90.00	-1,080.71	7,346.68	1,319.98	921.41	398.57	3.312			
17,600.00	10,036.00	17,574.81	10,036.00	202.82	201.34	90.00	-1,079.68	7,446.67	1,319.98	916.24	403.74	3.269			
17,700.00	10,036.00	17,674.81	10,036.00	205.41	203.92	90.00	-1,078.64	7,546.67	1,319.98	911.06	408.91	3.228			
17,800.00	10,036.00	17,774.81	10,036.00	208.00	206.50	90.00	-1,077.61	7,646.66	1,319.97	905.89	414.09	3.188			
17,900.00	10,036.00	17,874.81	10,036.00	210.58	209.08	90.00	-1,076.57	7,746.66	1,319.97	900.71	419.26	3.148			
18,000.00	10,036.00	17,974.81	10,036.00	213.17	211.67	90.00	-1,075.54	7,846.65	1,319.97	895.53	424.44	3.110			
18,100.00	10,036.00	18,074.81	10,036.00	215.76	214.25	90.00	-1,074.50	7,946.65	1,319.97	890.35	429.62	3.072			
18,200.00	10,036.00	18,174.81	10,036.00	218.35	216.84	90.00	-1,073.47	8,046.64	1,319.97	885.17	434.80	3.036			
18,300.00	10,036.00	18,274.81	10,036.00	220.95	219.43	90.00	-1,072.43	8,146.64	1,319.97	879.98	439.99	3.000			
18,400.00	10,036.00	18,374.81	10,036.00	223.54	222.01	90.00	-1,071.40	8,246.63	1,319.97	874.79	445.17	2.965			
18,500.00	10,036.00	18,474.81	10,036.00	226.13	224.60	90.00	-1,070.36	8,346.63	1,319.96	869.61	450.36	2.931			
18,600.00	10,036.00	18,574.81	10,036.00	228.73	227.19	90.00	-1,069.33	8,446.62	1,319.96	864.42	455.55	2.898			
18,700.00	10,036.00	18,674.81	10,036.00	231.32	229.78	90.00	-1,068.29	8,546.62	1,319.96	859.22	460.74	2.865			
18,727.06	10,036.00	18,701.86	10,036.00	231.83	230.48	90.00	-1,068.01	8,573.67	1,319.96	858.02	461.94	2.857			
18,739.05	10,036.00	18,703.19	10,036.00	232.05	230.52	90.00	-1,068.00	8,575.00	1,320.00	857.73	462.27	2.855			

Legacy Directional Drilling

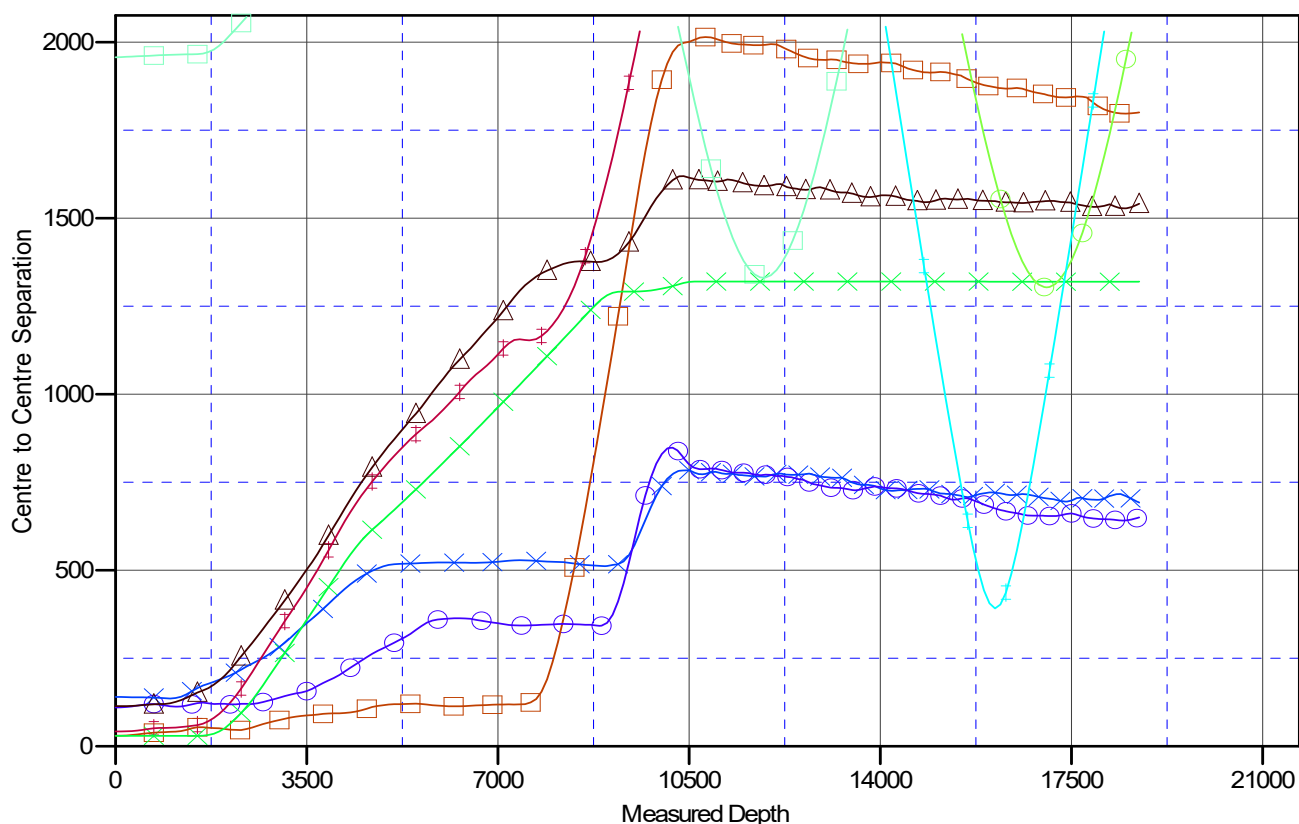
Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 3072 +28.5' KB @ 3100.50usft (Pa
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Joe Hollingsworth Fee 221H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300
Grid Convergence at Surface is: 0.13°

Ladder Plot



LEGEND

Blue X	Jbe Hollingsworth Fee 201H, OH, OH V0	Purple Circle	Jbe Hollingsworth Fee 135H, OH, OH V0	Green Circle	Bg Che#1, OH, OH V0
Red Square	Jbe Hollingsworth Fee 122H, OH, OH V0	Green Cross	Jbe Hollingsworth Fee 222H, OH, OH V0	Cyan Circle	Bg Che#10, OH, OH V0
Orange Square	Jbe Hollingsworth Fee 121H, OH, OH V0	Brown Triangle	Jbe Hollingsworth Fee 136H, OH, OH V0	Light Green Circle	Bg Che#6, OH, OH V0

Legacy Directional Drilling

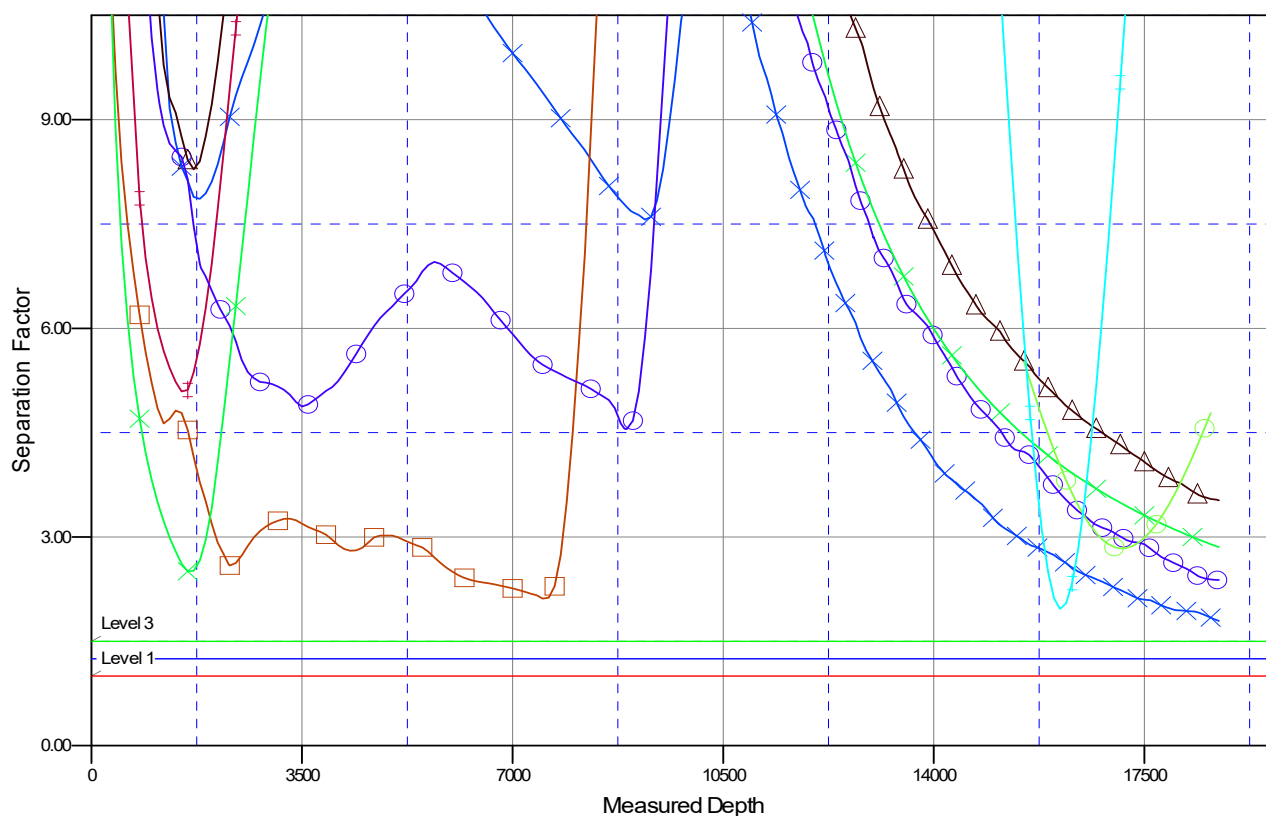
Anticollision Report

Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Reference Site:	Joe Hollingsworth Fee	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM5000
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 3072 +28.5' KB @ 3100.50usft (Pa
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Joe Hollingsworth Fee 221H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300
Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

Joe Hollingsworth Fee 201H, OH, OH V0	Joe Hollingsworth Fee 135H, OH, OH V0	Big Chalk #1, OH, OH V0
Joe Hollingsworth Fee 122H, OH, OH V0	Joe Hollingsworth Fee 222H, OH, Plan 1 V0	Big Chalk #10, OH, OH V0
Joe Hollingsworth Fee 121H, OH, OH V0	Joe Hollingsworth Fee 136H, OH, OH V0	Big Chalk #6, OH, OH V0

Matador Resources Company

Eddy County, New Mexico (NAD27)

Joe Hollingsworth Fee

Joe Hollingsworth Fee 221H

OH

Plan: Plan 1

Standard Planning Report

13 January, 2023

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Eddy County, New Mexico (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	Joe Hollingsworth Fee		
Site Position:		Northing:	503,129.00 usft
From:	Map	Easting:	572,185.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.383000
		Longitude:	-104.099498

Well	Joe Hollingsworth Fee 221H					
Well Position	+N/-S	0.00 usft	Northing:	503,129.00 usft	Latitude:	32.383000
	+E/-W	0.00 usft	Easting:	572,185.00 usft	Longitude:	-104.099498
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,072.00 usft
Grid Convergence:		0.13 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/12/2023	6.62	59.92	47,372.19569808

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	89.41

Plan Survey Tool Program	Date	1/13/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,738.52 Plan 1 (OH)	MWD+IGRF	
			OWSG MWD + IGRF or WMM	

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,033.33	8.00	290.00	2,031.60	12.71	-34.93	1.50	1.50	0.00	290.00	
4,183.33	8.00	290.00	4,160.68	115.05	-316.11	0.00	0.00	0.00	0.00	
4,716.67	0.00	0.00	4,692.28	127.77	-351.04	1.50	-1.50	0.00	180.00	
9,487.43	0.00	0.00	9,463.04	127.77	-351.04	0.00	0.00	0.00	0.00	
10,387.43	90.00	86.65	10,036.00	161.25	220.94	10.00	10.00	0.00	86.65	
10,571.28	90.00	89.41	10,036.00	167.57	404.66	1.50	0.00	1.50	90.00	
18,739.05	90.00	89.41	10,036.00	252.00	8,572.00	0.00	0.00	0.00	0.00	LPP/BHL - Joe Holling

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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	
176.00	0.00	0.00	176.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler										
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	
Salado - 13 3/8"										
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	
974.00	0.00	0.00	974.00	0.00	0.00	0.00	0.00	0.00	0.00	
Castile (T)										
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Nudge Build 1.50										
1,600.00	1.50	290.00	1,599.99	0.45	-1.23	-1.23	1.50	1.50	0.00	
1,700.00	3.00	290.00	1,699.91	1.79	-4.92	-4.90	1.50	1.50	0.00	
1,800.00	4.50	290.00	1,799.69	4.03	-11.06	-11.02	1.50	1.50	0.00	
1,900.00	6.00	290.00	1,899.27	7.16	-19.66	-19.59	1.50	1.50	0.00	
2,000.00	7.50	290.00	1,998.57	11.18	-30.71	-30.59	1.50	1.50	0.00	
2,033.33	8.00	290.00	2,031.60	12.71	-34.93	-34.80	1.50	1.50	0.00	
8.00° at 2033.33 MD										
2,100.00	8.00	290.00	2,097.62	15.89	-43.65	-43.48	0.00	0.00	0.00	
2,200.00	8.00	290.00	2,196.65	20.65	-56.73	-56.51	0.00	0.00	0.00	
2,300.00	8.00	290.00	2,295.67	25.41	-69.81	-69.54	0.00	0.00	0.00	
2,400.00	8.00	290.00	2,394.70	30.17	-82.88	-82.57	0.00	0.00	0.00	
2,500.00	8.00	290.00	2,493.73	34.93	-95.96	-95.60	0.00	0.00	0.00	
2,527.54	8.00	290.00	2,521.00	36.24	-99.56	-99.19	0.00	0.00	0.00	
G30:CS14-CSB										
2,600.00	8.00	290.00	2,592.75	39.69	-109.04	-108.63	0.00	0.00	0.00	
2,606.31	8.00	290.00	2,599.00	39.99	-109.86	-109.45	0.00	0.00	0.00	
G26: Bell Cyn.										
2,700.00	8.00	290.00	2,691.78	44.45	-122.12	-121.65	0.00	0.00	0.00	
2,800.00	8.00	290.00	2,790.81	49.21	-135.20	-134.68	0.00	0.00	0.00	
2,900.00	8.00	290.00	2,889.83	53.97	-148.27	-147.71	0.00	0.00	0.00	
3,000.00	8.00	290.00	2,988.86	58.73	-161.35	-160.74	0.00	0.00	0.00	
3,100.00	8.00	290.00	3,087.89	63.49	-174.43	-173.77	0.00	0.00	0.00	
3,200.00	8.00	290.00	3,186.91	68.25	-187.51	-186.80	0.00	0.00	0.00	
3,300.00	8.00	290.00	3,285.94	73.01	-200.59	-199.82	0.00	0.00	0.00	
3,400.00	8.00	290.00	3,384.97	77.77	-213.66	-212.85	0.00	0.00	0.00	
3,406.09	8.00	290.00	3,391.00	78.06	-214.46	-213.65	0.00	0.00	0.00	
G13: Cherry Cyn.										
3,500.00	8.00	290.00	3,484.00	82.53	-226.74	-225.88	0.00	0.00	0.00	
3,600.00	8.00	290.00	3,583.02	87.29	-239.82	-238.91	0.00	0.00	0.00	

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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)	
3,700.00	8.00	290.00	3,682.05	92.05	-252.90	-251.94	0.00	0.00	0.00	
3,800.00	8.00	290.00	3,781.08	96.81	-265.98	-264.97	0.00	0.00	0.00	
3,900.00	8.00	290.00	3,880.10	101.57	-279.05	-277.99	0.00	0.00	0.00	
4,000.00	8.00	290.00	3,979.13	106.33	-292.13	-291.02	0.00	0.00	0.00	
4,100.00	8.00	290.00	4,078.16	111.09	-305.21	-304.05	0.00	0.00	0.00	
4,183.33	8.00	290.00	4,160.68	115.05	-316.11	-314.91	0.00	0.00	0.00	
Start Drop -1.50										
4,200.00	7.75	290.00	4,177.19	115.84	-318.25	-317.04	1.50	-1.50	0.00	
4,300.00	6.25	290.00	4,276.44	120.00	-329.71	-328.45	1.50	-1.50	0.00	
4,400.00	4.75	290.00	4,375.98	123.28	-338.71	-337.42	1.50	-1.50	0.00	
4,500.00	3.25	290.00	4,475.73	125.67	-345.27	-343.95	1.50	-1.50	0.00	
4,600.00	1.75	290.00	4,575.63	127.16	-349.37	-348.04	1.50	-1.50	0.00	
4,629.38	1.31	290.00	4,605.00	127.43	-350.10	-348.77	1.50	-1.50	0.00	
G7: Brushy Cyn.										
4,700.00	0.25	290.00	4,675.61	127.76	-351.01	-349.67	1.50	-1.50	0.00	
4,716.67	0.00	0.00	4,692.28	127.77	-351.04	-349.71	1.50	-1.50	0.00	
Vertical at 4716.67 MD										
4,800.00	0.00	0.00	4,775.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,875.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,975.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,075.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,175.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,275.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,375.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,475.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,575.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,675.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,775.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,875.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,975.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,023.39	0.00	0.00	5,999.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
G4: BSGL (CS9)										
6,100.00	0.00	0.00	6,075.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,175.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,275.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,389.39	0.00	0.00	6,365.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L8.2: U. Avalon Shale										
6,400.00	0.00	0.00	6,375.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,475.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,511.39	0.00	0.00	6,487.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L6.3: Avalon Carb										
6,600.00	0.00	0.00	6,575.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,605.39	0.00	0.00	6,581.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L6.2: L. Avalon Shale										
6,689.39	0.00	0.00	6,665.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L5.3: FBSC										
6,700.00	0.00	0.00	6,675.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,775.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,875.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,975.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,058.39	0.00	0.00	7,034.00	127.77	-351.04	-349.71	0.00	0.00	0.00	

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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)	
L5.1: FBSG										
7,100.00	0.00	0.00	7,075.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,114.39	0.00	0.00	7,090.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
M. FBSG										
7,200.00	0.00	0.00	7,175.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,267.39	0.00	0.00	7,243.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L. FBSG										
7,300.00	0.00	0.00	7,275.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,325.39	0.00	0.00	7,301.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L4.3: SBSG										
7,400.00	0.00	0.00	7,375.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,475.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,575.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,675.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,775.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,810.39	0.00	0.00	7,786.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L4.1: SBSG										
7,900.00	0.00	0.00	7,875.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
7,934.39	0.00	0.00	7,910.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L4.1: SBSG B Carb										
8,000.00	0.00	0.00	7,975.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,018.39	0.00	0.00	7,994.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
SBSG B Target										
8,100.00	0.00	0.00	8,075.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,106.39	0.00	0.00	8,082.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L4.1: SBSG C										
8,152.39	0.00	0.00	8,128.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L3.3: TBSC										
8,200.00	0.00	0.00	8,175.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,275.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,375.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,475.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,542.39	0.00	0.00	8,518.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L3.3.2: Break Sand (T)										
8,600.00	0.00	0.00	8,575.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,675.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,775.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,875.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,975.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
9,055.39	0.00	0.00	9,031.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L3.1: TBSC										
9,100.00	0.00	0.00	9,075.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,175.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,275.61	127.77	-351.04	-349.71	0.00	0.00	0.00	
9,337.39	0.00	0.00	9,313.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L. TBSC										
9,376.39	0.00	0.00	9,352.00	127.77	-351.04	-349.71	0.00	0.00	0.00	
L2: WFMP A										
9,387.43	0.00	0.00	9,363.04	127.77	-351.04	-349.71	0.00	0.00	0.00	
7 5/8"										
9,400.00	0.00	0.00	9,375.61	127.77	-351.04	-349.71	0.00	0.00	0.00	

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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)
9,487.43	0.00	0.00	9,463.04	127.77	-351.04	-349.71	0.00	0.00	0.00
KOP Start Build 10.00									
9,500.00	1.26	86.65	9,475.61	127.78	-350.90	-349.57	10.00	10.00	0.00
9,518.40	3.10	86.65	9,494.00	127.82	-350.20	-348.87	10.00	10.00	0.00
WFMP A Fat									
9,550.00	6.26	86.65	9,525.49	127.97	-347.63	-346.30	10.00	10.00	0.00
9,600.00	11.26	86.65	9,574.89	128.41	-340.03	-338.69	10.00	10.00	0.00
9,650.00	16.26	86.65	9,623.44	129.11	-328.17	-326.82	10.00	10.00	0.00
9,700.00	21.26	86.65	9,670.77	130.05	-312.12	-310.77	10.00	10.00	0.00
9,750.00	26.26	86.65	9,716.52	131.22	-292.02	-290.65	10.00	10.00	0.00
9,800.00	31.26	86.65	9,760.34	132.63	-268.01	-266.63	10.00	10.00	0.00
9,801.95	31.45	86.65	9,762.00	132.69	-267.00	-265.62	10.00	10.00	0.00
WFMP B									
9,850.00	36.26	86.65	9,801.90	134.25	-240.29	-238.89	10.00	10.00	0.00
9,900.00	41.26	86.65	9,840.87	136.08	-209.05	-207.64	10.00	10.00	0.00
9,950.00	46.26	86.65	9,876.98	138.10	-174.54	-173.11	10.00	10.00	0.00
9,961.73	47.43	86.65	9,885.00	138.60	-165.99	-164.56	10.00	10.00	0.00
WFMP B.1									
10,000.00	51.26	86.65	9,909.93	140.30	-137.02	-135.57	10.00	10.00	0.00
10,050.00	56.26	86.65	9,939.48	142.65	-96.77	-95.30	10.00	10.00	0.00
10,100.00	61.26	86.65	9,965.40	145.15	-54.11	-52.61	10.00	10.00	0.00
10,114.35	62.69	86.65	9,972.14	145.89	-41.47	-39.96	10.00	10.00	0.00
FPP - Joe Hollingsworth Fee 221H									
10,150.00	66.26	86.65	9,987.50	147.77	-9.36	-7.83	10.00	10.00	0.00
10,172.07	68.46	86.65	9,996.00	148.96	10.98	12.51	10.00	10.00	0.00
WFMP B.2									
10,200.00	71.26	86.65	10,005.61	150.49	37.15	38.70	10.00	10.00	0.00
10,250.00	76.26	86.65	10,019.60	153.30	85.06	86.63	10.00	10.00	0.00
10,300.00	81.26	86.65	10,029.34	156.16	134.00	135.60	10.00	10.00	0.00
10,350.00	86.26	86.65	10,034.78	159.06	183.60	185.23	10.00	10.00	0.00
10,387.43	90.00	86.65	10,036.00	161.25	220.94	222.59	10.00	10.00	0.00
Start DLS 1.50 TFO 90.00									
10,400.00	90.00	86.84	10,036.00	161.96	233.49	235.15	1.50	0.00	1.50
10,500.00	90.00	88.34	10,036.00	166.17	333.40	335.09	1.50	0.00	1.50
10,571.28	90.00	89.41	10,036.00	167.57	404.66	406.37	1.50	0.00	1.50
LP 90.00° at 10571.28 MD									
10,600.00	90.00	89.41	10,036.00	167.87	433.38	435.09	0.00	0.00	0.00
10,700.00	90.00	89.41	10,036.00	168.90	533.38	535.09	0.00	0.00	0.00
10,800.00	90.00	89.41	10,036.00	169.94	633.37	635.09	0.00	0.00	0.00
10,900.00	90.00	89.41	10,036.00	170.97	733.37	735.09	0.00	0.00	0.00
11,000.00	90.00	89.41	10,036.00	172.00	833.36	835.09	0.00	0.00	0.00
11,100.00	90.00	89.41	10,036.00	173.04	933.36	935.09	0.00	0.00	0.00
11,200.00	90.00	89.41	10,036.00	174.07	1,033.35	1,035.09	0.00	0.00	0.00
11,300.00	90.00	89.41	10,036.00	175.10	1,133.35	1,135.09	0.00	0.00	0.00
11,400.00	90.00	89.41	10,036.00	176.14	1,233.34	1,235.09	0.00	0.00	0.00
11,500.00	90.00	89.41	10,036.00	177.17	1,333.34	1,335.09	0.00	0.00	0.00
11,600.00	90.00	89.41	10,036.00	178.21	1,433.33	1,435.09	0.00	0.00	0.00
11,700.00	90.00	89.41	10,036.00	179.24	1,533.33	1,535.09	0.00	0.00	0.00
11,800.00	90.00	89.41	10,036.00	180.27	1,633.32	1,635.09	0.00	0.00	0.00
11,900.00	90.00	89.41	10,036.00	181.31	1,733.32	1,735.09	0.00	0.00	0.00
12,000.00	90.00	89.41	10,036.00	182.34	1,833.31	1,835.09	0.00	0.00	0.00

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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)	
12,100.00	90.00	89.41	10,036.00	183.37	1,933.30	1,935.09	0.00	0.00	0.00	
12,200.00	90.00	89.41	10,036.00	184.41	2,033.30	2,035.09	0.00	0.00	0.00	
12,300.00	90.00	89.41	10,036.00	185.44	2,133.29	2,135.09	0.00	0.00	0.00	
12,400.00	90.00	89.41	10,036.00	186.47	2,233.29	2,235.09	0.00	0.00	0.00	
12,500.00	90.00	89.41	10,036.00	187.51	2,333.28	2,335.09	0.00	0.00	0.00	
12,600.00	90.00	89.41	10,036.00	188.54	2,433.28	2,435.09	0.00	0.00	0.00	
12,700.00	90.00	89.41	10,036.00	189.58	2,533.27	2,535.09	0.00	0.00	0.00	
12,800.00	90.00	89.41	10,036.00	190.61	2,633.27	2,635.09	0.00	0.00	0.00	
12,900.00	90.00	89.41	10,036.00	191.64	2,733.26	2,735.09	0.00	0.00	0.00	
13,000.00	90.00	89.41	10,036.00	192.68	2,833.26	2,835.09	0.00	0.00	0.00	
13,100.00	90.00	89.41	10,036.00	193.71	2,933.25	2,935.09	0.00	0.00	0.00	
13,200.00	90.00	89.41	10,036.00	194.74	3,033.25	3,035.09	0.00	0.00	0.00	
13,300.00	90.00	89.41	10,036.00	195.78	3,133.24	3,135.09	0.00	0.00	0.00	
13,400.00	90.00	89.41	10,036.00	196.81	3,233.24	3,235.09	0.00	0.00	0.00	
13,500.00	90.00	89.41	10,036.00	197.85	3,333.23	3,335.09	0.00	0.00	0.00	
13,600.00	90.00	89.41	10,036.00	198.88	3,433.22	3,435.09	0.00	0.00	0.00	
13,700.00	90.00	89.41	10,036.00	199.91	3,533.22	3,535.09	0.00	0.00	0.00	
13,800.00	90.00	89.41	10,036.00	200.95	3,633.21	3,635.09	0.00	0.00	0.00	
13,900.00	90.00	89.41	10,036.00	201.98	3,733.21	3,735.09	0.00	0.00	0.00	
14,000.00	90.00	89.41	10,036.00	203.01	3,833.20	3,835.09	0.00	0.00	0.00	
14,100.00	90.00	89.41	10,036.00	204.05	3,933.20	3,935.09	0.00	0.00	0.00	
14,200.00	90.00	89.41	10,036.00	205.08	4,033.19	4,035.09	0.00	0.00	0.00	
14,300.00	90.00	89.41	10,036.00	206.11	4,133.19	4,135.09	0.00	0.00	0.00	
14,400.00	90.00	89.41	10,036.00	207.15	4,233.18	4,235.09	0.00	0.00	0.00	
14,500.00	90.00	89.41	10,036.00	208.18	4,333.18	4,335.09	0.00	0.00	0.00	
14,600.00	90.00	89.41	10,036.00	209.22	4,433.17	4,435.09	0.00	0.00	0.00	
14,700.00	90.00	89.41	10,036.00	210.25	4,533.17	4,535.09	0.00	0.00	0.00	
14,800.00	90.00	89.41	10,036.00	211.28	4,633.16	4,635.09	0.00	0.00	0.00	
14,900.00	90.00	89.41	10,036.00	212.32	4,733.16	4,735.09	0.00	0.00	0.00	
15,000.00	90.00	89.41	10,036.00	213.35	4,833.15	4,835.09	0.00	0.00	0.00	
15,100.00	90.00	89.41	10,036.00	214.38	4,933.14	4,935.09	0.00	0.00	0.00	
15,200.00	90.00	89.41	10,036.00	215.42	5,033.14	5,035.09	0.00	0.00	0.00	
15,300.00	90.00	89.41	10,036.00	216.45	5,133.13	5,135.09	0.00	0.00	0.00	
15,400.00	90.00	89.41	10,036.00	217.49	5,233.13	5,235.09	0.00	0.00	0.00	
15,500.00	90.00	89.41	10,036.00	218.52	5,333.12	5,335.09	0.00	0.00	0.00	
15,600.00	90.00	89.41	10,036.00	219.55	5,433.12	5,435.09	0.00	0.00	0.00	
15,700.00	90.00	89.41	10,036.00	220.59	5,533.11	5,535.09	0.00	0.00	0.00	
15,800.00	90.00	89.41	10,036.00	221.62	5,633.11	5,635.09	0.00	0.00	0.00	
15,900.00	90.00	89.41	10,036.00	222.65	5,733.10	5,735.09	0.00	0.00	0.00	
16,000.00	90.00	89.41	10,036.00	223.69	5,833.10	5,835.09	0.00	0.00	0.00	
16,100.00	90.00	89.41	10,036.00	224.72	5,933.09	5,935.09	0.00	0.00	0.00	
16,200.00	90.00	89.41	10,036.00	225.75	6,033.09	6,035.09	0.00	0.00	0.00	
16,300.00	90.00	89.41	10,036.00	226.79	6,133.08	6,135.09	0.00	0.00	0.00	
16,400.00	90.00	89.41	10,036.00	227.82	6,233.08	6,235.09	0.00	0.00	0.00	
16,500.00	90.00	89.41	10,036.00	228.86	6,333.07	6,335.09	0.00	0.00	0.00	
16,600.00	90.00	89.41	10,036.00	229.89	6,433.06	6,435.09	0.00	0.00	0.00	
16,700.00	90.00	89.41	10,036.00	230.92	6,533.06	6,535.09	0.00	0.00	0.00	
16,800.00	90.00	89.41	10,036.00	231.96	6,633.05	6,635.09	0.00	0.00	0.00	
16,900.00	90.00	89.41	10,036.00	232.99	6,733.05	6,735.09	0.00	0.00	0.00	
17,000.00	90.00	89.41	10,036.00	234.02	6,833.04	6,835.09	0.00	0.00	0.00	
17,100.00	90.00	89.41	10,036.00	235.06	6,933.04	6,935.09	0.00	0.00	0.00	
17,200.00	90.00	89.41	10,036.00	236.09	7,033.03	7,035.09	0.00	0.00	0.00	

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	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)	
17,300.00	90.00	89.41	10,036.00	237.12	7,133.03	7,135.09	0.00	0.00	0.00	
17,400.00	90.00	89.41	10,036.00	238.16	7,233.02	7,235.09	0.00	0.00	0.00	
17,500.00	90.00	89.41	10,036.00	239.19	7,333.02	7,335.09	0.00	0.00	0.00	
17,600.00	90.00	89.41	10,036.00	240.23	7,433.01	7,435.09	0.00	0.00	0.00	
17,700.00	90.00	89.41	10,036.00	241.26	7,533.01	7,535.09	0.00	0.00	0.00	
17,800.00	90.00	89.41	10,036.00	242.29	7,633.00	7,635.09	0.00	0.00	0.00	
17,900.00	90.00	89.41	10,036.00	243.33	7,732.99	7,735.09	0.00	0.00	0.00	
18,000.00	90.00	89.41	10,036.00	244.36	7,832.99	7,835.09	0.00	0.00	0.00	
18,100.00	90.00	89.41	10,036.00	245.39	7,932.98	7,935.09	0.00	0.00	0.00	
18,200.00	90.00	89.41	10,036.00	246.43	8,032.98	8,035.09	0.00	0.00	0.00	
18,300.00	90.00	89.41	10,036.00	247.46	8,132.97	8,135.09	0.00	0.00	0.00	
18,400.00	90.00	89.41	10,036.00	248.50	8,232.97	8,235.09	0.00	0.00	0.00	
18,500.00	90.00	89.41	10,036.00	249.53	8,332.96	8,335.09	0.00	0.00	0.00	
18,600.00	90.00	89.41	10,036.00	250.56	8,432.96	8,435.09	0.00	0.00	0.00	
18,700.00	90.00	89.41	10,036.00	251.60	8,532.95	8,535.09	0.00	0.00	0.00	
18,739.05	90.00	89.41	10,036.00	252.00	8,572.00	8,574.14	0.00	0.00	0.00	
LPP/BHL TD at 18739.05 - LPP/BHL - Joe Hollingsworth Fee 221H										

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									
LPP/BHL - Joe Hollingsv	0.00	0.00	10,036.00	252.00	8,572.00	503,381.00	580,757.00	32.383638	-104.071728
- plan hits target center									
- Point									
FPP - Joe Hollingsworth	0.00	0.00	10,036.00	163.00	-74.00	503,292.00	572,111.00	32.383448	-104.099736
- plan misses target center by 73.68usft at 10114.35usft MD (9972.14 TVD, 145.89 N, -41.47 E)									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
400.00	400.00	13 3/8"		13-3/8	17-1/2
9,387.43	9,363.04	7 5/8"		7-5/8	8-3/4

Legacy Directional Drilling

Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Joe Hollingsworth Fee 221H
Company:	Matador Resources Company	TVD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	GL 3072 +28.5' KB @ 3100.50usft (Patterson 298)
Site:	Joe Hollingsworth Fee	North Reference:	Grid
Well:	Joe Hollingsworth Fee 221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
176.00	176.00	Rustler				
400.00	400.00	Salado				
974.00	974.00	Castile (T)				
2,527.54	2,521.00	G30:CS14-CSB				
2,606.31	2,599.00	G26: Bell Cyn.				
3,406.09	3,391.00	G13: Cherry Cyn.				
4,629.38	4,605.00	G7: Brushy Cyn.				
6,023.39	5,999.00	G4: BSGL (CS9)				
6,389.39	6,365.00	L8.2: U. Avalon Shale				
6,511.39	6,487.00	L6.3: Avalon Carb				
6,605.39	6,581.00	L6.2: L. Avalon Shale				
6,689.39	6,665.00	L5.3: FBSC				
7,058.39	7,034.00	L5.1: FBSC				
7,114.39	7,090.00	M. FBSC				
7,267.39	7,243.00	L. FBSC				
7,325.39	7,301.00	L4.3: SBSC				
7,810.39	7,786.00	L4.1: SBSG				
7,934.39	7,910.00	L4.1: SBSG B Carb				
8,018.39	7,994.00	SBSG B Target				
8,106.39	8,082.00	L4.1: SBSG C				
8,152.39	8,128.00	L3.3: TBSC				
8,542.39	8,518.00	L3.3.2: Break Sand (T)				
9,055.39	9,031.00	L3.1: TBSG				
9,337.39	9,313.00	L. TBSG				
9,376.39	9,352.00	L2: WFMP A				
9,518.40	9,494.00	WFMP A Fat				
9,801.95	9,762.00	WFMP B				
9,961.73	9,885.00	WFMP B.1				
10,172.07	9,996.00	WFMP B.2				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.00	1,500.00	0.00	0.00	Start Nudge Build 1.50	
2,033.33	2,031.60	12.71	-34.93	8.00° at 2033.33 MD	
4,183.33	4,160.68	115.05	-316.11	Start Drop -1.50	
4,716.67	4,692.28	127.77	-351.04	Vertical at 4716.67 MD	
9,487.43	9,463.04	127.77	-351.04	KOP Start Build 10.00	
10,387.43	10,036.00	161.25	220.94	Start DLS 1.50 TFO 90.00	
10,571.28	10,036.00	167.57	404.66	LP 90.00° at 10571.28 MD	
18,739.05	10,036.00	252.00	8,572.00	LPP/BHL TD at 18739.05	