U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

05/13/2021

Well Name: PENNZOIL 32 FED

Well Location: T20S / R29E / SEC 33 / SWNW / 32.5314123 / -104.0874698

County or Parish/State: EDDY / NM

Well Number: 202H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM0004825, NMNM04825

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001544927

Well Status: Approved Application for Permit to Drill

Operator: MATADOR PRODUCTION COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 02/25/2021

Time Sundry Submitted: 04:46

Date proposed operation will begin: 04/19/2021

Procedure Description: BLM Bond No. NMB001079 Surety Bond No. RLB0015172 Matador requests the name of this well to be changed from the Ted Paup 3231 Fed Com 202H (API 30-015-44927) to be the Ted Paup 3231 Fed Com 135H (API 30-015-44927). Please see the attached C102 to revise the pool of Matador's Ted Paup 3231 Fed Com 135H well from the Burton Flat East; Upper Wolfcamp (standard oil) (Pool Code 98315) to the Getty; Bone Spring (standard oil) (Pool Code 27470). This changes the well from being completed in the Wolfcamp formation to being completed in the Bone Spring formation. This also changes the new TVD to 9200 feet. Matador requests the BHL be revised from 1664' FNL 60' FWL of Sec. 31 T20S R29E to 796' FNL and 60' FWL of Sec. 31 T20S R29E. The BHL given represents the terminus of the well. The last perforation point will be 796' FNL and 100' FWL of the referenced spacing unit comprising the N2N2 of Sections 31 and 32 of T20S R29E. Matador requests the option for a production casing change to one of the following: 5-1/2" 20# P110 CYHC upgraded connection to Hunting Tec-Lock Wedge SC from Top MD 0' to Bottom MD of Total Depth 7" 29# P110EC from Top MD of 0' to Bottom MD of each individual well's respective top of curve or kick off point and 5-1/2" 20# P110 CYHC Tec-Lock Wedge SC from Top MD of each individual well's respective top of curve or kick off point to Bottom MD of Total Depth. Spec Sheets are attached. Cement volumes will be adjusted accordingly with lead and tail tops to be maintained at original approved design depths.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

7.0_29_P110EC_DWC_C_20210225164049.PDF

LO_TED_PAUP_3231_FED_COM_135H_S__C102_Signed_20210225163936.pdf

5.5_in_Tec_Lock_Wedge_P_110_CYHC_20210225163935.PDF

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Operator: MATADOR PRODUCTION COMPANY

Ted_Paup_3231_Fed_Com_135H___AC_v1_20210225163936.pdf

Ted_Paup_3231_Fed_Com_135H___Well_Plan_v1_20210225163935.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: NICKY FITZGERALD

Signed on: FEB 25, 2021 04:39 PM

Name: MATADOR PRODUCTION COMPANY

Title: Regulatory

Street Address: 5400 LBJ FREEWAY STE 1500

City: DALLAS **State:** TX

Phone: (972) 371-5448

Email address: nicky.fitzgerald@matadorresources.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone: (972)371-5448

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/13/2021

Signature: Chris Walls

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-015-44572	27470	Getty; Bone Spring

[4]Property Code	[5]Property Name	[6]Well Number
	TED PAUP 3231 FED COM	135H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3263'

[10]Surface Location

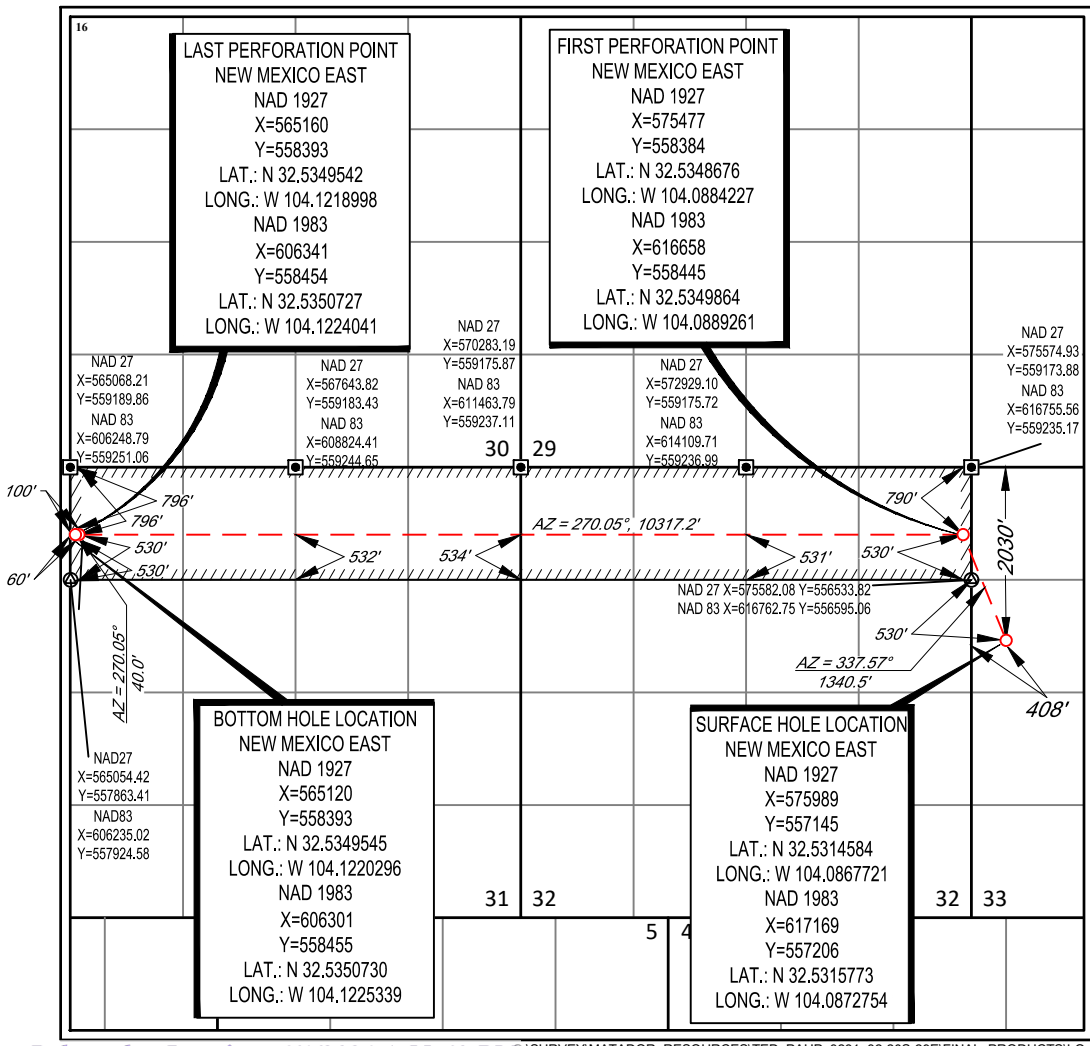
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	33	20-S	29-E	–	2030'	NORTH	408'	WEST	EDDY

[11]Bottom 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
1	31	20-S	29-E	–	796'	NORTH	60'	WEST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
318.30			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

CLaBolt 2/24/2021
Signature Date

Cade LaBolt
Printed Name

cade.labolt@matadorresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

06/28/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

Certificate Number

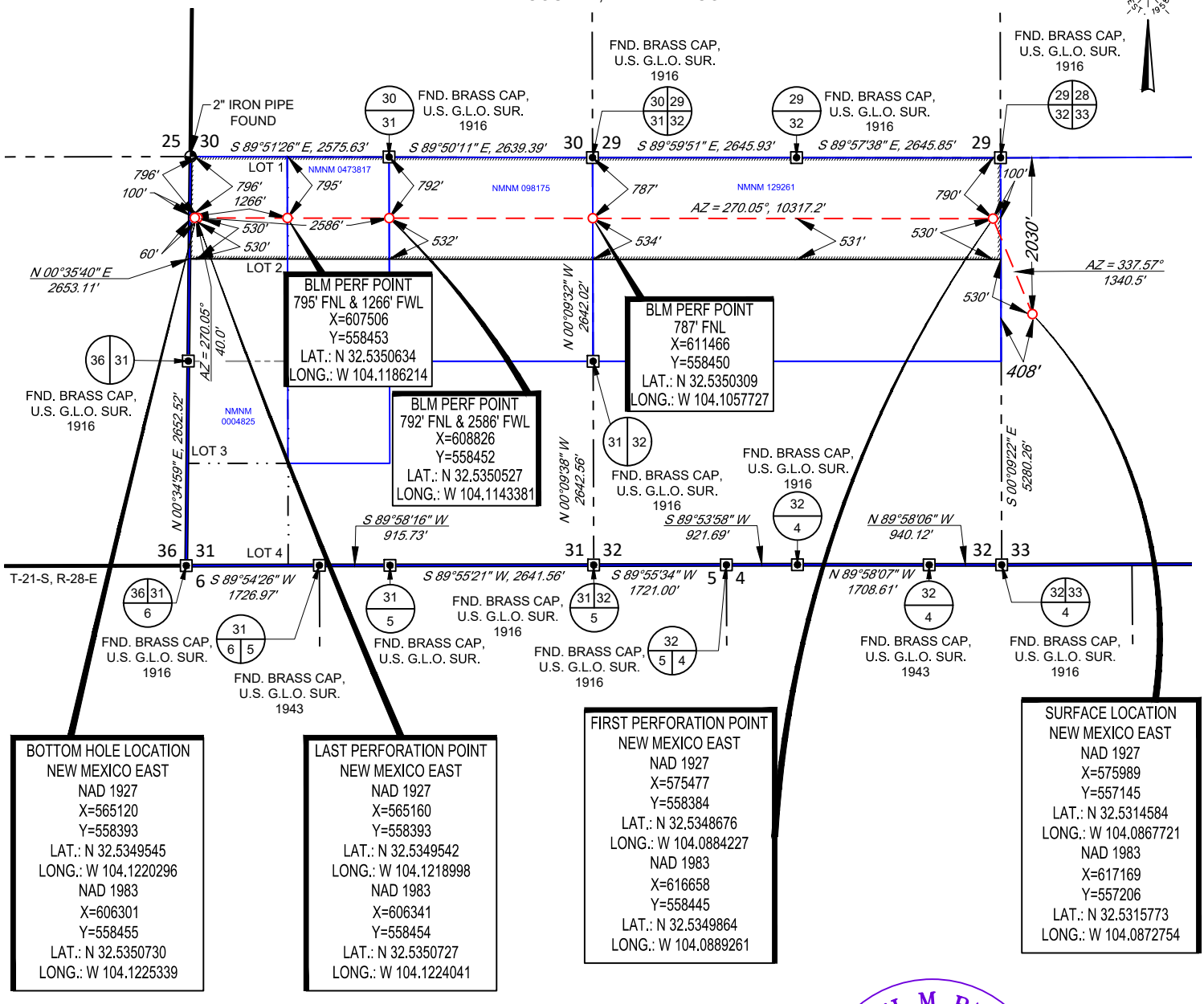
S:\SURVEY\MATADOR_RESOURCES\TED_PAUP_3231_32-20S-29E\FINAL_PRODUCTS\LO_TED_PAUP_3231_FED_COM_135H.DWG 2/22/2021 9:39:28 AM adisabella

SCALE: 1" = 2000'

0' 1000' 2000'

Matador PRODUCTION COMPANY

SECTION 33, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=565120
Y=558393
LAT.: N 32.5349545
LONG.: W 104.1220296
NAD 1983
X=606301
Y=558455
LAT.: N 32.5350730
LONG.: W 104.1225339

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=565160
Y=558393
LAT.: N 32.5349542
LONG.: W 104.1218998
NAD 1983
X=606341
Y=558454
LAT.: N 32.5350727
LONG.: W 104.1224041

FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=575477
Y=558384
LAT.: N 32.5348676
LONG.: W 104.0884227
NAD 1983
X=616658
Y=558445
LAT.: N 32.5349864
LONG.: W 104.0889261

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=575989
Y=557145
LAT.: N 32.5314584
LONG.: W 104.0867721
NAD 1983
X=617169
Y=557206
LAT.: N 32.5315773
LONG.: W 104.0872754

LEASE NAME & WELL NO.: TED PAUP 3231 FED COM 135H

SECTION 33 TWP 20-S RGE 29-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 2030' FNL & 408' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-360 & US-180/US-62 GO WEST ON US-180/US-62 ±1.3 MILES, THENCE NORTH (RIGHT) ON BURTON FLATS RD. ±1.2 MILES, THENCE NORTHWEST (LEFT) ON BUCKEYE RD. ±2.0 MILES, THENCE SOUTH (LEFT) ON LEASE RD. ±1.4 MILES, THENCE SOUTHEAST (RIGHT) ON A PROPOSED RD. ±0.7 MILES, THENCE NORTH (RIGHT) ON PROPOSED RD. ±550 FEET TO A POINT ±151 FEET SOUTHWEST OF THE LOCATION.

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, License No. 25116
MARCH 27, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.

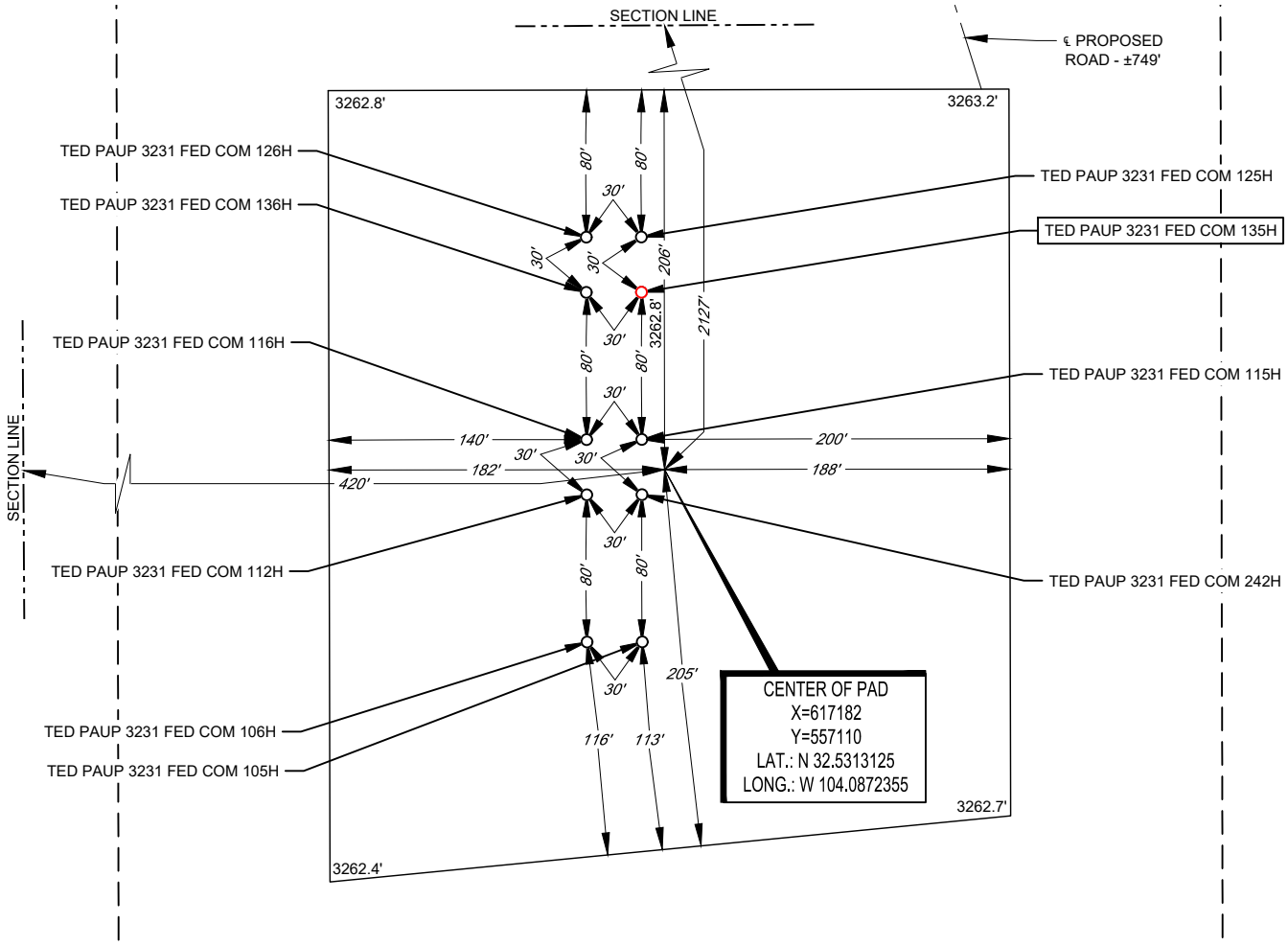
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

S:\SURVEY\MATADOR_RESOURCES\TED_PAUP_3231_32-20S-29E\FINAL_PRODUCTS\LO_TED_PAUP_3231_FED_COM_135H.DWG 2/22/2021 9:39:29 AM adisabella

Matador PRODUCTION COMPANY

SECTION 33, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



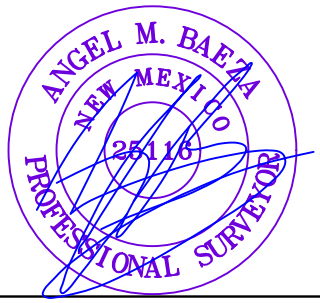
LEGEND

SECTION LINE
PROPOSED ROAD

LEASE NAME & WELL NO.: TED PAUP 3231 FED COM 135H

135H LATITUDE N 32.5315773 135H LONGITUDE W 104.0872754

CENTER OF PAD IS 2127' FNL & 420' FWL



Angel M. Baeza, P.S. No. 25116

SCALE: 1" = 100'

0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall)
Benteler P110 CY HC

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY HC	
Mill/Specification:	Benteler	
Yield Strength:	125,000	psi
Tensile Strength:	130,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,000	psi

Connection Data

Standard OD:	5.920	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in^2
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,000	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque

HUNTING

Generated on Aug 06, 2019

Received by OCD: 5/13/2021 10:10:17 AM

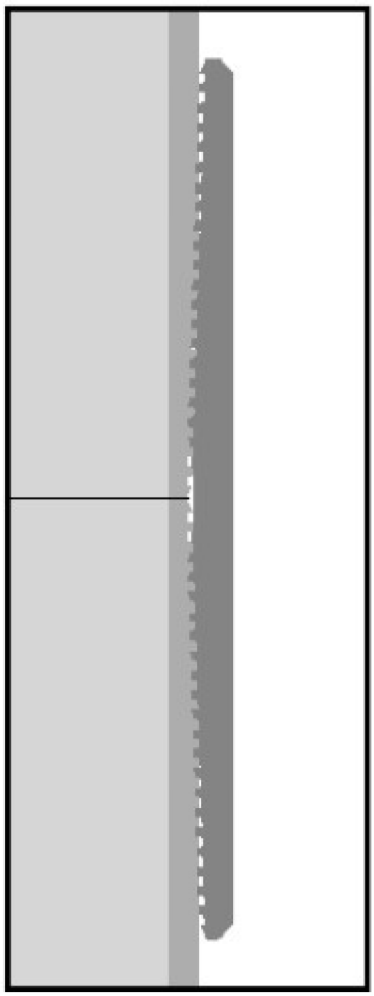
Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	7 in	29.00 lb/ft (0.408 in)	VMS P110 EC

2012 API Spec 5CT Coupling O.D.

	Material
VMS P110 EC	Grade
125,000	Minimum Yield Strength (psi)
135,000	Minimum Ultimate Strength (psi)
	Pipe Dimensions
7.000	Nominal Pipe Body O.D. (in)
6.184	Nominal Pipe Body I.D.(in)
0.408	Nominal Wall Thickness (in)
29.00	Nominal Weight (lbs/ft)
28.75	Plain End Weight (lbs/ft)
8.449	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
1,056,000	Minimum Pipe Body Yield Strength (lbs)
9,580	Minimum Collapse Pressure (psi)
12,750	Minimum Internal Yield Pressure (psi)
11,700	Hydrostatic Test Pressure (psi)
	Connection Dimensions
7.875	Connection O.D. (in)
6.184	Connection I.D. (in)
6.125	Connection Drift Diameter (in)
4.50	Make-up Loss (in)
8.449	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
1,056,000	Joint Strength (lbs)
26,010	Reference String Length (ft) 1.4 Design Factor
1,045,000	API Joint Strength (lbs)
528,000	Compression Rating (lbs)
9,580	API Collapse Pressure Rating (psi)
12,750	API Internal Pressure Resistance (psi)
40.9	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Appoximated Field End Torque Values
26,800	Minimum Final Torque (ft-lbs)
31,300	Maximum Final Torque (ft-lbs)
35,800	Connection Yield Torque (ft-lbs)

VAM-USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@na.vallourec.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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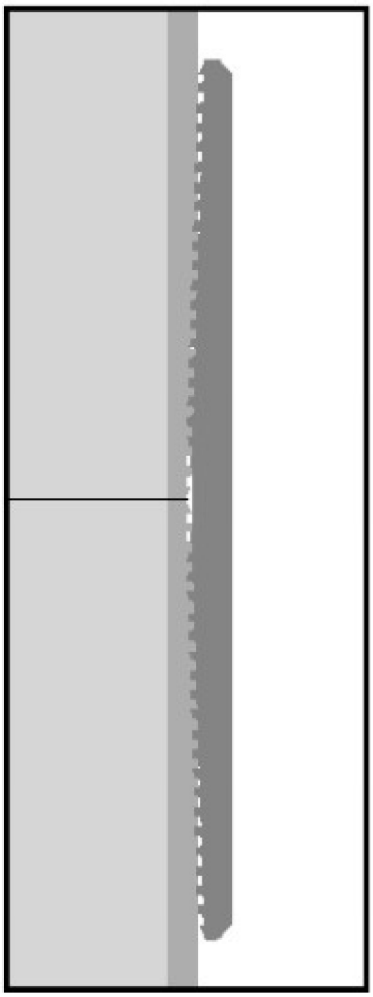
DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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Matador Resources

Eddy County, New Mexico (NAD 27)
Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)
Ted Paup 3231 Fed Com 135H

Wellbore #1
Design #1

Anticollision Report

24 February, 2021

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Reference Design #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 2/24/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,011.26	Design #1 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)						
Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2	807.09	806.79	30.02	24.69	5.637	CC
Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2	1,300.00	1,297.06	30.87	22.05	3.497	ES
Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2	1,630.39	1,625.46	35.32	24.13	3.155	SF
Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1	1,296.02	1,295.20	34.43	25.59	3.898	CC
Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1	1,300.00	1,299.16	34.43	25.57	3.885	ES
Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1	1,400.00	1,398.61	36.09	26.51	3.766	SF
Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1	1,015.79	1,016.41	27.96	21.19	4.131	CC, ES
Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1	20,011.26	19,925.85	1,326.43	821.29	2.626	SF
Ted Paup 3231 Fed Com (205H, 206H, 222H)						
Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #(	8,982.26	8,896.08	122.45	58.18	1.905	CC
Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #(	20,011.26	20,153.43	227.00	52.40	1.300	Level 3, ES, SF
Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #(	5,683.30	5,707.18	110.57	66.18	2.491	CC, ES
Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #(	5,700.00	5,722.87	110.72	66.19	2.487	SF
Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #(	6,086.62	6,092.70	83.76	36.67	1.778	CC
Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #(	6,100.00	6,105.39	83.85	36.66	1.777	ES, SF
Ted Paup 3231 Fed Com (Offsets)						
Chamois AKE Fed Com #1 - Wellbore #1 - Surveys	3,939.02	3,878.85	2,671.10	2,556.36	23.281	CC
Chamois AKE Fed Com #1 - Wellbore #1 - Surveys	6,054.08	5,966.75	2,690.56	2,523.65	16.120	ES
Chamois AKE Fed Com #1 - Wellbore #1 - Surveys	8,850.00	8,731.20	2,858.31	2,629.07	12.468	SF
Freedom 31 Federal Com 1 - Wellbore #1 - Surveys	19,424.36	9,180.17	1,005.07	497.79	1.981	CC, ES, SF
Freedom 31 Federal Com 2 - Wellbore #1 - Surveys	18,680.56	9,132.39	3,609.42	3,143.37	7.745	CC
Freedom 31 Federal Com 2 - Wellbore #1 - Surveys	18,700.00	9,132.39	3,609.48	3,143.02	7.738	ES
Freedom 31 Federal Com 2 - Wellbore #1 - Surveys	19,100.00	9,132.39	3,633.71	3,160.60	7.680	SF
Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surv	12,026.27	17,178.00	2,282.90	2,023.99	8.817	CC
Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surv	19,900.00	9,285.00	2,303.16	2,020.48	8.148	ES
Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surv	20,011.26	9,285.00	2,306.44	2,021.96	8.108	SF
Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Su	20,011.26	9,100.00	3,446.06	3,160.82	12.081	CC, ES, SF

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-1.909	30.00	-1.00	30.02				
100.00	100.00	100.00	100.00	0.13	0.13	-1.909	30.00	-1.00	30.02	29.76	0.26	117.112	
200.00	200.00	200.00	200.00	0.49	0.49	-1.909	30.00	-1.00	30.02	29.04	0.97	30.842	
300.00	300.00	300.00	300.00	0.85	0.85	-1.909	30.00	-1.00	30.02	28.33	1.69	17.759	
400.00	400.00	400.00	400.00	1.20	1.20	-1.909	30.00	-1.00	30.02	27.61	2.41	12.470	
500.00	500.00	500.00	500.00	1.56	1.56	-1.909	30.00	-1.00	30.02	26.89	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	-1.909	30.00	-1.00	30.02	26.18	3.84	7.815	
700.00	700.00	700.00	700.00	2.28	2.28	-1.909	30.00	-1.00	30.02	25.46	4.56	6.586	
750.00	750.00	750.00	750.00	2.46	2.46	-1.909	30.00	-1.00	30.02	25.10	4.92	6.105	
800.00	800.00	799.74	799.74	2.64	2.64	-2.025	30.21	-1.03	30.02	24.74	5.27	5.692	
807.09	807.09	806.79	806.79	2.66	2.66	-2.060	30.28	-1.04	30.02	24.69	5.32	5.637	CC
900.00	899.98	899.22	899.21	3.00	2.99	-2.948	31.92	-1.30	30.02	24.03	5.99	5.014	
1,000.00	999.92	998.70	998.62	3.36	3.35	-4.794	35.33	-1.84	30.05	23.35	6.70	4.485	
1,100.00	1,099.78	1,098.17	1,097.95	3.71	3.71	-7.554	40.44	-2.65	30.15	22.74	7.41	4.069	
1,200.00	1,199.54	1,197.62	1,197.17	4.07	4.07	-11.199	47.26	-3.73	30.40	22.28	8.12	3.744	
1,300.00	1,299.16	1,297.06	1,296.23	4.43	4.42	-15.662	55.78	-5.08	30.87	22.05	8.83	3.497	ES
1,400.00	1,398.61	1,396.49	1,395.11	4.80	4.79	-20.815	65.99	-6.70	31.68	22.14	9.54	3.321	
1,500.00	1,497.86	1,495.89	1,493.78	5.17	5.16	-26.473	77.88	-8.58	32.91	22.66	10.25	3.210	
1,600.00	1,596.89	1,595.26	1,592.20	5.55	5.53	-32.399	91.47	-10.74	34.67	23.70	10.97	3.160	
1,630.39	1,626.93	1,625.46	1,622.06	5.66	5.64	-34.213	95.93	-11.44	35.32	24.13	11.19	3.155	SF
1,700.00	1,695.72	1,694.87	1,690.62	5.93	5.91	-37.981	106.60	-13.13	37.17	25.46	11.71	3.173	
1,800.00	1,794.54	1,794.78	1,789.30	6.31	6.29	-42.672	122.02	-15.57	40.13	27.66	12.47	3.217	
1,900.00	1,893.36	1,894.68	1,887.98	6.70	6.68	-46.690	137.44	-18.02	43.31	30.07	13.24	3.271	
2,000.00	1,992.18	1,994.59	1,986.66	7.09	7.08	-50.137	152.86	-20.46	46.68	32.67	14.01	3.331	
2,100.00	2,091.01	2,094.50	2,085.34	7.48	7.47	-53.108	168.28	-22.90	50.20	35.40	14.80	3.393	
2,200.00	2,189.83	2,194.41	2,184.02	7.88	7.86	-55.680	183.70	-25.35	53.83	38.25	15.58	3.455	
2,300.00	2,288.65	2,294.31	2,282.70	8.27	8.26	-57.922	199.13	-27.79	57.55	41.18	16.37	3.516	
2,400.00	2,387.47	2,394.22	2,381.38	8.67	8.66	-59.886	214.55	-30.23	61.36	44.19	17.16	3.575	
2,500.00	2,486.29	2,494.13	2,480.06	9.07	9.06	-61.618	229.97	-32.67	65.22	47.26	17.96	3.632	
2,600.00	2,585.12	2,594.03	2,578.74	9.47	9.46	-63.154	245.39	-35.12	69.14	50.39	18.76	3.686	
2,700.00	2,683.94	2,693.94	2,677.42	9.87	9.86	-64.523	260.81	-37.56	73.11	53.55	19.56	3.738	
2,800.00	2,782.76	2,793.85	2,776.09	10.27	10.27	-65.750	276.23	-40.00	77.11	56.75	20.36	3.787	
2,900.00	2,881.58	2,893.75	2,874.77	10.67	10.67	-66.855	291.65	-42.44	81.15	59.98	21.16	3.834	
3,000.00	2,980.40	2,993.66	2,973.45	11.07	11.07	-67.855	307.08	-44.89	85.21	63.24	21.97	3.878	
3,100.00	3,079.22	3,093.57	3,072.13	11.48	11.48	-68.763	322.50	-47.33	89.29	66.52	22.78	3.920	
3,200.00	3,178.05	3,193.47	3,170.81	11.88	11.88	-69.591	337.92	-49.77	93.40	69.82	23.58	3.960	
3,300.00	3,276.87	3,293.38	3,269.49	12.28	12.29	-70.349	353.34	-52.21	97.53	73.13	24.39	3.998	
3,400.00	3,375.69	3,393.29	3,368.17	12.69	12.69	-71.045	368.76	-54.66	101.67	76.47	25.20	4.034	
3,500.00	3,474.51	3,493.19	3,466.85	13.09	13.10	-71.687	384.18	-57.10	105.82	79.81	26.01	4.068	
3,600.00	3,573.33	3,593.10	3,565.53	13.50	13.51	-72.280	399.60	-59.54	109.99	83.17	26.82	4.101	
3,700.00	3,672.16	3,693.01	3,664.21	13.90	13.91	-72.829	415.03	-61.98	114.17	86.53	27.63	4.132	
3,800.00	3,770.98	3,792.91	3,762.89	14.31	14.32	-73.339	430.45	-64.43	118.36	89.91	28.44	4.161	
3,900.00	3,869.80	3,892.82	3,861.57	14.71	14.73	-73.815	445.87	-66.87	122.55	93.30	29.26	4.189	
4,000.00	3,968.62	3,992.73	3,960.25	15.12	15.14	-74.259	461.29	-69.31	126.76	96.69	30.07	4.216	
4,100.00	4,067.44	4,092.63	4,058.92	15.53	15.55	-74.674	476.71	-71.75	130.97	100.09	30.88	4.241	
4,200.00	4,166.26	4,192.54	4,157.60	15.93	15.95	-75.063	492.13	-74.20	135.19	103.49	31.70	4.265	
4,300.00	4,265.09	4,292.45	4,256.28	16.34	16.36	-75.429	507.55	-76.64	139.41	106.90	32.51	4.288	
4,400.00	4,363.91	4,392.36	4,354.96	16.74	16.77	-75.773	522.97	-79.08	143.64	110.32	33.32	4.311	
4,500.00	4,462.73	4,492.26	4,453.64	17.15	17.18	-76.097	538.40	-81.52	147.88	113.74	34.14	4.332	
4,600.00	4,561.55	4,592.17	4,552.32	17.56	17.59	-76.404	553.82	-83.97	152.12	117.17	34.95	4.352	
4,700.00	4,660.37	4,692.08	4,651.00	17.97	18.00	-76.693	569.24	-86.41	156.36	120.60	35.77	4.372	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,759.20	4,791.98	4,749.68	18.37	18.41	-76.968	584.66	-88.85	160.61	124.03	36.58	4.390	
4,900.00	4,858.02	4,891.89	4,848.36	18.78	18.82	-77.228	600.08	-91.29	164.86	127.47	37.40	4.408	
5,000.00	4,956.84	4,991.80	4,947.04	19.19	19.23	-77.475	615.50	-93.74	169.12	130.90	38.21	4.426	
5,100.00	5,055.66	5,091.70	5,045.72	19.60	19.64	-77.710	630.92	-96.18	173.38	134.35	39.03	4.442	
5,200.00	5,154.48	5,191.61	5,144.40	20.00	20.04	-77.933	646.35	-98.62	177.64	137.79	39.84	4.458	
5,300.00	5,253.30	5,291.52	5,243.07	20.41	20.45	-78.146	661.77	-101.06	181.90	141.24	40.66	4.474	
5,400.00	5,352.13	5,391.42	5,341.75	20.82	20.86	-78.350	677.19	-103.51	186.17	144.69	41.48	4.488	
5,500.00	5,450.95	5,491.33	5,440.43	21.23	21.27	-78.544	692.61	-105.95	190.43	148.14	42.29	4.503	
5,600.00	5,549.77	5,591.24	5,539.11	21.63	21.68	-78.730	708.03	-108.39	194.70	151.59	43.11	4.516	
5,700.00	5,648.59	5,691.14	5,637.79	22.04	22.09	-78.907	723.45	-110.83	198.98	155.05	43.93	4.530	
5,800.00	5,747.41	5,791.05	5,736.47	22.45	22.51	-79.078	738.87	-113.28	203.25	158.51	44.74	4.543	
5,900.00	5,846.24	5,890.96	5,835.15	22.86	22.92	-79.241	754.29	-115.72	207.53	161.97	45.56	4.555	
6,000.00	5,945.06	5,990.86	5,933.83	23.27	23.33	-79.397	769.72	-118.16	211.80	165.43	46.38	4.567	
6,054.08	5,998.50	6,044.89	5,987.20	23.49	23.55	-79.480	778.06	-119.48	214.12	167.30	46.82	4.573	
6,100.00	6,043.88	6,090.78	6,032.52	23.68	23.74	-79.540	785.14	-120.61	215.90	168.71	47.19	4.575	
6,200.00	6,142.71	6,190.74	6,131.25	24.08	24.15	-79.614	800.57	-123.05	218.53	170.52	48.01	4.552	
6,229.83	6,172.19	6,220.57	6,160.71	24.20	24.27	-79.621	805.17	-123.78	218.98	170.73	48.25	4.538	
6,300.00	6,241.54	6,290.73	6,230.01	24.49	24.56	-79.630	816.00	-125.49	219.86	171.04	48.82	4.504	
6,400.00	6,340.36	6,390.73	6,328.78	24.89	24.97	-79.643	831.44	-127.94	221.12	171.49	49.63	4.455	
6,500.00	6,439.18	6,490.72	6,427.54	25.30	25.38	-79.656	846.87	-130.38	222.37	171.93	50.44	4.408	
6,600.00	6,538.00	6,590.71	6,526.30	25.71	25.79	-79.669	862.31	-132.83	223.63	172.37	51.26	4.363	
6,700.00	6,636.82	6,690.70	6,625.07	26.11	26.20	-79.681	877.74	-135.27	224.89	172.82	52.07	4.319	
6,800.00	6,735.64	6,790.69	6,723.83	26.52	26.61	-79.694	893.18	-137.72	226.14	173.26	52.88	4.276	
6,900.00	6,834.47	6,890.69	6,822.59	26.93	27.02	-79.706	908.61	-140.16	227.40	173.70	53.69	4.235	
7,000.00	6,933.29	6,990.68	6,921.36	27.33	27.44	-79.718	924.04	-142.61	228.66	174.15	54.51	4.195	
7,100.00	7,032.11	7,090.67	7,020.12	27.74	27.85	-79.730	939.48	-145.05	229.91	174.59	55.32	4.156	
7,200.00	7,130.93	7,190.66	7,118.88	28.15	28.26	-79.742	954.91	-147.50	231.17	175.03	56.13	4.118	
7,300.00	7,229.75	7,290.65	7,217.65	28.56	28.67	-79.754	970.35	-149.94	232.42	175.48	56.95	4.081	
7,400.00	7,328.58	7,390.65	7,316.41	28.96	29.08	-79.766	985.78	-152.39	233.68	175.92	57.76	4.046	
7,500.00	7,427.40	7,488.72	7,413.28	29.37	29.48	-79.846	1,000.92	-154.78	234.94	176.39	58.55	4.012	
7,600.00	7,526.22	7,560.84	7,484.22	29.78	29.78	-81.043	1,012.02	-161.07	242.51	183.76	58.75	4.128	
7,700.00	7,625.04	7,629.26	7,550.28	30.18	30.07	-82.609	1,022.39	-175.33	261.97	203.72	58.26	4.497	
7,800.00	7,723.86	7,700.00	7,616.32	30.59	30.36	-84.214	1,032.79	-198.34	292.66	235.07	57.59	5.081	
7,900.00	7,822.68	7,750.00	7,661.05	31.00	30.56	-86.213	1,039.85	-219.48	333.21	277.70	55.50	6.003	
8,000.00	7,921.51	7,800.00	7,703.79	31.41	30.76	-88.042	1,046.62	-244.50	382.70	329.18	53.52	7.150	
8,100.00	8,020.33	7,850.00	7,744.22	31.82	30.96	-89.680	1,053.04	-273.19	439.58	387.70	51.89	8.472	
8,200.00	8,119.15	7,900.00	7,782.02	32.22	31.16	-91.126	1,059.06	-305.34	502.83	452.20	50.62	9.933	
8,300.00	8,217.97	7,934.40	7,806.35	32.63	31.29	-92.705	1,062.94	-329.34	571.35	522.63	48.72	11.727	
8,400.00	8,316.79	7,967.58	7,828.42	33.04	31.43	-94.152	1,066.48	-353.85	644.26	597.10	47.16	13.661	
8,500.00	8,415.62	8,000.00	7,848.60	33.45	31.56	-95.471	1,069.72	-379.00	720.83	674.91	45.92	15.698	
8,600.00	8,514.44	8,022.90	7,861.99	33.85	31.66	-96.880	1,071.88	-397.45	800.40	755.90	44.50	17.985	
8,700.00	8,613.26	8,050.00	7,876.89	34.26	31.78	-98.082	1,074.29	-419.96	882.54	838.95	43.58	20.249	
8,761.09	8,673.63	8,050.00	7,876.89	34.51	31.78	-99.180	1,074.29	-419.96	933.85	891.43	42.42	22.012	
8,800.04	8,712.04	8,066.99	7,885.68	34.67	31.85	-99.457	1,075.71	-434.43	966.03	923.62	42.42	22.775	
8,850.00	8,761.06	8,078.13	7,891.21	34.87	31.90	-100.140	1,076.61	-444.06	1,005.76	963.88	41.88	24.015	
8,900.00	8,809.36	8,100.00	7,901.53	35.06	32.01	-100.603	1,078.29	-463.26	1,043.51	1,001.82	41.69	25.029	
8,950.00	8,856.58	8,100.00	7,901.53	35.24	32.01	-101.731	1,078.29	-463.26	1,078.74	1,038.13	40.61	26.561	
9,000.00	8,902.35	8,100.00	7,901.53	35.41	32.01	-103.003	1,078.29	-463.26	1,112.03	1,072.50	39.52	28.136	
9,050.00	8,946.33	8,128.57	7,913.91	35.58	32.15	-103.473	1,080.32	-488.93	1,142.23	1,102.82	39.41	28.987	
9,100.00	8,988.19	8,150.00	7,922.36	35.73	32.26	-104.251	1,081.71	-508.57	1,170.24	1,131.25	38.99	30.016	
9,150.00	9,027.59	8,150.00	7,922.36	35.88	32.26	-105.929	1,081.71	-508.57	1,195.48	1,157.64	37.85	31.587	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	8,170.75	7,929.84	36.02	32.37	-106.985	1,082.94	-527.89	1,217.97	1,180.60	37.36	32.599	
9,250.00	9,097.89	8,200.00	7,939.20	36.15	32.53	-107.789	1,084.51	-555.55	1,237.97	1,200.86	37.11	33.360	
9,300.00	9,128.24	8,200.00	7,939.20	36.27	32.53	-110.159	1,084.51	-555.55	1,254.56	1,218.56	36.00	34.849	
9,350.00	9,155.08	8,200.00	7,939.20	36.40	32.53	-113.065	1,084.51	-555.55	1,268.82	1,233.86	34.95	36.302	
9,400.00	9,178.21	8,230.33	7,947.42	36.53	32.71	-114.363	1,085.89	-584.71	1,279.53	1,244.81	34.72	36.851	
9,450.00	9,197.44	8,250.00	7,951.93	36.67	32.83	-116.669	1,086.67	-603.84	1,287.59	1,253.36	34.23	37.613	
9,500.00	9,212.64	8,250.00	7,951.93	36.83	32.83	-121.378	1,086.67	-603.84	1,292.74	1,259.40	33.34	38.773	
9,550.00	9,223.67	8,276.20	7,956.93	37.02	33.01	-124.110	1,087.54	-629.54	1,294.61	1,261.53	33.08	39.140	
9,600.00	9,230.48	8,300.00	7,960.45	37.23	33.17	-127.589	1,088.18	-653.07	1,293.69	1,260.90	32.79	39.452	
9,654.13	9,233.00	8,300.00	7,960.45	37.50	33.17	-136.875	1,088.18	-653.07	1,289.19	1,257.09	32.10	40.163	
9,700.00	9,233.00	8,322.19	7,962.87	37.77	33.33	-142.022	1,088.63	-675.12	1,284.36	1,252.41	31.95	40.196	
9,800.00	9,233.00	8,350.00	7,964.71	38.46	33.53	-163.275	1,089.02	-702.86	1,277.93	1,246.37	31.56	40.491	
9,862.77	9,233.00	8,372.49	7,965.22	38.98	33.71	-178.173	1,089.18	-725.34	1,276.62	1,245.07	31.55	40.466	
9,900.00	9,233.00	8,384.51	7,965.13	39.30	33.80	172.241	1,089.21	-737.37	1,276.86	1,245.28	31.59	40.426	
10,000.00	9,233.00	8,482.92	7,963.41	40.29	34.66	171.639	1,089.30	-835.76	1,278.59	1,246.45	32.14	39.781	
10,100.00	9,233.00	8,582.91	7,961.67	41.39	35.67	171.628	1,089.38	-935.73	1,280.33	1,247.55	32.78	39.064	
10,200.00	9,233.00	8,682.89	7,959.92	42.60	36.81	171.617	1,089.47	-1,035.70	1,282.06	1,248.58	33.48	38.294	
10,300.00	9,233.00	8,782.88	7,958.18	43.90	38.07	171.606	1,089.56	-1,135.67	1,283.80	1,249.55	34.25	37.483	
10,400.00	9,233.00	8,882.86	7,956.43	45.30	39.42	171.595	1,089.65	-1,235.64	1,285.53	1,250.45	35.08	36.645	
10,500.00	9,233.00	8,982.85	7,954.69	46.76	40.87	171.583	1,089.73	-1,335.61	1,287.26	1,251.30	35.97	35.789	
10,600.00	9,233.00	9,082.83	7,952.94	48.30	42.39	171.572	1,089.82	-1,435.58	1,289.00	1,252.09	36.91	34.924	
10,700.00	9,233.00	9,182.81	7,951.20	49.89	43.99	171.561	1,089.91	-1,535.55	1,290.73	1,252.83	37.90	34.059	
10,800.00	9,233.00	9,282.80	7,949.45	51.55	45.65	171.550	1,089.99	-1,635.52	1,292.47	1,253.53	38.93	33.199	
10,900.00	9,233.00	9,382.78	7,947.71	53.25	47.37	171.539	1,090.08	-1,735.49	1,294.20	1,254.19	40.00	32.351	
11,000.00	9,233.00	9,482.77	7,945.96	55.00	49.14	171.528	1,090.17	-1,835.46	1,295.93	1,254.82	41.12	31.519	
11,100.00	9,233.00	9,582.75	7,944.22	56.79	50.95	171.516	1,090.26	-1,935.43	1,297.67	1,255.40	42.26	30.705	
11,200.00	9,233.00	9,682.74	7,942.47	58.61	52.80	171.505	1,090.34	-2,035.40	1,299.40	1,255.96	43.44	29.912	
11,300.00	9,233.00	9,782.72	7,940.73	60.47	54.69	171.494	1,090.43	-2,135.37	1,301.14	1,256.49	44.65	29.142	
11,400.00	9,233.00	9,882.71	7,938.98	62.36	56.60	171.483	1,090.52	-2,235.34	1,302.87	1,256.99	45.88	28.396	
11,500.00	9,233.00	9,982.69	7,937.24	64.28	58.55	171.472	1,090.60	-2,335.31	1,304.60	1,257.46	47.14	27.674	
11,600.00	9,233.00	10,082.68	7,935.49	66.22	60.53	171.461	1,090.69	-2,435.27	1,306.34	1,257.91	48.42	26.977	
11,700.00	9,233.00	10,182.66	7,933.75	68.19	62.52	171.449	1,090.78	-2,535.24	1,308.07	1,258.35	49.73	26.306	
11,800.00	9,233.00	10,282.65	7,932.00	70.17	64.54	171.438	1,090.87	-2,635.21	1,309.81	1,258.76	51.05	25.659	
11,900.00	9,233.00	10,382.63	7,930.26	72.18	66.58	171.427	1,090.95	-2,735.18	1,311.54	1,259.15	52.39	25.036	
12,000.00	9,233.00	10,482.62	7,928.51	74.20	68.63	171.416	1,091.04	-2,835.15	1,313.27	1,259.53	53.74	24.436	
12,100.00	9,233.00	10,582.60	7,926.77	76.25	70.70	171.405	1,091.13	-2,935.12	1,315.01	1,259.90	55.11	23.860	
12,200.00	9,233.00	10,682.59	7,925.02	78.30	72.79	171.394	1,091.22	-3,035.09	1,316.74	1,260.25	56.50	23.306	
12,300.00	9,233.00	10,782.57	7,923.28	80.37	74.89	171.382	1,091.30	-3,135.06	1,318.48	1,260.58	57.90	22.773	
12,400.00	9,233.00	10,882.56	7,921.53	82.45	77.00	171.371	1,091.39	-3,235.03	1,320.21	1,260.91	59.31	22.261	
12,500.00	9,233.00	10,982.54	7,919.79	84.55	79.12	171.360	1,091.48	-3,335.00	1,321.95	1,261.22	60.73	21.769	
12,600.00	9,233.00	11,082.53	7,918.04	86.66	81.25	171.349	1,091.56	-3,434.97	1,323.68	1,261.52	62.16	21.295	
12,700.00	9,233.00	11,182.51	7,916.30	88.77	83.40	171.338	1,091.65	-3,534.94	1,325.42	1,261.82	63.60	20.840	
12,800.00	9,233.00	11,282.50	7,914.55	90.90	85.55	171.327	1,091.74	-3,634.91	1,327.15	1,262.10	65.05	20.402	
12,900.00	9,233.00	11,382.48	7,912.81	93.03	87.71	171.316	1,091.83	-3,734.88	1,328.88	1,262.38	66.51	19.981	
13,000.00	9,233.00	11,482.46	7,911.06	95.18	89.87	171.304	1,091.91	-3,834.85	1,330.62	1,262.65	67.97	19.576	
13,100.00	9,233.00	11,582.45	7,909.32	97.33	92.05	171.293	1,092.00	-3,934.82	1,332.35	1,262.91	69.45	19.185	
13,200.00	9,233.00	11,671.45	7,907.67	99.48	93.99	167.236	1,092.08	-4,023.80	1,334.23	1,263.43	70.80	18.845	
13,300.00	9,233.00	11,766.16	7,904.88	101.65	96.06	165.314	1,092.17	-4,118.47	1,337.15	1,264.93	72.22	18.515	
13,400.00	9,233.00	11,866.11	7,901.91	103.82	98.25	165.282	1,092.26	-4,218.38	1,340.10	1,266.39	73.71	18.181	
13,500.00	9,233.00	11,966.07	7,898.94	106.00	100.44	165.251	1,092.35	-4,318.29	1,343.05	1,267.85	75.20	17.860	
13,600.00	9,233.00	12,066.02	7,895.97	108.18	102.65	165.219	1,092.44	-4,418.20	1,346.00	1,269.30	76.70	17.549	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	9,233.00	12,165.98	7,893.00	110.37	104.85	165.188	1,092.53	-4,518.12	1,348.95	1,270.75	78.20	17.250	
13,800.00	9,233.00	12,265.94	7,890.03	112.56	107.06	165.156	1,092.62	-4,618.03	1,351.91	1,272.20	79.71	16.961	
13,900.00	9,233.00	12,365.89	7,887.07	114.76	109.28	165.125	1,092.71	-4,717.94	1,354.86	1,273.64	81.22	16.682	
14,000.00	9,233.00	12,465.85	7,884.10	116.96	111.49	165.093	1,092.81	-4,817.85	1,357.81	1,275.07	82.73	16.412	
14,100.00	9,233.00	12,565.80	7,881.13	119.17	113.72	165.062	1,092.90	-4,917.76	1,360.76	1,276.51	84.25	16.151	
14,200.00	9,233.00	12,665.76	7,878.16	121.38	115.94	165.030	1,092.99	-5,017.67	1,363.71	1,277.94	85.78	15.899	
14,300.00	9,233.00	12,765.72	7,875.19	123.59	118.17	164.999	1,093.08	-5,117.59	1,366.66	1,279.36	87.30	15.655	
14,400.00	9,233.00	12,865.67	7,872.22	125.81	120.40	164.967	1,093.17	-5,217.50	1,369.62	1,280.79	88.83	15.418	
14,500.00	9,233.00	12,965.63	7,869.26	128.03	122.64	164.936	1,093.26	-5,317.41	1,372.57	1,282.21	90.36	15.190	
14,600.00	9,233.00	13,065.58	7,866.29	130.25	124.87	164.904	1,093.35	-5,417.32	1,375.52	1,283.62	91.90	14.968	
14,700.00	9,233.00	13,165.54	7,863.32	132.48	127.11	164.873	1,093.44	-5,517.23	1,378.47	1,285.04	93.43	14.754	
14,800.00	9,233.00	13,265.50	7,860.35	134.71	129.36	164.842	1,093.54	-5,617.14	1,381.42	1,286.45	94.97	14.546	
14,900.00	9,233.00	13,365.45	7,857.38	136.94	131.60	164.810	1,093.63	-5,717.06	1,384.38	1,287.86	96.51	14.344	
15,000.00	9,233.00	13,465.41	7,854.41	139.18	133.85	164.779	1,093.72	-5,816.97	1,387.33	1,289.27	98.06	14.148	
15,100.00	9,233.00	13,565.36	7,851.44	141.41	136.10	164.748	1,093.81	-5,916.88	1,390.28	1,290.68	99.60	13.958	
15,200.00	9,233.00	13,665.32	7,848.48	143.65	138.35	164.716	1,093.90	-6,016.79	1,393.23	1,292.08	101.15	13.774	
15,300.00	9,233.00	13,765.28	7,845.51	145.90	140.60	164.685	1,093.99	-6,116.70	1,396.19	1,293.49	102.70	13.595	
15,400.00	9,233.00	13,865.23	7,842.54	148.14	142.85	164.653	1,094.08	-6,216.62	1,399.14	1,294.89	104.25	13.421	
15,500.00	9,233.00	13,965.19	7,839.57	150.39	145.11	164.622	1,094.18	-6,316.53	1,402.09	1,296.29	105.80	13.252	
15,600.00	9,233.00	14,065.14	7,836.60	152.63	147.37	164.591	1,094.27	-6,416.44	1,405.04	1,297.69	107.36	13.087	
15,700.00	9,233.00	14,165.10	7,833.63	154.88	149.63	164.559	1,094.36	-6,516.35	1,408.00	1,299.08	108.91	12.928	
15,800.00	9,233.00	14,265.05	7,830.66	157.14	151.89	164.528	1,094.45	-6,616.26	1,410.95	1,300.48	110.47	12.772	
15,900.00	9,233.00	14,365.01	7,827.70	159.39	154.15	164.497	1,094.54	-6,716.17	1,413.90	1,301.87	112.03	12.621	
16,000.00	9,233.00	14,464.97	7,824.73	161.65	156.42	164.466	1,094.63	-6,816.09	1,416.86	1,303.27	113.59	12.473	
16,100.00	9,233.00	14,564.92	7,821.76	163.90	158.68	164.434	1,094.72	-6,916.00	1,419.81	1,304.66	115.15	12.330	
16,200.00	9,233.00	14,664.88	7,818.79	166.16	160.95	164.403	1,094.82	-7,015.91	1,422.76	1,306.05	116.71	12.190	
16,300.00	9,233.00	14,764.83	7,815.82	168.42	163.22	164.372	1,094.91	-7,115.82	1,425.72	1,307.44	118.28	12.054	
16,400.00	9,233.00	14,864.79	7,812.85	170.68	165.48	164.340	1,095.00	-7,215.73	1,428.67	1,308.83	119.84	11.921	
16,500.00	9,233.00	14,964.75	7,809.89	172.95	167.75	164.309	1,095.09	-7,315.64	1,431.62	1,310.22	121.41	11.792	
16,600.00	9,233.00	15,064.70	7,806.92	175.21	170.03	164.278	1,095.18	-7,415.56	1,434.58	1,311.60	122.97	11.666	
16,700.00	9,233.00	15,164.66	7,803.95	177.47	172.30	164.247	1,095.27	-7,515.47	1,437.53	1,312.99	124.54	11.543	
16,800.00	9,233.00	15,264.61	7,800.98	179.74	174.57	164.216	1,095.36	-7,615.38	1,440.48	1,314.38	126.11	11.423	
16,900.00	9,233.00	15,364.57	7,798.01	182.01	176.85	164.184	1,095.46	-7,715.29	1,443.44	1,315.76	127.68	11.305	
17,000.00	9,233.00	15,464.53	7,795.04	184.28	179.12	164.153	1,095.55	-7,815.20	1,446.39	1,317.14	129.25	11.191	
17,100.00	9,233.00	15,564.48	7,792.07	186.55	181.40	164.122	1,095.64	-7,915.12	1,449.34	1,318.53	130.82	11.079	
17,200.00	9,233.00	15,664.44	7,789.11	188.82	183.67	164.091	1,095.73	-8,015.03	1,452.30	1,319.91	132.39	10.970	
17,300.00	9,233.00	15,764.39	7,786.14	191.09	185.95	164.060	1,095.82	-8,114.94	1,455.25	1,321.29	133.96	10.864	
17,400.00	9,233.00	15,864.35	7,783.17	193.36	188.23	164.028	1,095.91	-8,214.85	1,458.21	1,322.68	135.53	10.759	
17,500.00	9,233.00	15,964.30	7,780.20	195.64	190.51	163.997	1,096.00	-8,314.76	1,461.16	1,324.06	137.10	10.657	
17,600.00	9,233.00	16,064.26	7,777.23	197.91	192.79	163.966	1,096.10	-8,414.67	1,464.11	1,325.44	138.67	10.558	
17,700.00	9,233.00	16,164.22	7,774.26	200.19	195.07	163.935	1,096.19	-8,514.59	1,467.07	1,326.82	140.25	10.461	
17,800.00	9,233.00	16,264.17	7,771.29	202.46	197.35	163.904	1,096.28	-8,614.50	1,470.02	1,328.20	141.82	10.365	
17,900.00	9,233.00	16,364.13	7,768.33	204.74	199.63	163.873	1,096.37	-8,714.41	1,472.98	1,329.58	143.40	10.272	
18,000.00	9,233.00	16,464.08	7,765.36	207.02	201.91	163.842	1,096.46	-8,814.32	1,475.93	1,330.96	144.97	10.181	
18,100.00	9,233.00	16,564.04	7,762.39	209.29	204.20	163.811	1,096.55	-8,914.23	1,478.89	1,332.34	146.55	10.092	
18,200.00	9,233.00	16,664.00	7,759.42	211.57	206.48	163.780	1,096.64	-9,014.14	1,481.84	1,333.72	148.12	10.004	
18,300.00	9,233.00	16,763.95	7,756.45	213.85	208.76	163.748	1,096.74	-9,114.06	1,484.79	1,335.10	149.70	9.919	
18,400.00	9,233.00	16,863.91	7,753.48	216.13	211.05	163.717	1,096.83	-9,213.97	1,487.75	1,336.47	151.27	9.835	
18,500.00	9,233.00	16,963.86	7,750.51	218.42	213.33	163.686	1,096.92	-9,313.88	1,490.70	1,337.85	152.85	9.753	
18,600.00	9,233.00	17,063.82	7,747.55	220.70	215.62	163.655	1,097.01	-9,413.79	1,493.66	1,339.23	154.43	9.672	
18,700.00	9,233.00	17,163.78	7,744.58	222.98	217.91	163.624	1,097.10	-9,513.70	1,496.61	1,340.61	156.01	9.593	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 125H - Wellbore #1 - Design #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,800.00	9,233.00	17,263.73	7,741.61	225.26	220.19	163.593	1,097.19	-9,613.62	1,499.57	1,341.98	157.58	9.516	
18,900.00	9,233.00	17,363.69	7,738.64	227.55	222.48	163.562	1,097.28	-9,713.53	1,502.52	1,343.36	159.16	9.440	
19,000.00	9,233.00	17,463.64	7,735.67	229.83	224.77	163.531	1,097.38	-9,813.44	1,505.48	1,344.74	160.74	9.366	
19,100.00	9,233.00	17,563.60	7,732.70	232.12	227.06	163.500	1,097.47	-9,913.35	1,508.43	1,346.12	162.32	9.293	
19,200.00	9,233.00	17,663.55	7,729.74	234.40	229.34	163.469	1,097.56	-10,013.26	1,511.39	1,347.49	163.90	9.222	
19,300.00	9,233.00	17,763.51	7,726.77	236.69	231.63	163.438	1,097.65	-10,113.17	1,514.34	1,348.87	165.48	9.151	
19,400.00	9,233.00	17,863.47	7,723.80	238.97	233.92	163.407	1,097.74	-10,213.09	1,517.30	1,350.24	167.05	9.083	
19,500.00	9,233.00	17,963.42	7,720.83	241.26	236.21	163.376	1,097.83	-10,313.00	1,520.25	1,351.62	168.63	9.015	
19,600.00	9,233.00	18,063.38	7,717.86	243.55	238.50	163.345	1,097.92	-10,412.91	1,523.21	1,353.00	170.21	8.949	
19,700.00	9,233.00	18,163.33	7,714.89	245.84	240.79	163.314	1,098.01	-10,512.82	1,526.16	1,354.37	171.79	8.884	
19,800.00	9,233.00	18,263.29	7,711.92	248.12	243.08	163.284	1,098.11	-10,612.73	1,529.12	1,355.75	173.37	8.820	
19,900.00	9,233.00	18,363.25	7,708.96	250.41	245.38	163.253	1,098.20	-10,712.64	1,532.08	1,357.12	174.95	8.757	
19,971.26	9,233.00	18,434.48	7,706.84	252.04	247.01	163.231	1,098.26	-10,783.84	1,534.18	1,358.10	176.08	8.713	
20,000.00	9,233.00	18,463.20	7,705.99	252.70	247.67	163.222	1,098.29	-10,812.56	1,535.03	1,358.50	176.53	8.695	
20,011.26	9,233.00	18,474.46	7,705.65	252.96	247.93	163.218	1,098.30	-10,823.81	1,535.36	1,358.65	176.71	8.689	

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-45.939	30.00	-31.00	43.14				
100.00	100.00	100.00	100.00	0.13	0.13	-45.939	30.00	-31.00	43.14	42.88	0.26	168.311	
200.00	200.00	200.00	200.00	0.49	0.49	-45.939	30.00	-31.00	43.14	42.17	0.97	44.325	
300.00	300.00	300.00	300.00	0.85	0.85	-45.939	30.00	-31.00	43.14	41.45	1.69	25.523	
400.00	400.00	400.00	400.00	1.20	1.20	-45.939	30.00	-31.00	43.14	40.73	2.41	17.921	
500.00	500.00	500.00	500.00	1.56	1.56	-45.939	30.00	-31.00	43.14	40.02	3.12	13.809	
600.00	600.00	600.00	600.00	1.92	1.92	-45.939	30.00	-31.00	43.14	39.30	3.84	11.231	
700.00	700.00	700.00	700.00	2.28	2.28	-45.939	30.00	-31.00	43.14	38.58	4.56	9.465	
750.00	750.00	750.00	750.00	2.46	2.46	-45.939	30.00	-31.00	43.14	38.22	4.92	8.775	
800.00	800.00	800.00	800.00	2.64	2.64	-46.171	30.00	-31.00	43.01	37.73	5.27	8.153	
900.00	899.98	899.98	899.98	3.00	3.00	-48.078	30.00	-31.00	41.99	35.99	5.99	7.008	
1,000.00	999.92	999.92	999.92	3.36	3.35	-52.171	30.00	-31.00	40.09	33.38	6.71	5.977	
1,100.00	1,099.78	1,099.78	1,099.78	3.71	3.71	-59.021	30.00	-31.00	37.68	30.25	7.42	5.075	
1,200.00	1,199.54	1,199.54	1,199.54	4.07	4.07	-69.388	30.00	-31.00	35.42	27.28	8.14	4.351	
1,296.02	1,295.20	1,295.20	1,295.20	4.42	4.41	-83.000	30.00	-31.00	34.43	25.59	8.83	3.898	CC
1,300.00	1,299.16	1,299.16	1,299.16	4.43	4.43	-83.631	30.00	-31.00	34.43	25.57	8.86	3.885	ES
1,400.00	1,398.61	1,398.61	1,398.61	4.80	4.78	-100.467	30.00	-31.00	36.09	26.51	9.58	3.766	SF
1,500.00	1,497.86	1,497.86	1,497.86	5.17	5.14	-116.769	30.00	-31.00	41.41	31.11	10.30	4.019	
1,600.00	1,596.89	1,596.89	1,596.89	5.55	5.49	-130.015	30.00	-31.00	50.49	39.47	11.02	4.580	
1,630.39	1,626.93	1,626.93	1,626.93	5.66	5.60	-133.329	30.00	-31.00	53.93	42.68	11.24	4.797	
1,700.00	1,695.72	1,695.72	1,695.72	5.93	5.85	-139.576	30.00	-31.00	62.50	50.76	11.74	5.323	
1,800.00	1,794.54	1,794.54	1,794.54	6.31	6.20	-145.967	30.00	-31.00	75.74	63.29	12.46	6.081	
1,900.00	1,893.36	1,893.36	1,893.36	6.70	6.56	-150.418	30.00	-31.00	89.65	76.47	13.17	6.806	
2,000.00	1,992.18	1,992.18	1,992.18	7.09	6.91	-153.659	30.00	-31.00	103.94	90.06	13.89	7.484	
2,100.00	2,091.01	2,091.01	2,091.01	7.48	7.27	-156.111	30.00	-31.00	118.49	103.89	14.61	8.113	
2,200.00	2,189.83	2,189.83	2,189.83	7.88	7.62	-158.024	30.00	-31.00	133.21	117.89	15.32	8.694	
2,300.00	2,288.65	2,288.65	2,288.65	8.27	7.97	-159.554	30.00	-31.00	148.05	132.01	16.04	9.229	
2,400.00	2,387.47	2,387.47	2,387.47	8.67	8.33	-160.806	30.00	-31.00	162.98	146.22	16.76	9.724	
2,500.00	2,486.29	2,486.29	2,486.29	9.07	8.68	-161.847	30.00	-31.00	177.97	160.49	17.48	10.181	
2,600.00	2,585.12	2,585.12	2,585.12	9.47	9.04	-162.726	30.00	-31.00	193.00	174.80	18.20	10.604	
2,700.00	2,683.94	2,683.94	2,683.94	9.87	9.39	-163.477	30.00	-31.00	208.08	189.16	18.92	10.998	
2,800.00	2,782.76	2,782.76	2,782.76	10.27	9.75	-164.127	30.00	-31.00	223.19	203.55	19.64	11.363	
2,900.00	2,881.58	2,881.58	2,881.58	10.67	10.10	-164.695	30.00	-31.00	238.32	217.96	20.36	11.704	
3,000.00	2,980.40	2,980.40	2,980.40	11.07	10.45	-165.195	30.00	-31.00	253.48	232.40	21.08	12.022	
3,100.00	3,079.22	3,079.22	3,079.22	11.48	10.81	-165.638	30.00	-31.00	268.65	246.84	21.81	12.320	
3,200.00	3,178.05	3,178.05	3,178.05	11.88	11.16	-166.034	30.00	-31.00	283.84	261.31	22.53	12.599	
3,300.00	3,276.87	3,273.15	3,273.15	12.28	11.49	-166.410	29.53	-31.00	299.51	276.30	23.21	12.905	
3,400.00	3,375.69	3,366.74	3,366.72	12.69	11.80	-166.812	27.57	-31.00	316.73	292.87	23.86	13.274	
3,500.00	3,474.51	3,459.77	3,459.68	13.09	12.10	-167.229	24.11	-31.00	335.53	311.03	24.50	13.695	
3,600.00	3,573.33	3,552.20	3,551.97	13.50	12.40	-167.653	19.18	-31.00	355.89	330.76	25.13	14.161	
3,700.00	3,672.16	3,643.98	3,643.54	13.90	12.70	-168.077	12.81	-31.00	377.81	352.05	25.76	14.669	
3,800.00	3,770.98	3,737.49	3,736.71	14.31	13.01	-168.498	4.93	-31.00	401.16	374.76	26.40	15.197	
3,900.00	3,869.80	3,834.61	3,833.46	14.71	13.33	-168.890	-3.53	-31.00	424.81	397.73	27.08	15.686	
4,000.00	3,968.62	3,931.73	3,930.22	15.12	13.65	-169.239	-12.00	-31.00	448.48	420.71	27.77	16.151	
4,100.00	4,067.44	4,028.85	4,026.97	15.53	13.98	-169.554	-20.46	-31.00	472.17	443.71	28.45	16.594	
4,200.00	4,166.26	4,125.98	4,123.72	15.93	14.31	-169.839	-28.93	-31.00	495.86	466.72	29.14	17.014	
4,300.00	4,265.09	4,223.91	4,221.28	16.34	14.64	-170.103	-37.45	-30.96	519.56	489.72	29.84	17.410	
4,400.00	4,363.91	4,325.02	4,322.03	16.74	14.99	-170.467	-45.94	-29.74	542.77	512.20	30.57	17.753	
4,500.00	4,462.73	4,426.35	4,422.99	17.15	15.34	-170.968	-53.98	-26.78	565.31	534.00	31.31	18.058	
4,600.00	4,561.55	4,525.07	4,521.34	17.56	15.68	-171.540	-61.47	-22.59	587.35	555.33	32.01	18.347	
4,700.00	4,660.37	4,622.45	4,618.35	17.97	16.02	-172.073	-68.83	-18.36	609.40	576.69	32.71	18.629	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,759.20	4,719.83	4,715.36	18.37	16.36	-172.569	-76.19	-14.13	631.51	598.10	33.41	18.901	
4,900.00	4,858.02	4,817.21	4,812.36	18.78	16.70	-173.031	-83.55	-9.90	653.66	619.55	34.11	19.162	
5,000.00	4,956.84	4,914.59	4,909.37	19.19	17.04	-173.463	-90.91	-5.67	675.85	641.03	34.81	19.413	
5,100.00	5,055.66	5,011.96	5,006.38	19.60	17.39	-173.867	-98.27	-1.45	698.07	662.56	35.52	19.654	
5,200.00	5,154.48	5,109.34	5,103.39	20.00	17.73	-174.247	-105.63	2.78	720.33	684.11	36.22	19.887	
5,300.00	5,253.30	5,206.72	5,200.40	20.41	18.08	-174.603	-112.98	7.01	742.62	705.69	36.93	20.111	
5,400.00	5,352.13	5,304.10	5,297.41	20.82	18.42	-174.939	-120.34	11.24	764.93	727.30	37.63	20.327	
5,500.00	5,450.95	5,401.48	5,394.41	21.23	18.77	-175.256	-127.70	15.46	787.27	748.93	38.34	20.535	
5,600.00	5,549.77	5,498.86	5,491.42	21.63	19.12	-175.555	-135.06	19.69	809.63	770.59	39.05	20.735	
5,700.00	5,648.59	5,596.24	5,588.43	22.04	19.47	-175.839	-142.42	23.92	832.01	792.26	39.75	20.929	
5,800.00	5,747.41	5,693.62	5,685.44	22.45	19.82	-176.107	-149.78	28.15	854.42	813.95	40.46	21.116	
5,900.00	5,846.24	5,790.99	5,782.45	22.86	20.17	-176.362	-157.14	32.37	876.83	835.66	41.17	21.297	
6,000.00	5,945.06	5,888.37	5,879.45	23.27	20.52	-176.604	-164.50	36.60	899.27	857.39	41.88	21.471	
6,054.08	5,998.50	5,941.04	5,931.92	23.49	20.71	-176.730	-168.48	38.89	911.41	869.14	42.27	21.563	
6,100.00	6,043.88	5,985.75	5,976.46	23.68	20.87	-176.846	-171.86	40.83	921.72	879.12	42.59	21.640	
6,200.00	6,142.71	6,083.06	6,073.40	24.08	21.23	-177.166	-179.21	45.05	944.14	900.83	43.30	21.803	
6,229.83	6,172.19	6,112.07	6,102.30	24.20	21.33	-177.279	-181.40	46.31	950.82	907.31	43.52	21.850	
6,300.00	6,241.54	6,180.30	6,170.27	24.49	21.58	-177.550	-186.56	49.28	966.55	922.54	44.01	21.961	
6,400.00	6,340.36	6,277.54	6,267.15	24.89	21.93	-177.921	-193.91	53.50	989.01	944.29	44.72	22.114	
6,500.00	6,439.18	6,374.79	6,364.02	25.30	22.29	-178.275	-201.26	57.72	1,011.51	966.08	45.43	22.264	
6,600.00	6,538.00	6,472.03	6,460.89	25.71	22.64	-178.614	-208.61	61.94	1,034.04	987.90	46.14	22.409	
6,700.00	6,636.82	6,569.27	6,557.76	26.11	23.00	-178.939	-215.96	66.16	1,056.61	1,009.76	46.86	22.550	
6,800.00	6,735.64	6,685.89	6,674.01	26.52	23.42	-179.273	-224.05	70.81	1,078.67	1,030.96	47.72	22.606	
6,900.00	6,834.47	6,815.84	6,803.79	26.93	23.89	-179.516	-229.61	74.01	1,098.11	1,049.46	48.65	22.573	
7,000.00	6,933.29	6,945.36	6,933.29	27.33	24.34	-179.637	-231.35	75.01	1,114.66	1,065.12	49.54	22.501	
7,100.00	7,032.11	7,044.18	7,032.11	27.74	24.68	-179.703	-231.35	75.01	1,129.91	1,079.66	50.25	22.485	
7,200.00	7,130.93	7,143.01	7,130.93	28.15	25.02	-179.767	-231.35	75.01	1,145.16	1,094.20	50.96	22.470	
7,300.00	7,229.75	7,241.83	7,229.75	28.56	25.36	-179.829	-231.35	75.01	1,160.42	1,108.74	51.68	22.455	
7,400.00	7,328.58	7,340.65	7,328.58	28.96	25.70	-179.890	-231.35	75.01	1,175.67	1,123.28	52.39	22.440	
7,500.00	7,427.40	7,439.47	7,427.40	29.37	26.04	-179.949	-231.35	75.01	1,190.93	1,137.82	53.11	22.425	
7,600.00	7,526.22	7,538.29	7,526.22	29.78	26.38	179.993	-231.35	75.01	1,206.18	1,152.36	53.82	22.411	
7,700.00	7,625.04	7,637.05	7,624.85	30.18	26.71	-179.903	-231.35	71.60	1,221.44	1,166.91	54.53	22.400	
7,800.00	7,723.86	7,732.62	7,718.55	30.59	27.02	-179.114	-231.34	53.33	1,236.85	1,181.65	55.20	22.406	
7,900.00	7,822.68	7,820.36	7,800.81	31.00	27.29	-177.796	-231.33	23.07	1,253.06	1,197.25	55.81	22.451	
8,000.00	7,921.51	7,900.00	7,870.70	31.41	27.50	-176.161	-231.32	-14.99	1,271.06	1,214.71	56.35	22.556	
8,100.00	8,020.33	7,964.03	7,922.64	31.82	27.65	-174.600	-231.31	-52.37	1,291.85	1,235.10	56.75	22.763	
8,200.00	8,119.15	8,020.17	7,964.50	32.22	27.77	-173.084	-231.30	-89.75	1,316.31	1,259.28	57.03	23.080	
8,300.00	8,217.97	8,067.43	7,996.76	32.63	27.91	-171.735	-231.29	-124.26	1,345.03	1,287.86	57.16	23.530	
8,400.00	8,316.79	8,100.00	8,017.29	33.04	28.04	-170.814	-231.28	-149.54	1,378.37	1,321.31	57.06	24.155	
8,500.00	8,415.62	8,150.00	8,045.93	33.45	28.25	-169.270	-231.27	-190.51	1,416.43	1,359.38	57.05	24.829	
8,600.00	8,514.44	8,169.68	8,056.20	33.85	28.34	-168.755	-231.26	-207.30	1,459.10	1,402.45	56.65	25.758	
8,700.00	8,613.26	8,200.00	8,070.88	34.26	28.48	-167.863	-231.26	-233.82	1,506.37	1,450.09	56.28	26.764	
8,761.09	8,673.63	8,200.00	8,070.88	34.51	28.48	-167.972	-231.26	-233.82	1,537.39	1,481.56	55.83	27.537	
8,800.00	8,712.04	8,216.14	8,078.12	34.67	28.56	-167.524	-231.25	-248.24	1,557.61	1,501.89	55.72	27.956	
8,850.00	8,761.06	8,227.83	8,083.11	34.87	28.63	-167.417	-231.25	-258.82	1,583.58	1,528.13	55.45	28.557	
8,900.00	8,809.36	8,250.00	8,091.97	35.06	28.74	-167.098	-231.24	-279.14	1,609.32	1,554.02	55.30	29.102	
8,950.00	8,856.58	8,250.00	8,091.97	35.24	28.74	-167.731	-231.24	-279.14	1,634.39	1,579.50	54.89	29.775	
9,000.00	8,902.35	8,267.42	8,098.38	35.41	28.84	-167.890	-231.24	-295.34	1,658.74	1,604.06	54.69	30.332	
9,050.00	8,946.33	8,281.82	8,103.30	35.58	28.93	-168.301	-231.23	-308.87	1,682.14	1,627.69	54.45	30.894	
9,100.00	8,988.19	8,300.00	8,109.03	35.73	29.03	-168.710	-231.23	-326.12	1,704.38	1,650.12	54.26	31.410	
9,150.00	9,027.59	8,300.00	8,109.03	35.88	29.03	-169.916	-231.23	-326.12	1,725.39	1,671.50	53.89	32.014	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	8,327.64	8,116.68	36.02	29.21	-170.222	-231.22	-352.68	1,744.71	1,690.85	53.86	32.396	
9,250.00	9,097.89	8,350.00	8,121.92	36.15	29.36	-170.829	-231.22	-374.42	1,762.53	1,708.76	53.78	32.775	
9,300.00	9,128.24	8,350.00	8,121.92	36.27	29.36	-172.379	-231.22	-374.42	1,778.63	1,725.12	53.50	33.243	
9,350.00	9,155.08	8,376.33	8,127.01	36.40	29.54	-173.025	-231.21	-400.24	1,792.74	1,739.19	53.55	33.481	
9,400.00	9,178.21	8,400.00	8,130.56	36.53	29.71	-173.845	-231.20	-423.65	1,805.02	1,751.42	53.60	33.678	
9,450.00	9,197.44	8,400.00	8,130.56	36.67	29.71	-175.644	-231.20	-423.65	1,815.26	1,761.79	53.47	33.947	
9,500.00	9,212.64	8,426.76	8,133.41	36.83	29.92	-176.465	-231.19	-450.25	1,823.30	1,769.63	53.67	33.975	
9,550.00	9,223.67	8,450.00	8,134.87	37.02	30.09	-177.463	-231.19	-473.45	1,829.29	1,775.42	53.87	33.956	
9,600.00	9,230.48	8,450.00	8,134.87	37.23	30.09	-179.393	-231.19	-473.45	1,833.13	1,779.19	53.94	33.984	
9,654.13	9,233.00	8,484.51	8,135.31	37.50	30.37	179.845	-231.18	-507.95	1,834.67	1,780.29	54.38	33.738	
9,700.00	9,233.00	8,515.63	8,134.77	37.77	30.65	179.270	-231.17	-539.06	1,835.11	1,780.29	54.82	33.477	
9,800.00	9,233.00	8,615.61	8,133.02	38.46	31.60	179.269	-231.14	-639.03	1,836.20	1,780.02	56.18	32.684	
9,900.00	9,233.00	8,715.60	8,131.28	39.30	32.69	179.268	-231.11	-739.00	1,837.30	1,779.54	57.76	31.808	
10,000.00	9,233.00	8,815.58	8,129.53	40.29	33.90	179.266	-231.08	-838.97	1,838.39	1,778.85	59.54	30.876	
10,100.00	9,233.00	8,915.57	8,127.79	41.39	35.21	179.265	-231.05	-938.94	1,839.49	1,777.99	61.50	29.910	
10,200.00	9,233.00	9,015.55	8,126.04	42.60	36.63	179.264	-231.02	-1,038.91	1,840.59	1,776.97	63.62	28.929	
10,300.00	9,233.00	9,115.53	8,124.30	43.90	38.14	179.263	-230.99	-1,138.88	1,841.69	1,775.80	65.89	27.950	
10,400.00	9,233.00	9,215.52	8,122.55	45.30	39.72	179.262	-230.96	-1,238.85	1,842.79	1,774.49	68.30	26.983	
10,500.00	9,233.00	9,315.50	8,120.81	46.76	41.37	179.261	-230.93	-1,338.82	1,843.89	1,773.08	70.82	26.038	
10,600.00	9,233.00	9,415.49	8,119.06	48.30	43.08	179.260	-230.90	-1,438.79	1,844.99	1,771.55	73.44	25.122	
10,700.00	9,233.00	9,515.47	8,117.32	49.89	44.85	179.258	-230.87	-1,538.75	1,846.10	1,769.94	76.16	24.240	
10,800.00	9,233.00	9,615.46	8,115.57	51.55	46.66	179.257	-230.84	-1,638.72	1,847.20	1,768.24	78.96	23.394	
10,900.00	9,233.00	9,715.44	8,113.83	53.25	48.51	179.256	-230.81	-1,738.69	1,848.31	1,766.47	81.84	22.585	
11,000.00	9,233.00	9,815.43	8,112.08	55.00	50.41	179.255	-230.78	-1,838.66	1,849.41	1,764.63	84.78	21.813	
11,100.00	9,233.00	9,915.41	8,110.34	56.79	52.33	179.254	-230.75	-1,938.63	1,850.52	1,762.73	87.79	21.080	
11,200.00	9,233.00	10,015.40	8,108.59	58.61	54.29	179.253	-230.72	-2,038.60	1,851.63	1,760.79	90.84	20.383	
11,300.00	9,233.00	10,115.38	8,106.85	60.47	56.27	179.251	-230.69	-2,138.57	1,852.74	1,758.79	93.95	19.721	
11,400.00	9,233.00	10,215.37	8,105.10	62.36	58.28	179.250	-230.66	-2,238.54	1,853.85	1,756.75	97.09	19.093	
11,500.00	9,233.00	10,315.35	8,103.36	64.28	60.31	179.249	-230.63	-2,338.51	1,854.96	1,754.68	100.28	18.498	
11,600.00	9,233.00	10,415.34	8,101.61	66.22	62.36	179.248	-230.60	-2,438.48	1,856.07	1,752.57	103.50	17.933	
11,700.00	9,233.00	10,515.32	8,099.87	68.19	64.42	179.247	-230.57	-2,538.45	1,857.18	1,750.44	106.75	17.398	
11,800.00	9,233.00	10,615.31	8,098.12	70.17	66.51	179.246	-230.54	-2,638.42	1,858.30	1,748.27	110.03	16.889	
11,900.00	9,233.00	10,715.29	8,096.38	72.18	68.60	179.245	-230.51	-2,738.39	1,859.41	1,746.08	113.33	16.407	
12,000.00	9,233.00	10,815.28	8,094.63	74.20	70.71	179.243	-230.48	-2,838.36	1,860.53	1,743.87	116.66	15.949	
12,100.00	9,233.00	10,915.26	8,092.89	76.25	72.84	179.242	-230.45	-2,938.33	1,861.65	1,741.64	120.00	15.513	
12,200.00	9,233.00	11,015.25	8,091.14	78.30	74.97	179.241	-230.42	-3,038.30	1,862.77	1,739.40	123.37	15.099	
12,300.00	9,233.00	11,115.23	8,089.40	80.37	77.11	179.240	-230.39	-3,138.27	1,863.88	1,737.14	126.75	14.705	
12,400.00	9,233.00	11,215.21	8,087.65	82.45	79.27	179.239	-230.36	-3,238.24	1,865.00	1,734.86	130.14	14.330	
12,500.00	9,233.00	11,315.20	8,085.91	84.55	81.43	179.238	-230.33	-3,338.21	1,866.13	1,732.57	133.55	13.973	
12,600.00	9,233.00	11,415.18	8,084.16	86.66	83.60	179.236	-230.30	-3,438.18	1,867.25	1,730.27	136.98	13.632	
12,700.00	9,233.00	11,515.17	8,082.42	88.77	85.78	179.235	-230.27	-3,538.14	1,868.37	1,727.96	140.41	13.307	
12,800.00	9,233.00	11,615.15	8,080.67	90.90	87.96	179.234	-230.24	-3,638.11	1,869.49	1,725.64	143.85	12.996	
12,900.00	9,233.00	11,715.14	8,078.92	93.03	90.15	179.233	-230.21	-3,738.08	1,870.62	1,723.31	147.31	12.699	
13,000.00	9,233.00	11,815.12	8,077.18	95.18	92.35	179.232	-230.18	-3,838.05	1,871.74	1,720.98	150.77	12.415	
13,100.00	9,233.00	11,915.11	8,075.43	97.33	94.55	179.231	-230.15	-3,938.02	1,872.87	1,718.64	154.23	12.143	
13,200.00	9,233.00	12,008.19	8,073.81	99.48	96.60	178.961	-230.13	-4,031.09	1,874.01	1,716.45	157.56	11.894	
13,300.00	9,233.00	12,100.85	8,071.27	101.65	98.65	178.674	-230.10	-4,123.71	1,875.75	1,714.91	160.84	11.662	
13,400.00	9,233.00	12,200.80	8,068.30	103.82	100.87	178.671	-230.07	-4,223.62	1,877.64	1,713.37	164.27	11.430	
13,500.00	9,233.00	12,300.76	8,065.34	106.00	103.09	178.667	-230.04	-4,323.53	1,879.53	1,711.83	167.70	11.208	
13,600.00	9,233.00	12,400.71	8,062.37	108.18	105.31	178.664	-230.01	-4,423.45	1,881.43	1,710.29	171.13	10.994	
13,700.00	9,233.00	12,500.67	8,059.40	110.37	107.54	178.660	-229.98	-4,523.36	1,883.33	1,708.76	174.57	10.788	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	12,600.62	8,056.43	112.56	109.77	178.657	-229.95	-4,623.27	1,885.23	1,707.22	178.00	10.591	
13,900.00	9,233.00	12,700.58	8,053.46	114.76	112.00	178.654	-229.92	-4,723.18	1,887.13	1,705.69	181.44	10.401	
14,000.00	9,233.00	12,800.54	8,050.49	116.96	114.24	178.650	-229.89	-4,823.09	1,889.04	1,704.16	184.88	10.218	
14,100.00	9,233.00	12,900.49	8,047.52	119.17	116.48	178.647	-229.86	-4,923.01	1,890.95	1,702.63	188.31	10.041	
14,200.00	9,233.00	13,000.45	8,044.55	121.38	118.72	178.644	-229.83	-5,022.92	1,892.86	1,701.11	191.75	9.871	
14,300.00	9,233.00	13,100.40	8,041.59	123.59	120.96	178.640	-229.80	-5,122.83	1,894.77	1,699.59	195.19	9.708	
14,400.00	9,233.00	13,200.36	8,038.62	125.81	123.21	178.637	-229.77	-5,222.74	1,896.69	1,698.07	198.62	9.549	
14,500.00	9,233.00	13,300.32	8,035.65	128.03	125.46	178.633	-229.74	-5,322.65	1,898.61	1,696.56	202.05	9.397	
14,600.00	9,233.00	13,400.27	8,032.68	130.25	127.71	178.630	-229.71	-5,422.56	1,900.54	1,695.05	205.49	9.249	
14,700.00	9,233.00	13,500.23	8,029.71	132.48	129.96	178.627	-229.68	-5,522.48	1,902.46	1,693.54	208.92	9.106	
14,800.00	9,233.00	13,600.18	8,026.74	134.71	132.22	178.623	-229.65	-5,622.39	1,904.39	1,692.04	212.35	8.968	
14,900.00	9,233.00	13,700.14	8,023.77	136.94	134.47	178.620	-229.62	-5,722.30	1,906.32	1,690.55	215.77	8.835	
15,000.00	9,233.00	13,800.10	8,020.81	139.18	136.73	178.617	-229.59	-5,822.21	1,908.25	1,689.06	219.20	8.706	
15,100.00	9,233.00	13,900.05	8,017.84	141.41	138.99	178.613	-229.56	-5,922.12	1,910.19	1,687.57	222.62	8.581	
15,200.00	9,233.00	14,000.01	8,014.87	143.65	141.26	178.610	-229.53	-6,022.03	1,912.13	1,686.09	226.04	8.459	
15,300.00	9,233.00	14,099.96	8,011.90	145.90	143.52	178.607	-229.50	-6,121.95	1,914.07	1,684.62	229.46	8.342	
15,400.00	9,233.00	14,199.92	8,008.93	148.14	145.78	178.603	-229.48	-6,221.86	1,916.01	1,683.15	232.87	8.228	
15,500.00	9,233.00	14,299.87	8,005.96	150.39	148.05	178.600	-229.45	-6,321.77	1,917.96	1,681.68	236.28	8.117	
15,600.00	9,233.00	14,399.83	8,002.99	152.63	150.32	178.596	-229.42	-6,421.68	1,919.91	1,680.22	239.69	8.010	
15,700.00	9,233.00	14,499.79	8,000.02	154.88	152.59	178.593	-229.39	-6,521.59	1,921.86	1,678.77	243.09	7.906	
15,800.00	9,233.00	14,599.74	7,997.06	157.14	154.86	178.590	-229.36	-6,621.51	1,923.82	1,677.32	246.49	7.805	
15,900.00	9,233.00	14,699.70	7,994.09	159.39	157.13	178.586	-229.33	-6,721.42	1,925.77	1,675.88	249.89	7.706	
16,000.00	9,233.00	14,799.65	7,991.12	161.65	159.40	178.583	-229.30	-6,821.33	1,927.73	1,674.45	253.29	7.611	
16,100.00	9,233.00	14,899.61	7,988.15	163.90	161.67	178.580	-229.27	-6,921.24	1,929.70	1,673.02	256.68	7.518	
16,200.00	9,233.00	14,999.57	7,985.18	166.16	163.95	178.576	-229.24	-7,021.15	1,931.66	1,671.60	260.07	7.428	
16,300.00	9,233.00	15,099.52	7,982.21	168.42	166.22	178.573	-229.21	-7,121.06	1,933.63	1,670.18	263.45	7.340	
16,400.00	9,233.00	15,199.48	7,979.24	170.68	168.50	178.569	-229.18	-7,220.98	1,935.60	1,668.77	266.83	7.254	
16,500.00	9,233.00	15,299.43	7,976.28	172.95	170.78	178.566	-229.15	-7,320.89	1,937.57	1,667.37	270.21	7.171	
16,600.00	9,233.00	15,399.39	7,973.31	175.21	173.06	178.563	-229.12	-7,420.80	1,939.55	1,665.97	273.58	7.090	
16,700.00	9,233.00	15,499.34	7,970.34	177.47	175.34	178.559	-229.09	-7,520.71	1,941.53	1,664.58	276.95	7.010	
16,800.00	9,233.00	15,599.30	7,967.37	179.74	177.61	178.556	-229.06	-7,620.62	1,943.51	1,663.19	280.31	6.933	
16,900.00	9,233.00	15,699.26	7,964.40	182.01	179.90	178.553	-229.03	-7,720.53	1,945.49	1,661.82	283.67	6.858	
17,000.00	9,233.00	15,799.21	7,961.43	184.28	182.18	178.549	-229.00	-7,820.45	1,947.47	1,660.45	287.03	6.785	
17,100.00	9,233.00	15,899.17	7,958.46	186.55	184.46	178.546	-228.97	-7,920.36	1,949.46	1,659.08	290.38	6.714	
17,200.00	9,233.00	15,999.12	7,955.49	188.82	186.74	178.543	-228.94	-8,020.27	1,951.45	1,657.73	293.73	6.644	
17,300.00	9,233.00	16,099.08	7,952.53	191.09	189.02	178.539	-228.91	-8,120.18	1,953.44	1,656.37	297.07	6.576	
17,400.00	9,233.00	16,199.04	7,949.56	193.36	191.31	178.536	-228.88	-8,220.09	1,955.44	1,655.03	300.41	6.509	
17,500.00	9,233.00	16,298.99	7,946.59	195.64	193.59	178.532	-228.85	-8,320.01	1,957.44	1,653.69	303.74	6.444	
17,600.00	9,233.00	16,398.95	7,943.62	197.91	195.88	178.529	-228.82	-8,419.92	1,959.44	1,652.36	307.07	6.381	
17,700.00	9,233.00	16,498.90	7,940.65	200.19	198.16	178.526	-228.79	-8,519.83	1,961.44	1,651.04	310.40	6.319	
17,800.00	9,233.00	16,598.86	7,937.68	202.46	200.45	178.522	-228.76	-8,619.74	1,963.45	1,649.72	313.72	6.259	
17,900.00	9,233.00	16,698.82	7,934.71	204.74	202.74	178.519	-228.73	-8,719.65	1,965.45	1,648.41	317.04	6.199	
18,000.00	9,233.00	16,798.77	7,931.74	207.02	205.02	178.516	-228.70	-8,819.56	1,967.46	1,647.11	320.35	6.142	
18,100.00	9,233.00	16,898.73	7,928.78	209.29	207.31	178.512	-228.67	-8,919.48	1,969.48	1,645.82	323.66	6.085	
18,200.00	9,233.00	16,998.68	7,925.81	211.57	209.60	178.509	-228.64	-9,019.39	1,971.49	1,644.53	326.96	6.030	
18,300.00	9,233.00	17,098.64	7,922.84	213.85	211.89	178.506	-228.61	-9,119.30	1,973.51	1,643.24	330.26	5.976	
18,400.00	9,233.00	17,198.59	7,919.87	216.13	214.18	178.502	-228.58	-9,219.21	1,975.53	1,641.97	333.56	5.923	
18,500.00	9,233.00	17,298.55	7,916.90	218.42	216.47	178.499	-228.55	-9,319.12	1,977.55	1,640.70	336.85	5.871	
18,600.00	9,233.00	17,398.51	7,913.93	220.70	218.76	178.496	-228.52	-9,419.03	1,979.57	1,639.44	340.13	5.820	
18,700.00	9,233.00	17,498.46	7,910.96	222.98	221.05	178.492	-228.49	-9,518.95	1,981.60	1,638.19	343.41	5.770	
18,800.00	9,233.00	17,598.42	7,908.00	225.26	223.34	178.489	-228.46	-9,618.86	1,983.63	1,636.94	346.69	5.722	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 126H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	9,233.00	17,698.37	7,905.03	227.55	225.63	178.485	-228.43	-9,718.77	1,985.66	1,635.70	349.96	5.674	
19,000.00	9,233.00	17,798.33	7,902.06	229.83	227.92	178.482	-228.40	-9,818.68	1,987.70	1,634.47	353.23	5.627	
19,100.00	9,233.00	17,898.29	7,899.09	232.12	230.21	178.479	-228.37	-9,918.59	1,989.73	1,633.24	356.49	5.581	
19,200.00	9,233.00	17,998.24	7,896.12	234.40	232.50	178.475	-228.35	-10,018.51	1,991.77	1,632.02	359.75	5.537	
19,300.00	9,233.00	18,098.20	7,893.15	236.69	234.80	178.472	-228.32	-10,118.42	1,993.81	1,630.81	363.00	5.493	
19,400.00	9,233.00	18,198.15	7,890.18	238.97	237.09	178.469	-228.29	-10,218.33	1,995.86	1,629.61	366.25	5.449	
19,500.00	9,233.00	18,298.11	7,887.21	241.26	239.38	178.465	-228.26	-10,318.24	1,997.90	1,628.41	369.49	5.407	
19,600.00	9,233.00	18,398.07	7,884.25	243.55	241.68	178.462	-228.23	-10,418.15	1,999.95	1,627.22	372.73	5.366	
19,700.00	9,233.00	18,498.02	7,881.28	245.84	243.97	178.459	-228.20	-10,518.06	2,002.00	1,626.03	375.96	5.325	
19,800.00	9,233.00	18,597.98	7,878.31	248.12	246.26	178.455	-228.17	-10,617.98	2,004.05	1,624.86	379.19	5.285	
19,900.00	9,233.00	18,697.93	7,875.34	250.41	248.56	178.452	-228.14	-10,717.89	2,006.11	1,623.69	382.42	5.246	
19,971.26	9,233.00	18,769.16	7,873.22	252.04	250.19	178.449	-228.12	-10,789.09	2,007.57	1,622.86	384.71	5.218	
20,000.00	9,233.00	18,797.89	7,872.37	252.70	250.85	178.449	-228.11	-10,817.80	2,008.16	1,622.53	385.64	5.207	
20,011.26	9,233.00	18,809.15	7,872.04	252.96	251.11	178.448	-228.10	-10,829.05	2,008.40	1,622.40	386.00	5.203	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.000	0.00	-30.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	-90.000	0.00	-30.00	30.00	29.74	0.26	117.047	
200.00	200.00	200.00	200.00	0.49	0.49	-90.000	0.00	-30.00	30.00	29.03	0.97	30.825	
300.00	300.00	300.00	300.00	0.85	0.85	-90.000	0.00	-30.00	30.00	28.31	1.69	17.749	
400.00	400.00	400.00	400.00	1.20	1.20	-90.000	0.00	-30.00	30.00	27.59	2.41	12.463	
500.00	500.00	500.00	500.00	1.56	1.56	-90.000	0.00	-30.00	30.00	26.88	3.12	9.603	
600.00	600.00	600.00	600.00	1.92	1.92	-90.000	0.00	-30.00	30.00	26.16	3.84	7.810	
700.00	700.00	700.00	700.00	2.28	2.28	-90.000	0.00	-30.00	30.00	25.44	4.56	6.582	
750.00	750.00	750.00	750.00	2.46	2.46	-90.000	0.00	-30.00	30.00	25.08	4.92	6.102	
800.00	800.00	800.20	800.20	2.64	2.63	-90.690	-0.14	-29.83	29.86	24.59	5.27	5.669	
900.00	899.98	900.52	900.50	3.00	2.97	-96.419	-1.28	-28.50	28.92	22.96	5.96	4.853	
1,000.00	999.92	1,000.63	1,000.55	3.36	3.31	-108.708	-3.56	-25.83	27.98	21.33	6.66	4.204	
1,015.79	1,015.70	1,016.41	1,016.31	3.41	3.36	-111.276	-4.02	-25.29	27.96	21.19	6.77	4.131	CC, ES
1,100.00	1,099.78	1,100.38	1,100.16	3.71	3.65	-127.177	-6.96	-21.86	29.07	21.71	7.36	3.949	
1,200.00	1,199.54	1,199.68	1,199.23	4.07	4.00	-146.759	-11.32	-16.76	34.50	26.43	8.07	4.275	
1,300.00	1,299.16	1,298.72	1,298.03	4.43	4.35	-160.683	-15.81	-11.50	44.51	35.73	8.78	5.070	
1,400.00	1,398.61	1,397.52	1,396.60	4.80	4.70	-169.288	-20.29	-6.26	57.88	48.40	9.48	6.103	
1,500.00	1,497.86	1,496.07	1,494.90	5.17	5.05	-174.543	-24.75	-1.04	73.80	63.60	10.19	7.240	
1,600.00	1,596.89	1,594.31	1,592.91	5.55	5.41	-177.814	-29.20	4.17	91.82	80.92	10.90	8.423	
1,630.39	1,626.93	1,624.11	1,622.63	5.66	5.51	-178.546	-30.55	5.75	97.68	86.57	11.12	8.786	
1,700.00	1,695.72	1,692.32	1,690.67	5.93	5.76	-179.919	-33.65	9.37	111.34	99.73	11.61	9.590	
1,800.00	1,794.54	1,790.31	1,788.43	6.31	6.12	178.610	-38.09	14.56	131.04	118.72	12.32	10.637	
1,900.00	1,893.36	1,888.30	1,886.18	6.70	6.47	177.525	-42.53	19.76	150.80	137.77	13.03	11.573	
2,000.00	1,992.18	1,986.30	1,983.93	7.09	6.83	176.691	-46.97	24.96	170.60	156.86	13.74	12.414	
2,100.00	2,091.01	2,084.29	2,081.69	7.48	7.19	176.030	-51.41	30.15	190.44	175.98	14.46	13.172	
2,200.00	2,189.83	2,182.28	2,179.44	7.88	7.55	175.495	-55.85	35.35	210.29	195.12	15.17	13.858	
2,300.00	2,288.65	2,280.27	2,277.19	8.27	7.91	175.051	-60.29	40.55	230.16	214.27	15.89	14.483	
2,400.00	2,387.47	2,378.26	2,374.94	8.67	8.27	174.678	-64.73	45.74	250.04	233.43	16.61	15.054	
2,500.00	2,486.29	2,476.25	2,472.70	9.07	8.63	174.361	-69.17	50.94	269.93	252.60	17.33	15.577	
2,600.00	2,585.12	2,574.24	2,570.45	9.47	8.99	174.086	-73.61	56.14	289.83	271.78	18.05	16.058	
2,700.00	2,683.94	2,676.01	2,672.00	9.87	9.36	173.882	-77.88	61.12	309.36	290.56	18.80	16.459	
2,800.00	2,782.76	2,780.77	2,776.68	10.27	9.74	173.995	-80.56	64.26	327.09	307.53	19.56	16.726	
2,900.00	2,881.58	2,885.68	2,881.58	10.67	10.11	174.426	-81.37	65.21	342.86	322.56	20.30	16.889	
3,000.00	2,980.40	2,984.51	2,980.40	11.07	10.44	174.960	-81.37	65.21	357.82	336.81	21.01	17.034	
3,100.00	3,079.22	3,083.33	3,079.22	11.48	10.77	175.450	-81.37	65.21	372.80	351.09	21.71	17.171	
3,200.00	3,178.05	3,182.15	3,178.05	11.88	11.11	175.903	-81.37	65.21	387.81	365.39	22.42	17.299	
3,300.00	3,276.87	3,280.97	3,276.87	12.28	11.45	176.322	-81.37	65.21	402.84	379.71	23.13	17.419	
3,400.00	3,375.69	3,379.79	3,375.69	12.69	11.78	176.711	-81.37	65.21	417.89	394.05	23.84	17.532	
3,500.00	3,474.51	3,478.61	3,474.51	13.09	12.12	177.073	-81.37	65.21	432.95	408.41	24.54	17.639	
3,600.00	3,573.33	3,577.44	3,573.33	13.50	12.46	177.410	-81.37	65.21	448.04	422.78	25.26	17.740	
3,700.00	3,672.16	3,676.26	3,672.16	13.90	12.80	177.726	-81.37	65.21	463.14	437.17	25.97	17.836	
3,800.00	3,770.98	3,775.08	3,770.98	14.31	13.14	178.021	-81.37	65.21	478.25	451.57	26.68	17.926	
3,900.00	3,869.80	3,873.90	3,869.80	14.71	13.48	178.298	-81.37	65.21	493.37	465.98	27.39	18.012	
4,000.00	3,968.62	3,972.72	3,968.62	15.12	13.83	178.559	-81.37	65.21	508.51	480.40	28.10	18.093	
4,100.00	4,067.44	4,071.55	4,067.44	15.53	14.17	178.805	-81.37	65.21	523.65	494.83	28.82	18.171	
4,200.00	4,166.26	4,170.37	4,166.26	15.93	14.51	179.037	-81.37	65.21	538.80	509.27	29.53	18.244	
4,300.00	4,265.09	4,269.19	4,265.09	16.34	14.86	179.256	-81.37	65.21	553.97	523.72	30.25	18.314	
4,400.00	4,363.91	4,368.01	4,363.91	16.74	15.20	179.464	-81.37	65.21	569.14	538.17	30.96	18.381	
4,500.00	4,462.73	4,466.83	4,462.73	17.15	15.55	179.661	-81.37	65.21	584.31	552.63	31.68	18.445	
4,600.00	4,561.55	4,565.65	4,561.55	17.56	15.89	179.848	-81.37	65.21	599.50	567.10	32.39	18.506	
4,700.00	4,660.37	4,664.48	4,660.37	17.97	16.24	-179.975	-81.37	65.21	614.68	581.57	33.11	18.564	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,759.20	4,763.30	4,759.20	18.37	16.58	-179.806	-81.37	65.21	629.88	596.05	33.83	18.620	
4,900.00	4,858.02	4,862.12	4,858.02	18.78	16.93	-179.644	-81.37	65.21	645.08	610.53	34.55	18.673	
5,000.00	4,956.84	4,960.94	4,956.84	19.19	17.28	-179.491	-81.37	65.21	660.28	625.02	35.26	18.724	
5,100.00	5,055.66	5,059.76	5,055.66	19.60	17.62	-179.344	-81.37	65.21	675.49	639.51	35.98	18.774	
5,200.00	5,154.48	5,158.59	5,154.48	20.00	17.97	-179.204	-81.37	65.21	690.71	654.01	36.70	18.821	
5,300.00	5,253.30	5,257.41	5,253.30	20.41	18.32	-179.069	-81.37	65.21	705.93	668.51	37.42	18.866	
5,400.00	5,352.13	5,356.23	5,352.13	20.82	18.67	-178.941	-81.37	65.21	721.15	683.01	38.14	18.909	
5,500.00	5,450.95	5,455.05	5,450.95	21.23	19.02	-178.818	-81.37	65.21	736.37	697.52	38.86	18.951	
5,600.00	5,549.77	5,553.87	5,549.77	21.63	19.36	-178.699	-81.37	65.21	751.60	712.02	39.58	18.992	
5,700.00	5,648.59	5,652.69	5,648.59	22.04	19.71	-178.586	-81.37	65.21	766.83	726.54	40.29	19.031	
5,800.00	5,747.41	5,751.52	5,747.41	22.45	20.06	-178.477	-81.37	65.21	782.06	741.05	41.01	19.068	
5,900.00	5,846.24	5,850.34	5,846.24	22.86	20.41	-178.372	-81.37	65.21	797.30	755.57	41.73	19.104	
6,000.00	5,945.06	5,949.16	5,945.06	23.27	20.76	-178.271	-81.37	65.21	812.54	770.09	42.45	19.139	
6,054.08	5,998.50	6,002.60	5,998.50	23.49	20.95	-178.218	-81.37	65.21	820.78	777.94	42.84	19.157	
6,100.00	6,043.88	6,047.98	6,043.88	23.68	21.11	-178.186	-81.37	65.21	827.78	784.61	43.18	19.173	
6,200.00	6,142.71	6,146.82	6,142.71	24.08	21.46	-178.206	-81.37	65.21	843.01	799.11	43.90	19.205	
6,229.83	6,172.19	6,176.30	6,172.19	24.20	21.56	-178.234	-81.37	65.21	847.55	803.44	44.11	19.214	
6,300.00	6,241.54	6,245.64	6,241.54	24.49	21.81	-178.313	-81.37	65.21	858.22	813.61	44.61	19.236	
6,400.00	6,340.36	6,344.46	6,340.36	24.89	22.16	-178.421	-81.37	65.21	873.44	828.11	45.33	19.266	
6,500.00	6,439.18	6,443.28	6,439.18	25.30	22.51	-178.525	-81.37	65.21	888.66	842.61	46.05	19.296	
6,600.00	6,538.00	6,542.10	6,538.00	25.71	22.86	-178.626	-81.37	65.21	903.89	857.11	46.78	19.324	
6,700.00	6,636.82	6,640.93	6,636.82	26.11	23.21	-178.724	-81.37	65.21	919.11	871.62	47.50	19.351	
6,800.00	6,735.64	6,739.75	6,735.64	26.52	23.56	-178.819	-81.37	65.21	934.34	886.12	48.22	19.378	
6,900.00	6,834.47	6,838.57	6,834.47	26.93	23.91	-178.910	-81.37	65.21	949.57	900.63	48.94	19.404	
7,000.00	6,933.29	6,937.39	6,933.29	27.33	24.26	-178.999	-81.37	65.21	964.81	915.15	49.66	19.429	
7,100.00	7,032.11	7,036.21	7,032.11	27.74	24.61	-179.084	-81.37	65.21	980.04	929.66	50.38	19.453	
7,200.00	7,130.93	7,135.04	7,130.93	28.15	24.96	-179.168	-81.37	65.21	995.28	944.18	51.10	19.477	
7,300.00	7,229.75	7,233.86	7,229.75	28.56	25.31	-179.248	-81.37	65.21	1,010.52	958.70	51.82	19.499	
7,400.00	7,328.58	7,332.68	7,328.58	28.96	25.66	-179.327	-81.37	65.21	1,025.76	973.22	52.54	19.522	
7,500.00	7,427.40	7,431.50	7,427.40	29.37	26.01	-179.403	-81.37	65.21	1,041.00	987.74	53.27	19.543	
7,600.00	7,526.22	7,530.32	7,526.22	29.78	26.36	-179.476	-81.37	65.21	1,056.25	1,002.26	53.99	19.564	
7,700.00	7,625.04	7,629.14	7,625.04	30.18	26.72	-179.548	-81.37	65.21	1,071.50	1,016.79	54.71	19.585	
7,800.00	7,723.86	7,727.97	7,723.86	30.59	27.07	-179.618	-81.37	65.21	1,086.75	1,031.31	55.43	19.605	
7,900.00	7,822.68	7,826.79	7,822.68	31.00	27.42	-179.686	-81.37	65.21	1,102.00	1,045.84	56.16	19.624	
8,000.00	7,921.51	7,925.61	7,921.51	31.41	27.77	-179.751	-81.37	65.21	1,117.25	1,060.37	56.88	19.643	
8,100.00	8,020.33	8,024.43	8,020.33	31.82	28.12	-179.816	-81.37	65.21	1,132.50	1,074.90	57.60	19.661	
8,200.00	8,119.15	8,123.25	8,119.15	32.22	28.47	-179.878	-81.37	65.21	1,147.76	1,089.43	58.32	19.679	
8,300.00	8,217.97	8,222.07	8,217.97	32.63	28.82	-179.939	-81.37	65.21	1,163.01	1,103.97	59.05	19.697	
8,400.00	8,316.79	8,320.90	8,316.79	33.04	29.18	-179.998	-81.37	65.21	1,178.27	1,118.50	59.77	19.714	
8,500.00	8,415.62	8,419.72	8,415.62	33.45	29.53	179.944	-81.37	65.21	1,193.53	1,133.04	60.49	19.730	
8,600.00	8,514.44	8,518.54	8,514.44	33.85	29.88	179.888	-81.37	65.21	1,208.79	1,147.57	61.22	19.746	
8,700.00	8,613.26	8,617.36	8,613.26	34.26	30.23	179.833	-81.37	65.21	1,224.05	1,162.11	61.94	19.762	
8,761.09	8,673.63	8,677.84	8,673.74	34.51	30.45	179.808	-81.37	65.05	1,233.37	1,170.99	62.38	19.772	
8,800.04	8,712.04	8,716.58	8,712.41	34.67	30.58	179.830	-81.37	62.81	1,239.30	1,176.64	62.66	19.779	
8,850.00	8,761.06	8,766.34	8,761.69	34.87	30.74	179.855	-81.37	56.12	1,246.87	1,183.87	63.01	19.789	
8,900.00	8,809.36	8,816.07	8,810.19	35.06	30.91	179.878	-81.36	45.19	1,254.34	1,190.99	63.35	19.800	
8,950.00	8,856.58	8,865.79	8,857.55	35.24	31.07	179.897	-81.36	30.09	1,261.63	1,197.95	63.69	19.810	
9,000.00	8,902.35	8,915.52	8,903.43	35.41	31.22	179.914	-81.35	10.95	1,268.71	1,204.69	64.02	19.818	
9,050.00	8,946.33	8,965.26	8,947.49	35.58	31.38	179.928	-81.35	-12.11	1,275.51	1,211.17	64.35	19.822	
9,100.00	8,988.19	9,015.03	8,989.40	35.73	31.54	179.940	-81.34	-38.92	1,281.99	1,217.32	64.68	19.821	
9,150.00	9,027.59	9,064.83	9,028.86	35.88	31.70	179.950	-81.33	-69.28	1,288.09	1,223.08	65.01	19.813	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	9,114.67	9,065.56	36.02	31.86	179.959	-81.32	-102.98	1,293.77	1,228.42	65.36	19.795	
9,250.00	9,097.89	9,164.55	9,099.22	36.15	32.04	179.968	-81.31	-139.77	1,298.99	1,233.27	65.72	19.765	
9,300.00	9,128.24	9,214.48	9,129.57	36.27	32.23	179.976	-81.30	-179.39	1,303.70	1,237.59	66.11	19.719	
9,350.00	9,155.08	9,264.44	9,156.39	36.40	32.44	179.984	-81.28	-221.52	1,307.87	1,241.33	66.54	19.656	
9,400.00	9,178.21	9,314.44	9,179.44	36.53	32.67	179.992	-81.27	-265.87	1,311.47	1,244.47	67.00	19.574	
9,450.00	9,197.44	9,364.46	9,198.55	36.67	32.93	179.999	-81.26	-312.08	1,314.46	1,246.95	67.51	19.470	
9,500.00	9,212.64	9,414.49	9,213.57	36.83	33.21	-179.994	-81.24	-359.79	1,316.84	1,248.77	68.07	19.346	
9,550.00	9,223.67	9,464.53	9,224.36	37.02	33.52	-179.988	-81.23	-408.64	1,318.57	1,249.90	68.68	19.200	
9,600.00	9,230.48	9,514.57	9,230.86	37.23	33.84	-179.984	-81.21	-458.23	1,319.65	1,250.33	69.33	19.035	
9,654.13	9,233.00	9,568.71	9,233.00	37.50	34.22	-179.983	-81.20	-512.32	1,320.08	1,250.00	70.08	18.837	
9,700.00	9,233.00	9,614.58	9,233.00	37.77	34.58	-179.983	-81.18	-558.19	1,320.10	1,249.33	70.77	18.652	
9,800.00	9,233.00	9,714.58	9,233.00	38.46	35.44	-179.983	-81.15	-658.19	1,320.17	1,247.70	72.47	18.217	
9,900.00	9,233.00	9,814.58	9,233.00	39.30	36.43	-179.983	-81.13	-758.19	1,320.23	1,245.81	74.42	17.741	
10,000.00	9,233.00	9,914.58	9,233.00	40.29	37.53	-179.983	-81.10	-858.19	1,320.29	1,243.70	76.59	17.238	
10,100.00	9,233.00	10,014.58	9,233.00	41.39	38.74	-179.983	-81.07	-958.19	1,320.35	1,241.37	78.98	16.718	
10,200.00	9,233.00	10,114.58	9,233.00	42.60	40.05	-179.983	-81.04	-1,058.19	1,320.41	1,238.86	81.55	16.191	
10,300.00	9,233.00	10,214.58	9,233.00	43.90	41.44	-179.983	-81.01	-1,158.19	1,320.47	1,236.16	84.31	15.662	
10,400.00	9,233.00	10,314.58	9,233.00	45.30	42.91	-179.983	-80.98	-1,258.19	1,320.53	1,233.31	87.22	15.140	
10,500.00	9,233.00	10,414.58	9,233.00	46.76	44.46	-179.983	-80.95	-1,358.19	1,320.60	1,230.32	90.27	14.629	
10,600.00	9,233.00	10,514.58	9,233.00	48.30	46.07	-179.983	-80.92	-1,458.19	1,320.66	1,227.20	93.46	14.131	
10,700.00	9,233.00	10,614.58	9,233.00	49.89	47.74	-179.983	-80.89	-1,558.19	1,320.72	1,223.96	96.76	13.650	
10,800.00	9,233.00	10,714.58	9,233.00	51.55	49.46	-179.983	-80.86	-1,658.19	1,320.78	1,220.62	100.16	13.186	
10,900.00	9,233.00	10,814.58	9,233.00	53.25	51.22	-179.983	-80.83	-1,758.19	1,320.84	1,217.18	103.66	12.742	
11,000.00	9,233.00	10,914.58	9,233.00	55.00	53.03	-179.983	-80.80	-1,858.19	1,320.90	1,213.65	107.25	12.316	
11,100.00	9,233.00	11,014.58	9,233.00	56.79	54.88	-179.983	-80.77	-1,958.19	1,320.96	1,210.05	110.91	11.910	
11,200.00	9,233.00	11,114.58	9,233.00	58.61	56.76	-179.983	-80.74	-2,058.19	1,321.03	1,206.38	114.64	11.523	
11,300.00	9,233.00	11,214.58	9,233.00	60.47	58.67	-179.983	-80.71	-2,158.19	1,321.09	1,202.65	118.43	11.155	
11,400.00	9,233.00	11,314.58	9,233.00	62.36	60.61	-179.983	-80.68	-2,258.19	1,321.15	1,198.86	122.29	10.804	
11,500.00	9,233.00	11,414.58	9,233.00	64.28	62.57	-179.983	-80.65	-2,358.19	1,321.21	1,195.02	126.19	10.470	
11,600.00	9,233.00	11,514.58	9,233.00	66.22	64.56	-179.983	-80.62	-2,458.19	1,321.27	1,191.13	130.14	10.153	
11,700.00	9,233.00	11,614.58	9,233.00	68.19	66.56	-179.983	-80.59	-2,558.19	1,321.33	1,187.20	134.13	9.851	
11,800.00	9,233.00	11,714.58	9,233.00	70.17	68.59	-179.983	-80.56	-2,658.19	1,321.39	1,183.23	138.17	9.564	
11,900.00	9,233.00	11,814.58	9,233.00	72.18	70.64	-179.983	-80.53	-2,758.19	1,321.45	1,179.22	142.23	9.291	
12,000.00	9,233.00	11,914.58	9,233.00	74.20	72.70	-179.983	-80.50	-2,858.19	1,321.52	1,175.18	146.34	9.031	
12,100.00	9,233.00	12,014.58	9,233.00	76.25	74.77	-179.983	-80.47	-2,958.19	1,321.58	1,171.11	150.47	8.783	
12,200.00	9,233.00	12,114.58	9,233.00	78.30	76.86	-179.983	-80.44	-3,058.19	1,321.64	1,167.01	154.63	8.547	
12,300.00	9,233.00	12,214.58	9,233.00	80.37	78.96	-179.983	-80.41	-3,158.19	1,321.70	1,162.89	158.81	8.322	
12,400.00	9,233.00	12,314.58	9,233.00	82.45	81.08	-179.983	-80.38	-3,258.19	1,321.76	1,158.74	163.02	8.108	
12,500.00	9,233.00	12,414.58	9,233.00	84.55	83.20	-179.983	-80.35	-3,358.19	1,321.82	1,154.57	167.25	7.903	
12,600.00	9,233.00	12,514.58	9,233.00	86.66	85.33	-179.983	-80.32	-3,458.19	1,321.88	1,150.38	171.50	7.708	
12,700.00	9,233.00	12,614.58	9,233.00	88.77	87.48	-179.983	-80.29	-3,558.19	1,321.95	1,146.17	175.77	7.521	
12,800.00	9,233.00	12,714.58	9,233.00	90.90	89.63	-179.983	-80.26	-3,658.19	1,322.01	1,141.95	180.06	7.342	
12,900.00	9,233.00	12,814.58	9,233.00	93.03	91.78	-179.983	-80.23	-3,758.19	1,322.07	1,137.70	184.37	7.171	
13,000.00	9,233.00	12,914.58	9,233.00	95.18	93.95	-179.983	-80.20	-3,858.19	1,322.13	1,133.45	188.68	7.007	
13,100.00	9,233.00	13,014.58	9,233.00	97.33	96.12	-179.983	-80.17	-3,958.19	1,322.19	1,129.17	193.02	6.850	
13,200.00	9,233.00	13,114.58	9,233.00	99.48	98.30	-179.983	-80.14	-4,058.19	1,322.25	1,124.89	197.36	6.700	
13,300.00	9,233.00	13,214.58	9,233.00	101.65	100.49	-179.983	-80.11	-4,158.19	1,322.31	1,120.59	201.72	6.555	
13,400.00	9,233.00	13,314.58	9,233.00	103.82	102.68	-179.983	-80.08	-4,258.19	1,322.38	1,116.28	206.09	6.416	
13,500.00	9,233.00	13,414.58	9,233.00	106.00	104.87	-179.983	-80.05	-4,358.19	1,322.44	1,111.96	210.47	6.283	
13,600.00	9,233.00	13,514.58	9,233.00	108.18	107.07	-179.983	-80.02	-4,458.19	1,322.50	1,107.63	214.87	6.155	
13,700.00	9,233.00	13,614.58	9,233.00	110.37	109.28	-179.983	-79.99	-4,558.19	1,322.56	1,103.29	219.27	6.032	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	13,714.58	9,233.00	112.56	111.49	-179.983	-79.96	-4,658.19	1,322.62	1,098.95	223.68	5.913	
13,900.00	9,233.00	13,814.58	9,233.00	114.76	113.70	-179.983	-79.93	-4,758.19	1,322.68	1,094.59	228.09	5.799	
14,000.00	9,233.00	13,914.58	9,233.00	116.96	115.92	-179.983	-79.90	-4,858.19	1,322.74	1,090.22	232.52	5.689	
14,100.00	9,233.00	14,014.58	9,233.00	119.17	118.14	-179.983	-79.87	-4,958.19	1,322.81	1,085.85	236.95	5.583	
14,200.00	9,233.00	14,114.58	9,233.00	121.38	120.37	-179.983	-79.84	-5,058.19	1,322.87	1,081.47	241.40	5.480	
14,300.00	9,233.00	14,214.58	9,233.00	123.59	122.59	-179.983	-79.81	-5,158.19	1,322.93	1,077.09	245.84	5.381	
14,400.00	9,233.00	14,314.58	9,233.00	125.81	124.82	-179.983	-79.78	-5,258.19	1,322.99	1,072.69	250.30	5.286	
14,500.00	9,233.00	14,414.58	9,233.00	128.03	127.06	-179.983	-79.75	-5,358.19	1,323.05	1,068.29	254.76	5.193	
14,600.00	9,233.00	14,514.58	9,233.00	130.25	129.29	-179.983	-79.72	-5,458.19	1,323.11	1,063.89	259.22	5.104	
14,700.00	9,233.00	14,614.58	9,233.00	132.48	131.53	-179.983	-79.69	-5,558.19	1,323.17	1,059.48	263.69	5.018	
14,800.00	9,233.00	14,714.58	9,233.00	134.71	133.77	-179.983	-79.66	-5,658.18	1,323.23	1,055.06	268.17	4.934	
14,900.00	9,233.00	14,814.58	9,233.00	136.94	136.02	-179.983	-79.64	-5,758.18	1,323.30	1,050.64	272.65	4.853	
15,000.00	9,233.00	14,914.58	9,233.00	139.18	138.26	-179.983	-79.61	-5,858.18	1,323.36	1,046.22	277.14	4.775	
15,100.00	9,233.00	15,014.58	9,233.00	141.41	140.51	-179.983	-79.58	-5,958.18	1,323.42	1,041.79	281.63	4.699	
15,200.00	9,233.00	15,114.58	9,233.00	143.65	142.76	-179.983	-79.55	-6,058.18	1,323.48	1,037.36	286.12	4.626	
15,300.00	9,233.00	15,214.58	9,233.00	145.90	145.02	-179.983	-79.52	-6,158.18	1,323.54	1,032.92	290.62	4.554	
15,400.00	9,233.00	15,314.58	9,233.00	148.14	147.27	-179.983	-79.49	-6,258.18	1,323.60	1,028.48	295.13	4.485	
15,500.00	9,233.00	15,414.58	9,233.00	150.39	149.53	-179.983	-79.46	-6,358.18	1,323.66	1,024.03	299.63	4.418	
15,600.00	9,233.00	15,514.58	9,233.00	152.63	151.78	-179.983	-79.43	-6,458.18	1,323.73	1,019.58	304.14	4.352	
15,700.00	9,233.00	15,614.58	9,233.00	154.88	154.04	-179.983	-79.40	-6,558.18	1,323.79	1,015.13	308.65	4.289	
15,800.00	9,233.00	15,714.58	9,233.00	157.14	156.30	-179.983	-79.37	-6,658.18	1,323.85	1,010.68	313.17	4.227	
15,900.00	9,233.00	15,814.58	9,233.00	159.39	158.56	-179.983	-79.34	-6,758.18	1,323.91	1,006.22	317.69	4.167	
16,000.00	9,233.00	15,914.58	9,233.00	161.65	160.83	-179.983	-79.31	-6,858.18	1,323.97	1,001.76	322.21	4.109	
16,100.00	9,233.00	16,014.58	9,233.00	163.90	163.09	-179.983	-79.28	-6,958.18	1,324.03	997.29	326.74	4.052	
16,200.00	9,233.00	16,114.58	9,233.00	166.16	165.36	-179.983	-79.25	-7,058.18	1,324.09	992.83	331.27	3.997	
16,300.00	9,233.00	16,214.58	9,233.00	168.42	167.63	-179.983	-79.22	-7,158.18	1,324.16	988.36	335.80	3.943	
16,400.00	9,233.00	16,314.58	9,233.00	170.68	169.90	-179.983	-79.19	-7,258.18	1,324.22	983.89	340.33	3.891	
16,500.00	9,233.00	16,414.58	9,233.00	172.95	172.17	-179.983	-79.16	-7,358.18	1,324.28	979.41	344.87	3.840	
16,600.00	9,233.00	16,514.58	9,233.00	175.21	174.44	-179.983	-79.13	-7,458.18	1,324.34	974.94	349.40	3.790	
16,700.00	9,233.00	16,614.58	9,233.00	177.47	176.71	-179.983	-79.10	-7,558.18	1,324.40	970.46	353.94	3.742	
16,800.00	9,233.00	16,714.58	9,233.00	179.74	178.98	-179.983	-79.07	-7,658.18	1,324.46	965.98	358.49	3.695	
16,900.00	9,233.00	16,814.58	9,233.00	182.01	181.26	-179.983	-79.04	-7,758.18	1,324.52	961.49	363.03	3.649	
17,000.00	9,233.00	16,914.58	9,233.00	184.28	183.53	-179.983	-79.01	-7,858.18	1,324.59	957.01	367.58	3.604	
17,100.00	9,233.00	17,014.58	9,233.00	186.55	185.81	-179.983	-78.98	-7,958.18	1,324.65	952.52	372.13	3.560	
17,200.00	9,233.00	17,114.58	9,233.00	188.82	188.08	-179.983	-78.95	-8,058.18	1,324.71	948.03	376.68	3.517	
17,300.00	9,233.00	17,214.58	9,233.00	191.09	190.36	-179.983	-78.92	-8,158.18	1,324.77	943.54	381.23	3.475	
17,400.00	9,233.00	17,314.58	9,233.00	193.36	192.64	-179.983	-78.89	-8,258.18	1,324.83	939.05	385.78	3.434	
17,500.00	9,233.00	17,414.58	9,233.00	195.64	194.92	-179.983	-78.86	-8,358.18	1,324.89	934.56	390.34	3.394	
17,600.00	9,233.00	17,514.58	9,233.00	197.91	197.20	-179.983	-78.83	-8,458.18	1,324.95	930.06	394.89	3.355	
17,700.00	9,233.00	17,614.58	9,233.00	200.19	199.48	-179.983	-78.80	-8,558.18	1,325.01	925.56	399.45	3.317	
17,800.00	9,233.00	17,714.58	9,233.00	202.46	201.76	-179.983	-78.77	-8,658.18	1,325.08	921.06	404.01	3.280	
17,900.00	9,233.00	17,814.58	9,233.00	204.74	204.04	-179.983	-78.74	-8,758.18	1,325.14	916.56	408.57	3.243	
18,000.00	9,233.00	17,914.58	9,233.00	207.02	206.32	-179.983	-78.71	-8,858.18	1,325.20	912.06	413.14	3.208	
18,100.00	9,233.00	18,014.58	9,233.00	209.29	208.61	-179.983	-78.68	-8,958.18	1,325.26	907.56	417.70	3.173	
18,200.00	9,233.00	18,114.58	9,233.00	211.57	210.89	-179.983	-78.65	-9,058.18	1,325.32	903.06	422.27	3.139	
18,300.00	9,233.00	18,214.58	9,233.00	213.85	213.18	-179.983	-78.62	-9,158.18	1,325.38	898.55	426.83	3.105	
18,400.00	9,233.00	18,314.58	9,233.00	216.13	215.46	-179.983	-78.59	-9,258.18	1,325.44	894.05	431.40	3.072	
18,500.00	9,233.00	18,414.58	9,233.00	218.42	217.75	-179.983	-78.56	-9,358.18	1,325.51	889.54	435.97	3.040	
18,600.00	9,233.00	18,514.58	9,233.00	220.70	220.03	-179.983	-78.53	-9,458.18	1,325.57	885.03	440.54	3.009	
18,700.00	9,233.00	18,614.58	9,233.00	222.98	222.32	-179.983	-78.50	-9,558.18	1,325.63	880.52	445.11	2.978	
18,800.00	9,233.00	18,714.58	9,233.00	225.26	224.61	-179.983	-78.47	-9,658.18	1,325.69	876.01	449.68	2.948	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H) - Ted Paup 3231 Fed Com 136H - Wellbore #1 - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	9,233.00	18,814.58	9,233.00	227.55	226.90	-179.983	-78.44	-9,758.18	1,325.75	871.50	454.26	2.919	
19,000.00	9,233.00	18,914.58	9,233.00	229.83	229.18	-179.983	-78.41	-9,858.18	1,325.81	866.98	458.83	2.890	
19,100.00	9,233.00	19,014.58	9,233.00	232.12	231.47	-179.983	-78.38	-9,958.18	1,325.87	862.47	463.41	2.861	
19,200.00	9,233.00	19,114.58	9,233.00	234.40	233.76	-179.983	-78.35	-10,058.18	1,325.94	857.95	467.98	2.833	
19,300.00	9,233.00	19,214.58	9,233.00	236.69	236.05	-179.983	-78.32	-10,158.18	1,326.00	853.44	472.56	2.806	
19,400.00	9,233.00	19,314.58	9,233.00	238.97	238.34	-179.983	-78.29	-10,258.18	1,326.06	848.92	477.14	2.779	
19,500.00	9,233.00	19,414.58	9,233.00	241.26	240.63	-179.983	-78.26	-10,358.18	1,326.12	844.40	481.72	2.753	
19,600.00	9,233.00	19,514.58	9,233.00	243.55	242.92	-179.983	-78.23	-10,458.18	1,326.18	839.89	486.30	2.727	
19,700.00	9,233.00	19,614.58	9,233.00	245.84	245.21	-179.983	-78.20	-10,558.18	1,326.24	835.37	490.88	2.702	
19,800.00	9,233.00	19,714.58	9,233.00	248.12	247.51	-179.983	-78.17	-10,658.18	1,326.30	830.85	495.46	2.677	
19,900.00	9,233.00	19,814.58	9,233.00	250.41	249.80	-179.983	-78.15	-10,758.18	1,326.37	826.32	500.04	2.653	
19,971.26	9,233.00	19,885.84	9,233.00	252.04	251.43	-179.983	-78.12	-10,829.45	1,326.41	823.10	503.31	2.635	
20,000.00	9,233.00	19,914.58	9,233.00	252.70	252.09	-179.983	-78.12	-10,858.18	1,326.43	821.80	504.62	2.629	
20,011.26	9,233.00	19,925.85	9,233.00	252.96	252.35	-179.983	-78.11	-10,869.45	1,326.43	821.29	505.14	2.626 SF	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +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	0.00	-4.123	1,429.00	-103.00	1,432.71				
100.00	100.00	101.00	101.00	0.13	0.13	-4.123	1,429.00	-103.00	1,432.71	1,432.45	0.26	5,512.698	
200.00	200.00	201.00	201.00	0.49	0.49	-4.123	1,429.00	-103.00	1,432.71	1,431.73	0.98	1,466.683	
300.00	300.00	301.00	301.00	0.85	0.85	-4.123	1,429.00	-103.00	1,432.71	1,431.01	1.69	845.865	
400.00	400.00	401.00	401.00	1.20	1.21	-4.123	1,429.00	-103.00	1,432.71	1,430.30	2.41	594.306	
500.00	500.00	501.00	501.00	1.56	1.57	-4.123	1,429.00	-103.00	1,432.71	1,429.58	3.13	458.076	
600.00	600.00	601.00	601.00	1.92	1.92	-4.123	1,429.00	-103.00	1,432.71	1,428.86	3.84	372.654	
700.00	700.00	701.00	701.00	2.28	2.28	-4.123	1,429.00	-103.00	1,432.71	1,428.15	4.56	314.083	
750.00	750.00	751.00	751.00	2.46	2.46	-4.123	1,429.00	-103.00	1,432.71	1,427.79	4.92	291.199	
800.00	800.00	801.00	801.00	2.64	2.64	-4.124	1,429.00	-103.00	1,432.49	1,427.21	5.28	271.383	
900.00	899.98	900.98	900.98	3.00	3.00	-4.138	1,429.00	-103.00	1,430.78	1,424.79	6.00	238.641	
1,000.00	999.92	1,000.92	1,000.92	3.36	3.36	-4.165	1,429.00	-103.00	1,427.36	1,420.64	6.71	212.631	
1,100.00	1,099.78	1,100.78	1,100.78	3.71	3.72	-4.206	1,429.00	-103.00	1,422.22	1,414.79	7.43	191.414	
1,200.00	1,199.54	1,200.54	1,200.54	4.07	4.07	-4.261	1,429.00	-103.00	1,415.38	1,407.23	8.15	173.726	
1,300.00	1,299.16	1,300.19	1,300.19	4.43	4.43	-4.330	1,429.00	-103.00	1,406.83	1,397.97	8.86	158.709	
1,400.00	1,398.61	1,419.51	1,419.50	4.80	4.84	-4.377	1,428.22	-102.03	1,395.88	1,386.24	9.63	144.916	
1,500.00	1,497.86	1,538.16	1,538.10	5.17	5.24	-4.364	1,425.90	-99.14	1,381.82	1,371.43	10.39	133.039	
1,600.00	1,596.89	1,655.96	1,655.74	5.55	5.63	-4.292	1,422.09	-94.37	1,364.67	1,353.53	11.14	122.495	
1,630.39	1,626.93	1,691.56	1,691.26	5.66	5.76	-4.258	1,420.64	-92.56	1,358.86	1,347.49	11.37	119.509	
1,700.00	1,695.72	1,772.81	1,772.27	5.93	6.04	-4.156	1,416.81	-87.79	1,344.88	1,332.99	11.89	113.080	
1,800.00	1,794.54	1,878.09	1,877.14	6.31	6.40	-3.987	1,410.96	-80.49	1,323.90	1,311.29	12.61	104.978	
1,900.00	1,893.36	1,975.78	1,974.42	6.70	6.75	-3.829	1,405.42	-73.58	1,302.82	1,289.51	13.31	97.873	
2,000.00	1,992.18	2,073.46	2,071.71	7.09	7.09	-3.665	1,399.88	-66.67	1,281.75	1,267.74	14.01	91.459	
2,100.00	2,091.01	2,171.15	2,168.99	7.48	7.44	-3.496	1,394.34	-59.75	1,260.69	1,245.97	14.72	85.642	
2,200.00	2,189.83	2,268.83	2,266.27	7.88	7.79	-3.322	1,388.80	-52.84	1,239.64	1,224.21	15.43	80.345	
2,300.00	2,288.65	2,366.52	2,363.55	8.27	8.15	-3.141	1,383.26	-45.93	1,218.60	1,202.46	16.14	75.504	
2,400.00	2,387.47	2,464.20	2,460.84	8.67	8.50	-2.954	1,377.72	-39.02	1,197.58	1,180.72	16.85	71.065	
2,500.00	2,486.29	2,561.89	2,558.12	9.07	8.86	-2.760	1,372.18	-32.10	1,176.56	1,159.00	17.57	66.980	
2,600.00	2,585.12	2,659.57	2,655.40	9.47	9.22	-2.559	1,366.64	-25.19	1,155.57	1,137.29	18.28	63.209	
2,700.00	2,683.94	2,757.26	2,752.68	9.87	9.57	-2.351	1,361.10	-18.28	1,134.58	1,115.58	19.00	59.719	
2,800.00	2,782.76	2,854.94	2,849.97	10.27	9.93	-2.135	1,355.56	-11.37	1,113.62	1,093.90	19.72	56.481	
2,900.00	2,881.58	2,952.63	2,947.25	10.67	10.29	-1.911	1,350.02	-4.46	1,092.66	1,072.23	20.44	53.467	
3,000.00	2,980.40	3,050.31	3,044.53	11.07	10.66	-1.677	1,344.48	2.46	1,071.73	1,050.57	21.16	50.658	
3,100.00	3,079.22	3,148.00	3,141.81	11.48	11.02	-1.435	1,338.93	9.37	1,050.82	1,028.94	21.88	48.032	
3,200.00	3,178.05	3,245.68	3,239.10	11.88	11.38	-1.183	1,333.39	16.28	1,029.92	1,007.32	22.60	45.572	
3,300.00	3,276.87	3,343.37	3,336.38	12.28	11.74	-0.920	1,327.85	23.19	1,009.05	985.72	23.32	43.265	
3,400.00	3,375.69	3,441.05	3,433.66	12.69	12.11	-0.646	1,322.31	30.11	988.19	964.15	24.05	41.095	
3,500.00	3,474.51	3,538.74	3,530.94	13.09	12.47	-0.361	1,316.77	37.02	967.36	942.59	24.77	39.053	
3,600.00	3,573.33	3,636.42	3,628.23	13.50	12.84	-0.063	1,311.23	43.93	946.56	921.06	25.50	37.126	
3,700.00	3,672.16	3,724.62	3,716.11	13.90	13.16	0.182	1,306.55	49.77	926.15	899.95	26.21	35.342	
3,800.00	3,770.98	3,809.99	3,801.30	14.31	13.48	0.334	1,303.18	53.98	907.08	880.17	26.91	33.712	
3,900.00	3,869.80	3,900.00	3,891.24	14.71	13.80	0.402	1,300.91	56.81	889.39	861.78	27.61	32.212	
4,000.00	3,968.62	3,982.17	3,973.39	15.12	14.09	0.362	1,300.00	57.94	873.05	844.76	28.29	30.863	
4,100.00	4,067.44	4,077.22	4,068.44	15.53	14.41	0.249	1,299.95	58.01	857.79	828.80	28.99	29.591	
4,200.00	4,166.26	4,176.04	4,167.26	15.93	14.74	0.126	1,299.95	58.01	842.59	812.89	29.70	28.374	
4,300.00	4,265.09	4,274.87	4,266.09	16.34	15.08	0.004	1,299.95	58.01	827.40	796.99	30.40	27.214	
4,400.00	4,363.91	4,373.69	4,364.91	16.74	15.42	-0.132	1,299.95	58.01	812.21	781.09	31.11	26.105	
4,500.00	4,462.73	4,472.51	4,463.73	17.15	15.75	-0.269	1,299.95	58.01	797.02	765.20	31.82	25.046	
4,600.00	4,561.55	4,571.33	4,562.55	17.56	16.09	-0.411	1,299.95	58.01	781.84	749.31	32.53	24.032	
4,700.00	4,660.37	4,670.15	4,661.37	17.97	16.43	-0.558	1,299.95	58.01	766.67	733.42	33.24	23.061	
4,800.00	4,759.20	4,768.97	4,760.20	18.37	16.77	-0.712	1,299.95	58.01	751.50	717.54	33.96	22.131	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,858.02	4,867.80	4,859.02	18.78	17.11	-0.871	1,299.95	58.01	736.33	701.66	34.67	21.238	
5,000.00	4,956.84	4,966.62	4,957.84	19.19	17.45	-1.038	1,299.95	58.01	721.18	685.79	35.38	20.382	
5,100.00	5,055.66	5,065.44	5,056.66	19.60	17.79	-1.212	1,299.95	58.01	706.02	669.93	36.10	19.559	
5,200.00	5,154.48	5,164.26	5,155.48	20.00	18.13	-1.393	1,299.95	58.01	690.88	654.07	36.81	18.768	
5,300.00	5,253.30	5,263.08	5,254.30	20.41	18.47	-1.582	1,299.95	58.01	675.74	638.21	37.53	18.006	
5,400.00	5,352.13	5,361.91	5,353.13	20.82	18.82	-1.780	1,299.95	58.01	660.61	622.37	38.24	17.274	
5,500.00	5,450.95	5,460.73	5,451.95	21.23	19.16	-1.988	1,299.95	58.01	645.49	606.53	38.96	16.568	
5,600.00	5,549.77	5,559.55	5,550.77	21.63	19.50	-2.205	1,299.95	58.01	630.38	590.70	39.68	15.887	
5,700.00	5,648.59	5,658.37	5,649.59	22.04	19.84	-2.433	1,299.95	58.01	615.27	574.88	40.40	15.231	
5,800.00	5,747.41	5,757.19	5,748.41	22.45	20.19	-2.673	1,299.95	58.01	600.18	559.07	41.11	14.598	
5,900.00	5,846.24	5,856.01	5,847.24	22.86	20.53	-2.924	1,299.95	58.01	585.10	543.27	41.83	13.986	
6,000.00	5,945.06	5,954.84	5,946.06	23.27	20.88	-3.190	1,299.95	58.01	570.03	527.48	42.55	13.396	
6,054.08	5,998.50	6,008.28	5,999.50	23.49	21.06	-3.339	1,299.95	58.01	561.88	518.94	42.94	13.085	
6,100.00	6,043.88	6,053.66	6,044.88	23.68	21.22	-3.450	1,299.95	58.01	554.96	511.68	43.27	12.825	
6,200.00	6,142.71	6,152.49	6,143.71	24.08	21.57	-3.568	1,299.95	58.01	539.77	495.78	43.99	12.270	
6,229.83	6,172.19	6,181.97	6,173.19	24.20	21.67	-3.568	1,299.95	58.01	535.21	491.00	44.20	12.108	
6,300.00	6,241.54	6,251.32	6,242.54	24.49	21.91	-3.549	1,299.95	58.01	524.47	479.76	44.71	11.731	
6,400.00	6,340.36	6,350.14	6,341.36	24.89	22.26	-3.520	1,299.95	58.01	509.17	463.74	45.42	11.210	
6,500.00	6,439.18	6,448.96	6,440.18	25.30	22.61	-3.490	1,299.95	58.01	493.86	447.72	46.14	10.704	
6,600.00	6,538.00	6,547.78	6,539.00	25.71	22.95	-3.458	1,299.95	58.01	478.56	431.71	46.86	10.214	
6,700.00	6,636.82	6,646.60	6,637.82	26.11	23.30	-3.423	1,299.95	58.01	463.26	415.69	47.57	9.738	
6,800.00	6,735.64	6,745.42	6,736.64	26.52	23.65	-3.386	1,299.95	58.01	447.96	399.67	48.29	9.277	
6,900.00	6,834.47	6,844.25	6,835.47	26.93	23.99	-3.347	1,299.95	58.01	432.65	383.65	49.01	8.828	
7,000.00	6,933.29	6,943.07	6,934.29	27.33	24.34	-3.304	1,299.95	58.01	417.35	367.63	49.72	8.393	
7,100.00	7,032.11	7,041.89	7,033.11	27.74	24.69	-3.259	1,299.95	58.01	402.05	351.61	50.44	7.971	
7,200.00	7,130.93	7,140.71	7,131.93	28.15	25.04	-3.210	1,299.95	58.01	386.75	335.59	51.16	7.560	
7,300.00	7,229.75	7,239.53	7,230.75	28.56	25.38	-3.156	1,299.95	58.01	371.45	319.57	51.88	7.160	
7,400.00	7,328.58	7,338.36	7,329.58	28.96	25.73	-3.099	1,299.95	58.01	356.15	303.55	52.60	6.771	
7,500.00	7,427.40	7,437.18	7,428.40	29.37	26.08	-3.036	1,299.95	58.01	340.85	287.53	53.32	6.393	
7,600.00	7,526.22	7,536.00	7,527.22	29.78	26.43	-2.967	1,299.95	58.01	325.55	271.51	54.03	6.025	
7,700.00	7,625.04	7,634.82	7,626.04	30.18	26.78	-2.891	1,299.95	58.01	310.25	255.49	54.75	5.666	
7,800.00	7,723.86	7,733.64	7,724.86	30.59	27.13	-2.807	1,299.95	58.01	294.95	239.47	55.47	5.317	
7,900.00	7,822.68	7,832.46	7,823.68	31.00	27.47	-2.715	1,299.95	58.01	279.65	223.46	56.19	4.977	
8,000.00	7,921.51	7,931.29	7,922.51	31.41	27.82	-2.611	1,299.95	58.01	264.35	207.44	56.91	4.645	
8,100.00	8,020.33	8,030.11	8,021.33	31.82	28.17	-2.495	1,299.95	58.01	249.06	191.42	57.63	4.322	
8,200.00	8,119.15	8,128.93	8,120.15	32.22	28.52	-2.364	1,299.95	58.01	233.76	175.41	58.35	4.006	
8,300.00	8,217.97	8,227.75	8,218.97	32.63	28.87	-2.214	1,299.95	58.01	218.47	159.40	59.07	3.698	
8,400.00	8,316.79	8,326.57	8,317.79	33.04	29.22	-2.042	1,299.95	58.01	203.17	143.38	59.79	3.398	
8,500.00	8,415.62	8,425.40	8,416.62	33.45	29.57	-1.841	1,299.95	58.01	187.88	127.37	60.51	3.105	
8,600.00	8,514.44	8,524.22	8,515.44	33.85	29.92	-1.605	1,299.95	58.01	172.60	111.37	61.23	2.819	
8,700.00	8,613.26	8,623.04	8,614.26	34.26	30.27	-1.324	1,299.95	58.01	157.31	95.36	61.95	2.539	
8,761.09	8,673.63	8,683.41	8,674.63	34.51	30.48	-1.123	1,299.95	58.01	147.98	85.59	62.39	2.372	
8,800.00	8,712.04	8,721.82	8,713.04	34.67	30.62	-0.449	1,299.95	58.01	142.02	79.35	62.67	2.266	
8,850.00	8,761.06	8,770.84	8,762.06	34.87	30.79	2.150	1,299.95	58.01	134.54	71.52	63.02	2.135	
8,900.00	8,809.36	8,819.14	8,810.36	35.06	30.96	6.963	1,299.95	58.01	127.92	64.51	63.41	2.017	
8,950.00	8,856.58	8,866.36	8,857.58	35.24	31.13	14.157	1,299.95	58.01	123.42	59.54	63.88	1.932	
8,982.26	8,886.30	8,896.08	8,887.30	35.35	31.24	19.984	1,299.95	58.01	122.45	58.18	64.27	1.905	CC
9,000.00	8,902.35	8,913.87	8,905.09	35.41	31.30	23.404	1,299.92	57.76	122.67	58.21	64.46	1.903	
9,050.00	8,946.33	8,965.50	8,956.56	35.58	31.47	32.682	1,299.59	53.92	125.59	60.68	64.91	1.935	
9,100.00	8,988.19	9,019.18	9,009.47	35.73	31.64	40.994	1,298.81	45.05	131.62	66.61	65.01	2.025	
9,150.00	9,027.59	9,075.15	9,063.50	35.88	31.82	48.046	1,297.55	30.59	140.21	75.66	64.55	2.172	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	9,133.64	9,118.18	36.02	32.00	53.811	1,295.74	9.95	150.66	87.27	63.39	2.377	
9,250.00	9,097.89	9,194.91	9,172.86	36.15	32.18	58.402	1,293.34	-17.50	162.25	100.77	61.47	2.639	
9,300.00	9,128.24	9,259.15	9,226.70	36.27	32.36	61.979	1,290.29	-52.36	174.30	115.48	58.82	2.963	
9,350.00	9,155.08	9,326.53	9,278.59	36.40	32.56	64.683	1,286.55	-95.13	186.20	130.72	55.48	3.356	
9,400.00	9,178.21	9,397.14	9,327.15	36.53	32.79	66.604	1,282.09	-146.11	197.40	145.86	51.54	3.830	
9,450.00	9,197.44	9,470.90	9,370.78	36.67	33.05	67.742	1,276.91	-205.31	207.39	160.18	47.21	4.393	
9,500.00	9,212.64	9,547.62	9,407.65	36.83	33.37	67.916	1,271.05	-272.26	215.72	172.91	42.81	5.039	
9,550.00	9,223.67	9,626.86	9,435.98	37.02	33.76	66.416	1,264.61	-345.92	222.02	183.16	38.86	5.713	
9,600.00	9,230.48	9,708.00	9,454.13	37.23	34.22	59.887	1,257.72	-424.63	225.95	189.90	36.04	6.269	
9,654.13	9,233.00	9,797.04	9,461.00	37.50	34.79	-5.446	1,249.99	-512.98	227.27	192.19	35.08	6.479	
9,700.00	9,233.00	9,842.53	9,461.00	37.77	35.13	-4.086	1,246.39	-558.33	227.12	191.80	35.32	6.431	
9,800.00	9,233.00	9,942.22	9,461.00	38.46	35.93	-2.092	1,241.02	-657.87	227.01	191.11	35.90	6.324	
9,900.00	9,233.00	10,042.17	9,461.00	39.30	36.85	-0.093	1,239.11	-757.79	227.00	190.53	36.47	6.225	
9,906.37	9,233.00	10,048.54	9,461.00	39.36	36.92	0.000	1,239.11	-764.16	227.00	190.50	36.50	6.219	
9,909.02	9,233.00	10,051.18	9,461.00	39.39	36.94	0.000	1,239.11	-766.81	227.00	190.48	36.52	6.216	
10,000.00	9,233.00	10,142.17	9,461.00	40.29	37.92	0.000	1,239.19	-857.79	227.00	189.96	37.04	6.129	
10,100.00	9,233.00	10,242.17	9,461.00	41.39	39.08	-179.948	1,239.28	-957.79	227.00	189.34	37.66	6.027	
10,200.00	9,233.00	10,342.17	9,461.00	42.60	40.34	-179.948	1,239.38	-1,057.79	227.00	188.66	38.34	5.921	
10,300.00	9,233.00	10,442.17	9,461.00	43.90	41.69	-179.948	1,239.47	-1,157.79	227.00	187.93	39.07	5.810	
10,400.00	9,233.00	10,542.17	9,461.00	45.30	43.12	-179.948	1,239.56	-1,257.79	227.00	187.15	39.85	5.697	
10,500.00	9,233.00	10,642.17	9,461.00	46.76	44.62	-179.948	1,239.65	-1,357.79	227.00	186.33	40.67	5.581	
10,600.00	9,233.00	10,742.17	9,461.00	48.30	46.19	-179.948	1,239.74	-1,457.79	227.00	185.46	41.54	5.465	
10,700.00	9,233.00	10,842.17	9,461.00	49.89	47.83	-179.948	1,239.83	-1,557.79	227.00	184.56	42.44	5.348	
10,800.00	9,233.00	10,942.17	9,461.00	51.55	49.51	-179.948	1,239.92	-1,657.79	227.00	183.61	43.39	5.232	
10,900.00	9,233.00	11,042.17	9,461.00	53.25	51.25	-179.948	1,240.01	-1,757.79	227.00	182.63	44.37	5.116	
11,000.00	9,233.00	11,142.17	9,461.00	55.00	53.02	-179.948	1,240.10	-1,857.79	227.00	181.62	45.38	5.002	
11,100.00	9,233.00	11,242.17	9,461.00	56.79	54.84	-179.948	1,240.20	-1,957.79	227.00	180.57	46.43	4.890	
11,200.00	9,233.00	11,342.17	9,461.00	58.61	56.70	-179.948	1,240.29	-2,057.79	227.00	179.50	47.50	4.779	
11,300.00	9,233.00	11,442.17	9,461.00	60.47	58.58	-179.948	1,240.38	-2,157.79	227.00	178.40	48.60	4.671	
11,400.00	9,233.00	11,542.17	9,461.00	62.36	60.50	-179.948	1,240.47	-2,257.79	227.00	177.28	49.72	4.565	
11,500.00	9,233.00	11,642.17	9,461.00	64.28	62.44	-179.948	1,240.56	-2,357.79	227.00	176.13	50.87	4.462	
11,600.00	9,233.00	11,742.17	9,461.00	66.22	64.41	-179.948	1,240.65	-2,457.79	227.00	174.96	52.04	4.362	
11,700.00	9,233.00	11,842.17	9,461.00	68.19	66.40	-179.948	1,240.74	-2,557.79	227.00	173.77	53.23	4.264	
11,800.00	9,233.00	11,942.17	9,461.00	70.17	68.41	-179.948	1,240.83	-2,657.79	227.00	172.55	54.45	4.169	
11,900.00	9,233.00	12,042.17	9,461.00	72.18	70.44	-179.948	1,240.92	-2,757.79	227.00	171.33	55.67	4.077	
12,000.00	9,233.00	12,142.17	9,461.00	74.20	72.48	-179.948	1,241.02	-2,857.79	227.00	170.08	56.92	3.988	
12,100.00	9,233.00	12,242.17	9,461.00	76.25	74.54	-179.948	1,241.11	-2,957.79	227.00	168.82	58.18	3.902	
12,200.00	9,233.00	12,342.17	9,461.00	78.30	76.62	-179.948	1,241.20	-3,057.79	227.00	167.54	59.46	3.818	
12,300.00	9,233.00	12,442.17	9,461.00	80.37	78.71	-179.948	1,241.29	-3,157.79	227.00	166.25	60.75	3.737	
12,400.00	9,233.00	12,542.17	9,461.00	82.45	80.81	-179.948	1,241.38	-3,257.79	227.00	164.95	62.05	3.658	
12,500.00	9,233.00	12,642.17	9,461.00	84.55	82.92	-179.948	1,241.47	-3,357.79	227.00	163.64	63.36	3.583	
12,600.00	9,233.00	12,742.17	9,461.00	86.66	85.04	-179.948	1,241.56	-3,457.79	227.00	162.31	64.69	3.509	
12,700.00	9,233.00	12,842.17	9,461.00	88.77	87.17	-179.948	1,241.65	-3,557.79	227.00	160.97	66.03	3.438	
12,800.00	9,233.00	12,942.17	9,461.00	90.90	89.31	-179.948	1,241.74	-3,657.79	227.00	159.63	67.37	3.369	
12,900.00	9,233.00	13,042.17	9,461.00	93.03	91.46	-179.948	1,241.84	-3,757.79	227.00	158.27	68.73	3.303	
13,000.00	9,233.00	13,142.17	9,461.00	95.18	93.62	-179.948	1,241.93	-3,857.79	227.00	156.91	70.09	3.239	
13,100.00	9,233.00	13,242.17	9,461.00	97.33	95.78	-179.948	1,242.02	-3,957.79	227.00	155.53	71.47	3.176	
13,200.00	9,233.00	13,342.17	9,461.00	99.48	97.95	-179.948	1,242.11	-4,057.79	227.00	154.15	72.85	3.116	
13,300.00	9,233.00	13,442.17	9,461.00	101.65	100.13	-179.948	1,242.20	-4,157.79	227.00	152.76	74.24	3.058	
13,400.00	9,233.00	13,542.17	9,461.00	103.82	102.31	-179.948	1,242.29	-4,257.79	227.00	151.37	75.63	3.001	
13,500.00	9,233.00	13,642.17	9,461.00	106.00	104.50	-179.948	1,242.38	-4,357.79	227.00	149.96	77.04	2.947	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	9,233.00	13,742.17	9,461.00	108.18	106.70	-179.948	1,242.47	-4,457.79	227.00	148.56	78.44	2.894	
13,700.00	9,233.00	13,842.17	9,461.00	110.37	108.89	-179.948	1,242.56	-4,557.79	227.00	147.14	79.86	2.842	
13,800.00	9,233.00	13,942.17	9,461.00	112.56	111.10	-179.948	1,242.66	-4,657.79	227.00	145.72	81.28	2.793	
13,900.00	9,233.00	14,042.17	9,461.00	114.76	113.31	-179.948	1,242.75	-4,757.79	227.00	144.29	82.71	2.745	
14,000.00	9,233.00	14,142.17	9,461.00	116.96	115.52	-179.948	1,242.84	-4,857.79	227.00	142.86	84.14	2.698	
14,100.00	9,233.00	14,242.17	9,461.00	119.17	117.73	-179.948	1,242.93	-4,957.79	227.00	141.43	85.57	2.653	
14,200.00	9,233.00	14,342.17	9,461.00	121.38	119.95	-179.948	1,243.02	-5,057.79	227.00	139.99	87.01	2.609	
14,300.00	9,233.00	14,442.17	9,461.00	123.59	122.17	-179.948	1,243.11	-5,157.79	227.00	138.54	88.46	2.566	
14,400.00	9,233.00	14,542.17	9,461.00	125.81	124.40	-179.948	1,243.20	-5,257.79	227.00	137.09	89.91	2.525	
14,500.00	9,233.00	14,642.17	9,461.00	128.03	126.63	-179.948	1,243.29	-5,357.79	227.00	135.64	91.36	2.485	
14,600.00	9,233.00	14,742.17	9,461.00	130.25	128.86	-179.948	1,243.38	-5,457.79	227.00	134.18	92.82	2.446	
14,700.00	9,233.00	14,842.17	9,461.00	132.48	131.09	-179.948	1,243.48	-5,557.79	227.00	132.72	94.28	2.408	
14,800.00	9,233.00	14,942.17	9,461.00	134.71	133.33	-179.948	1,243.57	-5,657.79	227.00	131.26	95.74	2.371	
14,900.00	9,233.00	15,042.17	9,461.00	136.94	135.57	-179.948	1,243.66	-5,757.79	227.00	129.79	97.21	2.335	
15,000.00	9,233.00	15,142.17	9,461.00	139.18	137.81	-179.948	1,243.75	-5,857.79	227.00	128.32	98.68	2.300	
15,100.00	9,233.00	15,242.17	9,461.00	141.41	140.06	-179.948	1,243.84	-5,957.79	227.00	126.85	100.15	2.266	
15,200.00	9,233.00	15,342.17	9,461.00	143.65	142.30	-179.948	1,243.93	-6,057.79	227.00	125.37	101.63	2.234	
15,300.00	9,233.00	15,442.17	9,461.00	145.90	144.55	-179.948	1,244.02	-6,157.79	227.00	123.89	103.11	2.202	
15,400.00	9,233.00	15,542.17	9,461.00	148.14	146.80	-179.948	1,244.11	-6,257.79	227.00	122.41	104.59	2.170	
15,500.00	9,233.00	15,642.17	9,461.00	150.39	149.05	-179.948	1,244.20	-6,357.79	227.00	120.92	106.08	2.140	
15,600.00	9,233.00	15,742.17	9,461.00	152.63	151.31	-179.948	1,244.30	-6,457.79	227.00	119.44	107.56	2.110	
15,700.00	9,233.00	15,842.17	9,461.00	154.88	153.56	-179.948	1,244.39	-6,557.79	227.00	117.95	109.05	2.082	
15,800.00	9,233.00	15,942.17	9,461.00	157.14	155.82	-179.948	1,244.48	-6,657.79	227.00	116.46	110.54	2.053	
15,900.00	9,233.00	16,042.17	9,461.00	159.39	158.08	-179.948	1,244.57	-6,757.79	227.00	114.96	112.04	2.026	
16,000.00	9,233.00	16,142.17	9,461.00	161.65	160.34	-179.948	1,244.66	-6,857.79	227.00	113.47	113.53	1.999	
16,100.00	9,233.00	16,242.17	9,461.00	163.90	162.60	-179.948	1,244.75	-6,957.79	227.00	111.97	115.03	1.973	
16,200.00	9,233.00	16,342.17	9,461.00	166.16	164.86	-179.948	1,244.84	-7,057.79	227.00	110.47	116.53	1.948	
16,300.00	9,233.00	16,442.17	9,461.00	168.42	167.13	-179.948	1,244.93	-7,157.79	227.00	108.97	118.03	1.923	
16,400.00	9,233.00	16,542.17	9,461.00	170.68	169.39	-179.948	1,245.02	-7,257.79	227.00	107.47	119.53	1.899	
16,500.00	9,233.00	16,642.17	9,461.00	172.95	171.66	-179.948	1,245.12	-7,357.79	227.00	105.96	121.04	1.875	
16,600.00	9,233.00	16,742.17	9,461.00	175.21	173.93	-179.948	1,245.21	-7,457.79	227.00	104.46	122.54	1.852	
16,700.00	9,233.00	16,842.17	9,461.00	177.47	176.20	-179.948	1,245.30	-7,557.79	227.00	102.95	124.05	1.830	
16,800.00	9,233.00	16,942.17	9,461.00	179.74	178.47	-179.948	1,245.39	-7,657.79	227.00	101.44	125.56	1.808	
16,900.00	9,233.00	17,042.17	9,461.00	182.01	180.74	-179.948	1,245.48	-7,757.79	227.00	99.93	127.07	1.786	
17,000.00	9,233.00	17,142.17	9,461.00	184.28	183.01	-179.948	1,245.57	-7,857.79	227.00	98.42	128.58	1.765	
17,100.00	9,233.00	17,242.17	9,461.00	186.55	185.29	-179.948	1,245.66	-7,957.79	227.00	96.90	130.10	1.745	
17,200.00	9,233.00	17,342.17	9,461.00	188.82	187.56	-179.948	1,245.75	-8,057.79	227.00	95.39	131.61	1.725	
17,300.00	9,233.00	17,442.17	9,461.00	191.09	189.84	-179.948	1,245.84	-8,157.79	227.00	93.87	133.13	1.705	
17,400.00	9,233.00	17,542.17	9,461.00	193.36	192.11	-179.948	1,245.94	-8,257.79	227.00	92.35	134.65	1.686	
17,500.00	9,233.00	17,642.17	9,461.00	195.64	194.39	-179.948	1,246.03	-8,357.79	227.00	90.84	136.16	1.667	
17,600.00	9,233.00	17,742.17	9,461.00	197.91	196.67	-179.948	1,246.12	-8,457.79	227.00	89.32	137.68	1.649	
17,700.00	9,233.00	17,842.17	9,461.00	200.19	198.95	-179.948	1,246.21	-8,557.79	227.00	87.79	139.21	1.631	
17,800.00	9,233.00	17,942.17	9,461.00	202.46	201.22	-179.948	1,246.30	-8,657.79	227.00	86.27	140.73	1.613	
17,900.00	9,233.00	18,042.17	9,461.00	204.74	203.50	-179.948	1,246.39	-8,757.79	227.00	84.75	142.25	1.596	
18,000.00	9,233.00	18,142.17	9,461.00	207.02	205.79	-179.948	1,246.48	-8,857.79	227.00	83.23	143.77	1.579	
18,100.00	9,233.00	18,242.17	9,461.00	209.29	208.07	-179.948	1,246.57	-8,957.79	227.00	81.70	145.30	1.562	
18,200.00	9,233.00	18,342.17	9,461.00	211.57	210.35	-179.948	1,246.66	-9,057.79	227.00	80.18	146.82	1.546	
18,300.00	9,233.00	18,442.17	9,461.00	213.85	212.63	-179.948	1,246.76	-9,157.79	227.00	78.65	148.35	1.530	
18,400.00	9,233.00	18,542.17	9,461.00	216.13	214.91	-179.948	1,246.85	-9,257.79	227.00	77.12	149.88	1.515	
18,500.00	9,233.00	18,642.17	9,461.00	218.42	217.20	-179.948	1,246.94	-9,357.79	227.00	75.59	151.41	1.499	Level 3
18,600.00	9,233.00	18,742.17	9,461.00	220.70	219.48	-179.948	1,247.03	-9,457.79	227.00	74.06	152.94	1.484	Level 3

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 205H - Wellbore #1 - Design #0 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,700.00	9,233.00	18,842.17	9,461.00	222.98	221.77	-179.948	1,247.12	-9,557.79	227.00	72.53	154.47	1.470	Level 3
18,800.00	9,233.00	18,942.17	9,461.00	225.26	224.05	-179.948	1,247.21	-9,657.79	227.00	71.00	156.00	1.455	Level 3
18,900.00	9,233.00	19,042.17	9,461.00	227.55	226.34	-179.948	1,247.30	-9,757.79	227.00	69.47	157.53	1.441	Level 3
19,000.00	9,233.00	19,142.17	9,461.00	229.83	228.63	-179.948	1,247.39	-9,857.79	227.00	67.94	159.06	1.427	Level 3
19,100.00	9,233.00	19,242.17	9,461.00	232.12	230.91	-179.948	1,247.48	-9,957.79	227.00	66.41	160.59	1.413	Level 3
19,200.00	9,233.00	19,342.17	9,461.00	234.40	233.20	-179.948	1,247.58	-10,057.79	227.00	64.87	162.13	1.400	Level 3
19,300.00	9,233.00	19,442.17	9,461.00	236.69	235.49	-179.948	1,247.67	-10,157.79	227.00	63.34	163.66	1.387	Level 3
19,400.00	9,233.00	19,542.17	9,461.00	238.97	237.78	-179.948	1,247.76	-10,257.79	227.00	61.80	165.20	1.374	Level 3
19,500.00	9,233.00	19,642.17	9,461.00	241.26	240.07	-179.948	1,247.85	-10,357.79	227.00	60.27	166.73	1.361	Level 3
19,600.00	9,233.00	19,742.17	9,461.00	243.55	242.36	-179.948	1,247.94	-10,457.79	227.00	58.73	168.27	1.349	Level 3
19,700.00	9,233.00	19,842.17	9,461.00	245.84	244.65	-179.948	1,248.03	-10,557.79	227.00	57.19	169.81	1.337	Level 3
19,800.00	9,233.00	19,942.17	9,461.00	248.12	246.94	-179.948	1,248.12	-10,657.79	227.00	55.65	171.35	1.325	Level 3
19,900.00	9,233.00	20,042.17	9,461.00	250.41	249.23	-179.948	1,248.21	-10,757.79	227.00	54.12	172.88	1.313	Level 3
19,971.26	9,233.00	20,113.43	9,461.00	252.04	250.86	-179.948	1,248.28	-10,829.05	227.00	53.02	173.98	1.305	Level 3
20,000.00	9,233.00	20,142.17	9,461.00	252.70	251.52	-179.948	1,248.30	-10,857.79	227.00	52.58	174.42	1.301	Level 3
20,001.16	9,233.00	20,143.33	9,461.00	252.73	251.54	-179.948	1,248.31	-10,858.95	227.00	52.56	174.44	1.301	Level 3
20,011.26	9,233.00	20,153.43	9,461.00	252.96	251.78	-179.950	1,248.31	-10,869.05	227.00	52.40	174.60	1.300	Level 3, ES, SF

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +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	0.00	-5.317	1,429.00	-133.00	1,435.18				
100.00	100.00	101.00	101.00	0.13	0.13	-5.317	1,429.00	-133.00	1,435.18	1,434.92	0.26	5,522.197	
200.00	200.00	201.00	201.00	0.49	0.49	-5.317	1,429.00	-133.00	1,435.18	1,434.20	0.98	1,469.210	
300.00	300.00	301.00	301.00	0.85	0.85	-5.317	1,429.00	-133.00	1,435.18	1,433.48	1.69	847.322	
400.00	400.00	401.00	401.00	1.20	1.21	-5.317	1,429.00	-133.00	1,435.18	1,432.77	2.41	595.330	
500.00	500.00	501.00	501.00	1.56	1.57	-5.317	1,429.00	-133.00	1,435.18	1,432.05	3.13	458.865	
600.00	600.00	601.00	601.00	1.92	1.92	-5.317	1,429.00	-133.00	1,435.18	1,431.33	3.84	373.296	
700.00	700.00	701.00	701.00	2.28	2.28	-5.317	1,429.00	-133.00	1,435.18	1,430.61	4.56	314.625	
750.00	750.00	751.00	751.00	2.46	2.46	-5.317	1,429.00	-133.00	1,435.18	1,430.26	4.92	291.701	
800.00	800.00	801.00	801.00	2.64	2.64	-5.319	1,429.00	-133.00	1,434.96	1,429.68	5.28	271.851	
900.00	899.98	900.98	900.98	3.00	3.00	-5.334	1,429.00	-133.00	1,433.26	1,427.26	6.00	239.054	
1,000.00	999.92	1,000.92	1,000.92	3.36	3.36	-5.364	1,429.00	-133.00	1,429.85	1,423.14	6.71	213.003	
1,100.00	1,099.78	1,100.78	1,100.78	3.71	3.72	-5.409	1,429.00	-133.00	1,424.74	1,417.31	7.43	191.753	
1,200.00	1,199.54	1,200.54	1,200.54	4.07	4.07	-5.470	1,429.00	-133.00	1,417.93	1,409.78	8.15	174.039	
1,300.00	1,299.16	1,300.21	1,300.21	4.43	4.43	-5.546	1,429.00	-133.00	1,409.42	1,400.55	8.86	158.999	
1,400.00	1,398.61	1,431.73	1,431.72	4.80	4.87	-5.636	1,427.50	-132.79	1,398.07	1,388.40	9.67	144.632	
1,500.00	1,497.86	1,562.14	1,562.05	5.17	5.30	-5.739	1,423.06	-132.16	1,382.78	1,372.33	10.45	132.345	
1,600.00	1,596.89	1,691.13	1,690.83	5.55	5.73	-5.856	1,415.79	-131.13	1,363.59	1,352.37	11.23	121.473	
1,630.39	1,626.93	1,730.01	1,729.60	5.66	5.86	-5.894	1,413.03	-130.73	1,357.00	1,345.54	11.46	118.392	
1,700.00	1,695.72	1,818.54	1,817.83	5.93	6.16	-5.984	1,405.78	-129.71	1,340.96	1,328.97	12.00	111.789	
1,800.00	1,794.54	1,944.56	1,943.20	6.31	6.60	-6.114	1,393.14	-127.91	1,316.12	1,303.37	12.76	103.180	
1,900.00	1,893.36	2,069.12	2,066.81	6.70	7.04	-6.247	1,377.97	-125.76	1,289.18	1,275.67	13.51	95.443	
2,000.00	1,992.18	2,192.12	2,188.52	7.09	7.49	-6.382	1,360.37	-123.26	1,260.17	1,245.92	14.25	88.437	
2,100.00	2,091.01	2,313.49	2,308.22	7.48	7.94	-6.522	1,340.48	-120.44	1,229.14	1,214.15	14.98	82.045	
2,200.00	2,189.83	2,433.15	2,425.78	7.88	8.40	-6.667	1,318.42	-117.31	1,196.12	1,180.42	15.70	76.173	
2,300.00	2,288.65	2,527.78	2,518.56	8.27	8.77	-6.826	1,299.96	-114.69	1,162.08	1,145.69	16.39	70.910	
2,400.00	2,387.47	2,621.76	2,610.69	8.67	9.14	-6.994	1,281.63	-112.09	1,128.05	1,110.97	17.08	66.062	
2,500.00	2,486.29	2,715.73	2,702.82	9.07	9.52	-7.173	1,263.30	-109.49	1,094.03	1,076.26	17.77	61.581	
2,600.00	2,585.12	2,809.70	2,794.95	9.47	9.90	-7.364	1,244.97	-106.88	1,060.01	1,041.56	18.46	57.428	
2,700.00	2,683.94	2,903.67	2,887.08	9.87	10.28	-7.567	1,226.64	-104.28	1,026.02	1,006.86	19.15	53.570	
2,800.00	2,782.76	2,997.65	2,979.21	10.27	10.67	-7.784	1,208.30	-101.68	992.03	972.18	19.85	49.978	
2,900.00	2,881.58	3,091.62	3,071.34	10.67	11.06	-8.016	1,189.97	-99.08	958.06	937.51	20.55	46.626	
3,000.00	2,980.40	3,185.59	3,163.47	11.07	11.46	-8.266	1,171.64	-96.48	924.10	902.86	21.25	43.491	
3,100.00	3,079.22	3,279.57	3,255.60	11.48	11.85	-8.535	1,153.31	-93.88	890.17	868.22	21.95	40.554	
3,200.00	3,178.05	3,373.54	3,347.73	11.88	12.25	-8.824	1,134.98	-91.28	856.25	833.60	22.65	37.797	
3,300.00	3,276.87	3,467.51	3,439.87	12.28	12.65	-9.138	1,116.65	-88.68	822.36	799.00	23.36	35.205	
3,400.00	3,375.69	3,561.49	3,532.00	12.69	13.05	-9.479	1,098.32	-86.07	788.49	764.42	24.07	32.763	
3,500.00	3,474.51	3,655.46	3,624.13	13.09	13.46	-9.850	1,079.99	-83.47	754.65	729.88	24.78	30.460	
3,600.00	3,573.33	3,749.43	3,716.26	13.50	13.86	-10.256	1,061.65	-80.87	720.85	695.36	25.49	28.285	
3,700.00	3,672.16	3,843.41	3,808.39	13.90	14.27	-10.702	1,043.32	-78.27	687.08	660.88	26.20	26.227	
3,800.00	3,770.98	3,937.38	3,900.52	14.31	14.67	-11.195	1,024.99	-75.67	653.36	626.44	26.91	24.278	
3,900.00	3,869.80	4,031.35	3,992.65	14.71	15.08	-11.740	1,006.66	-73.07	619.69	592.06	27.63	22.429	
4,000.00	3,968.62	4,125.32	4,084.78	15.12	15.49	-12.348	988.33	-70.47	586.07	557.73	28.35	20.674	
4,100.00	4,067.44	4,219.30	4,176.91	15.53	15.90	-13.031	970.00	-67.87	552.53	523.46	29.07	19.007	
4,200.00	4,166.26	4,313.27	4,269.05	15.93	16.31	-13.801	951.67	-65.26	519.08	489.28	29.80	17.421	
4,300.00	4,265.09	4,407.24	4,361.18	16.34	16.72	-14.677	933.34	-62.66	485.73	455.20	30.53	15.911	
4,400.00	4,363.91	4,501.22	4,453.31	16.74	17.13	-15.681	915.00	-60.06	452.50	421.24	31.26	14.474	
4,500.00	4,462.73	4,595.19	4,545.44	17.15	17.55	-16.845	896.67	-57.46	419.43	387.42	32.01	13.104	
4,600.00	4,561.55	4,689.16	4,637.57	17.56	17.96	-18.206	878.34	-54.86	386.55	353.79	32.76	11.798	
4,700.00	4,660.37	4,783.14	4,729.70	17.97	18.38	-19.819	860.01	-52.26	353.92	320.39	33.53	10.555	
4,800.00	4,759.20	4,877.11	4,821.83	18.37	18.79	-21.757	841.68	-49.66	321.62	287.30	34.32	9.371	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #0 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,858.02	4,971.08	4,913.96	18.78	19.21	-24.122	823.35	-47.05	289.75	254.62	35.14	8.247	
5,000.00	4,956.84	5,065.05	5,006.09	19.19	19.62	-27.063	805.02	-44.45	258.48	222.49	35.99	7.182	
5,100.00	5,055.66	5,159.03	5,098.22	19.60	20.04	-30.796	786.69	-41.85	228.04	191.13	36.91	6.179	
5,200.00	5,154.48	5,253.00	5,190.36	20.00	20.45	-35.640	768.35	-39.25	198.83	160.91	37.92	5.244	
5,300.00	5,253.30	5,346.97	5,282.49	20.41	20.87	-42.067	750.02	-36.65	171.47	132.41	39.06	4.390	
5,400.00	5,352.13	5,440.95	5,374.62	20.82	21.29	-50.735	731.69	-34.05	147.00	106.60	40.40	3.639	
5,500.00	5,450.95	5,534.92	5,466.75	21.23	21.71	-62.383	713.36	-31.45	127.10	85.18	41.92	3.032	
5,600.00	5,549.77	5,628.89	5,558.88	21.63	22.12	-77.323	695.03	-28.85	114.18	70.74	43.44	2.628	
5,683.30	5,632.09	5,707.18	5,635.63	21.97	22.47	-91.520	679.76	-26.68	110.57	66.18	44.39	2.491	CC, ES
5,700.00	5,648.59	5,722.87	5,651.01	22.04	22.54	-94.418	676.70	-26.24	110.72	66.19	44.53	2.487	SF
5,800.00	5,747.41	5,816.84	5,743.14	22.45	22.96	-110.983	658.37	-23.64	117.55	72.63	44.92	2.617	
5,900.00	5,846.24	5,910.81	5,835.27	22.86	23.38	-124.758	640.04	-21.04	133.10	88.18	44.92	2.963	
6,000.00	5,945.06	6,004.79	5,927.40	23.27	23.80	-135.244	621.70	-18.44	154.76	109.84	44.92	3.445	
6,054.08	5,998.50	6,055.61	5,977.23	23.49	24.03	-139.732	611.79	-17.03	168.22	123.23	44.98	3.739	
6,100.00	6,043.88	6,098.75	6,019.53	23.68	24.22	-143.057	603.37	-15.84	180.24	135.17	45.07	3.999	
6,200.00	6,142.71	6,192.68	6,111.62	24.08	24.64	-149.243	585.05	-13.24	207.51	162.16	45.35	4.576	
6,229.83	6,172.19	6,220.69	6,139.08	24.20	24.76	-150.863	579.59	-12.46	215.87	170.42	45.45	4.749	
6,300.00	6,241.54	6,286.56	6,203.66	24.49	25.06	-154.261	566.74	-10.64	236.07	190.34	45.73	5.162	
6,400.00	6,340.36	6,380.44	6,295.69	24.89	25.48	-158.200	548.43	-8.04	266.00	219.79	46.21	5.756	
6,500.00	6,439.18	6,474.31	6,387.73	25.30	25.90	-161.337	530.11	-5.44	296.92	250.17	46.75	6.351	
6,600.00	6,538.00	6,568.19	6,479.76	25.71	26.32	-163.881	511.80	-2.84	328.54	281.20	47.34	6.940	
6,700.00	6,636.82	6,662.06	6,571.80	26.11	26.74	-165.977	493.49	-0.25	360.69	312.73	47.96	7.521	
6,800.00	6,735.64	6,755.94	6,663.83	26.52	27.16	-167.730	475.18	2.35	393.22	344.62	48.60	8.091	
6,900.00	6,834.47	6,849.81	6,755.87	26.93	27.58	-169.215	456.86	4.95	426.06	376.80	49.26	8.649	
7,000.00	6,933.29	6,943.69	6,847.90	27.33	28.00	-170.488	438.55	7.55	459.14	409.21	49.93	9.196	
7,100.00	7,032.11	7,037.56	6,939.94	27.74	28.42	-171.589	420.24	10.15	492.40	441.79	50.61	9.729	
7,200.00	7,130.93	7,131.44	7,031.97	28.15	28.84	-172.552	401.93	12.75	525.82	474.52	51.30	10.251	
7,300.00	7,229.75	7,225.31	7,124.01	28.56	29.26	-173.399	383.62	15.35	559.37	507.38	51.99	10.759	
7,400.00	7,328.58	7,319.19	7,216.04	28.96	29.68	-174.150	365.30	17.94	593.02	540.33	52.69	11.256	
7,500.00	7,427.40	7,413.06	7,308.08	29.37	30.11	-174.821	346.99	20.54	626.75	573.37	53.39	11.740	
7,600.00	7,526.22	7,506.94	7,400.11	29.78	30.53	-175.424	328.68	23.14	660.57	606.48	54.09	12.212	
7,700.00	7,625.04	7,600.81	7,492.15	30.18	30.95	-175.967	310.37	25.74	694.44	639.65	54.80	12.673	
7,800.00	7,723.86	7,694.69	7,584.18	30.59	31.37	-176.460	292.05	28.34	728.37	672.87	55.50	13.123	
7,900.00	7,822.68	7,788.56	7,676.22	31.00	31.79	-176.910	273.74	30.94	762.35	706.14	56.21	13.562	
8,000.00	7,921.51	7,882.44	7,768.25	31.41	32.22	-177.321	255.43	33.54	796.37	739.45	56.92	13.990	
8,100.00	8,020.33	7,976.32	7,860.29	31.82	32.64	-177.698	237.12	36.13	830.43	772.79	57.64	14.408	
8,200.00	8,119.15	8,070.19	7,952.32	32.22	33.06	-178.046	218.81	38.73	864.52	806.17	58.35	14.816	
8,300.00	8,217.97	8,164.07	8,044.36	32.63	33.48	-178.367	200.49	41.33	898.63	839.57	59.06	15.215	
8,400.00	8,316.79	8,257.94	8,136.39	33.04	33.90	-178.665	182.18	43.93	932.78	873.00	59.78	15.604	
8,500.00	8,415.62	8,351.82	8,228.43	33.45	34.33	-178.941	163.87	46.53	966.94	906.44	60.49	15.984	
8,600.00	8,514.44	8,445.69	8,320.47	33.85	34.75	-179.199	145.56	49.13	1,001.12	939.91	61.21	16.355	
8,700.00	8,613.26	8,539.57	8,412.50	34.26	35.17	-179.440	127.25	51.73	1,035.33	973.40	61.93	16.718	
8,761.09	8,673.63	8,596.92	8,468.73	34.51	35.43	-179.580	116.06	53.31	1,056.23	993.86	62.37	16.936	
8,800.00	8,712.04	8,633.36	8,504.46	34.67	35.60	-179.738	108.95	54.32	1,069.52	1,006.88	62.64	17.073	
8,850.00	8,761.06	8,679.77	8,549.96	34.87	35.80	179.858	99.90	55.61	1,086.51	1,023.52	62.99	17.249	
8,900.00	8,809.36	8,725.38	8,594.68	35.06	36.01	179.239	91.00	56.87	1,103.35	1,040.02	63.33	17.423	
8,950.00	8,856.58	8,769.85	8,638.27	35.24	36.21	178.421	82.32	58.10	1,120.04	1,056.39	63.65	17.596	
9,000.00	8,902.35	8,812.82	8,680.40	35.41	36.40	177.416	73.94	59.29	1,136.63	1,072.66	63.97	17.768	
9,050.00	8,946.33	8,853.98	8,720.75	35.58	36.59	176.240	65.91	60.43	1,153.17	1,088.89	64.27	17.942	
9,100.00	8,988.19	8,893.01	8,759.02	35.73	36.77	174.909	58.30	61.51	1,169.75	1,105.18	64.57	18.117	
9,150.00	9,027.59	8,929.62	8,794.91	35.88	36.93	173.439	51.16	62.52	1,186.47	1,121.61	64.85	18.295	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	8,963.53	8,828.15	36.02	37.08	171.845	44.54	63.46	1,203.43	1,138.30	65.13	18.477	
9,250.00	9,097.89	8,994.47	8,858.49	36.15	37.22	170.146	38.51	64.32	1,220.73	1,155.32	65.41	18.663	
9,300.00	9,128.24	9,023.91	8,887.35	36.27	37.36	168.361	32.76	65.12	1,238.47	1,172.76	65.70	18.850	
9,350.00	9,155.08	9,073.31	8,935.77	36.40	37.57	166.636	23.13	64.02	1,256.41	1,190.17	66.25	18.966	
9,400.00	9,178.21	9,131.51	8,992.45	36.53	37.82	165.137	11.86	57.27	1,274.27	1,207.39	66.88	19.054	
9,450.00	9,197.44	9,203.82	9,061.46	36.67	38.10	164.055	-1.87	40.79	1,291.78	1,224.19	67.59	19.112	
9,500.00	9,212.64	9,300.04	9,149.08	36.83	38.43	163.781	-19.29	5.39	1,308.50	1,240.15	68.34	19.146	
9,550.00	9,223.67	9,438.59	9,262.32	37.02	38.81	165.208	-41.80	-70.59	1,323.52	1,254.47	69.05	19.167	
9,600.00	9,230.48	9,648.71	9,391.90	37.23	39.21	170.208	-67.53	-232.48	1,334.95	1,265.27	69.69	19.157	
9,654.13	9,233.00	9,925.39	9,460.68	37.50	39.61	179.365	-81.14	-497.30	1,339.42	1,268.34	71.08	18.844	
9,700.00	9,233.00	9,986.28	9,461.00	37.77	39.75	-179.983	-81.18	-558.18	1,339.48	1,267.67	71.81	18.653	
9,800.00	9,233.00	10,086.28	9,461.00	38.46	40.07	-179.983	-81.16	-658.18	1,339.54	1,266.15	73.39	18.253	
9,900.00	9,233.00	10,186.28	9,461.00	39.30	40.55	-179.983	-81.13	-758.18	1,339.60	1,264.40	75.20	17.813	
10,000.00	9,233.00	10,286.28	9,461.00	40.29	41.22	-179.983	-81.10	-858.18	1,339.66	1,262.41	77.25	17.342	
10,100.00	9,233.00	10,386.28	9,461.00	41.39	42.08	-179.983	-81.07	-958.18	1,339.72	1,260.22	79.51	16.851	
10,200.00	9,233.00	10,486.28	9,461.00	42.60	43.11	-179.983	-81.04	-1,058.18	1,339.78	1,257.83	81.95	16.348	
10,300.00	9,233.00	10,586.28	9,461.00	43.90	44.27	-179.983	-81.01	-1,158.18	1,339.84	1,255.27	84.58	15.842	
10,400.00	9,233.00	10,686.28	9,461.00	45.30	45.55	-179.983	-80.98	-1,258.18	1,339.90	1,252.54	87.36	15.337	
10,500.00	9,233.00	10,786.28	9,461.00	46.76	46.92	-179.983	-80.95	-1,358.18	1,339.96	1,249.67	90.29	14.840	
10,600.00	9,233.00	10,886.28	9,461.00	48.30	48.38	-179.983	-80.92	-1,458.18	1,340.03	1,246.67	93.35	14.354	
10,700.00	9,233.00	10,986.28	9,461.00	49.89	49.91	-179.983	-80.89	-1,558.18	1,340.09	1,243.55	96.53	13.882	
10,800.00	9,233.00	11,086.28	9,461.00	51.55	51.50	-179.983	-80.86	-1,658.18	1,340.15	1,240.33	99.82	13.426	
10,900.00	9,233.00	11,186.28	9,461.00	53.25	53.15	-179.983	-80.83	-1,758.18	1,340.21	1,237.00	103.21	12.986	
11,000.00	9,233.00	11,286.28	9,461.00	55.00	54.85	-179.983	-80.80	-1,858.18	1,340.27	1,233.59	106.68	12.564	
11,100.00	9,233.00	11,386.28	9,461.00	56.79	56.60	-179.983	-80.77	-1,958.18	1,340.33	1,230.10	110.23	12.159	
11,200.00	9,233.00	11,486.28	9,461.00	58.61	58.38	-179.983	-80.74	-2,058.18	1,340.39	1,226.53	113.86	11.772	
11,300.00	9,233.00	11,586.28	9,461.00	60.47	60.21	-179.983	-80.71	-2,158.18	1,340.45	1,222.90	117.55	11.403	
11,400.00	9,233.00	11,686.28	9,461.00	62.36	62.06	-179.983	-80.68	-2,258.18	1,340.51	1,219.21	121.30	11.051	
11,500.00	9,233.00	11,786.28	9,461.00	64.28	63.95	-179.983	-80.65	-2,358.18	1,340.57	1,215.47	125.11	10.716	
11,600.00	9,233.00	11,886.28	9,461.00	66.22	65.86	-179.983	-80.62	-2,458.18	1,340.63	1,211.67	128.96	10.396	
11,700.00	9,233.00	11,986.28	9,461.00	68.19	67.80	-179.983	-80.59	-2,558.18	1,340.69	1,207.83	132.86	10.091	
11,800.00	9,233.00	12,086.28	9,461.00	70.17	69.76	-179.983	-80.56	-2,658.18	1,340.75	1,203.95	136.80	9.801	
11,900.00	9,233.00	12,186.28	9,461.00	72.18	71.75	-179.983	-80.53	-2,758.18	1,340.81	1,200.03	140.78	9.524	
12,000.00	9,233.00	12,286.28	9,461.00	74.20	73.75	-179.983	-80.50	-2,858.18	1,340.87	1,196.08	144.79	9.261	
12,100.00	9,233.00	12,386.28	9,461.00	76.25	75.77	-179.983	-80.47	-2,958.18	1,340.94	1,192.10	148.84	9.009	
12,200.00	9,233.00	12,486.28	9,461.00	78.30	77.81	-179.983	-80.44	-3,058.18	1,341.00	1,188.08	152.91	8.770	
12,300.00	9,233.00	12,586.28	9,461.00	80.37	79.86	-179.983	-80.41	-3,158.18	1,341.06	1,184.04	157.01	8.541	
12,400.00	9,233.00	12,686.28	9,461.00	82.45	81.92	-179.983	-80.38	-3,258.18	1,341.12	1,179.98	161.14	8.323	
12,500.00	9,233.00	12,786.28	9,461.00	84.55	84.00	-179.983	-80.36	-3,358.18	1,341.18	1,175.89	165.29	8.114	
12,600.00	9,233.00	12,886.28	9,461.00	86.66	86.09	-179.983	-80.33	-3,458.18	1,341.24	1,171.78	169.46	7.915	
12,700.00	9,233.00	12,986.28	9,461.00	88.77	88.19	-179.983	-80.30	-3,558.18	1,341.30	1,167.65	173.65	7.724	
12,800.00	9,233.00	13,086.28	9,461.00	90.90	90.31	-179.983	-80.27	-3,658.18	1,341.36	1,163.50	177.86	7.542	
12,900.00	9,233.00	13,186.28	9,461.00	93.03	92.43	-179.983	-80.24	-3,758.18	1,341.42	1,159.33	182.09	7.367	
13,000.00	9,233.00	13,286.28	9,461.00	95.18	94.56	-179.983	-80.21	-3,858.18	1,341.48	1,155.15	186.33	7.199	
13,100.00	9,233.00	13,386.28	9,461.00	97.33	96.70	-179.983	-80.18	-3,958.18	1,341.54	1,150.95	190.59	7.039	
13,200.00	9,233.00	13,486.28	9,461.00	99.48	98.84	-179.983	-80.15	-4,058.18	1,341.60	1,146.74	194.86	6.885	
13,300.00	9,233.00	13,586.28	9,461.00	101.65	101.00	-179.983	-80.12	-4,158.18	1,341.66	1,142.52	199.15	6.737	
13,400.00	9,233.00	13,686.28	9,461.00	103.82	103.16	-179.983	-80.09	-4,258.18	1,341.72	1,138.28	203.45	6.595	
13,500.00	9,233.00	13,786.28	9,461.00	106.00	105.32	-179.983	-80.06	-4,358.18	1,341.78	1,134.03	207.75	6.459	
13,600.00	9,233.00	13,886.28	9,461.00	108.18	107.50	-179.983	-80.03	-4,458.18	1,341.85	1,129.77	212.07	6.327	
13,700.00	9,233.00	13,986.28	9,461.00	110.37	109.68	-179.983	-80.00	-4,558.18	1,341.91	1,125.50	216.40	6.201	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	14,086.28	9,461.00	112.56	111.86	-179.983	-79.97	-4,658.18	1,341.97	1,121.22	220.74	6.079	
13,900.00	9,233.00	14,186.28	9,461.00	114.76	114.05	-179.983	-79.94	-4,758.18	1,342.03	1,116.94	225.09	5.962	
14,000.00	9,233.00	14,286.28	9,461.00	116.96	116.24	-179.983	-79.91	-4,858.18	1,342.09	1,112.64	229.45	5.849	
14,100.00	9,233.00	14,386.28	9,461.00	119.17	118.44	-179.983	-79.88	-4,958.18	1,342.15	1,108.34	233.81	5.740	
14,200.00	9,233.00	14,486.28	9,461.00	121.38	120.64	-179.983	-79.85	-5,058.18	1,342.21	1,104.02	238.18	5.635	
14,300.00	9,233.00	14,586.28	9,461.00	123.59	122.85	-179.983	-79.82	-5,158.18	1,342.27	1,099.71	242.56	5.534	
14,400.00	9,233.00	14,686.28	9,461.00	125.81	125.06	-179.983	-79.79	-5,258.18	1,342.33	1,095.38	246.95	5.436	
14,500.00	9,233.00	14,786.28	9,461.00	128.03	127.27	-179.983	-79.76	-5,358.18	1,342.39	1,091.05	251.34	5.341	
14,600.00	9,233.00	14,886.28	9,461.00	130.25	129.49	-179.983	-79.73	-5,458.18	1,342.45	1,086.71	255.74	5.249	
14,700.00	9,233.00	14,986.28	9,461.00	132.48	131.71	-179.983	-79.70	-5,558.18	1,342.51	1,082.37	260.15	5.161	
14,800.00	9,233.00	15,086.28	9,461.00	134.71	133.94	-179.983	-79.67	-5,658.18	1,342.57	1,078.02	264.56	5.075	
14,900.00	9,233.00	15,186.28	9,461.00	136.94	136.16	-179.983	-79.64	-5,758.18	1,342.63	1,073.66	268.97	4.992	
15,000.00	9,233.00	15,286.28	9,461.00	139.18	138.39	-179.983	-79.61	-5,858.18	1,342.69	1,069.30	273.39	4.911	
15,100.00	9,233.00	15,386.28	9,461.00	141.41	140.62	-179.983	-79.59	-5,958.18	1,342.76	1,064.94	277.82	4.833	
15,200.00	9,233.00	15,486.28	9,461.00	143.65	142.86	-179.983	-79.56	-6,058.18	1,342.82	1,060.57	282.25	4.758	
15,300.00	9,233.00	15,586.28	9,461.00	145.90	145.10	-179.983	-79.53	-6,158.18	1,342.88	1,056.20	286.68	4.684	
15,400.00	9,233.00	15,686.28	9,461.00	148.14	147.33	-179.983	-79.50	-6,258.18	1,342.94	1,051.82	291.12	4.613	
15,500.00	9,233.00	15,786.28	9,461.00	150.39	149.58	-179.983	-79.47	-6,358.18	1,343.00	1,047.44	295.56	4.544	
15,600.00	9,233.00	15,886.28	9,461.00	152.63	151.82	-179.983	-79.44	-6,458.18	1,343.06	1,043.05	300.01	4.477	
15,700.00	9,233.00	15,986.28	9,461.00	154.88	154.06	-179.983	-79.41	-6,558.18	1,343.12	1,038.66	304.46	4.412	
15,800.00	9,233.00	16,086.28	9,461.00	157.14	156.31	-179.983	-79.38	-6,658.18	1,343.18	1,034.27	308.91	4.348	
15,900.00	9,233.00	16,186.28	9,461.00	159.39	158.56	-179.983	-79.35	-6,758.18	1,343.24	1,029.88	313.36	4.287	
16,000.00	9,233.00	16,286.28	9,461.00	161.65	160.81	-179.983	-79.32	-6,858.18	1,343.30	1,025.48	317.82	4.227	
16,100.00	9,233.00	16,386.28	9,461.00	163.90	163.06	-179.983	-79.29	-6,958.18	1,343.36	1,021.08	322.29	4.168	
16,200.00	9,233.00	16,486.28	9,461.00	166.16	165.32	-179.983	-79.26	-7,058.18	1,343.42	1,016.67	326.75	4.111	
16,300.00	9,233.00	16,586.28	9,461.00	168.42	167.58	-179.983	-79.23	-7,158.18	1,343.48	1,012.27	331.22	4.056	
16,400.00	9,233.00	16,686.28	9,461.00	170.68	169.83	-179.983	-79.20	-7,258.18	1,343.54	1,007.86	335.69	4.002	
16,500.00	9,233.00	16,786.28	9,461.00	172.95	172.09	-179.983	-79.17	-7,358.18	1,343.61	1,003.44	340.16	3.950	
16,600.00	9,233.00	16,886.28	9,461.00	175.21	174.35	-179.983	-79.14	-7,458.18	1,343.67	999.03	344.64	3.899	
16,700.00	9,233.00	16,986.28	9,461.00	177.47	176.61	-179.983	-79.11	-7,558.18	1,343.73	994.61	349.12	3.849	
16,800.00	9,233.00	17,086.28	9,461.00	179.74	178.88	-179.983	-79.08	-7,658.18	1,343.79	990.19	353.60	3.800	
16,900.00	9,233.00	17,186.28	9,461.00	182.01	181.14	-179.983	-79.05	-7,758.18	1,343.85	985.77	358.08	3.753	
17,000.00	9,233.00	17,286.28	9,461.00	184.28	183.40	-179.983	-79.02	-7,858.18	1,343.91	981.35	362.56	3.707	
17,100.00	9,233.00	17,386.28	9,461.00	186.55	185.67	-179.983	-78.99	-7,958.18	1,343.97	976.92	367.05	3.662	
17,200.00	9,233.00	17,486.28	9,461.00	188.82	187.94	-179.983	-78.96	-8,058.18	1,344.03	972.49	371.54	3.617	
17,300.00	9,233.00	17,586.28	9,461.00	191.09	190.21	-179.983	-78.93	-8,158.18	1,344.09	968.06	376.03	3.574	
17,400.00	9,233.00	17,686.28	9,461.00	193.36	192.48	-179.983	-78.90	-8,258.18	1,344.15	963.63	380.52	3.532	
17,500.00	9,233.00	17,786.28	9,461.00	195.64	194.75	-179.983	-78.87	-8,358.18	1,344.21	959.20	385.01	3.491	
17,600.00	9,233.00	17,886.28	9,461.00	197.91	197.02	-179.983	-78.84	-8,458.18	1,344.27	954.76	389.51	3.451	
17,700.00	9,233.00	17,986.28	9,461.00	200.19	199.29	-179.983	-78.82	-8,558.18	1,344.33	950.33	394.01	3.412	
17,800.00	9,233.00	18,086.28	9,461.00	202.46	201.56	-179.983	-78.79	-8,658.18	1,344.39	945.89	398.51	3.374	
17,900.00	9,233.00	18,186.28	9,461.00	204.74	203.84	-179.983	-78.76	-8,758.18	1,344.45	941.45	403.01	3.336	
18,000.00	9,233.00	18,286.28	9,461.00	207.02	206.11	-179.983	-78.73	-8,858.18	1,344.52	937.01	407.51	3.299	
18,100.00	9,233.00	18,386.28	9,461.00	209.29	208.39	-179.983	-78.70	-8,958.18	1,344.58	932.56	412.01	3.263	
18,200.00	9,233.00	18,486.28	9,461.00	211.57	210.66	-179.983	-78.67	-9,058.18	1,344.64	928.12	416.52	3.228	
18,300.00	9,233.00	18,586.28	9,461.00	213.85	212.94	-179.983	-78.64	-9,158.18	1,344.70	923.67	421.02	3.194	
18,400.00	9,233.00	18,686.28	9,461.00	216.13	215.22	-179.983	-78.61	-9,258.18	1,344.76	919.23	425.53	3.160	
18,500.00	9,233.00	18,786.28	9,461.00	218.42	217.50	-179.983	-78.58	-9,358.18	1,344.82	914.78	430.04	3.127	
18,600.00	9,233.00	18,886.28	9,461.00	220.70	219.78	-179.983	-78.55	-9,458.18	1,344.88	910.33	434.55	3.095	
18,700.00	9,233.00	18,986.28	9,461.00	222.98	222.06	-179.983	-78.52	-9,558.18	1,344.94	905.88	439.06	3.063	
18,800.00	9,233.00	19,086.28	9,461.00	225.26	224.34	-179.983	-78.49	-9,658.18	1,345.00	901.43	443.57	3.032	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 206H - Wellbore #1 - Design #0 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	9,233.00	19,186.28	9,461.00	227.55	226.62	-179.983	-78.46	-9,758.18	1,345.06	896.98	448.09	3.002	
19,000.00	9,233.00	19,286.28	9,461.00	229.83	228.90	-179.983	-78.43	-9,858.18	1,345.12	892.52	452.60	2.972	
19,100.00	9,233.00	19,386.28	9,461.00	232.12	231.18	-179.983	-78.40	-9,958.18	1,345.18	888.07	457.12	2.943	
19,200.00	9,233.00	19,486.28	9,461.00	234.40	233.47	-179.983	-78.37	-10,058.18	1,345.24	883.61	461.63	2.914	
19,300.00	9,233.00	19,586.28	9,461.00	236.69	235.75	-179.983	-78.34	-10,158.18	1,345.30	879.15	466.15	2.886	
19,400.00	9,233.00	19,686.28	9,461.00	238.97	238.04	-179.983	-78.31	-10,258.18	1,345.36	874.70	470.67	2.858	
19,500.00	9,233.00	19,786.28	9,461.00	241.26	240.32	-179.983	-78.28	-10,358.18	1,345.43	870.24	475.19	2.831	
19,600.00	9,233.00	19,886.28	9,461.00	243.55	242.60	-179.983	-78.25	-10,458.18	1,345.49	865.78	479.71	2.805	
19,700.00	9,233.00	19,986.28	9,461.00	245.84	244.89	-179.983	-78.22	-10,558.18	1,345.55	861.32	484.23	2.779	
19,800.00	9,233.00	20,086.28	9,461.00	248.12	247.18	-179.983	-78.19	-10,658.18	1,345.61	856.86	488.75	2.753	
19,900.00	9,233.00	20,186.28	9,461.00	250.41	249.46	-179.983	-78.16	-10,758.18	1,345.67	852.39	493.27	2.728	
19,971.26	9,233.00	20,257.54	9,461.00	252.04	251.09	-179.983	-78.14	-10,829.44	1,345.71	849.21	496.50	2.710	
20,000.00	9,233.00	20,286.28	9,461.00	252.70	251.75	-179.983	-78.13	-10,858.18	1,345.73	847.93	497.80	2.703	
20,011.26	9,233.00	20,297.54	9,461.00	252.96	252.01	-179.983	-78.13	-10,869.45	1,345.74	847.43	498.31	2.701	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +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	0.00	-4.038	1,459.00	-103.00	1,462.63				
100.00	100.00	101.00	101.00	0.13	0.13	-4.038	1,459.00	-103.00	1,462.63	1,462.37	0.26	5,627.838	
200.00	200.00	201.00	201.00	0.49	0.49	-4.038	1,459.00	-103.00	1,462.63	1,461.65	0.98	1,497.316	
300.00	300.00	301.00	301.00	0.85	0.85	-4.038	1,459.00	-103.00	1,462.63	1,460.94	1.69	863.532	
400.00	400.00	401.00	401.00	1.20	1.21	-4.038	1,459.00	-103.00	1,462.63	1,460.22	2.41	606.719	
500.00	500.00	501.00	501.00	1.56	1.57	-4.038	1,459.00	-103.00	1,462.63	1,459.50	3.13	467.643	
600.00	600.00	601.00	601.00	1.92	1.92	-4.038	1,459.00	-103.00	1,462.63	1,458.79	3.84	380.437	
700.00	700.00	701.00	701.00	2.28	2.28	-4.038	1,459.00	-103.00	1,462.63	1,458.07	4.56	320.643	
750.00	750.00	751.00	751.00	2.46	2.46	-4.038	1,459.00	-103.00	1,462.63	1,457.71	4.92	297.281	
800.00	800.00	801.00	801.00	2.64	2.64	-4.040	1,459.00	-103.00	1,462.42	1,457.14	5.28	277.052	
900.00	899.98	900.98	900.98	3.00	3.00	-4.053	1,459.00	-103.00	1,460.70	1,454.71	6.00	243.632	
1,000.00	999.92	1,000.92	1,000.92	3.36	3.36	-4.079	1,459.00	-103.00	1,457.28	1,450.57	6.71	217.088	
1,100.00	1,099.78	1,100.78	1,100.78	3.71	3.72	-4.119	1,459.00	-103.00	1,452.14	1,444.71	7.43	195.441	
1,200.00	1,199.54	1,200.54	1,200.54	4.07	4.07	-4.172	1,459.00	-103.00	1,445.30	1,437.15	8.15	177.399	
1,300.00	1,299.16	1,300.21	1,300.21	4.43	4.43	-4.240	1,459.00	-103.00	1,436.75	1,427.89	8.86	162.082	
1,400.00	1,398.61	1,432.47	1,432.46	4.80	4.88	-4.317	1,457.49	-102.77	1,425.35	1,415.68	9.67	147.418	
1,500.00	1,497.86	1,563.62	1,563.52	5.17	5.31	-4.400	1,453.01	-102.08	1,409.99	1,399.54	10.45	134.889	
1,600.00	1,596.89	1,693.33	1,693.02	5.55	5.74	-4.490	1,445.66	-100.95	1,390.71	1,379.48	11.23	123.813	
1,630.39	1,626.93	1,732.42	1,732.01	5.66	5.87	-4.519	1,442.88	-100.52	1,384.09	1,372.62	11.47	120.675	
1,700.00	1,695.72	1,821.44	1,820.72	5.93	6.17	-4.586	1,435.56	-99.39	1,367.98	1,355.98	12.00	113.954	
1,800.00	1,794.54	1,948.15	1,946.77	6.31	6.61	-4.677	1,422.81	-97.43	1,343.02	1,330.25	12.77	105.197	
1,900.00	1,893.36	2,073.38	2,071.03	6.70	7.06	-4.765	1,407.49	-95.07	1,315.95	1,302.43	13.52	97.332	
2,000.00	1,992.18	2,197.03	2,193.37	7.09	7.51	-4.850	1,389.74	-92.34	1,286.80	1,272.54	14.26	90.213	
2,100.00	2,091.01	2,308.60	2,303.42	7.48	7.92	-4.937	1,371.60	-89.55	1,255.78	1,240.80	14.98	83.833	
2,200.00	2,189.83	2,403.52	2,396.98	7.88	8.28	-5.037	1,355.78	-87.11	1,224.38	1,208.72	15.67	78.155	
2,300.00	2,288.65	2,498.44	2,490.53	8.27	8.64	-5.142	1,339.95	-84.68	1,192.99	1,176.64	16.36	72.942	
2,400.00	2,387.47	2,593.36	2,584.09	8.67	9.01	-5.253	1,324.12	-82.24	1,161.60	1,144.56	17.05	68.141	
2,500.00	2,486.29	2,688.28	2,677.65	9.07	9.38	-5.369	1,308.29	-79.80	1,130.22	1,112.48	17.74	63.707	
2,600.00	2,585.12	2,783.20	2,771.21	9.47	9.75	-5.493	1,292.47	-77.37	1,098.84	1,080.41	18.44	59.600	
2,700.00	2,683.94	2,878.12	2,864.77	9.87	10.13	-5.624	1,276.64	-74.93	1,067.47	1,048.33	19.13	55.787	
2,800.00	2,782.76	2,973.04	2,958.33	10.27	10.51	-5.762	1,260.81	-72.50	1,036.10	1,016.27	19.83	52.239	
2,900.00	2,881.58	3,067.96	3,051.89	10.67	10.89	-5.910	1,244.98	-70.06	1,004.74	984.21	20.53	48.929	
3,000.00	2,980.40	3,162.88	3,145.45	11.07	11.28	-6.066	1,229.15	-67.62	973.39	952.15	21.24	45.835	
3,100.00	3,079.22	3,257.80	3,239.01	11.48	11.66	-6.234	1,213.33	-65.19	942.04	920.10	21.94	42.936	
3,200.00	3,178.05	3,352.72	3,332.57	11.88	12.05	-6.412	1,197.50	-62.75	910.70	888.06	22.65	40.216	
3,300.00	3,276.87	3,447.64	3,426.13	12.28	12.43	-6.604	1,181.67	-60.31	879.37	856.02	23.35	37.659	
3,400.00	3,375.69	3,542.56	3,519.69	12.69	12.82	-6.809	1,165.84	-57.88	848.05	824.00	24.06	35.251	
3,500.00	3,474.51	3,637.48	3,613.25	13.09	13.21	-7.031	1,150.02	-55.44	816.75	791.98	24.77	32.979	
3,600.00	3,573.33	3,732.40	3,706.81	13.50	13.61	-7.270	1,134.19	-53.01	785.45	759.98	25.47	30.832	
3,700.00	3,672.16	3,827.32	3,800.37	13.90	14.00	-7.529	1,118.36	-50.57	754.17	727.99	26.18	28.802	
3,800.00	3,770.98	3,922.24	3,893.92	14.31	14.39	-7.810	1,102.53	-48.13	722.91	696.01	26.90	26.878	
3,900.00	3,869.80	4,017.16	3,987.48	14.71	14.79	-8.117	1,086.70	-45.70	691.66	664.06	27.61	25.053	
4,000.00	3,968.62	4,112.08	4,081.04	15.12	15.18	-8.453	1,070.88	-43.26	660.44	632.12	28.32	23.319	
4,100.00	4,067.44	4,207.00	4,174.60	15.53	15.58	-8.822	1,055.05	-40.82	629.24	600.20	29.04	21.671	
4,200.00	4,166.26	4,301.92	4,268.16	15.93	15.97	-9.229	1,039.22	-38.39	598.07	568.31	29.75	20.101	
4,300.00	4,265.09	4,396.84	4,361.72	16.34	16.37	-9.681	1,023.39	-35.95	566.93	536.46	30.47	18.606	
4,400.00	4,363.91	4,491.76	4,455.28	16.74	16.77	-10.186	1,007.57	-33.52	535.83	504.64	31.19	17.180	
4,500.00	4,462.73	4,586.68	4,548.84	17.15	17.17	-10.753	991.74	-31.08	504.77	472.86	31.91	15.818	
4,600.00	4,561.55	4,681.60	4,642.40	17.56	17.57	-11.395	975.91	-28.64	473.77	441.13	32.64	14.517	
4,700.00	4,660.37	4,776.52	4,735.96	17.97	17.96	-12.126	960.08	-26.21	442.83	409.47	33.36	13.273	
4,800.00	4,759.20	4,871.44	4,829.52	18.37	18.36	-12.966	944.25	-23.77	411.98	377.88	34.09	12.084	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,858.02	4,966.36	4,923.08	18.78	18.76	-13.943	928.43	-21.34	381.22	346.39	34.83	10.945	
5,000.00	4,956.84	5,061.28	5,016.64	19.19	19.16	-15.090	912.60	-18.90	350.59	315.02	35.57	9.855	
5,100.00	5,055.66	5,156.20	5,110.20	19.60	19.57	-16.456	896.77	-16.46	320.13	283.80	36.33	8.812	
5,200.00	5,154.48	5,251.12	5,203.76	20.00	19.97	-18.108	880.94	-14.03	289.88	252.78	37.10	7.814	
5,300.00	5,253.30	5,346.04	5,297.31	20.41	20.37	-20.142	865.12	-11.59	259.91	222.03	37.88	6.861	
5,400.00	5,352.13	5,440.96	5,390.87	20.82	20.77	-22.700	849.29	-9.15	230.35	191.65	38.70	5.952	
5,500.00	5,450.95	5,535.88	5,484.43	21.23	21.17	-26.002	833.46	-6.72	201.37	161.80	39.57	5.089	
5,600.00	5,549.77	5,630.80	5,577.99	21.63	21.57	-30.388	817.63	-4.28	173.26	132.74	40.52	4.276	
5,700.00	5,648.59	5,725.72	5,671.55	22.04	21.98	-36.410	801.80	-1.85	146.51	104.92	41.59	3.523	
5,800.00	5,747.41	5,820.64	5,765.11	22.45	22.38	-44.950	785.98	0.59	122.04	79.18	42.86	2.847	
5,900.00	5,846.24	5,915.56	5,858.67	22.86	22.78	-57.265	770.15	3.03	101.50	57.10	44.41	2.286	
6,000.00	5,945.06	6,010.48	5,952.23	23.27	23.18	-74.404	754.32	5.46	87.71	41.64	46.06	1.904	
6,054.08	5,998.50	6,061.81	6,002.83	23.49	23.40	-85.406	745.76	6.78	84.30	37.51	46.79	1.802	
6,086.62	6,030.66	6,092.70	6,033.27	23.62	23.53	-92.293	740.61	7.57	83.76	36.67	47.10	1.778	CC
6,100.00	6,043.88	6,105.39	6,045.79	23.68	23.59	-95.133	738.49	7.90	83.85	36.66	47.19	1.777	ES, SF
6,200.00	6,142.71	6,200.27	6,139.31	24.08	23.99	-115.378	722.67	10.33	90.06	42.68	47.38	1.901	
6,229.83	6,172.19	6,228.57	6,167.19	24.20	24.11	-120.786	717.96	11.06	93.62	46.31	47.31	1.979	
6,300.00	6,241.54	6,295.11	6,232.78	24.49	24.40	-131.857	706.86	12.77	104.79	57.66	47.13	2.223	
6,400.00	6,340.36	6,389.94	6,326.25	24.89	24.80	-143.659	691.05	15.20	125.92	78.87	47.05	2.676	
6,500.00	6,439.18	6,484.77	6,419.72	25.30	25.20	-151.871	675.23	17.64	150.81	103.57	47.23	3.193	
6,600.00	6,538.00	6,579.60	6,513.19	25.71	25.61	-157.693	659.42	20.07	177.89	130.28	47.61	3.736	
6,700.00	6,636.82	6,674.43	6,606.66	26.11	26.01	-161.955	643.61	22.50	206.30	158.19	48.11	4.288	
6,800.00	6,735.64	6,769.26	6,700.14	26.52	26.41	-165.177	627.80	24.94	235.57	186.88	48.68	4.839	
6,900.00	6,834.47	6,864.09	6,793.61	26.93	26.82	-167.684	611.98	27.37	265.40	216.10	49.30	5.383	
7,000.00	6,933.29	6,958.92	6,887.08	27.33	27.22	-169.683	596.17	29.80	295.63	245.68	49.95	5.918	
7,100.00	7,032.11	7,053.75	6,980.55	27.74	27.63	-171.310	580.36	32.24	326.15	275.53	50.62	6.443	
7,200.00	7,130.93	7,148.58	7,074.02	28.15	28.03	-172.659	564.54	34.67	356.88	305.58	51.30	6.957	
7,300.00	7,229.75	7,243.41	7,167.49	28.56	28.44	-173.794	548.73	37.11	387.77	335.78	51.99	7.459	
7,400.00	7,328.58	7,338.24	7,260.96	28.96	28.84	-174.761	532.92	39.54	418.79	366.10	52.68	7.949	
7,500.00	7,427.40	7,433.07	7,354.43	29.37	29.25	-175.594	517.11	41.97	449.90	396.52	53.38	8.428	
7,600.00	7,526.22	7,527.90	7,447.90	29.78	29.65	-176.320	501.29	44.41	481.10	427.02	54.09	8.895	
7,700.00	7,625.04	7,622.73	7,541.37	30.18	30.06	-176.958	485.48	46.84	512.37	457.57	54.80	9.351	
7,800.00	7,723.86	7,717.56	7,634.84	30.59	30.46	-177.522	469.67	49.28	543.69	488.18	55.51	9.795	
7,900.00	7,822.68	7,812.39	7,728.31	31.00	30.87	-178.024	453.86	51.71	575.06	518.84	56.22	10.229	
8,000.00	7,921.51	7,907.22	7,821.78	31.41	31.27	-178.475	438.04	54.14	606.46	549.53	56.93	10.653	
8,100.00	8,020.33	8,013.97	7,927.12	31.82	31.72	-178.902	420.91	56.78	637.33	579.51	57.82	11.022	
8,200.00	8,119.15	8,129.21	8,041.30	32.22	32.19	-179.262	405.53	59.15	665.60	606.80	58.79	11.321	
8,300.00	8,217.97	8,246.44	8,157.87	32.63	32.64	-179.547	393.38	61.02	690.99	631.26	59.73	11.569	
8,400.00	8,316.79	8,365.47	8,276.57	33.04	33.08	-179.767	384.67	62.36	713.42	652.80	60.63	11.767	
8,500.00	8,415.62	8,486.12	8,397.11	33.45	33.50	-179.929	379.58	63.14	732.84	671.35	61.49	11.919	
8,600.00	8,514.44	8,604.46	8,515.44	33.85	33.87	179.962	378.21	63.35	749.21	686.94	62.27	12.032	
8,700.00	8,613.26	8,703.28	8,614.26	34.26	34.16	179.872	378.21	63.35	764.47	701.51	62.95	12.143	
8,761.09	8,673.63	8,763.66	8,674.63	34.51	34.33	179.819	378.21	63.35	773.79	710.42	63.37	12.210	
8,800.00	8,712.04	8,802.06	8,713.04	34.67	34.44	179.689	378.21	63.35	779.73	716.09	63.64	12.253	
8,850.00	8,761.06	8,851.08	8,762.06	34.87	34.59	179.244	378.21	63.35	787.36	723.39	63.97	12.308	
8,900.00	8,809.36	8,899.38	8,810.36	35.06	34.73	178.498	378.21	63.35	795.03	730.73	64.30	12.365	
8,950.00	8,856.58	8,946.60	8,857.58	35.24	34.87	177.464	378.21	63.35	802.85	738.23	64.62	12.425	
9,000.00	8,902.35	8,992.38	8,903.35	35.41	35.00	176.160	378.21	63.35	810.97	746.04	64.93	12.491	
9,050.00	8,946.33	9,036.36	8,947.33	35.58	35.13	174.604	378.21	63.35	819.59	754.36	65.23	12.564	
9,100.00	8,988.19	9,078.21	8,989.19	35.73	35.25	172.820	378.21	63.35	828.94	763.41	65.53	12.650	
9,150.00	9,027.59	9,117.62	9,028.59	35.88	35.37	170.830	378.21	63.35	839.28	773.45	65.83	12.750	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	9,154.28	9,065.25	36.02	35.48	168.664	378.21	63.35	850.84	784.72	66.12	12.868	
9,250.00	9,097.89	9,198.31	9,109.28	36.15	35.61	166.399	378.21	62.61	863.75	797.30	66.45	12.999	
9,300.00	9,128.24	9,254.01	9,164.67	36.27	35.78	164.319	378.21	57.07	877.54	810.74	66.80	13.137	
9,350.00	9,155.08	9,317.23	9,226.56	36.40	35.96	162.580	378.22	44.30	891.94	824.84	67.10	13.293	
9,400.00	9,178.21	9,390.81	9,296.29	36.53	36.15	161.381	378.22	20.98	906.61	839.33	67.28	13.474	
9,450.00	9,197.44	9,478.78	9,374.89	36.67	36.36	161.038	378.23	-18.34	921.09	853.82	67.27	13.692	
9,500.00	9,212.64	9,586.50	9,461.51	36.83	36.57	162.062	378.25	-82.10	934.62	867.65	66.96	13.957	
9,550.00	9,223.67	9,688.78	9,531.07	37.02	36.72	163.683	378.27	-156.87	946.11	879.48	66.63	14.199	
9,600.00	9,230.48	9,881.28	9,622.50	37.23	36.90	171.229	378.32	-325.17	954.11	888.11	66.00	14.456	
9,654.13	9,233.00	10,064.66	9,652.93	37.50	37.17	179.552	378.37	-505.20	957.09	890.37	66.72	14.345	
9,700.00	9,233.00	10,117.50	9,653.00	37.77	37.35	-179.984	378.39	-558.04	957.12	889.76	67.36	14.208	
9,800.00	9,233.00	10,217.50	9,653.00	38.46	37.90	-179.984	378.41	-658.04	957.18	888.35	68.83	13.906	
9,900.00	9,233.00	10,317.50	9,653.00	39.30	38.68	-179.984	378.44	-758.04	957.23	886.71	70.52	13.574	
10,000.00	9,233.00	10,417.50	9,653.00	40.29	39.64	-179.984	378.47	-858.04	957.29	884.87	72.42	13.219	
10,100.00	9,233.00	10,517.50	9,653.00	41.39	40.73	-179.984	378.50	-958.04	957.35	882.84	74.51	12.849	
10,200.00	9,233.00	10,617.50	9,653.00	42.60	41.93	-179.984	378.53	-1,058.04	957.40	880.63	76.77	12.471	
10,300.00	9,233.00	10,717.50	9,653.00	43.90	43.23	-179.984	378.56	-1,158.04	957.46	878.26	79.19	12.090	
10,400.00	9,233.00	10,817.50	9,653.00	45.30	44.61	-179.984	378.58	-1,258.04	957.52	875.75	81.77	11.710	
10,500.00	9,233.00	10,917.50	9,653.00	46.76	46.07	-179.984	378.61	-1,358.04	957.57	873.10	84.47	11.336	
10,600.00	9,233.00	11,017.50	9,653.00	48.30	47.60	-179.984	378.64	-1,458.04	957.63	870.33	87.29	10.970	
10,700.00	9,233.00	11,117.50	9,653.00	49.89	49.18	-179.984	378.67	-1,558.04	957.68	867.46	90.23	10.614	
10,800.00	9,233.00	11,217.50	9,653.00	51.55	50.83	-179.984	378.70	-1,658.04	957.74	864.48	93.26	10.269	
10,900.00	9,233.00	11,317.50	9,653.00	53.25	52.52	-179.984	378.73	-1,758.04	957.80	861.41	96.38	9.937	
11,000.00	9,233.00	11,417.50	9,653.00	55.00	54.26	-179.984	378.76	-1,858.04	957.85	858.27	99.59	9.618	
11,100.00	9,233.00	11,517.50	9,653.00	56.79	56.05	-179.984	378.78	-1,958.04	957.91	855.05	102.86	9.312	
11,200.00	9,233.00	11,617.50	9,653.00	58.61	57.87	-179.984	378.81	-2,058.04	957.97	851.76	106.21	9.020	
11,300.00	9,233.00	11,717.50	9,653.00	60.47	59.72	-179.984	378.84	-2,158.04	958.02	848.41	109.61	8.740	
11,400.00	9,233.00	11,817.50	9,653.00	62.36	61.60	-179.984	378.87	-2,258.04	958.08	845.01	113.07	8.473	
11,500.00	9,233.00	11,917.50	9,653.00	64.28	63.52	-179.984	378.90	-2,358.04	958.14	841.55	116.58	8.219	
11,600.00	9,233.00	12,017.50	9,653.00	66.22	65.45	-179.984	378.93	-2,458.04	958.19	838.06	120.14	7.976	
11,700.00	9,233.00	12,117.50	9,653.00	68.19	67.42	-179.984	378.95	-2,558.04	958.25	834.51	123.73	7.744	
11,800.00	9,233.00	12,217.50	9,653.00	70.17	69.40	-179.984	378.98	-2,658.04	958.31	830.94	127.37	7.524	
11,900.00	9,233.00	12,317.50	9,653.00	72.18	71.40	-179.984	379.01	-2,758.04	958.36	827.32	131.04	7.313	
12,000.00	9,233.00	12,417.50	9,653.00	74.20	73.42	-179.984	379.04	-2,858.04	958.42	823.67	134.74	7.113	
12,100.00	9,233.00	12,517.50	9,653.00	76.25	75.46	-179.984	379.07	-2,958.04	958.48	820.00	138.48	6.922	
12,200.00	9,233.00	12,617.50	9,653.00	78.30	77.51	-179.984	379.10	-3,058.04	958.53	816.29	142.24	6.739	
12,300.00	9,233.00	12,717.50	9,653.00	80.37	79.58	-179.984	379.12	-3,158.04	958.59	812.57	146.02	6.565	
12,400.00	9,233.00	12,817.50	9,653.00	82.45	81.66	-179.984	379.15	-3,258.04	958.65	808.81	149.83	6.398	
12,500.00	9,233.00	12,917.50	9,653.00	84.55	83.75	-179.984	379.18	-3,358.04	958.70	805.04	153.66	6.239	
12,600.00	9,233.00	13,017.50	9,653.00	86.66	85.86	-179.984	379.21	-3,458.04	958.76	801.25	157.51	6.087	
12,700.00	9,233.00	13,117.50	9,653.00	88.77	87.97	-179.984	379.24	-3,558.04	958.81	797.43	161.38	5.941	
12,800.00	9,233.00	13,217.50	9,653.00	90.90	90.10	-179.984	379.27	-3,658.04	958.87	793.60	165.27	5.802	
12,900.00	9,233.00	13,317.50	9,653.00	93.03	92.23	-179.984	379.29	-3,758.04	958.93	789.76	169.17	5.668	
13,000.00	9,233.00	13,417.50	9,653.00	95.18	94.37	-179.984	379.32	-3,858.04	958.98	785.90	173.09	5.540	
13,100.00	9,233.00	13,517.50	9,653.00	97.33	96.52	-179.984	379.35	-3,958.04	959.04	782.02	177.02	5.418	
13,200.00	9,233.00	13,617.50	9,653.00	99.48	98.67	-179.984	379.38	-4,058.04	959.10	778.13	180.96	5.300	
13,300.00	9,233.00	13,717.50	9,653.00	101.65	100.84	-179.984	379.41	-4,158.04	959.15	774.23	184.92	5.187	
13,400.00	9,233.00	13,817.50	9,653.00	103.82	103.01	-179.984	379.44	-4,258.04	959.21	770.32	188.89	5.078	
13,500.00	9,233.00	13,917.50	9,653.00	106.00	105.18	-179.984	379.46	-4,358.04	959.27	766.40	192.87	4.974	
13,600.00	9,233.00	14,017.50	9,653.00	108.18	107.36	-179.984	379.49	-4,458.04	959.32	762.46	196.86	4.873	
13,700.00	9,233.00	14,117.50	9,653.00	110.37	109.55	-179.984	379.52	-4,558.04	959.38	758.52	200.86	4.776	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #0

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	14,217.50	9,653.00	112.56	111.74	-179.984	379.55	-4,658.04	959.44	754.57	204.87	4.683	
13,900.00	9,233.00	14,317.50	9,653.00	114.76	113.94	-179.984	379.58	-4,758.04	959.49	750.61	208.88	4.593	
14,000.00	9,233.00	14,417.50	9,653.00	116.96	116.14	-179.984	379.61	-4,858.04	959.55	746.64	212.91	4.507	
14,100.00	9,233.00	14,517.50	9,653.00	119.17	118.34	-179.984	379.63	-4,958.04	959.61	742.67	216.94	4.423	
14,200.00	9,233.00	14,617.50	9,653.00	121.38	120.55	-179.984	379.66	-5,058.04	959.66	738.68	220.98	4.343	
14,300.00	9,233.00	14,717.50	9,653.00	123.59	122.77	-179.984	379.69	-5,158.04	959.72	734.69	225.03	4.265	
14,400.00	9,233.00	14,817.50	9,653.00	125.81	124.98	-179.984	379.72	-5,258.04	959.78	730.70	229.08	4.190	
14,500.00	9,233.00	14,917.50	9,653.00	128.03	127.20	-179.984	379.75	-5,358.04	959.83	726.70	233.14	4.117	
14,600.00	9,233.00	15,017.50	9,653.00	130.25	129.42	-179.984	379.78	-5,458.04	959.89	722.69	237.20	4.047	
14,700.00	9,233.00	15,117.50	9,653.00	132.48	131.65	-179.984	379.80	-5,558.04	959.95	718.67	241.27	3.979	
14,800.00	9,233.00	15,217.50	9,653.00	134.71	133.88	-179.984	379.83	-5,658.04	960.00	714.65	245.35	3.913	
14,900.00	9,233.00	15,317.50	9,653.00	136.94	136.11	-179.984	379.86	-5,758.04	960.06	710.63	249.43	3.849	
15,000.00	9,233.00	15,417.50	9,653.00	139.18	138.34	-179.984	379.89	-5,858.04	960.11	706.60	253.51	3.787	
15,100.00	9,233.00	15,517.50	9,653.00	141.41	140.58	-179.984	379.92	-5,958.04	960.17	702.57	257.60	3.727	
15,200.00	9,233.00	15,617.50	9,653.00	143.65	142.82	-179.984	379.95	-6,058.04	960.23	698.53	261.70	3.669	
15,300.00	9,233.00	15,717.50	9,653.00	145.90	145.06	-179.984	379.97	-6,158.04	960.28	694.49	265.79	3.613	
15,400.00	9,233.00	15,817.50	9,653.00	148.14	147.31	-179.984	380.00	-6,258.04	960.34	690.44	269.90	3.558	
15,500.00	9,233.00	15,917.50	9,653.00	150.39	149.55	-179.984	380.03	-6,358.04	960.40	686.39	274.00	3.505	
15,600.00	9,233.00	16,017.50	9,653.00	152.63	151.80	-179.984	380.06	-6,458.04	960.45	682.34	278.11	3.453	
15,700.00	9,233.00	16,117.50	9,653.00	154.88	154.05	-179.984	380.09	-6,558.04	960.51	678.28	282.23	3.403	
15,800.00	9,233.00	16,217.50	9,653.00	157.14	156.30	-179.984	380.12	-6,658.04	960.57	674.23	286.34	3.355	
15,900.00	9,233.00	16,317.50	9,653.00	159.39	158.55	-179.984	380.14	-6,758.04	960.62	670.16	290.46	3.307	
16,000.00	9,233.00	16,417.50	9,653.00	161.65	160.81	-179.984	380.17	-6,858.04	960.68	666.10	294.58	3.261	
16,100.00	9,233.00	16,517.50	9,653.00	163.90	163.06	-179.984	380.20	-6,958.04	960.74	662.03	298.71	3.216	
16,200.00	9,233.00	16,617.50	9,653.00	166.16	165.32	-179.984	380.23	-7,058.04	960.79	657.96	302.84	3.173	
16,300.00	9,233.00	16,717.50	9,653.00	168.42	167.58	-179.984	380.26	-7,158.04	960.85	653.88	306.97	3.130	
16,400.00	9,233.00	16,817.50	9,653.00	170.68	169.84	-179.984	380.29	-7,258.04	960.91	649.80	311.10	3.089	
16,500.00	9,233.00	16,917.50	9,653.00	172.95	172.10	-179.984	380.31	-7,358.04	960.96	645.72	315.24	3.048	
16,600.00	9,233.00	17,017.50	9,653.00	175.21	174.36	-179.984	380.34	-7,458.04	961.02	641.64	319.38	3.009	
16,700.00	9,233.00	17,117.50	9,653.00	177.47	176.63	-179.984	380.37	-7,558.04	961.08	637.56	323.52	2.971	
16,800.00	9,233.00	17,217.50	9,653.00	179.74	178.90	-179.984	380.40	-7,658.04	961.13	633.47	327.66	2.933	
16,900.00	9,233.00	17,317.50	9,653.00	182.01	181.16	-179.984	380.43	-7,758.04	961.19	629.38	331.81	2.897	
17,000.00	9,233.00	17,417.50	9,653.00	184.28	183.43	-179.984	380.46	-7,858.04	961.25	625.29	335.95	2.861	
17,100.00	9,233.00	17,517.50	9,653.00	186.55	185.70	-179.984	380.48	-7,958.04	961.30	621.20	340.10	2.827	
17,200.00	9,233.00	17,617.50	9,653.00	188.82	187.97	-179.984	380.51	-8,058.04	961.36	617.10	344.25	2.793	
17,300.00	9,233.00	17,717.50	9,653.00	191.09	190.24	-179.984	380.54	-8,158.04	961.41	613.01	348.41	2.759	
17,400.00	9,233.00	17,817.50	9,653.00	193.36	192.51	-179.984	380.57	-8,258.04	961.47	608.91	352.56	2.727	
17,500.00	9,233.00	17,917.50	9,653.00	195.64	194.78	-179.984	380.60	-8,358.04	961.53	604.81	356.72	2.695	
17,600.00	9,233.00	18,017.50	9,653.00	197.91	197.06	-179.984	380.63	-8,458.04	961.58	600.71	360.88	2.665	
17,700.00	9,233.00	18,117.50	9,653.00	200.19	199.33	-179.984	380.66	-8,558.03	961.64	596.60	365.04	2.634	
17,800.00	9,233.00	18,217.50	9,653.00	202.46	201.61	-179.984	380.68	-8,658.03	961.70	592.50	369.20	2.605	
17,900.00	9,233.00	18,317.50	9,653.00	204.74	203.88	-179.984	380.71	-8,758.03	961.75	588.39	373.36	2.576	
18,000.00	9,233.00	18,417.50	9,653.00	207.02	206.16	-179.984	380.74	-8,858.03	961.81	584.28	377.53	2.548	
18,100.00	9,233.00	18,517.50	9,653.00	209.29	208.44	-179.984	380.77	-8,958.03	961.87	580.17	381.69	2.520	
18,200.00	9,233.00	18,617.50	9,653.00	211.57	210.72	-179.984	380.80	-9,058.03	961.92	576.06	385.86	2.493	
18,300.00	9,233.00	18,717.50	9,653.00	213.85	213.00	-179.984	380.83	-9,158.03	961.98	571.95	390.03	2.466	
18,400.00	9,233.00	18,817.50	9,653.00	216.13	215.28	-179.984	380.85	-9,258.03	962.04	567.84	394.20	2.440	
18,500.00	9,233.00	18,917.50	9,653.00	218.42	217.56	-179.984	380.88	-9,358.03	962.09	563.72	398.37	2.415	
18,600.00	9,233.00	19,017.50	9,653.00	220.70	219.84	-179.984	380.91	-9,458.03	962.15	559.61	402.54	2.390	
18,700.00	9,233.00	19,117.50	9,653.00	222.98	222.12	-179.984	380.94	-9,558.03	962.21	555.49	406.72	2.366	
18,800.00	9,233.00	19,217.50	9,653.00	225.26	224.40	-179.984	380.97	-9,658.03	962.26	551.37	410.89	2.342	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (205H, 206H, 222H) - Ted Paup 3231 Fed Com 222H - Wellbore #1 - Design #0 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.00	9,233.00	19,317.50	9,653.00	227.55	226.69	-179.984	381.00	-9,758.03	962.32	547.25	415.07	2.318	
19,000.00	9,233.00	19,417.49	9,653.00	229.83	228.97	-179.984	381.02	-9,858.03	962.38	543.13	419.25	2.295	
19,100.00	9,233.00	19,517.49	9,653.00	232.12	231.25	-179.984	381.05	-9,958.03	962.43	539.01	423.42	2.273	
19,200.00	9,233.00	19,617.49	9,653.00	234.40	233.54	-179.984	381.08	-10,058.03	962.49	534.89	427.60	2.251	
19,300.00	9,233.00	19,717.49	9,653.00	236.69	235.82	-179.984	381.11	-10,158.03	962.55	530.76	431.78	2.229	
19,400.00	9,233.00	19,817.49	9,653.00	238.97	238.11	-179.984	381.14	-10,258.03	962.60	526.64	435.97	2.208	
19,500.00	9,233.00	19,917.49	9,653.00	241.26	240.40	-179.984	381.17	-10,358.03	962.66	522.51	440.15	2.187	
19,600.00	9,233.00	20,017.49	9,653.00	243.55	242.68	-179.984	381.19	-10,458.03	962.72	518.38	444.33	2.167	
19,700.00	9,233.00	20,117.49	9,653.00	245.84	244.97	-179.984	381.22	-10,558.03	962.77	514.26	448.52	2.147	
19,800.00	9,233.00	20,217.49	9,653.00	248.12	247.26	-179.984	381.25	-10,658.03	962.83	510.13	452.70	2.127	
19,900.00	9,233.00	20,317.49	9,653.00	250.41	249.55	-179.984	381.28	-10,758.03	962.89	506.00	456.89	2.107	
19,971.26	9,233.00	20,388.76	9,653.00	252.04	251.18	-179.984	381.30	-10,829.30	962.93	503.05	459.87	2.094	
20,000.00	9,233.00	20,417.49	9,653.00	252.70	251.83	-179.984	381.31	-10,858.03	962.94	501.87	461.07	2.088	
20,011.26	9,233.00	20,428.76	9,653.00	252.96	252.09	-179.984	381.31	-10,869.30	962.95	501.40	461.55	2.086	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Chamois AKE Fed Com #1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 198-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	88.006	94.08	2,702.94	2,704.75				
100.00	100.00	69.50	69.50	0.13	0.68	88.006	94.08	2,702.94	2,704.57	2,703.76	0.81	3,327.300	
200.00	200.00	169.50	169.50	0.49	1.67	88.006	94.08	2,702.94	2,704.57	2,702.42	2.16	1,254.329	
300.00	300.00	269.51	269.50	0.85	3.47	88.006	94.08	2,702.94	2,704.57	2,700.26	4.31	626.925	
400.00	400.00	369.70	369.69	1.20	5.60	87.998	94.47	2,702.94	2,704.59	2,697.79	6.80	397.707	
500.00	500.00	469.55	469.50	1.56	7.75	88.006	94.08	2,702.94	2,704.57	2,695.26	9.31	290.466	
600.00	600.00	569.55	569.50	1.92	10.24	88.006	94.08	2,702.94	2,704.57	2,692.41	12.16	222.358	
700.00	700.00	669.91	669.85	2.28	12.75	87.990	94.84	2,702.94	2,704.60	2,689.58	15.02	180.018	
750.00	750.00	720.26	720.19	2.46	14.00	87.996	94.57	2,702.94	2,704.59	2,688.13	16.46	164.325	
800.00	800.00	770.61	770.54	2.64	15.26	88.010	94.12	2,702.94	2,704.54	2,686.65	17.89	151.147	
900.00	899.98	869.64	869.48	3.00	17.94	88.048	94.08	2,702.94	2,704.27	2,683.33	20.94	129.166	
1,000.00	999.92	970.74	970.56	3.36	20.69	88.115	94.36	2,702.94	2,703.74	2,679.69	24.04	112.452	
1,100.00	1,099.78	1,069.54	1,069.28	3.71	23.14	88.230	94.08	2,702.94	2,702.92	2,676.07	26.85	100.659	
1,200.00	1,199.54	1,169.64	1,169.36	4.07	25.56	88.356	95.07	2,702.94	2,701.90	2,672.27	29.63	91.178	
1,300.00	1,299.16	1,270.05	1,269.75	4.43	27.99	88.559	94.10	2,702.94	2,700.58	2,668.15	32.42	83.289	
1,400.00	1,398.61	1,368.62	1,368.28	4.80	30.07	88.773	94.36	2,702.94	2,699.07	2,664.20	34.87	77.401	
1,500.00	1,497.86	1,467.72	1,467.36	5.17	32.38	89.035	94.08	2,702.94	2,697.35	2,659.80	37.54	71.843	
1,600.00	1,596.89	1,566.75	1,566.39	5.55	34.87	89.328	94.08	2,702.94	2,695.45	2,655.04	40.42	66.690	
1,630.39	1,626.93	1,596.79	1,596.43	5.66	35.63	89.424	94.08	2,702.94	2,694.85	2,653.56	41.29	65.265	
1,700.00	1,695.72	1,665.59	1,665.22	5.93	37.37	89.626	95.14	2,702.94	2,693.47	2,650.18	43.29	62.217	
1,800.00	1,794.54	1,764.43	1,764.05	6.31	39.86	89.954	94.93	2,702.94	2,691.55	2,645.38	46.17	58.297	
1,900.00	1,893.36	1,863.17	1,862.79	6.70	42.35	90.289	94.38	2,702.94	2,689.72	2,640.67	49.05	54.839	
2,000.00	1,992.18	1,962.22	1,961.68	7.09	45.39	90.620	94.08	2,702.94	2,687.97	2,635.50	52.48	51.220	
2,100.00	2,091.01	2,061.04	2,060.51	7.48	48.75	90.944	94.08	2,702.94	2,686.32	2,630.09	56.23	47.777	
2,200.00	2,189.83	2,159.57	2,158.99	7.88	52.09	91.237	95.59	2,702.94	2,684.71	2,624.75	59.97	44.770	
2,300.00	2,288.65	2,257.75	2,257.15	8.27	55.42	91.583	94.59	2,702.94	2,683.25	2,619.55	63.70	42.126	
2,400.00	2,387.47	2,357.76	2,356.83	8.67	58.92	91.902	94.92	2,702.94	2,681.83	2,614.24	67.59	39.679	
2,500.00	2,486.29	2,456.84	2,455.79	9.07	62.26	92.245	94.08	2,702.94	2,680.55	2,609.22	71.33	37.581	
2,600.00	2,585.12	2,555.45	2,554.38	9.47	65.32	92.546	95.30	2,702.94	2,679.27	2,604.49	74.78	35.828	
2,700.00	2,683.94	2,652.31	2,651.21	9.87	68.32	92.892	94.39	2,702.94	2,678.17	2,599.99	78.18	34.255	
2,800.00	2,782.76	2,753.48	2,752.26	10.27	71.06	93.225	94.08	2,702.94	2,677.13	2,595.80	81.33	32.917	
2,900.00	2,881.58	2,852.30	2,851.08	10.67	73.67	93.552	94.08	2,702.94	2,676.17	2,591.83	84.34	31.731	
3,000.00	2,980.40	2,950.21	2,948.94	11.07	76.25	93.843	95.79	2,702.94	2,675.18	2,587.85	87.32	30.635	
3,100.00	3,079.22	3,047.50	3,046.22	11.48	78.82	94.189	94.88	2,702.94	2,674.45	2,584.15	90.29	29.619	
3,200.00	3,178.05	3,148.94	3,147.55	11.88	81.44	94.534	94.08	2,702.94	2,673.80	2,580.48	93.32	28.652	
3,300.00	3,276.87	3,247.76	3,246.37	12.28	83.93	94.862	94.08	2,702.94	2,673.19	2,576.97	96.22	27.783	
3,400.00	3,375.69	3,346.58	3,345.19	12.69	86.43	95.190	94.08	2,702.94	2,672.66	2,573.54	99.11	26.965	
3,500.00	3,474.51	3,444.37	3,442.95	13.09	88.90	95.493	95.24	2,702.94	2,672.11	2,570.12	101.99	26.200	
3,600.00	3,573.33	3,542.01	3,540.58	13.50	91.36	95.834	94.63	2,702.94	2,671.81	2,566.96	104.86	25.481	
3,700.00	3,672.16	3,643.22	3,641.66	13.90	93.92	96.174	94.08	2,702.94	2,671.60	2,563.79	107.82	24.779	
3,800.00	3,770.98	3,742.04	3,740.48	14.31	96.41	96.502	94.08	2,702.94	2,671.43	2,560.71	110.72	24.128	
3,900.00	3,869.80	3,840.87	3,839.30	14.71	98.90	96.830	94.08	2,702.94	2,671.34	2,557.72	113.62	23.512	
3,939.02	3,908.36	3,878.85	3,877.25	14.87	99.86	96.918	95.96	2,702.94	2,671.10	2,556.36	114.73	23.281	CC
4,000.00	3,968.62	3,937.93	3,936.32	15.12	101.35	97.123	95.75	2,702.94	2,671.13	2,554.66	116.47	22.933	
4,100.00	4,067.44	4,034.69	4,033.07	15.53	103.80	97.469	94.94	2,702.94	2,671.31	2,551.99	119.32	22.387	
4,200.00	4,166.26	4,137.50	4,135.76	15.93	106.26	97.815	94.08	2,702.94	2,671.60	2,549.40	122.19	21.864	
4,300.00	4,265.09	4,236.33	4,234.59	16.34	108.42	98.143	94.08	2,702.94	2,671.86	2,547.10	124.76	21.416	
4,400.00	4,363.91	4,335.14	4,333.38	16.74	110.58	98.444	95.37	2,702.94	2,672.02	2,544.69	127.33	20.986	
4,500.00	4,462.73	4,432.15	4,430.39	17.15	112.70	98.777	95.14	2,702.94	2,672.48	2,542.63	129.85	20.581	
4,600.00	4,561.55	4,529.04	4,527.27	17.56	114.82	99.119	94.49	2,702.94	2,673.11	2,540.73	132.38	20.193	
4,700.00	4,660.37	4,631.70	4,629.87	17.97	117.00	99.455	94.08	2,702.94	2,673.78	2,538.82	134.96	19.811	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Chamois AKE Fed Com #1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 198-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,759.20	4,730.53	4,728.70	18.37	119.06	99.783	94.08	2,702.94	2,674.48	2,537.05	137.43	19.461	
4,900.00	4,858.02	4,829.20	4,827.36	18.78	121.11	100.087	95.17	2,702.94	2,675.07	2,535.19	139.89	19.123	
5,000.00	4,956.84	4,926.39	4,924.54	19.19	123.13	100.418	94.97	2,702.94	2,675.98	2,533.66	142.31	18.803	
5,100.00	5,055.66	5,023.49	5,021.64	19.60	125.15	100.757	94.45	2,702.94	2,677.03	2,532.29	144.74	18.495	
5,200.00	5,154.48	5,125.89	5,123.98	20.00	127.23	101.091	94.08	2,702.94	2,678.15	2,530.93	147.22	18.191	
5,300.00	5,253.30	5,224.71	5,222.80	20.41	129.18	101.417	94.08	2,702.94	2,679.28	2,529.70	149.58	17.912	
5,400.00	5,352.13	5,323.16	5,321.24	20.82	131.13	101.722	95.10	2,702.94	2,680.30	2,528.36	151.94	17.641	
5,500.00	5,450.95	5,419.97	5,418.05	21.23	133.05	102.053	94.86	2,702.94	2,681.65	2,527.39	154.26	17.384	
5,600.00	5,549.77	5,516.68	5,514.75	21.63	134.96	102.391	94.27	2,702.94	2,683.18	2,526.59	156.58	17.136	
5,700.00	5,648.59	5,620.05	5,618.09	22.04	136.93	102.720	94.08	2,702.94	2,684.69	2,525.74	158.95	16.890	
5,800.00	5,747.41	5,718.87	5,716.91	22.45	138.78	103.045	94.08	2,702.94	2,686.26	2,525.04	161.22	16.662	
5,900.00	5,846.24	5,817.09	5,815.13	22.86	140.63	103.353	94.86	2,702.94	2,687.74	2,524.27	163.47	16.441	
6,000.00	5,945.06	5,914.24	5,912.27	23.27	142.46	103.682	94.63	2,702.94	2,689.53	2,523.82	165.71	16.231	
6,054.08	5,998.50	5,966.75	5,964.77	23.49	143.45	103.862	94.41	2,702.94	2,690.56	2,523.65	166.91	16.120 ES	
6,100.00	6,043.88	6,011.31	6,009.34	23.68	144.29	104.015	94.16	2,702.94	2,691.65	2,523.71	167.94	16.028	
6,200.00	6,142.71	6,114.22	6,112.21	24.08	146.33	104.331	94.08	2,702.94	2,695.21	2,524.83	170.38	15.819	
6,229.83	6,172.19	6,143.70	6,141.69	24.20	146.92	104.424	94.08	2,702.94	2,696.61	2,525.52	171.09	15.761	
6,300.00	6,241.54	6,213.04	6,211.04	24.49	148.30	104.639	94.08	2,702.94	2,700.11	2,527.35	172.76	15.629	
6,400.00	6,340.36	6,311.31	6,309.30	24.89	150.26	104.928	94.91	2,702.94	2,704.96	2,529.83	175.12	15.446	
6,500.00	6,439.18	6,408.37	6,406.35	25.30	152.20	105.238	94.71	2,702.94	2,710.14	2,532.68	177.46	15.272	
6,600.00	6,538.00	6,505.36	6,503.34	25.71	154.14	105.550	94.28	2,702.94	2,715.47	2,535.67	179.80	15.103	
6,700.00	6,636.82	6,608.39	6,606.32	26.11	156.20	105.857	94.08	2,702.94	2,720.80	2,538.54	182.26	14.928	
6,800.00	6,735.64	6,707.21	6,705.14	26.52	158.18	106.159	94.08	2,702.94	2,726.16	2,541.53	184.64	14.765	
6,900.00	6,834.47	6,805.50	6,803.43	26.93	160.15	106.437	95.16	2,702.94	2,731.30	2,544.29	187.01	14.605	
7,000.00	6,933.29	6,901.68	6,899.60	27.33	162.07	106.741	94.93	2,702.94	2,736.87	2,547.54	189.33	14.455	
7,100.00	7,032.11	6,997.75	6,995.67	27.74	164.00	107.050	94.38	2,702.94	2,742.62	2,550.96	191.65	14.310	
7,200.00	7,130.93	7,102.55	7,100.43	28.15	165.96	107.353	94.08	2,702.94	2,748.36	2,554.34	194.02	14.166	
7,300.00	7,229.75	7,200.97	7,198.85	28.56	167.73	107.639	94.58	2,702.94	2,753.94	2,557.75	196.19	14.037	
7,400.00	7,328.58	7,296.36	7,294.23	28.96	169.45	107.938	94.35	2,702.94	2,759.82	2,561.52	198.31	13.917	
7,500.00	7,427.40	7,399.04	7,396.90	29.37	171.31	108.236	94.08	2,702.94	2,765.78	2,565.22	200.56	13.790	
7,600.00	7,526.22	7,497.86	7,495.72	29.78	173.10	108.528	94.08	2,702.94	2,771.73	2,568.99	202.75	13.671	
7,700.00	7,625.04	7,596.44	7,594.29	30.18	174.88	108.808	94.60	2,702.94	2,777.59	2,572.66	204.93	13.554	
7,800.00	7,723.86	7,693.63	7,691.49	30.59	176.64	109.100	94.48	2,702.94	2,783.72	2,576.63	207.09	13.442	
7,900.00	7,822.68	7,790.78	7,788.63	31.00	178.40	109.393	94.20	2,702.94	2,789.98	2,580.74	209.24	13.334	
8,000.00	7,921.51	7,893.18	7,891.01	31.41	180.19	109.682	94.08	2,702.94	2,796.25	2,584.82	211.43	13.226	
8,100.00	8,020.33	7,992.00	7,989.83	31.82	181.89	109.968	94.08	2,702.94	2,802.56	2,589.03	213.52	13.125	
8,200.00	8,119.15	8,090.24	8,088.06	32.22	183.58	110.236	94.89	2,702.94	2,808.65	2,593.04	215.61	13.026	
8,300.00	8,217.97	8,186.56	8,184.38	32.63	185.24	110.523	94.71	2,702.94	2,815.16	2,597.49	217.66	12.933	
8,400.00	8,316.79	8,282.81	8,280.62	33.04	186.89	110.812	94.28	2,702.94	2,821.82	2,602.10	219.72	12.843	
8,500.00	8,415.62	8,387.31	8,385.12	33.45	188.70	111.096	94.08	2,702.94	2,828.46	2,606.54	221.92	12.745	
8,600.00	8,514.44	8,486.13	8,483.94	33.85	190.41	111.375	94.08	2,702.94	2,835.11	2,611.08	224.03	12.655	
8,700.00	8,613.26	8,584.77	8,582.58	34.26	192.12	111.648	94.35	2,702.94	2,841.72	2,615.59	226.13	12.567	
8,761.09	8,673.63	8,644.59	8,642.40	34.51	193.16	111.817	94.33	2,702.94	2,845.87	2,618.46	227.41	12.514	
8,800.00	8,712.04	8,682.64	8,680.45	34.67	193.82	111.915	94.29	2,702.94	2,849.75	2,621.53	228.22	12.487	
8,850.00	8,761.06	8,731.20	8,729.01	34.87	194.66	112.011	94.23	2,702.94	2,858.31	2,629.07	229.24	12.468 SF	
8,900.00	8,809.36	8,779.04	8,776.85	35.06	195.49	112.073	94.15	2,702.94	2,870.84	2,640.60	230.25	12.469	
8,950.00	8,856.58	8,828.29	8,826.08	35.24	196.37	112.099	94.08	2,702.94	2,887.22	2,655.93	231.29	12.483	
9,000.00	8,902.35	8,874.06	8,871.85	35.41	197.25	112.089	94.08	2,702.94	2,907.29	2,674.97	232.32	12.514	
9,050.00	8,946.33	8,918.04	8,915.83	35.58	198.10	112.045	94.08	2,702.94	2,930.94	2,697.63	233.30	12.563	
9,100.00	8,988.19	8,959.90	8,957.69	35.73	198.91	111.968	94.08	2,702.94	2,957.98	2,723.75	234.23	12.628	
9,150.00	9,027.59	8,999.30	8,997.09	35.88	199.67	111.861	94.08	2,702.94	2,988.22	2,753.12	235.09	12.711	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Chamois AKE Fed Com #1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 198-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,064.25	9,035.96	9,033.75	36.02	200.38	111.725	94.08	2,702.94	3,021.43	2,785.55	235.89	12.809	
9,250.00	9,097.89	9,069.00	9,066.79	36.15	201.02	111.548	94.85	2,702.94	3,057.10	2,820.51	236.59	12.921	
9,300.00	9,128.24	9,098.43	9,096.22	36.27	201.59	111.362	94.82	2,702.94	3,095.54	2,858.33	237.21	13.050	
9,350.00	9,155.08	9,124.45	9,122.24	36.40	202.09	111.155	94.77	2,702.94	3,136.18	2,898.42	237.75	13.191	
9,400.00	9,178.21	9,146.86	9,144.65	36.53	202.52	110.929	94.72	2,702.94	3,178.71	2,940.51	238.20	13.345	
9,450.00	9,197.44	9,165.50	9,163.28	36.67	202.88	110.688	94.66	2,702.94	3,222.84	2,984.27	238.57	13.509	
9,500.00	9,212.64	9,180.22	9,178.00	36.83	203.17	110.433	94.61	2,702.94	3,268.22	3,029.38	238.84	13.683	
9,550.00	9,223.67	9,190.91	9,188.70	37.02	203.38	110.168	94.57	2,702.94	3,314.54	3,075.50	239.03	13.866	
9,600.00	9,230.48	9,197.50	9,195.28	37.23	203.50	109.895	94.55	2,702.94	3,361.43	3,122.30	239.13	14.057	
9,654.13	9,233.00	9,199.95	9,197.73	37.50	203.55	109.593	94.54	2,702.94	3,412.46	3,173.32	239.14	14.270	
9,700.00	9,233.00	9,199.95	9,197.73	37.77	203.55	109.339	94.54	2,702.94	3,455.72	3,216.61	239.11	14.452	
9,800.00	9,233.00	9,199.95	9,197.73	38.46	203.55	108.806	94.54	2,702.94	3,550.26	3,311.21	239.05	14.852	
9,900.00	9,233.00	9,199.95	9,197.73	39.30	203.55	108.301	94.54	2,702.94	3,645.09	3,406.09	239.00	15.251	
10,000.00	9,233.00	9,199.95	9,197.73	40.29	203.55	107.821	94.54	2,702.94	3,740.20	3,501.23	238.97	15.652	
10,100.00	9,233.00	9,199.95	9,197.73	41.39	203.55	107.365	94.54	2,702.94	3,835.55	3,596.60	238.94	16.052	
10,200.00	9,233.00	9,199.95	9,197.73	42.60	203.55	106.931	94.54	2,702.94	3,931.13	3,692.20	238.93	16.453	
10,300.00	9,233.00	9,199.95	9,197.73	43.90	203.55	106.518	94.54	2,702.94	4,026.92	3,788.00	238.92	16.854	
10,400.00	9,233.00	9,199.94	9,197.73	45.30	203.55	106.124	94.54	2,702.94	4,122.92	3,884.00	238.92	17.256	
10,500.00	9,233.00	9,199.94	9,197.73	46.76	203.55	105.748	94.54	2,702.94	4,219.10	3,980.17	238.93	17.658	
10,600.00	9,233.00	9,199.94	9,197.72	48.30	203.55	105.389	94.54	2,702.94	4,315.46	4,076.51	238.95	18.060	
10,700.00	9,233.00	9,199.94	9,197.72	49.89	203.55	105.046	94.54	2,702.94	4,411.98	4,173.01	238.97	18.463	
10,800.00	9,233.00	9,199.94	9,197.72	51.55	203.55	104.717	94.54	2,702.94	4,508.65	4,269.66	238.99	18.865	
10,900.00	9,233.00	9,199.94	9,197.72	53.25	203.55	104.402	94.54	2,702.94	4,605.46	4,366.44	239.02	19.268	
11,000.00	9,233.00	9,199.94	9,197.72	55.00	203.55	104.100	94.54	2,702.94	4,702.40	4,463.35	239.05	19.671	
11,100.00	9,233.00	9,199.94	9,197.72	56.79	203.55	103.810	94.54	2,702.94	4,799.48	4,560.39	239.09	20.074	
11,200.00	9,233.00	9,199.94	9,197.72	58.61	203.55	103.532	94.54	2,702.94	4,896.66	4,657.54	239.13	20.477	
11,300.00	9,233.00	9,199.94	9,197.72	60.47	203.55	103.264	94.54	2,702.94	4,993.96	4,754.80	239.17	20.881	
11,400.00	9,233.00	9,199.94	9,197.72	62.36	203.55	103.007	94.54	2,702.94	5,091.37	4,852.16	239.21	21.284	
11,500.00	9,233.00	9,199.94	9,197.72	64.28	203.55	102.760	94.54	2,702.94	5,188.87	4,949.61	239.26	21.687	
11,600.00	9,233.00	9,199.94	9,197.72	66.22	203.55	102.521	94.54	2,702.94	5,286.47	5,047.16	239.31	22.091	
11,700.00	9,233.00	9,199.94	9,197.72	68.19	203.55	102.291	94.54	2,702.94	5,384.15	5,144.79	239.36	22.494	
11,800.00	9,233.00	9,199.94	9,197.72	70.17	203.55	102.070	94.54	2,702.94	5,481.92	5,242.51	239.41	22.898	
11,900.00	9,233.00	9,199.94	9,197.72	72.18	203.55	101.856	94.54	2,702.94	5,579.77	5,340.30	239.46	23.301	
12,000.00	9,233.00	9,199.94	9,197.72	74.20	203.55	101.650	94.54	2,702.94	5,677.69	5,438.17	239.52	23.705	
12,100.00	9,233.00	9,199.94	9,197.72	76.25	203.55	101.450	94.54	2,702.94	5,775.68	5,536.11	239.57	24.108	
12,200.00	9,233.00	9,199.94	9,197.72	78.30	203.55	101.257	94.54	2,702.94	5,873.74	5,634.11	239.63	24.512	
12,300.00	9,233.00	9,199.94	9,197.72	80.37	203.55	101.071	94.54	2,702.94	5,971.87	5,732.18	239.69	24.915	
12,400.00	9,233.00	9,199.94	9,197.72	82.45	203.55	100.891	94.54	2,702.94	6,070.06	5,830.31	239.75	25.318	
12,500.00	9,233.00	9,199.94	9,197.72	84.55	203.55	100.716	94.54	2,702.94	6,168.30	5,928.49	239.81	25.722	
12,600.00	9,233.00	9,199.94	9,197.72	86.66	203.55	100.547	94.54	2,702.94	6,266.60	6,026.73	239.87	26.125	
12,700.00	9,233.00	9,199.94	9,197.72	88.77	203.55	100.383	94.54	2,702.94	6,364.95	6,125.02	239.93	26.528	
12,800.00	9,233.00	9,199.94	9,197.72	90.90	203.55	100.224	94.54	2,702.94	6,463.36	6,223.36	240.00	26.931	
12,900.00	9,233.00	9,199.94	9,197.72	93.03	203.55	100.070	94.54	2,702.94	6,561.81	6,321.75	240.06	27.334	
13,000.00	9,233.00	9,199.94	9,197.72	95.18	203.55	99.920	94.54	2,702.94	6,660.31	6,420.18	240.12	27.737	
13,100.00	9,233.00	9,199.93	9,197.72	97.33	203.55	99.775	94.54	2,702.94	6,758.85	6,518.66	240.19	28.140	
13,200.00	9,233.00	9,199.93	9,197.72	99.48	203.55	99.634	94.54	2,702.94	6,857.43	6,617.18	240.25	28.542	
13,300.00	9,233.00	9,199.93	9,197.71	101.65	203.55	99.497	94.54	2,702.94	6,956.06	6,715.74	240.32	28.945	
13,400.00	9,233.00	9,199.93	9,197.71	103.82	203.55	99.363	94.54	2,702.94	7,054.72	6,814.34	240.39	29.347	
13,500.00	9,233.00	9,199.93	9,197.71	106.00	203.55	99.234	94.54	2,702.94	7,153.42	6,912.97	240.45	29.750	
13,600.00	9,233.00	9,199.93	9,197.71	108.18	203.55	99.108	94.54	2,702.94	7,252.16	7,011.64	240.52	30.152	
13,700.00	9,233.00	9,199.93	9,197.71	110.37	203.55	98.985	94.54	2,702.94	7,350.93	7,110.34	240.59	30.554	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Chamois AKE Fed Com #1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 198-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	9,199.93	9,197.71	112.56	203.55	98.866	94.54	2,702.94	7,449.73	7,209.07	240.66	30.955	
13,900.00	9,233.00	9,199.93	9,197.71	114.76	203.55	98.749	94.54	2,702.94	7,548.57	7,307.84	240.73	31.357	
14,000.00	9,233.00	9,199.93	9,197.71	116.96	203.55	98.636	94.54	2,702.94	7,647.43	7,406.63	240.80	31.759	
14,100.00	9,233.00	9,199.93	9,197.71	119.17	203.55	98.526	94.54	2,702.94	7,746.33	7,505.46	240.87	32.160	
14,200.00	9,233.00	9,199.93	9,197.71	121.38	203.55	98.418	94.54	2,702.94	7,845.25	7,604.31	240.94	32.561	
14,300.00	9,233.00	9,199.93	9,197.71	123.59	203.55	98.313	94.54	2,702.94	7,944.20	7,703.19	241.01	32.962	
14,400.00	9,233.00	9,199.93	9,197.71	125.81	203.55	98.211	94.54	2,702.94	8,043.17	7,802.09	241.08	33.363	
14,500.00	9,233.00	9,199.93	9,197.71	128.03	203.55	98.111	94.54	2,702.94	8,142.18	7,901.02	241.16	33.763	
14,600.00	9,233.00	9,199.93	9,197.71	130.25	203.55	98.013	94.54	2,702.94	8,241.20	7,999.97	241.23	34.163	
14,700.00	9,233.00	9,199.93	9,197.71	132.48	203.55	97.918	94.54	2,702.94	8,340.25	8,098.95	241.30	34.564	
14,800.00	9,233.00	9,199.93	9,197.71	134.71	203.55	97.825	94.54	2,702.94	8,439.32	8,197.94	241.38	34.963	
14,900.00	9,233.00	9,199.93	9,197.71	136.94	203.55	97.734	94.54	2,702.94	8,538.41	8,296.96	241.45	35.363	
15,000.00	9,233.00	9,199.93	9,197.71	139.18	203.55	97.646	94.54	2,702.94	8,637.52	8,396.00	241.52	35.763	
15,100.00	9,233.00	9,199.93	9,197.71	141.41	203.55	97.559	94.54	2,702.94	8,736.66	8,495.06	241.60	36.162	
15,200.00	9,233.00	9,199.93	9,197.71	143.65	203.55	97.474	94.54	2,702.94	8,835.81	8,594.13	241.67	36.561	
15,300.00	9,233.00	9,199.93	9,197.71	145.90	203.55	97.392	94.54	2,702.94	8,934.98	8,693.23	241.75	36.960	
15,400.00	9,233.00	9,199.93	9,197.71	148.14	203.55	97.311	94.54	2,702.94	9,034.17	8,792.34	241.83	37.358	
15,500.00	9,233.00	9,199.93	9,197.71	150.39	203.55	97.231	94.54	2,702.94	9,133.38	8,891.47	241.90	37.757	
15,600.00	9,233.00	9,199.93	9,197.71	152.63	203.55	97.154	94.54	2,702.94	9,232.60	8,990.62	241.98	38.155	
15,700.00	9,233.00	9,199.93	9,197.71	154.88	203.55	97.078	94.54	2,702.94	9,331.84	9,089.79	242.06	38.552	
15,800.00	9,233.00	9,199.92	9,197.71	157.14	203.55	97.004	94.54	2,702.94	9,431.10	9,188.97	242.13	38.950	
15,900.00	9,233.00	9,199.92	9,197.71	159.39	203.55	96.931	94.54	2,702.94	9,530.37	9,288.16	242.21	39.347	
16,000.00	9,233.00	9,199.92	9,197.70	161.65	203.55	96.860	94.54	2,702.94	9,629.66	9,387.37	242.29	39.744	
16,100.00	9,233.00	9,199.92	9,197.70	163.90	203.55	96.790	94.54	2,702.94	9,728.96	9,486.59	242.37	40.141	
16,200.00	9,233.00	9,199.92	9,197.70	166.16	203.55	96.721	94.54	2,702.94	9,828.28	9,585.83	242.45	40.537	
16,300.00	9,233.00	9,199.92	9,197.70	168.42	203.55	96.654	94.54	2,702.94	9,927.61	9,685.08	242.53	40.934	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 235-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.00	9,212.64	9,159.81	9,153.14	36.83	267.21	-95.714	242.72	-10,283.07	9,972.97	9,669.16	303.81	32.827	
9,550.00	9,223.67	9,170.85	9,164.17	37.02	267.59	-95.752	242.72	-10,283.07	9,924.67	9,620.42	304.25	32.620	
9,600.00	9,230.48	9,177.65	9,170.98	37.23	267.83	-95.787	242.72	-10,283.07	9,875.52	9,570.98	304.54	32.428	
9,654.13	9,233.00	9,180.17	9,173.50	37.50	267.92	-95.821	242.72	-10,283.07	9,821.79	9,517.12	304.67	32.238	
9,700.00	9,233.00	9,180.17	9,173.50	37.77	267.92	-95.849	242.72	-10,283.07	9,776.16	9,471.46	304.70	32.084	
9,800.00	9,233.00	9,180.17	9,173.50	38.46	267.92	-95.910	242.72	-10,283.07	9,676.70	9,371.92	304.78	31.750	
9,900.00	9,233.00	9,180.17	9,173.50	39.30	267.92	-95.972	242.72	-10,283.07	9,577.25	9,272.38	304.86	31.415	
10,000.00	9,233.00	9,180.17	9,173.50	40.29	267.92	-96.035	242.72	-10,283.07	9,477.80	9,172.86	304.95	31.080	
10,100.00	9,233.00	9,180.17	9,173.50	41.39	267.92	-96.100	242.72	-10,283.07	9,378.37	9,073.34	305.04	30.745	
10,200.00	9,233.00	9,180.17	9,173.50	42.60	267.92	-96.166	242.72	-10,283.07	9,278.96	8,973.82	305.13	30.410	
10,300.00	9,233.00	9,180.17	9,173.50	43.90	267.92	-96.234	242.72	-10,283.07	9,179.55	8,874.32	305.23	30.074	
10,400.00	9,233.00	9,180.17	9,173.50	45.30	267.92	-96.303	242.72	-10,283.07	9,080.16	8,774.82	305.33	29.738	
10,500.00	9,233.00	9,180.17	9,173.50	46.76	267.92	-96.373	242.72	-10,283.07	8,980.78	8,675.34	305.44	29.403	
10,600.00	9,233.00	9,180.17	9,173.50	48.30	267.92	-96.446	242.72	-10,283.07	8,881.42	8,575.86	305.56	29.066	
10,700.00	9,233.00	9,180.17	9,173.50	49.89	267.92	-96.519	242.72	-10,283.07	8,782.06	8,476.39	305.67	28.730	
10,800.00	9,233.00	9,180.17	9,173.50	51.55	267.92	-96.595	242.72	-10,283.07	8,682.73	8,376.93	305.80	28.394	
10,900.00	9,233.00	9,180.17	9,173.50	53.25	267.92	-96.672	242.72	-10,283.07	8,583.41	8,277.48	305.93	28.057	
11,000.00	9,233.00	9,180.17	9,173.50	55.00	267.92	-96.751	242.72	-10,283.07	8,484.11	8,178.04	306.06	27.720	
11,100.00	9,233.00	9,180.17	9,173.50	56.79	267.92	-96.832	242.72	-10,283.07	8,384.82	8,078.62	306.20	27.383	
11,200.00	9,233.00	9,180.17	9,173.50	58.61	267.92	-96.915	242.72	-10,283.07	8,285.55	7,979.20	306.35	27.046	
11,300.00	9,233.00	9,180.17	9,173.50	60.47	267.92	-97.000	242.72	-10,283.07	8,186.30	7,879.79	306.50	26.709	
11,400.00	9,233.00	9,180.17	9,173.50	62.36	267.92	-97.087	242.72	-10,283.07	8,087.06	7,780.40	306.66	26.371	
11,500.00	9,233.00	9,180.17	9,173.50	64.28	267.92	-97.176	242.72	-10,283.07	7,987.85	7,681.01	306.83	26.033	
11,600.00	9,233.00	9,180.17	9,173.50	66.22	267.92	-97.268	242.72	-10,283.07	7,888.65	7,581.64	307.01	25.695	
11,700.00	9,233.00	9,180.17	9,173.50	68.19	267.92	-97.361	242.72	-10,283.07	7,789.48	7,482.29	307.19	25.357	
11,800.00	9,233.00	9,180.17	9,173.50	70.17	267.92	-97.457	242.72	-10,283.07	7,690.32	7,382.94	307.38	25.019	
11,900.00	9,233.00	9,180.17	9,173.50	72.18	267.92	-97.556	242.72	-10,283.07	7,591.19	7,283.61	307.58	24.681	
12,000.00	9,233.00	9,180.17	9,173.50	74.20	267.92	-97.657	242.72	-10,283.07	7,492.08	7,184.30	307.78	24.342	
12,100.00	9,233.00	9,180.17	9,173.50	76.25	267.92	-97.761	242.72	-10,283.07	7,393.00	7,085.00	308.00	24.003	
12,200.00	9,233.00	9,180.17	9,173.50	78.30	267.92	-97.868	242.72	-10,283.07	7,293.94	6,985.71	308.23	23.664	
12,300.00	9,233.00	9,180.17	9,173.50	80.37	267.92	-97.978	242.72	-10,283.07	7,194.91	6,886.44	308.46	23.325	
12,400.00	9,233.00	9,180.17	9,173.50	82.45	267.92	-98.091	242.72	-10,283.07	7,095.90	6,787.19	308.71	22.986	
12,500.00	9,233.00	9,180.17	9,173.50	84.55	267.92	-98.207	242.72	-10,283.07	6,996.93	6,687.96	308.97	22.646	
12,600.00	9,233.00	9,180.17	9,173.50	86.66	267.92	-98.326	242.72	-10,283.07	6,897.98	6,588.74	309.24	22.307	
12,700.00	9,233.00	9,180.17	9,173.50	88.77	267.92	-98.449	242.72	-10,283.07	6,799.06	6,489.54	309.52	21.967	
12,800.00	9,233.00	9,180.17	9,173.50	90.90	267.92	-98.575	242.72	-10,283.07	6,700.17	6,390.37	309.81	21.627	
12,900.00	9,233.00	9,180.17	9,173.50	93.03	267.92	-98.705	242.72	-10,283.07	6,601.32	6,291.21	310.12	21.287	
13,000.00	9,233.00	9,180.17	9,173.50	95.18	267.92	-98.839	242.72	-10,283.07	6,502.51	6,192.07	310.44	20.946	
13,100.00	9,233.00	9,180.17	9,173.50	97.33	267.92	-98.978	242.72	-10,283.07	6,403.73	6,092.96	310.77	20.606	
13,200.00	9,233.00	9,180.17	9,173.50	99.48	267.92	-99.120	242.72	-10,283.07	6,304.99	5,993.87	311.12	20.265	
13,300.00	9,233.00	9,180.17	9,173.50	101.65	267.92	-99.268	242.72	-10,283.07	6,206.29	5,894.80	311.49	19.925	
13,400.00	9,233.00	9,180.17	9,173.50	103.82	267.92	-99.419	242.72	-10,283.07	6,107.63	5,795.76	311.87	19.584	
13,500.00	9,233.00	9,180.17	9,173.50	106.00	267.92	-99.576	242.72	-10,283.07	6,009.01	5,696.74	312.27	19.243	
13,600.00	9,233.00	9,180.17	9,173.50	108.18	267.92	-99.738	242.72	-10,283.07	5,910.45	5,597.75	312.69	18.902	
13,700.00	9,233.00	9,180.17	9,173.50	110.37	267.92	-99.906	242.72	-10,283.07	5,811.93	5,498.80	313.13	18.561	
13,800.00	9,233.00	9,180.17	9,173.50	112.56	267.92	-100.080	242.72	-10,283.07	5,713.46	5,399.87	313.59	18.219	
13,900.00	9,233.00	9,180.17	9,173.50	114.76	267.92	-100.259	242.72	-10,283.07	5,615.05	5,300.97	314.07	17.878	
14,000.00	9,233.00	9,180.17	9,173.50	116.96	267.92	-100.445	242.72	-10,283.07	5,516.69	5,202.11	314.58	17.537	
14,100.00	9,233.00	9,180.17	9,173.50	119.17	267.92	-100.638	242.72	-10,283.07	5,418.39	5,103.28	315.11	17.195	
14,200.00	9,233.00	9,180.17	9,173.50	121.38	267.92	-100.837	242.72	-10,283.07	5,320.16	5,004.49	315.67	16.854	
14,300.00	9,233.00	9,180.17	9,173.50	123.59	267.92	-101.045	242.72	-10,283.07	5,222.00	4,905.74	316.25	16.512	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 235-INC-ONLY — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.00	9,233.00	9,180.17	9,173.50	125.81	267.92	-101.260	242.72	-10,283.07	5,123.90	4,807.03	316.87	16.170	
14,500.00	9,233.00	9,180.17	9,173.50	128.03	267.92	-101.483	242.72	-10,283.07	5,025.88	4,708.37	317.52	15.829	
14,600.00	9,233.00	9,180.17	9,173.50	130.25	267.92	-101.716	242.72	-10,283.07	4,927.94	4,609.75	318.20	15.487	
14,700.00	9,233.00	9,180.17	9,173.50	132.48	267.92	-101.958	242.72	-10,283.07	4,830.09	4,511.18	318.91	15.146	
14,800.00	9,233.00	9,180.17	9,173.50	134.71	267.92	-102.210	242.72	-10,283.07	4,732.32	4,412.66	319.66	14.804	
14,900.00	9,233.00	9,180.17	9,173.50	136.94	267.92	-102.472	242.72	-10,283.07	4,634.65	4,314.20	320.46	14.463	
15,000.00	9,233.00	9,180.17	9,173.50	139.18	267.92	-102.746	242.72	-10,283.07	4,537.09	4,215.79	321.29	14.121	
15,100.00	9,233.00	9,180.17	9,173.50	141.41	267.92	-103.032	242.72	-10,283.07	4,439.63	4,117.45	322.17	13.780	
15,200.00	9,233.00	9,180.17	9,173.50	143.65	267.92	-103.331	242.72	-10,283.07	4,342.28	4,019.18	323.11	13.439	
15,300.00	9,233.00	9,180.17	9,173.50	145.90	267.92	-103.643	242.72	-10,283.07	4,245.06	3,920.97	324.09	13.098	
15,400.00	9,233.00	9,180.17	9,173.50	148.14	267.92	-103.970	242.72	-10,283.07	4,147.97	3,822.84	325.13	12.758	
15,500.00	9,233.00	9,180.17	9,173.50	150.39	267.92	-104.313	242.72	-10,283.07	4,051.02	3,724.80	326.23	12.418	
15,600.00	9,233.00	9,180.17	9,173.50	152.63	267.92	-104.673	242.72	-10,283.07	3,954.23	3,626.84	327.39	12.078	
15,700.00	9,233.00	9,180.17	9,173.50	154.88	267.92	-105.050	242.72	-10,283.07	3,857.60	3,528.97	328.62	11.739	
15,800.00	9,233.00	9,180.17	9,173.50	157.14	267.92	-105.447	242.72	-10,283.07	3,761.14	3,431.21	329.93	11.400	
15,900.00	9,233.00	9,180.17	9,173.50	159.39	267.92	-105.865	242.72	-10,283.07	3,664.87	3,333.56	331.32	11.062	
16,000.00	9,233.00	9,180.17	9,173.50	161.65	267.92	-106.305	242.72	-10,283.07	3,568.81	3,236.02	332.79	10.724	
16,100.00	9,233.00	9,180.17	9,173.50	163.90	267.92	-106.770	242.72	-10,283.07	3,472.97	3,138.62	334.36	10.387	
16,200.00	9,233.00	9,180.17	9,173.50	166.16	267.92	-107.261	242.72	-10,283.07	3,377.38	3,041.36	336.02	10.051	
16,300.00	9,233.00	9,180.17	9,173.50	168.42	267.92	-107.780	242.72	-10,283.07	3,282.04	2,944.25	337.80	9.716	
16,400.00	9,233.00	9,180.17	9,173.50	170.68	267.92	-108.331	242.72	-10,283.07	3,186.99	2,847.30	339.69	9.382	
16,500.00	9,233.00	9,180.17	9,173.50	172.95	267.92	-108.915	242.72	-10,283.07	3,092.26	2,750.55	341.71	9.049	
16,600.00	9,233.00	9,180.17	9,173.50	175.21	267.92	-109.536	242.72	-10,283.07	2,997.86	2,653.99	343.87	8.718	
16,700.00	9,233.00	9,180.17	9,173.50	177.47	267.92	-110.198	242.72	-10,283.07	2,903.85	2,557.66	346.18	8.388	
16,800.00	9,233.00	9,180.17	9,173.50	179.74	267.92	-110.903	242.72	-10,283.07	2,810.24	2,461.58	348.66	8.060	
16,900.00	9,233.00	9,180.17	9,173.50	182.01	267.92	-111.658	242.72	-10,283.07	2,717.09	2,365.78	351.31	7.734	
17,000.00	9,233.00	9,180.17	9,173.50	184.28	267.92	-112.465	242.72	-10,283.07	2,624.44	2,270.28	354.16	7.410	
17,100.00	9,233.00	9,180.17	9,173.50	186.55	267.92	-113.332	242.72	-10,283.07	2,532.36	2,175.13	357.23	7.089	
17,200.00	9,233.00	9,180.17	9,173.50	188.82	267.92	-114.263	242.72	-10,283.07	2,440.89	2,080.37	360.52	6.770	
17,300.00	9,233.00	9,180.17	9,173.50	191.09	267.92	-115.267	242.72	-10,283.07	2,350.12	1,986.05	364.08	6.455	
17,400.00	9,233.00	9,180.17	9,173.50	193.36	267.92	-116.352	242.72	-10,283.07	2,260.14	1,892.23	367.91	6.143	
17,500.00	9,233.00	9,180.17	9,173.50	195.64	267.92	-117.525	242.72	-10,283.07	2,171.02	1,798.98	372.05	5.835	
17,600.00	9,233.00	9,180.17	9,173.50	197.91	267.92	-118.799	242.72	-10,283.07	2,082.90	1,706.38	376.52	5.532	
17,700.00	9,233.00	9,180.17	9,173.50	200.19	267.92	-120.184	242.72	-10,283.07	1,995.89	1,614.54	381.36	5.234	
17,800.00	9,233.00	9,180.17	9,173.50	202.46	267.92	-121.695	242.72	-10,283.07	1,910.16	1,523.57	386.59	4.941	
17,900.00	9,233.00	9,180.17	9,173.50	204.74	267.92	-123.346	242.72	-10,283.07	1,825.88	1,433.63	392.25	4.655	
18,000.00	9,233.00	9,180.17	9,173.50	207.02	267.92	-125.156	242.72	-10,283.07	1,743.27	1,344.89	398.38	4.376	
18,100.00	9,233.00	9,180.17	9,173.50	209.29	267.92	-127.143	242.72	-10,283.07	1,662.56	1,257.57	404.99	4.105	
18,200.00	9,233.00	9,180.17	9,173.50	211.57	267.92	-129.330	242.72	-10,283.07	1,584.06	1,171.93	412.13	3.844	
18,300.00	9,233.00	9,180.17	9,173.50	213.85	267.92	-131.741	242.72	-10,283.07	1,508.10	1,088.30	419.80	3.592	
18,400.00	9,233.00	9,180.17	9,173.50	216.13	267.92	-134.403	242.72	-10,283.07	1,435.09	1,007.10	427.99	3.353	
18,500.00	9,233.00	9,180.17	9,173.50	218.42	267.92	-137.343	242.72	-10,283.07	1,365.51	928.81	436.70	3.127	
18,600.00	9,233.00	9,180.17	9,173.50	220.70	267.92	-140.589	242.72	-10,283.07	1,299.90	854.06	445.84	2.916	
18,700.00	9,233.00	9,180.17	9,173.50	222.98	267.92	-144.167	242.72	-10,283.07	1,238.90	783.59	455.31	2.721	
18,800.00	9,233.00	9,180.17	9,173.50	225.26	267.92	-148.099	242.72	-10,283.07	1,183.21	718.28	464.93	2.545	
18,900.00	9,233.00	9,180.17	9,173.50	227.55	267.92	-152.396	242.72	-10,283.07	1,133.63	659.19	474.45	2.389	
19,000.00	9,233.00	9,180.17	9,173.50	229.83	267.92	-157.057	242.72	-10,283.07	1,090.99	607.47	483.52	2.256	
19,100.00	9,233.00	9,180.17	9,173.50	232.12	267.92	-162.062	242.72	-10,283.07	1,056.12	564.39	491.73	2.148	
19,200.00	9,233.00	9,180.17	9,173.50	234.40	267.92	-167.364	242.72	-10,283.07	1,029.81	531.18	498.63	2.065	
19,300.00	9,233.00	9,180.17	9,173.50	236.69	267.92	-172.894	242.72	-10,283.07	1,012.74	508.95	503.79	2.010	
19,400.00	9,233.00	9,180.17	9,173.50	238.97	267.92	-178.559	242.72	-10,283.07	1,005.37	498.50	506.87	1.983	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 1 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 235-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,424.36	9,233.00	9,180.17	9,173.50	239.53	267.92	-179.948	242.72	-10,283.07	1,005.07	497.79	507.28	1.981	CC, ES, SF
19,500.00	9,233.00	9,180.17	9,173.50	241.26	267.92	175.748	242.72	-10,283.07	1,007.91	500.24	507.68	1.985	
19,600.00	9,233.00	9,180.17	9,173.50	243.55	267.92	170.140	242.72	-10,283.07	1,020.30	514.08	506.22	2.016	
19,700.00	9,233.00	9,180.17	9,173.50	245.84	267.92	164.716	242.72	-10,283.07	1,042.18	539.47	502.71	2.073	
19,800.00	9,233.00	9,180.17	9,173.50	248.12	267.92	159.559	242.72	-10,283.07	1,072.97	575.49	497.49	2.157	
19,900.00	9,233.00	9,180.17	9,173.50	250.41	267.92	154.727	242.72	-10,283.07	1,111.94	620.98	490.96	2.265	
19,971.26	9,233.00	9,180.17	9,173.50	252.04	267.92	151.500	242.72	-10,283.07	1,144.23	658.49	485.75	2.356	
20,000.00	9,233.00	9,180.17	9,173.50	252.70	267.92	150.251	242.72	-10,283.07	1,158.24	674.69	483.55	2.395	
20,011.26	9,233.00	9,180.17	9,173.50	252.96	267.92	149.770	242.72	-10,283.07	1,163.88	681.20	482.68	2.411	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 2 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 167-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-103.909	-2,362.99	-9,541.64	9,830.11				
100.00	100.00	32.50	32.50	0.13	0.38	-103.909	-2,362.99	-9,541.64	9,829.88	9,829.38	0.50	N/A	
200.00	200.00	132.50	132.50	0.49	1.53	-103.909	-2,362.99	-9,541.64	9,829.88	9,827.86	2.02	4,863.709	
300.00	300.00	232.52	232.50	0.85	3.40	-103.909	-2,362.99	-9,541.64	9,829.88	9,825.64	4.24	2,318.247	
380.98	380.98	313.50	313.47	1.14	5.27	-103.907	-2,362.60	-9,541.64	9,829.79	9,823.38	6.41	1,534.550	
400.00	400.00	328.96	328.93	1.20	5.63	-103.907	-2,362.61	-9,541.64	9,829.79	9,822.96	6.83	1,438.793	
500.00	500.00	432.57	432.50	1.56	8.06	-103.909	-2,362.99	-9,541.64	9,829.88	9,820.26	9.62	1,021.875	
600.00	600.00	532.60	532.50	1.92	10.46	-103.909	-2,362.99	-9,541.64	9,829.88	9,817.50	12.38	793.807	
652.79	652.79	584.38	584.28	2.11	11.66	-103.908	-2,362.65	-9,541.64	9,829.80	9,816.03	13.77	713.766	
700.00	700.00	617.57	617.47	2.28	12.43	-103.908	-2,362.77	-9,541.64	9,829.84	9,815.13	14.71	668.256	
750.00	750.00	682.63	682.50	2.46	13.98	-103.909	-2,362.99	-9,541.64	9,829.88	9,813.44	16.44	598.082	
771.36	771.36	703.99	703.85	2.53	14.49	-103.908	-2,362.65	-9,541.64	9,829.81	9,812.79	17.03	577.261	
800.00	800.00	724.12	723.99	2.64	14.98	-103.909	-2,362.69	-9,541.64	9,829.89	9,812.27	17.62	557.954	
900.00	899.98	831.11	830.94	3.00	17.77	-103.918	-2,362.57	-9,541.64	9,830.48	9,809.72	20.77	473.369	
1,000.00	999.92	932.65	932.42	3.36	20.59	-103.939	-2,362.99	-9,541.64	9,831.83	9,807.88	23.94	410.639	
1,100.00	1,099.78	1,032.57	1,032.28	3.71	23.49	-103.968	-2,362.99	-9,541.64	9,833.70	9,806.50	27.20	361.555	
1,200.00	1,199.54	1,113.36	1,113.06	4.07	26.06	-104.004	-2,362.63	-9,541.64	9,836.13	9,806.00	30.13	326.472	
1,300.00	1,299.16	1,229.94	1,229.52	4.43	30.38	-104.047	-2,361.99	-9,541.64	9,839.08	9,804.27	34.81	282.634	
1,400.00	1,398.61	1,331.73	1,331.11	4.80	34.38	-104.110	-2,362.99	-9,541.64	9,843.08	9,803.91	39.18	251.253	
1,500.00	1,497.86	1,431.11	1,430.36	5.17	38.34	-104.176	-2,362.99	-9,541.64	9,847.48	9,803.97	43.51	226.334	
1,600.00	1,596.89	1,530.30	1,529.39	5.55	42.14	-104.251	-2,362.99	-9,541.64	9,852.52	9,804.83	47.68	206.627	
1,630.39	1,626.93	1,560.35	1,559.43	5.66	43.19	-104.276	-2,362.99	-9,541.64	9,854.17	9,805.33	48.84	201.746	
1,700.00	1,695.72	1,611.38	1,610.44	5.93	44.97	-104.330	-2,362.29	-9,541.64	9,857.89	9,807.00	50.89	193.722	
1,800.00	1,794.54	1,724.13	1,723.08	6.31	48.65	-104.413	-2,362.37	-9,541.64	9,863.47	9,808.52	54.95	179.502	
1,900.00	1,893.36	1,826.99	1,825.86	6.70	51.75	-104.499	-2,362.99	-9,541.64	9,869.22	9,810.79	58.43	168.902	
2,000.00	1,992.18	1,925.88	1,924.68	7.09	54.53	-104.582	-2,362.99	-9,541.64	9,874.84	9,813.24	61.60	160.303	
2,100.00	2,091.01	2,005.76	2,004.55	7.48	56.53	-104.662	-2,362.62	-9,541.64	9,880.41	9,816.42	63.99	154.403	
2,200.00	2,189.83	2,116.90	2,115.66	7.88	59.12	-104.745	-2,362.66	-9,541.64	9,886.06	9,819.09	66.98	147.606	
2,300.00	2,288.65	2,222.42	2,221.15	8.27	61.59	-104.829	-2,362.99	-9,541.64	9,891.82	9,821.99	69.83	141.658	
2,400.00	2,387.47	2,321.28	2,319.97	8.67	63.95	-104.912	-2,362.99	-9,541.64	9,897.52	9,824.94	72.59	136.357	
2,500.00	2,486.29	2,420.14	2,418.79	9.07	66.32	-104.994	-2,362.99	-9,541.64	9,903.25	9,827.90	75.34	131.440	
2,600.00	2,585.12	2,507.64	2,506.30	9.47	68.62	-105.074	-2,362.70	-9,541.64	9,908.92	9,830.88	78.04	126.966	
2,700.00	2,683.94	2,613.71	2,612.31	9.87	71.58	-105.155	-2,362.44	-9,541.64	9,914.61	9,833.21	81.40	121.804	
2,800.00	2,782.76	2,716.72	2,715.26	10.27	74.54	-105.240	-2,362.99	-9,541.64	9,920.53	9,835.78	84.75	117.051	
2,900.00	2,881.58	2,793.75	2,792.28	10.67	76.75	-105.319	-2,362.56	-9,541.64	9,926.25	9,838.88	87.36	113.620	
3,000.00	2,980.40	2,914.45	2,912.90	11.07	80.43	-105.403	-2,362.99	-9,541.64	9,932.16	9,840.73	91.43	108.628	
3,100.00	3,079.22	3,013.39	3,011.72	11.48	83.51	-105.485	-2,362.99	-9,541.64	9,938.00	9,843.09	94.92	104.703	
3,200.00	3,178.05	3,112.22	3,110.55	11.88	86.71	-105.566	-2,362.99	-9,541.64	9,943.87	9,845.35	98.51	100.941	
3,300.00	3,276.87	3,188.92	3,187.21	12.28	89.19	-105.642	-2,361.97	-9,541.64	9,949.50	9,848.11	101.39	98.130	
3,400.00	3,375.69	3,310.05	3,308.19	12.69	93.05	-105.729	-2,362.99	-9,541.64	9,955.65	9,850.00	105.65	94.230	
3,500.00	3,474.51	3,406.52	3,404.63	13.09	96.06	-105.802	-2,361.63	-9,541.64	9,961.21	9,852.15	109.06	91.338	
3,600.00	3,573.33	3,477.83	3,475.92	13.50	98.28	-105.886	-2,362.05	-9,541.64	9,967.31	9,855.63	111.68	89.251	
3,700.00	3,672.16	3,606.71	3,604.66	13.90	101.97	-105.972	-2,362.99	-9,541.64	9,973.48	9,857.72	115.77	86.151	
3,800.00	3,770.98	3,688.74	3,686.66	14.31	104.13	-106.048	-2,362.14	-9,541.64	9,979.25	9,860.92	118.32	84.339	
3,900.00	3,869.80	3,804.44	3,802.30	14.71	107.07	-106.134	-2,362.99	-9,541.64	9,985.47	9,863.81	121.66	82.074	
4,000.00	3,968.62	3,903.27	3,901.12	15.12	109.43	-106.214	-2,362.99	-9,541.64	9,991.49	9,867.06	124.43	80.299	
4,100.00	4,067.44	4,001.67	3,999.51	15.53	111.79	-106.288	-2,361.69	-9,541.64	9,997.17	9,869.99	127.18	78.605	
9,350.00	9,155.08	9,091.74	9,087.58	36.40	242.23	-111.065	-2,362.99	-9,541.64	9,987.13	9,708.55	278.58	35.851	
9,400.00	9,178.21	9,107.53	9,103.34	36.53	242.83	-111.170	-2,361.97	-9,541.64	9,946.87	9,667.53	279.34	35.609	
9,450.00	9,197.44	9,116.28	9,112.09	36.67	243.16	-111.282	-2,362.00	-9,541.64	9,905.07	9,625.24	279.83	35.397	
9,500.00	9,212.64	9,123.18	9,118.99	36.83	243.42	-111.396	-2,362.04	-9,541.64	9,861.67	9,581.43	280.24	35.190	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 2 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 167-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,550.00	9,223.67	9,128.20	9,124.01	37.02	243.61	-111.509	-2,362.08	-9,541.64	9,817.00	9,536.42	280.59	34.987	
9,600.00	9,230.48	9,131.29	9,127.09	37.23	243.73	-111.622	-2,362.11	-9,541.64	9,771.39	9,490.53	280.85	34.792	
9,654.13	9,233.00	9,132.43	9,128.24	37.50	243.77	-111.742	-2,362.12	-9,541.64	9,721.33	9,440.27	281.06	34.588	
9,700.00	9,233.00	9,132.43	9,128.24	37.77	243.77	-111.843	-2,362.12	-9,541.64	9,678.76	9,397.56	281.20	34.419	
9,800.00	9,233.00	9,132.43	9,128.24	38.46	243.77	-112.066	-2,362.12	-9,541.64	9,586.04	9,304.52	281.52	34.051	
9,900.00	9,233.00	9,132.43	9,128.24	39.30	243.77	-112.293	-2,362.12	-9,541.64	9,493.48	9,211.61	281.87	33.680	
10,000.00	9,233.00	9,132.43	9,128.24	40.29	243.77	-112.524	-2,362.12	-9,541.64	9,401.06	9,118.82	282.25	33.308	
10,100.00	9,233.00	9,132.43	9,128.24	41.39	243.77	-112.761	-2,362.12	-9,541.64	9,308.81	9,026.16	282.65	32.934	
10,200.00	9,233.00	9,132.43	9,128.24	42.60	243.77	-113.002	-2,362.12	-9,541.64	9,216.71	8,933.63	283.08	32.559	
10,300.00	9,233.00	9,132.43	9,128.24	43.90	243.77	-113.248	-2,362.12	-9,541.64	9,124.78	8,841.25	283.54	32.182	
10,400.00	9,233.00	9,132.43	9,128.24	45.30	243.77	-113.499	-2,362.12	-9,541.64	9,033.03	8,749.00	284.02	31.804	
10,500.00	9,233.00	9,132.43	9,128.24	46.76	243.77	-113.755	-2,362.12	-9,541.64	8,941.45	8,656.90	284.54	31.424	
10,600.00	9,233.00	9,132.43	9,128.23	48.30	243.77	-114.016	-2,362.12	-9,541.64	8,850.05	8,564.96	285.09	31.043	
10,700.00	9,233.00	9,132.43	9,128.23	49.89	243.77	-114.283	-2,362.12	-9,541.64	8,758.84	8,473.17	285.67	30.661	
10,800.00	9,233.00	9,132.43	9,128.23	51.55	243.77	-114.555	-2,362.12	-9,541.64	8,667.82	8,381.54	286.28	30.277	
10,900.00	9,233.00	9,132.43	9,128.23	53.25	243.77	-114.833	-2,362.12	-9,541.64	8,577.00	8,290.08	286.93	29.892	
11,000.00	9,233.00	9,132.43	9,128.23	55.00	243.77	-115.117	-2,362.12	-9,541.64	8,486.39	8,198.79	287.61	29.507	
11,100.00	9,233.00	9,132.43	9,128.23	56.79	243.77	-115.408	-2,362.12	-9,541.64	8,396.00	8,107.68	288.32	29.120	
11,200.00	9,233.00	9,132.43	9,128.23	58.61	243.77	-115.704	-2,362.12	-9,541.64	8,305.82	8,016.75	289.07	28.733	
11,300.00	9,233.00	9,132.43	9,128.23	60.47	243.77	-116.007	-2,362.12	-9,541.64	8,215.87	7,926.02	289.85	28.345	
11,400.00	9,233.00	9,132.43	9,128.23	62.36	243.77	-116.317	-2,362.12	-9,541.64	8,126.16	7,835.49	290.67	27.957	
11,500.00	9,233.00	9,132.42	9,128.23	64.28	243.77	-116.634	-2,362.12	-9,541.64	8,036.69	7,745.16	291.52	27.568	
11,600.00	9,233.00	9,132.42	9,128.23	66.22	243.77	-116.957	-2,362.12	-9,541.64	7,947.47	7,655.05	292.42	27.179	
11,700.00	9,233.00	9,132.42	9,128.23	68.19	243.77	-117.289	-2,362.12	-9,541.64	7,858.51	7,565.16	293.35	26.789	
11,800.00	9,233.00	9,132.42	9,128.23	70.17	243.77	-117.627	-2,362.12	-9,541.64	7,769.81	7,475.50	294.31	26.400	
11,900.00	9,233.00	9,132.42	9,128.23	72.18	243.77	-117.974	-2,362.12	-9,541.64	7,681.40	7,386.08	295.32	26.010	
12,000.00	9,233.00	9,132.42	9,128.23	74.20	243.77	-118.328	-2,362.12	-9,541.64	7,593.27	7,296.90	296.37	25.621	
12,100.00	9,233.00	9,132.42	9,128.23	76.25	243.77	-118.691	-2,362.12	-9,541.64	7,505.44	7,207.98	297.46	25.232	
12,200.00	9,233.00	9,132.42	9,128.23	78.30	243.77	-119.063	-2,362.12	-9,541.64	7,417.92	7,119.33	298.59	24.843	
12,300.00	9,233.00	9,132.42	9,128.23	80.37	243.77	-119.443	-2,362.12	-9,541.64	7,330.72	7,030.96	299.76	24.455	
12,400.00	9,233.00	9,132.42	9,128.23	82.45	243.77	-119.832	-2,362.12	-9,541.64	7,243.85	6,942.87	300.98	24.068	
12,500.00	9,233.00	9,132.42	9,128.23	84.55	243.77	-120.231	-2,362.12	-9,541.64	7,157.32	6,855.08	302.24	23.681	
12,600.00	9,233.00	9,132.42	9,128.23	86.66	243.77	-120.640	-2,362.12	-9,541.64	7,071.15	6,767.60	303.54	23.295	
12,700.00	9,233.00	9,132.42	9,128.23	88.77	243.77	-121.058	-2,362.12	-9,541.64	6,985.34	6,680.45	304.89	22.911	
12,800.00	9,233.00	9,132.42	9,128.23	90.90	243.77	-121.488	-2,362.12	-9,541.64	6,899.92	6,593.63	306.29	22.527	
12,900.00	9,233.00	9,132.42	9,128.22	93.03	243.77	-121.927	-2,362.12	-9,541.64	6,814.89	6,507.16	307.73	22.146	
13,000.00	9,233.00	9,132.42	9,128.22	95.18	243.77	-122.378	-2,362.12	-9,541.64	6,730.28	6,421.06	309.22	21.765	
13,100.00	9,233.00	9,132.42	9,128.22	97.33	243.77	-122.841	-2,362.12	-9,541.64	6,646.09	6,335.33	310.76	21.386	
13,200.00	9,233.00	9,132.42	9,128.22	99.48	243.77	-123.315	-2,362.12	-9,541.64	6,562.35	6,250.00	312.35	21.009	
13,300.00	9,233.00	9,132.42	9,128.22	101.65	243.77	-123.801	-2,362.12	-9,541.64	6,479.07	6,165.07	313.99	20.634	
13,400.00	9,233.00	9,132.42	9,128.22	103.82	243.77	-124.300	-2,362.12	-9,541.64	6,396.27	6,080.58	315.69	20.262	
13,500.00	9,233.00	9,132.42	9,128.22	106.00	243.77	-124.812	-2,362.12	-9,541.64	6,313.96	5,996.53	317.43	19.891	
13,600.00	9,233.00	9,132.42	9,128.22	108.18	243.77	-125.338	-2,362.12	-9,541.64	6,232.17	5,912.95	319.23	19.523	
13,700.00	9,233.00	9,132.42	9,128.22	110.37	243.77	-125.877	-2,362.12	-9,541.64	6,150.93	5,829.84	321.08	19.157	
13,800.00	9,233.00	9,132.41	9,128.22	112.56	243.77	-126.431	-2,362.12	-9,541.64	6,070.24	5,747.25	322.99	18.794	
13,900.00	9,233.00	9,132.41	9,128.22	114.76	243.77	-127.000	-2,362.12	-9,541.64	5,990.13	5,665.18	324.95	18.434	
14,000.00	9,233.00	9,132.41	9,128.22	116.96	243.77	-127.584	-2,362.12	-9,541.64	5,910.63	5,583.65	326.98	18.077	
14,100.00	9,233.00	9,132.41	9,128.22	119.17	243.77	-128.184	-2,362.12	-9,541.64	5,831.76	5,502.70	329.06	17.723	
14,200.00	9,233.00	9,132.41	9,128.22	121.38	243.77	-128.800	-2,362.12	-9,541.64	5,753.55	5,422.35	331.20	17.372	
14,300.00	9,233.00	9,132.41	9,128.22	123.59	243.77	-129.434	-2,362.12	-9,541.64	5,676.02	5,342.62	333.40	17.025	
14,400.00	9,233.00	9,132.41	9,128.22	125.81	243.77	-130.084	-2,362.12	-9,541.64	5,599.21	5,263.55	335.66	16.681	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 2 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 167-INC-ONLY — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,500.00	9,233.00	9,132.41	9,128.22	128.03	243.77	-130.753	-2,362.12	-9,541.64	5,523.13	5,185.15	337.98	16.342	
14,600.00	9,233.00	9,132.41	9,128.22	130.25	243.77	-131.440	-2,362.12	-9,541.64	5,447.83	5,107.47	340.37	16.006	
14,700.00	9,233.00	9,132.41	9,128.22	132.48	243.77	-132.147	-2,362.12	-9,541.64	5,373.34	5,030.52	342.81	15.674	
14,800.00	9,233.00	9,132.41	9,128.22	134.71	243.77	-132.873	-2,362.12	-9,541.64	5,299.68	4,954.36	345.33	15.347	
14,900.00	9,233.00	9,132.41	9,128.22	136.94	243.77	-133.620	-2,362.12	-9,541.64	5,226.91	4,879.00	347.90	15.024	
15,000.00	9,233.00	9,132.41	9,128.22	139.18	243.77	-134.387	-2,362.12	-9,541.64	5,155.04	4,804.50	350.54	14.706	
15,100.00	9,233.00	9,132.41	9,128.22	141.41	243.77	-135.176	-2,362.12	-9,541.64	5,084.12	4,730.88	353.25	14.393	
15,200.00	9,233.00	9,132.41	9,128.22	143.65	243.77	-135.988	-2,362.12	-9,541.64	5,014.20	4,658.19	356.01	14.084	
15,300.00	9,233.00	9,132.41	9,128.21	145.90	243.77	-136.822	-2,362.12	-9,541.64	4,945.31	4,586.46	358.85	13.781	
15,400.00	9,233.00	9,132.41	9,128.21	148.14	243.77	-137.679	-2,362.12	-9,541.64	4,877.50	4,515.75	361.74	13.483	
15,500.00	9,233.00	9,132.41	9,128.21	150.39	243.77	-138.560	-2,362.12	-9,541.64	4,810.81	4,446.10	364.70	13.191	
15,600.00	9,233.00	9,132.41	9,128.21	152.63	243.77	-139.466	-2,362.12	-9,541.64	4,745.29	4,377.56	367.73	12.904	
15,700.00	9,233.00	9,132.41	9,128.21	154.88	243.77	-140.397	-2,362.12	-9,541.64	4,680.99	4,310.18	370.81	12.624	
15,800.00	9,233.00	9,132.41	9,128.21	157.14	243.77	-141.354	-2,362.12	-9,541.64	4,617.96	4,244.01	373.95	12.349	
15,900.00	9,233.00	9,132.41	9,128.21	159.39	243.77	-142.337	-2,362.12	-9,541.64	4,556.25	4,179.10	377.15	12.081	
16,000.00	9,233.00	9,132.41	9,128.21	161.65	243.77	-143.347	-2,362.12	-9,541.64	4,495.92	4,115.52	380.40	11.819	
16,100.00	9,233.00	9,132.40	9,128.21	163.90	243.77	-144.383	-2,362.12	-9,541.64	4,437.03	4,053.32	383.71	11.564	
16,200.00	9,233.00	9,132.40	9,128.21	166.16	243.77	-145.448	-2,362.12	-9,541.64	4,379.62	3,992.56	387.06	11.315	
16,300.00	9,233.00	9,132.40	9,128.21	168.42	243.77	-146.540	-2,362.12	-9,541.64	4,323.77	3,933.31	390.46	11.074	
16,400.00	9,233.00	9,132.40	9,128.21	170.68	243.77	-147.660	-2,362.12	-9,541.64	4,269.53	3,875.63	393.90	10.839	
16,500.00	9,233.00	9,132.40	9,128.21	172.95	243.77	-148.809	-2,362.12	-9,541.64	4,216.96	3,819.59	397.38	10.612	
16,600.00	9,233.00	9,132.40	9,128.21	175.21	243.77	-149.986	-2,362.12	-9,541.64	4,166.13	3,765.25	400.88	10.392	
16,700.00	9,233.00	9,132.40	9,128.21	177.47	243.77	-151.192	-2,362.12	-9,541.64	4,117.10	3,712.69	404.41	10.180	
16,800.00	9,233.00	9,132.40	9,128.21	179.74	243.77	-152.426	-2,362.12	-9,541.64	4,069.94	3,661.98	407.96	9.976	
16,900.00	9,233.00	9,132.40	9,128.21	182.01	243.77	-153.689	-2,362.12	-9,541.64	4,024.71	3,613.20	411.52	9.780	
17,000.00	9,233.00	9,132.40	9,128.21	184.28	243.77	-154.980	-2,362.12	-9,541.64	3,981.48	3,566.41	415.08	9.592	
17,100.00	9,233.00	9,132.40	9,128.21	186.55	243.77	-156.298	-2,362.12	-9,541.64	3,940.32	3,521.69	418.63	9.412	
17,200.00	9,233.00	9,132.40	9,128.21	188.82	243.77	-157.644	-2,362.12	-9,541.64	3,901.28	3,479.11	422.17	9.241	
17,300.00	9,233.00	9,132.40	9,128.21	191.09	243.77	-159.016	-2,362.12	-9,541.64	3,864.44	3,438.75	425.68	9.078	
17,400.00	9,233.00	9,132.40	9,128.21	193.36	243.77	-160.413	-2,362.12	-9,541.64	3,829.85	3,400.69	429.16	8.924	
17,500.00	9,233.00	9,132.40	9,128.21	195.64	243.77	-161.835	-2,362.12	-9,541.64	3,797.58	3,364.99	432.60	8.779	
17,600.00	9,233.00	9,132.40	9,128.20	197.91	243.77	-163.281	-2,362.12	-9,541.64	3,767.70	3,331.72	435.98	8.642	
17,700.00	9,233.00	9,132.40	9,128.20	200.19	243.77	-164.748	-2,362.12	-9,541.64	3,740.24	3,300.95	439.29	8.514	
17,800.00	9,233.00	9,132.40	9,128.20	202.46	243.77	-166.237	-2,362.12	-9,541.64	3,715.28	3,272.75	442.53	8.396	
17,900.00	9,233.00	9,132.40	9,128.20	204.74	243.77	-167.745	-2,362.12	-9,541.64	3,692.86	3,247.18	445.67	8.286	
18,000.00	9,233.00	9,132.40	9,128.20	207.02	243.77	-169.269	-2,362.12	-9,541.64	3,673.02	3,224.30	448.72	8.186	
18,100.00	9,233.00	9,132.40	9,128.20	209.29	243.77	-170.810	-2,362.12	-9,541.64	3,655.81	3,204.15	451.66	8.094	
18,200.00	9,233.00	9,132.40	9,128.20	211.57	243.77	-172.364	-2,362.12	-9,541.64	3,641.27	3,186.80	454.48	8.012	
18,300.00	9,233.00	9,132.40	9,128.20	213.85	243.77	-173.929	-2,362.12	-9,541.64	3,629.43	3,172.26	457.17	7.939	
18,400.00	9,233.00	9,132.40	9,128.20	216.13	243.77	-175.503	-2,362.12	-9,541.64	3,620.31	3,160.60	459.71	7.875	
18,500.00	9,233.00	9,132.39	9,128.20	218.42	243.77	-177.084	-2,362.12	-9,541.64	3,613.94	3,151.82	462.12	7.820	
18,600.00	9,233.00	9,132.39	9,128.20	220.70	243.77	-178.669	-2,362.12	-9,541.64	3,610.32	3,145.96	464.36	7.775	
18,680.56	9,233.00	9,132.39	9,128.20	222.54	243.77	-179.948	-2,362.12	-9,541.64	3,609.42	3,143.37	466.06	7.745	CC
18,700.00	9,233.00	9,132.39	9,128.20	222.98	243.77	179.744	-2,362.12	-9,541.64	3,609.48	3,143.02	466.45	7.738	ES
18,800.00	9,233.00	9,132.39	9,128.20	225.26	243.77	178.157	-2,362.12	-9,541.64	3,611.40	3,143.03	468.37	7.711	
18,900.00	9,233.00	9,132.39	9,128.20	227.55	243.77	176.573	-2,362.12	-9,541.64	3,616.09	3,145.96	470.12	7.692	
19,000.00	9,233.00	9,132.39	9,128.20	229.83	243.77	174.994	-2,362.12	-9,541.64	3,623.53	3,151.83	471.70	7.682	
19,100.00	9,233.00	9,132.39	9,128.20	232.12	243.77	173.423	-2,362.12	-9,541.64	3,633.71	3,160.60	473.11	7.680	SF
19,200.00	9,233.00	9,132.39	9,128.20	234.40	243.77	171.862	-2,362.12	-9,541.64	3,646.61	3,172.27	474.34	7.688	
19,300.00	9,233.00	9,132.39	9,128.20	236.69	243.77	170.314	-2,362.12	-9,541.64	3,662.19	3,186.79	475.40	7.703	
19,400.00	9,233.00	9,132.39	9,128.20	238.97	243.77	168.779	-2,362.12	-9,541.64	3,680.43	3,204.14	476.28	7.727	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Freedom 31 Federal Com 2 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 167-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	9,233.00	9,132.39	9,128.20	241.26	243.77	167.261	-2,362.12	-9,541.64	3,701.27	3,224.27	477.00	7.759	
19,600.00	9,233.00	9,132.39	9,128.20	243.55	243.77	165.760	-2,362.12	-9,541.64	3,724.69	3,247.13	477.56	7.799	
19,700.00	9,233.00	9,132.39	9,128.20	245.84	243.77	164.280	-2,362.12	-9,541.64	3,750.63	3,272.67	477.95	7.847	
19,800.00	9,233.00	9,132.39	9,128.20	248.12	243.77	162.820	-2,362.12	-9,541.64	3,779.03	3,300.84	478.19	7.903	
19,900.00	9,233.00	9,132.39	9,128.19	250.41	243.77	161.384	-2,362.12	-9,541.64	3,809.85	3,331.57	478.28	7.966	
19,971.26	9,233.00	9,132.39	9,128.19	252.04	243.77	160.375	-2,362.12	-9,541.64	3,833.26	3,354.99	478.26	8.015	
20,000.00	9,233.00	9,132.39	9,128.19	252.70	243.77	159.971	-2,362.12	-9,541.64	3,843.03	3,364.79	478.24	8.036	
20,011.26	9,233.00	9,132.39	9,128.19	252.96	243.77	159.814	-2,362.12	-9,541.64	3,846.91	3,368.69	478.22	8.044	

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 179-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	19,575.00	9,487.57	0.00	240.16	-155.355	-1,070.02	-490.92	9,591.59				
100.00	100.00	19,575.00	9,487.57	0.13	240.16	-155.355	-1,070.02	-490.92	9,492.35	9,403.28	89.08	106.565	
200.00	200.00	19,575.00	9,487.57	0.49	240.16	-155.355	-1,070.02	-490.92	9,393.14	9,303.98	89.16	105.354	
300.00	300.00	19,575.00	9,487.57	0.85	240.16	-155.355	-1,070.02	-490.92	9,293.93	9,204.68	89.25	104.134	
400.00	400.00	19,575.00	9,487.57	1.20	240.16	-155.355	-1,070.02	-490.92	9,194.75	9,105.40	89.35	102.908	
500.00	500.00	19,575.00	9,487.57	1.56	240.16	-155.355	-1,070.02	-490.92	9,095.58	9,006.12	89.46	101.674	
600.00	600.00	19,575.00	9,487.57	1.92	240.16	-155.355	-1,070.02	-490.92	8,996.43	8,906.85	89.58	100.434	
700.00	700.00	19,575.00	9,487.57	2.28	240.16	-155.355	-1,070.02	-490.92	8,897.30	8,807.60	89.70	99.188	
750.00	750.00	19,575.00	9,487.57	2.46	240.16	-155.355	-1,070.02	-490.92	8,847.74	8,757.97	89.77	98.562	
800.00	800.00	19,575.00	9,487.57	2.64	240.16	-155.358	-1,070.02	-490.92	8,798.22	8,708.38	89.84	97.935	
900.00	899.98	19,575.00	9,487.57	3.00	240.16	-155.384	-1,070.02	-490.92	8,699.37	8,609.38	89.99	96.669	
1,000.00	999.92	19,575.00	9,487.57	3.36	240.16	-155.435	-1,070.02	-490.92	8,600.82	8,510.65	90.17	95.387	
1,100.00	1,099.78	19,575.00	9,487.57	3.71	240.16	-155.511	-1,070.02	-490.92	8,502.61	8,412.24	90.37	94.087	
1,200.00	1,199.54	19,575.00	9,487.57	4.07	240.16	-155.612	-1,070.02	-490.92	8,404.79	8,314.19	90.60	92.769	
1,300.00	1,299.16	19,575.00	9,487.57	4.43	240.16	-155.736	-1,070.02	-490.92	8,307.39	8,216.54	90.86	91.434	
1,400.00	1,398.61	19,575.00	9,487.57	4.80	240.16	-155.882	-1,070.02	-490.92	8,210.47	8,119.33	91.15	90.081	
1,500.00	1,497.86	19,575.00	9,487.57	5.17	240.16	-156.050	-1,070.02	-490.92	8,114.07	8,022.60	91.47	88.711	
1,600.00	1,596.89	19,575.00	9,487.57	5.55	240.16	-156.238	-1,070.02	-490.92	8,018.24	7,926.41	91.82	87.322	
1,630.39	1,626.93	19,575.00	9,487.57	5.66	240.16	-156.299	-1,070.02	-490.92	7,989.23	7,897.30	91.94	86.900	
1,700.00	1,695.72	19,575.00	9,487.57	5.93	240.16	-156.439	-1,070.02	-490.92	7,922.89	7,830.68	92.22	85.917	
1,800.00	1,794.54	19,575.00	9,487.57	6.31	240.16	-156.636	-1,070.02	-490.92	7,827.69	7,735.05	92.64	84.500	
1,900.00	1,893.36	19,575.00	9,487.57	6.70	240.16	-156.829	-1,070.02	-490.92	7,732.61	7,639.53	93.08	83.079	
2,000.00	1,992.18	19,575.00	9,487.57	7.09	240.16	-157.018	-1,070.02	-490.92	7,637.65	7,544.11	93.54	81.653	
2,100.00	2,091.01	19,575.00	9,487.57	7.48	240.16	-157.202	-1,070.02	-490.92	7,542.83	7,448.80	94.02	80.224	
2,200.00	2,189.83	19,575.00	9,487.57	7.88	240.16	-157.382	-1,070.02	-490.92	7,448.13	7,353.61	94.53	78.792	
2,300.00	2,288.65	19,575.00	9,487.57	8.27	240.16	-157.558	-1,070.02	-490.92	7,353.58	7,258.53	95.06	77.358	
2,400.00	2,387.47	19,575.00	9,487.57	8.67	240.16	-157.730	-1,070.02	-490.92	7,259.18	7,163.57	95.61	75.923	
2,500.00	2,486.29	19,575.00	9,487.57	9.07	240.16	-157.899	-1,070.02	-490.92	7,164.93	7,068.74	96.19	74.486	
2,600.00	2,585.12	19,575.00	9,487.57	9.47	240.16	-158.064	-1,070.02	-490.92	7,070.84	6,974.04	96.80	73.049	
2,700.00	2,683.94	19,575.00	9,487.57	9.87	240.16	-158.226	-1,070.02	-490.92	6,976.91	6,879.48	97.43	71.612	
2,800.00	2,782.76	19,575.00	9,487.57	10.27	240.16	-158.384	-1,070.02	-490.92	6,883.15	6,785.06	98.08	70.176	
2,900.00	2,881.58	19,575.00	9,487.57	10.67	240.16	-158.539	-1,070.02	-490.92	6,789.57	6,690.79	98.77	68.740	
3,000.00	2,980.40	19,575.00	9,487.57	11.07	240.16	-158.690	-1,070.02	-490.92	6,696.17	6,596.68	99.49	67.306	
3,100.00	3,079.22	19,575.00	9,487.57	11.48	240.16	-158.839	-1,070.02	-490.92	6,602.97	6,502.73	100.24	65.875	
3,200.00	3,178.05	19,575.00	9,487.57	11.88	240.16	-158.984	-1,070.02	-490.92	6,509.97	6,408.95	101.02	64.446	
3,300.00	3,276.87	19,575.00	9,487.57	12.28	240.16	-159.127	-1,070.02	-490.92	6,417.18	6,315.35	101.83	63.019	
3,400.00	3,375.69	19,575.00	9,487.57	12.69	240.16	-159.267	-1,070.02	-490.92	6,324.61	6,221.93	102.68	61.597	
3,500.00	3,474.51	19,575.00	9,487.57	13.09	240.16	-159.404	-1,070.02	-490.92	6,232.27	6,128.71	103.56	60.179	
3,600.00	3,573.33	19,575.00	9,487.57	13.50	240.16	-159.539	-1,070.02	-490.92	6,140.17	6,035.69	104.49	58.766	
3,700.00	3,672.16	19,575.00	9,487.57	13.90	240.16	-159.670	-1,070.02	-490.92	6,048.32	5,942.87	105.45	57.358	
3,800.00	3,770.98	19,575.00	9,487.57	14.31	240.16	-159.800	-1,070.02	-490.92	5,956.74	5,850.28	106.45	55.956	
3,900.00	3,869.80	19,575.00	9,487.57	14.71	240.16	-159.927	-1,070.02	-490.92	5,865.42	5,757.92	107.50	54.561	
4,000.00	3,968.62	19,575.00	9,487.57	15.12	240.16	-160.051	-1,070.02	-490.92	5,774.40	5,665.80	108.60	53.173	
4,100.00	4,067.44	19,575.00	9,487.57	15.53	240.16	-160.174	-1,070.02	-490.92	5,683.68	5,573.94	109.74	51.792	
4,200.00	4,166.26	19,575.00	9,487.57	15.93	240.16	-160.294	-1,070.02	-490.92	5,593.27	5,482.34	110.93	50.421	
4,300.00	4,265.09	19,575.00	9,487.57	16.34	240.16	-160.411	-1,070.02	-490.92	5,503.20	5,391.02	112.18	49.058	
4,400.00	4,363.91	19,575.00	9,487.57	16.74	240.16	-160.527	-1,070.02	-490.92	5,413.47	5,300.00	113.48	47.706	
4,500.00	4,462.73	19,575.00	9,487.57	17.15	240.16	-160.641	-1,070.02	-490.92	5,324.11	5,209.28	114.83	46.365	
4,600.00	4,561.55	19,575.00	9,487.57	17.56	240.16	-160.752	-1,070.02	-490.92	5,235.14	5,118.89	116.25	45.034	
4,700.00	4,660.37	19,575.00	9,487.57	17.97	240.16	-160.862	-1,070.02	-490.92	5,146.57	5,028.84	117.73	43.717	
4,800.00	4,759.20	19,575.00	9,487.57	18.37	240.16	-160.970	-1,070.02	-490.92	5,058.43	4,939.16	119.27	42.412	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 179-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,858.02	19,575.00	9,487.57	18.78	240.16	-161.075	-1,070.02	-490.92	4,970.73	4,849.85	120.88	41.121	
5,000.00	4,956.84	19,575.00	9,487.57	19.19	240.16	-161.179	-1,070.02	-490.92	4,883.51	4,760.95	122.57	39.844	
5,100.00	5,055.66	19,575.00	9,487.57	19.60	240.16	-161.282	-1,070.02	-490.92	4,796.79	4,672.47	124.32	38.583	
5,200.00	5,154.48	19,575.00	9,487.57	20.00	240.16	-161.382	-1,070.02	-490.92	4,710.59	4,584.43	126.16	37.338	
5,300.00	5,253.30	19,575.00	9,487.57	20.41	240.16	-161.481	-1,070.02	-490.92	4,624.95	4,496.88	128.08	36.111	
5,400.00	5,352.13	19,575.00	9,487.57	20.82	240.16	-161.578	-1,070.02	-490.92	4,539.90	4,409.82	130.08	34.902	
5,500.00	5,450.95	19,575.00	9,487.57	21.23	240.16	-161.674	-1,070.02	-490.92	4,455.47	4,323.30	132.17	33.711	
5,600.00	5,549.77	19,575.00	9,487.57	21.63	240.16	-161.768	-1,070.02	-490.92	4,371.69	4,237.34	134.35	32.540	
5,700.00	5,648.59	19,575.00	9,487.57	22.04	240.16	-161.860	-1,070.02	-490.92	4,288.61	4,151.99	136.62	31.390	
5,800.00	5,747.41	19,575.00	9,487.57	22.45	240.16	-161.951	-1,070.02	-490.92	4,206.27	4,067.27	139.00	30.261	
5,900.00	5,846.24	19,575.00	9,487.57	22.86	240.16	-162.041	-1,070.02	-490.92	4,124.70	3,983.23	141.48	29.155	
6,000.00	5,945.06	19,575.00	9,487.57	23.27	240.16	-162.129	-1,070.02	-490.92	4,043.97	3,899.91	144.06	28.071	
6,054.08	5,998.50	19,575.00	9,487.57	23.49	240.16	-162.176	-1,070.02	-490.92	4,000.67	3,855.17	145.50	27.496	
6,100.00	6,043.88	19,575.00	9,487.57	23.68	240.16	-162.221	-1,070.02	-490.92	3,964.08	3,817.33	146.75	27.012	
6,200.00	6,142.71	19,575.00	9,487.57	24.08	240.16	-162.354	-1,070.02	-490.92	3,884.92	3,735.35	149.57	25.975	
6,229.83	6,172.19	19,575.00	9,487.57	24.20	240.16	-162.403	-1,070.02	-490.92	3,861.44	3,711.01	150.43	25.669	
6,300.00	6,241.54	19,575.00	9,487.57	24.49	240.16	-162.523	-1,070.02	-490.92	3,806.55	3,654.05	152.50	24.961	
6,400.00	6,340.36	19,575.00	9,487.57	24.89	240.16	-162.691	-1,070.02	-490.92	3,729.21	3,573.65	155.56	23.973	
6,500.00	6,439.18	19,575.00	9,487.57	25.30	240.16	-162.857	-1,070.02	-490.92	3,652.97	3,494.23	158.74	23.013	
6,600.00	6,538.00	19,575.00	9,487.57	25.71	240.16	-163.020	-1,070.02	-490.92	3,577.89	3,415.85	162.04	22.080	
6,700.00	6,636.82	19,575.00	9,487.57	26.11	240.16	-163.181	-1,070.02	-490.92	3,504.07	3,338.60	165.47	21.177	
6,800.00	6,735.64	19,575.00	9,487.57	26.52	240.16	-163.340	-1,070.02	-490.92	3,431.57	3,262.54	169.03	20.302	
6,900.00	6,834.47	19,575.00	9,487.57	26.93	240.16	-163.497	-1,070.02	-490.92	3,360.48	3,187.77	172.71	19.457	
7,000.00	6,933.29	19,575.00	9,487.57	27.33	240.16	-163.651	-1,070.02	-490.92	3,290.90	3,114.38	176.52	18.643	
7,100.00	7,032.11	19,575.00	9,487.57	27.74	240.16	-163.804	-1,070.02	-490.92	3,222.91	3,042.46	180.45	17.860	
7,200.00	7,130.93	19,575.00	9,487.57	28.15	240.16	-163.954	-1,070.02	-490.92	3,156.63	2,972.13	184.51	17.108	
7,300.00	7,229.75	19,575.00	9,487.57	28.56	240.16	-164.102	-1,070.02	-490.92	3,092.17	2,903.49	188.68	16.389	
7,400.00	7,328.58	19,575.00	9,487.57	28.96	240.16	-164.248	-1,070.02	-490.92	3,029.63	2,836.68	192.95	15.702	
7,500.00	7,427.40	19,575.00	9,487.57	29.37	240.16	-164.392	-1,070.02	-490.92	2,969.15	2,771.82	197.32	15.047	
7,600.00	7,526.22	19,575.00	9,487.57	29.78	240.16	-164.534	-1,070.02	-490.92	2,910.84	2,709.06	201.78	14.426	
7,700.00	7,625.04	19,575.00	9,487.57	30.18	240.16	-164.674	-1,070.02	-490.92	2,854.85	2,648.54	206.31	13.838	
7,800.00	7,723.86	19,575.00	9,487.57	30.59	240.16	-164.813	-1,070.02	-490.92	2,801.31	2,590.42	210.89	13.283	
7,900.00	7,822.68	19,575.00	9,487.57	31.00	240.16	-164.949	-1,070.02	-490.92	2,750.37	2,534.85	215.51	12.762	
8,000.00	7,921.51	19,575.00	9,487.57	31.41	240.16	-165.084	-1,070.02	-490.92	2,702.16	2,482.02	220.14	12.275	
8,100.00	8,020.33	19,575.00	9,487.57	31.82	240.16	-165.217	-1,070.02	-490.92	2,656.85	2,432.10	224.75	11.821	
8,200.00	8,119.15	19,575.00	9,487.57	32.22	240.16	-165.348	-1,070.02	-490.92	2,614.58	2,385.26	229.32	11.402	
8,300.00	8,217.97	19,575.00	9,487.57	32.63	240.16	-165.477	-1,070.02	-490.92	2,575.50	2,341.69	233.81	11.015	
8,400.00	8,316.79	19,575.00	9,487.57	33.04	240.16	-165.605	-1,070.02	-490.92	2,539.75	2,301.57	238.18	10.663	
8,500.00	8,415.62	19,575.00	9,487.57	33.45	240.16	-165.731	-1,070.02	-490.92	2,507.49	2,265.08	242.42	10.344	
8,600.00	8,514.44	19,575.00	9,487.57	33.85	240.16	-165.856	-1,070.02	-490.92	2,478.85	2,232.38	246.46	10.058	
8,700.00	8,613.26	19,575.00	9,487.57	34.26	240.16	-165.979	-1,070.02	-490.92	2,453.95	2,203.66	250.29	9.805	
8,761.09	8,673.63	19,575.00	9,487.57	34.51	240.16	-166.053	-1,070.02	-490.92	2,440.63	2,188.13	252.50	9.666	
8,800.00	8,712.04	19,575.00	9,487.57	34.67	240.16	-166.132	-1,070.02	-490.92	2,432.61	2,178.74	253.88	9.582	
8,850.00	8,761.06	19,575.00	9,487.57	34.87	240.16	-166.326	-1,070.02	-490.92	2,422.39	2,166.74	255.65	9.475	
8,900.00	8,809.36	19,575.00	9,487.57	35.06	240.16	-166.622	-1,070.02	-490.92	2,412.31	2,154.90	257.41	9.371	
8,950.00	8,856.58	19,575.00	9,487.57	35.24	240.16	-167.019	-1,070.02	-490.92	2,402.46	2,143.31	259.14	9.271	
9,000.00	8,902.35	19,575.00	9,487.57	35.41	240.16	-167.512	-1,070.02	-490.92	2,392.92	2,132.08	260.84	9.174	
9,050.00	8,946.33	19,575.00	9,487.57	35.58	240.16	-168.098	-1,070.02	-490.92	2,383.76	2,121.27	262.49	9.081	
9,100.00	8,988.19	19,575.00	9,487.57	35.73	240.16	-168.774	-1,070.02	-490.92	2,375.06	2,110.99	264.07	8.994	
9,150.00	9,027.59	19,575.00	9,487.57	35.88	240.16	-169.535	-1,070.02	-490.92	2,366.88	2,101.31	265.57	8.912	
9,200.00	9,064.25	19,575.00	9,487.57	36.02	240.16	-170.376	-1,070.02	-490.92	2,359.31	2,092.32	266.99	8.837	

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 179-MWD+HRGM — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,250.00	9,097.89	19,575.00	9,487.57	36.15	240.16	-171.291	-1,070.02	-490.92	2,352.40	2,084.08	268.31	8.767	
9,300.00	9,128.24	19,575.00	9,487.57	36.27	240.16	-172.274	-1,070.02	-490.92	2,346.20	2,076.67	269.53	8.705	
9,350.00	9,155.08	19,575.00	9,487.57	36.40	240.16	-173.319	-1,070.02	-490.92	2,340.78	2,070.14	270.64	8.649	
9,400.00	9,178.21	19,575.00	9,487.57	36.53	240.16	-174.417	-1,070.02	-490.92	2,336.18	2,064.56	271.63	8.601	
9,450.00	9,197.44	19,575.00	9,487.57	36.67	240.16	-175.560	-1,070.02	-490.92	2,332.44	2,059.95	272.49	8.560	
9,500.00	9,212.64	19,575.00	9,487.57	36.83	240.16	-176.741	-1,070.02	-490.92	2,329.59	2,056.37	273.22	8.526	
9,550.00	9,223.67	19,533.60	9,486.17	37.02	239.21	-176.924	-1,067.98	-532.24	2,327.30	2,054.52	272.77	8.532	
9,600.00	9,230.48	19,476.39	9,484.04	37.23	237.90	-176.733	-1,065.10	-589.35	2,324.83	2,052.95	271.88	8.551	
9,654.13	9,233.00	19,424.80	9,481.74	37.50	236.71	-176.794	-1,062.40	-640.81	2,321.86	2,050.71	271.16	8.563	
9,700.00	9,233.00	19,389.27	9,480.19	37.77	235.90	-177.051	-1,060.69	-676.26	2,319.46	2,048.71	270.75	8.567	
9,800.00	9,233.00	19,311.76	9,477.11	38.46	234.12	-177.610	-1,057.45	-753.64	2,314.93	2,044.99	269.93	8.576	
9,900.00	9,233.00	19,230.87	9,474.26	39.30	232.27	-178.086	-1,054.80	-834.45	2,311.34	2,042.21	269.12	8.588	
10,000.00	9,233.00	19,141.30	9,470.66	40.29	230.22	-178.347	-1,052.47	-923.91	2,308.36	2,040.15	268.21	8.607	
10,100.00	9,233.00	19,052.40	9,467.05	41.39	228.19	-178.626	-1,050.45	-1,012.71	2,305.74	2,038.33	267.40	8.623	
10,200.00	9,233.00	18,975.00	9,464.80	42.60	226.41	-179.192	-1,049.37	-1,090.07	2,304.07	2,037.15	266.92	8.632	
10,300.00	9,233.00	18,891.48	9,463.58	43.90	224.50	-179.605	-1,048.78	-1,173.58	2,303.26	2,036.90	266.36	8.647	
10,400.00	9,233.00	18,787.26	9,462.46	45.30	222.12	-179.499	-1,048.13	-1,277.79	2,302.61	2,037.17	265.44	8.675	
10,500.00	9,233.00	18,691.00	9,461.29	46.76	219.92	-179.593	-1,047.22	-1,374.04	2,301.63	2,036.87	264.76	8.693	
10,600.00	9,233.00	18,596.00	9,461.49	48.30	217.75	-179.718	-1,046.56	-1,469.03	2,301.06	2,036.91	264.15	8.711	
10,700.00	9,233.00	18,489.33	9,462.04	49.89	215.31	-179.551	-1,046.04	-1,575.70	2,300.74	2,037.37	263.37	8.736	
10,800.00	9,233.00	18,378.62	9,462.50	51.55	212.79	-179.283	-1,044.90	-1,686.40	2,299.86	2,037.31	262.55	8.760	
10,900.00	9,233.00	18,251.55	9,460.91	53.25	209.88	-178.604	-1,042.84	-1,813.44	2,298.22	2,036.78	261.45	8.790	
11,000.00	9,233.00	18,158.86	9,456.27	55.00	207.77	-178.789	-1,041.02	-1,905.99	2,295.82	2,034.67	261.14	8.791	
11,100.00	9,233.00	18,072.11	9,453.41	56.79	205.79	-179.123	-1,039.84	-1,992.69	2,294.18	2,033.20	260.98	8.791	
11,200.00	9,233.00	17,976.05	9,449.96	58.61	203.60	-179.224	-1,038.86	-2,088.68	2,292.86	2,032.20	260.66	8.796	
11,300.00	9,233.00	17,881.82	9,446.55	60.47	201.45	-179.370	-1,038.04	-2,182.84	2,291.69	2,031.28	260.41	8.800	
11,400.00	9,233.00	17,776.32	9,442.80	62.36	199.04	-179.233	-1,037.30	-2,288.28	2,290.71	2,030.75	259.96	8.812	
11,500.00	9,233.00	17,669.87	9,438.59	64.28	196.62	-179.073	-1,036.10	-2,394.63	2,289.27	2,029.74	259.53	8.821	
11,600.00	9,233.00	17,573.33	9,434.93	66.22	194.42	-179.161	-1,034.97	-2,491.10	2,287.81	2,028.49	259.31	8.823	
11,700.00	9,233.00	17,470.96	9,431.27	68.19	192.08	-179.103	-1,033.82	-2,593.40	2,286.42	2,027.42	259.00	8.828	
11,800.00	9,233.00	17,368.00	9,427.09	70.17	189.74	-179.031	-1,032.48	-2,696.26	2,284.80	2,026.10	258.70	8.832	
11,900.00	9,233.00	17,283.63	9,423.81	72.18	187.82	-179.426	-1,031.59	-2,780.56	2,283.48	2,024.69	258.79	8.824	
12,000.00	9,233.00	17,199.71	9,421.05	74.20	185.91	-179.832	-1,031.32	-2,864.44	2,282.93	2,024.05	258.88	8.818	
12,026.27	9,233.00	17,178.00	9,420.39	74.74	185.42	-179.948	-1,031.34	-2,886.14	2,282.90	2,023.99	258.92	8.817 CC	
12,100.00	9,233.00	17,134.42	9,419.04	76.25	184.43	179.292	-1,031.72	-2,929.70	2,283.39	2,024.07	259.31	8.805	
12,200.00	9,233.00	17,048.76	9,416.30	78.30	182.48	178.930	-1,033.82	-3,015.29	2,285.53	2,026.15	259.38	8.812	
12,300.00	9,233.00	16,918.53	9,416.20	80.37	179.53	179.691	-1,034.94	-3,145.50	2,286.36	2,027.70	258.67	8.839	
12,400.00	9,233.00	16,846.09	9,416.48	82.45	177.88	178.997	-1,035.59	-3,217.93	2,287.45	2,028.48	258.97	8.833	
12,500.00	9,233.00	16,771.47	9,414.82	84.55	176.19	178.359	-1,037.64	-3,292.50	2,290.01	2,030.78	259.23	8.834	
12,600.00	9,233.00	16,669.15	9,412.23	86.66	173.88	178.418	-1,040.74	-3,394.74	2,292.88	2,033.81	259.07	8.851	
12,700.00	9,233.00	16,559.16	9,409.54	88.77	171.39	178.668	-1,043.91	-3,504.65	2,295.63	2,036.84	258.79	8.871	
12,800.00	9,233.00	16,448.10	9,406.33	90.90	168.88	178.945	-1,046.42	-3,615.64	2,297.70	2,039.19	258.51	8.888	
12,900.00	9,233.00	16,357.83	9,403.94	93.03	166.84	178.701	-1,048.41	-3,705.85	2,299.76	2,041.20	258.57	8.894	
13,000.00	9,233.00	16,262.13	9,401.65	95.18	164.68	178.593	-1,050.94	-3,801.49	2,302.28	2,043.74	258.54	8.905	
13,100.00	9,233.00	16,156.12	9,398.89	97.33	162.28	178.743	-1,053.68	-3,907.44	2,304.72	2,046.35	258.36	8.920	
13,200.00	9,233.00	16,063.07	9,396.59	99.48	160.18	178.570	-1,056.00	-4,000.43	2,307.09	2,048.69	258.40	8.928	
13,300.00	9,233.00	15,954.26	9,393.92	101.65	157.73	178.789	-1,058.82	-4,109.17	2,309.56	2,051.37	258.19	8.945	
13,400.00	9,233.00	15,862.32	9,391.53	103.82	155.66	178.589	-1,061.10	-4,201.04	2,311.91	2,053.65	258.26	8.952	
13,500.00	9,233.00	15,749.92	9,388.65	106.00	153.12	178.897	-1,063.79	-4,313.37	2,314.18	2,056.17	258.01	8.969	
13,600.00	9,233.00	15,658.61	9,386.36	108.18	151.07	178.681	-1,065.91	-4,404.64	2,316.39	2,058.29	258.10	8.975	
13,700.00	9,233.00	15,560.33	9,384.98	110.37	148.86	178.639	-1,068.33	-4,502.88	2,318.82	2,060.74	258.08	8.985	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 179-MWD+HRGM — **Rule Assigned:** Distance — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	15,460.93	9,384.13	112.56	146.63	178.625	-1,070.68	-4,602.24	2,321.20	2,063.15	258.05	8.995	
13,900.00	9,233.00	15,387.64	9,383.60	114.76	144.98	177.964	-1,072.83	-4,675.49	2,324.19	2,065.79	258.40	8.995	
14,000.00	9,233.00	15,193.96	9,380.40	116.96	140.64	-179.721	-1,076.58	-4,869.10	2,326.34	2,069.47	256.86	9.057	
14,100.00	9,233.00	15,087.67	9,380.47	119.17	138.25	-179.565	-1,075.83	-4,975.38	2,325.72	2,069.01	256.71	9.060	
14,200.00	9,233.00	15,006.06	9,379.60	121.38	136.42	179.980	-1,075.58	-5,056.99	2,325.43	2,068.41	257.02	9.048	
14,236.63	9,233.00	14,961.40	9,378.63	122.19	135.42	-179.822	-1,075.59	-5,101.63	2,325.41	2,068.54	256.88	9.053	
14,300.00	9,233.00	14,872.98	9,377.79	123.59	133.44	-179.203	-1,075.01	-5,190.05	2,325.04	2,068.64	256.40	9.068	
14,400.00	9,233.00	14,761.53	9,376.77	125.81	130.94	-178.919	-1,072.78	-5,301.47	2,323.02	2,066.85	256.17	9.068	
14,500.00	9,233.00	14,689.24	9,375.61	128.03	129.32	-179.605	-1,071.87	-5,373.74	2,321.75	2,065.06	256.69	9.045	
14,539.58	9,233.00	14,663.49	9,374.75	128.91	128.75	-179.948	-1,071.83	-5,399.48	2,321.64	2,064.69	256.94	9.036	
14,600.00	9,233.00	14,624.60	9,372.87	130.25	127.88	179.518	-1,072.11	-5,438.32	2,321.91	2,064.59	257.32	9.023	
14,700.00	9,233.00	14,485.27	9,367.88	132.48	124.77	-179.511	-1,072.08	-5,577.55	2,321.62	2,064.96	256.66	9.046	
14,800.00	9,233.00	14,386.19	9,365.51	134.71	122.56	-179.535	-1,071.42	-5,676.60	2,320.87	2,064.18	256.69	9.041	
14,900.00	9,233.00	14,281.41	9,362.83	136.94	120.23	-179.417	-1,070.72	-5,781.34	2,320.11	2,063.49	256.63	9.041	
15,000.00	9,233.00	14,171.72	9,360.08	139.18	117.79	-179.178	-1,069.56	-5,890.99	2,318.97	2,062.50	256.47	9.042	
15,100.00	9,233.00	14,079.85	9,357.72	141.41	115.75	-179.380	-1,068.49	-5,982.83	2,317.74	2,061.08	256.66	9.030	
15,200.00	9,233.00	13,986.35	9,355.42	143.65	113.68	-179.541	-1,067.80	-6,076.29	2,316.92	2,060.10	256.82	9.022	
15,300.00	9,233.00	13,886.52	9,353.25	145.90	111.48	-179.546	-1,067.17	-6,176.09	2,316.24	2,059.37	256.87	9.017	
15,400.00	9,233.00	13,765.82	9,351.10	148.14	108.81	-179.033	-1,065.86	-6,296.77	2,315.15	2,058.61	256.53	9.025	
15,500.00	9,233.00	13,668.75	9,348.36	150.39	106.67	-179.107	-1,064.45	-6,393.79	2,313.61	2,056.96	256.65	9.015	
15,600.00	9,233.00	13,575.67	9,346.30	152.63	104.63	-179.279	-1,063.30	-6,486.84	2,312.32	2,055.48	256.84	9.003	
15,700.00	9,233.00	13,471.87	9,344.52	154.88	102.35	-179.185	-1,061.88	-6,590.61	2,310.93	2,054.10	256.84	8.998	
15,800.00	9,233.00	13,393.00	9,343.34	157.14	100.63	-179.710	-1,061.30	-6,669.47	2,310.17	2,052.87	257.30	8.979	
15,900.00	9,233.00	13,296.06	9,342.06	159.39	98.51	-179.786	-1,061.09	-6,766.40	2,309.96	2,052.53	257.43	8.973	
16,000.00	9,233.00	13,191.34	9,341.30	161.65	96.23	-179.669	-1,060.68	-6,871.12	2,309.61	2,052.18	257.44	8.972	
16,100.00	9,233.00	13,076.78	9,341.36	163.90	93.75	-179.307	-1,059.53	-6,985.67	2,308.69	2,051.43	257.26	8.974	
16,200.00	9,233.00	12,982.12	9,341.45	166.16	91.71	-179.440	-1,058.44	-7,080.32	2,307.65	2,050.19	257.46	8.963	
16,300.00	9,233.00	12,878.34	9,341.55	168.42	89.47	-179.345	-1,057.56	-7,184.10	2,306.90	2,049.40	257.50	8.959	
16,400.00	9,233.00	12,774.02	9,341.52	170.68	87.24	-179.238	-1,055.99	-7,288.41	2,305.48	2,047.94	257.54	8.952	
16,500.00	9,233.00	12,679.28	9,341.60	172.95	85.21	-179.368	-1,054.96	-7,383.15	2,304.48	2,046.72	257.77	8.940	
16,600.00	9,233.00	12,538.55	9,342.96	175.21	82.22	-178.353	-1,052.39	-7,523.84	2,302.90	2,045.76	257.14	8.956	
16,700.00	9,233.00	12,405.75	9,345.29	177.47	79.42	-177.534	-1,046.83	-7,656.50	2,298.76	2,042.15	256.61	8.958	
16,800.00	9,233.00	12,314.95	9,347.09	179.74	77.51	-177.762	-1,043.14	-7,747.21	2,294.90	2,037.94	256.96	8.931	
16,900.00	9,233.00	12,232.36	9,348.54	182.01	75.79	-178.197	-1,039.81	-7,829.72	2,291.15	2,033.68	257.48	8.898	
17,000.00	9,233.00	12,163.00	9,347.42	184.28	74.34	-178.965	-1,038.68	-7,899.05	2,289.29	2,031.03	258.25	8.864	
17,039.18	9,233.00	12,163.00	9,347.42	185.17	74.34	-179.948	-1,038.68	-7,899.05	2,288.95	2,029.94	259.01	8.837	
17,100.00	9,233.00	12,136.00	9,346.37	186.55	73.79	179.203	-1,039.10	-7,926.03	2,289.58	2,029.91	259.67	8.817	
17,200.00	9,233.00	12,057.00	9,344.19	188.82	72.16	178.677	-1,041.28	-8,004.96	2,292.10	2,031.90	260.19	8.809	
17,300.00	9,233.00	12,000.30	9,342.76	191.09	71.00	177.594	-1,043.18	-8,061.61	2,295.40	2,034.43	260.98	8.795	
17,400.00	9,233.00	11,937.75	9,339.95	193.36	69.73	176.660	-1,046.60	-8,124.01	2,300.61	2,038.98	261.63	8.793	
17,500.00	9,233.00	11,853.30	9,337.09	195.64	68.03	176.276	-1,052.06	-8,208.22	2,306.94	2,044.90	262.04	8.804	
17,600.00	9,233.00	11,735.40	9,333.77	197.91	65.68	176.725	-1,059.36	-8,325.86	2,313.04	2,050.87	262.17	8.823	
17,700.00	9,233.00	11,614.07	9,331.60	200.19	63.29	177.256	-1,066.02	-8,446.98	2,318.54	2,056.28	262.26	8.840	
17,800.00	9,233.00	11,473.28	9,332.14	202.46	60.54	178.267	-1,071.52	-8,587.65	2,322.56	2,060.42	262.14	8.860	
17,900.00	9,233.00	11,340.63	9,336.20	204.74	58.00	179.072	-1,074.18	-8,720.21	2,324.78	2,062.69	262.09	8.870	
18,000.00	9,233.00	11,195.61	9,338.08	207.02	55.28	-179.817	-1,075.16	-8,865.21	2,325.67	2,063.81	261.87	8.881	
18,100.00	9,233.00	11,090.75	9,338.19	209.29	53.35	-179.697	-1,074.66	-8,970.06	2,325.30	2,063.06	262.24	8.867	
18,200.00	9,233.00	10,993.18	9,337.49	211.57	51.60	-179.757	-1,074.27	-9,067.62	2,324.94	2,062.18	262.76	8.848	
18,300.00	9,233.00	10,895.80	9,337.50	213.85	49.89	-179.822	-1,073.81	-9,165.01	2,324.57	2,061.25	263.32	8.828	
18,329.38	9,233.00	10,871.52	9,337.66	214.52	49.47	-179.948	-1,073.76	-9,189.29	2,324.54	2,060.98	263.55	8.820	
18,400.00	9,233.00	10,827.00	9,338.18	216.13	48.70	179.408	-1,073.77	-9,233.80	2,324.77	2,060.51	264.26	8.797	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOLI Fed Com 1H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 179-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.00	9,233.00	10,758.25	9,337.67	218.42	47.55	178.637	-1,074.73	-9,302.54	2,326.32	2,061.11	265.20	8.772	
18,600.00	9,233.00	10,674.93	9,334.21	220.70	46.18	178.225	-1,077.43	-9,385.74	2,329.37	2,063.36	266.01	8.757	
18,700.00	9,233.00	10,583.23	9,330.25	222.98	44.72	178.020	-1,080.58	-9,477.30	2,332.65	2,065.86	266.79	8.743	
18,800.00	9,233.00	10,493.24	9,325.58	225.26	43.34	177.772	-1,084.17	-9,567.10	2,336.45	2,068.82	267.63	8.730	
18,900.00	9,233.00	10,414.27	9,321.73	227.55	42.18	177.256	-1,087.65	-9,645.89	2,340.73	2,072.15	268.58	8.715	
19,000.00	9,233.00	10,265.43	9,314.59	229.83	40.11	178.449	-1,095.17	-9,794.34	2,346.15	2,076.93	269.22	8.715	
19,100.00	9,233.00	10,104.84	9,314.36	232.12	38.11	179.929	-1,097.94	-9,954.90	2,348.15	2,078.28	269.87	8.701	
19,200.00	9,233.00	9,834.56	9,314.55	234.40	35.35	-175.907	-1,088.45	-10,224.94	2,344.73	2,075.22	269.51	8.700	
19,300.00	9,233.00	9,664.59	9,307.82	236.69	34.09	-174.187	-1,074.05	-10,394.15	2,336.15	2,065.94	270.20	8.646	
19,400.00	9,233.00	9,576.15	9,302.22	238.97	33.61	-174.464	-1,064.95	-10,481.94	2,325.74	2,053.69	272.04	8.549	
19,500.00	9,233.00	9,537.57	9,297.30	241.26	33.45	-175.981	-1,061.97	-10,520.09	2,317.50	2,043.07	274.43	8.445	
19,600.00	9,233.00	9,495.00	9,289.21	243.55	33.29	-177.419	-1,059.99	-10,561.82	2,311.94	2,035.28	276.66	8.357	
19,700.00	9,233.00	9,380.00	9,248.03	245.84	33.00	-177.243	-1,056.05	-10,668.74	2,307.23	2,028.65	278.58	8.282	
19,800.00	9,233.00	9,333.80	9,224.10	248.12	32.91	-178.746	-1,054.84	-10,708.21	2,303.63	2,022.91	280.73	8.206	
19,857.42	9,233.00	9,313.12	9,212.34	249.44	32.88	-179.751	-1,054.70	-10,725.23	2,302.93	2,021.05	281.88	8.170	
19,900.00	9,233.00	9,285.00	9,195.38	250.41	32.83	179.748	-1,054.91	-10,747.65	2,303.16	2,020.48	282.68	8.148 ES	
19,971.26	9,233.00	9,285.00	9,195.38	252.04	32.83	177.976	-1,054.91	-10,747.65	2,304.64	2,020.74	283.90	8.118	
20,000.00	9,233.00	9,285.00	9,195.38	252.70	32.83	177.262	-1,054.91	-10,747.65	2,305.86	2,021.54	284.32	8.110	
20,011.26	9,233.00	9,285.00	9,195.38	252.96	32.83	176.983	-1,054.91	-10,747.65	2,306.44	2,021.96	284.48	8.108 SF	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 135-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
100.00	100.00	19,593.00	9,538.27	0.13	232.57	-164.600	-2,852.16	-785.59	9,922.07	9,816.92	105.15	94.357	
200.00	200.00	19,593.00	9,538.27	0.49	232.57	-164.600	-2,852.16	-785.59	9,826.67	9,721.15	105.52	93.125	
300.00	300.00	19,593.00	9,538.27	0.85	232.57	-164.600	-2,852.16	-785.59	9,731.35	9,625.45	105.91	91.886	
400.00	400.00	19,593.00	9,538.27	1.20	232.57	-164.600	-2,852.16	-785.59	9,636.14	9,529.82	106.31	90.639	
500.00	500.00	19,593.00	9,538.27	1.56	232.57	-164.600	-2,852.16	-785.59	9,541.01	9,434.27	106.74	89.385	
600.00	600.00	19,593.00	9,538.27	1.92	232.57	-164.600	-2,852.16	-785.59	9,445.99	9,338.81	107.19	88.126	
700.00	700.00	19,593.00	9,538.27	2.28	232.57	-164.600	-2,852.16	-785.59	9,351.08	9,243.42	107.66	86.861	
750.00	750.00	19,593.00	9,538.27	2.46	232.57	-164.600	-2,852.16	-785.59	9,303.66	9,195.76	107.90	86.228	
800.00	800.00	19,593.00	9,538.27	2.64	232.57	-164.601	-2,852.16	-785.59	9,256.34	9,148.19	108.14	85.593	
900.00	899.98	19,593.00	9,538.27	3.00	232.57	-164.606	-2,852.16	-785.59	9,162.21	9,053.54	108.67	84.314	
1,000.00	999.92	19,593.00	9,538.27	3.36	232.57	-164.616	-2,852.16	-785.59	9,068.82	8,959.58	109.24	83.020	
1,100.00	1,099.78	19,593.00	9,538.27	3.71	232.57	-164.631	-2,852.16	-785.59	8,976.21	8,866.36	109.85	81.711	
1,200.00	1,199.54	19,593.00	9,538.27	4.07	232.57	-164.650	-2,852.16	-785.59	8,884.44	8,773.92	110.52	80.388	
1,300.00	1,299.16	19,593.00	9,538.27	4.43	232.57	-164.674	-2,852.16	-785.59	8,793.56	8,682.33	111.24	79.051	
1,400.00	1,398.61	19,593.00	9,538.27	4.80	232.57	-164.703	-2,852.16	-785.59	8,703.63	8,591.62	112.01	77.704	
1,500.00	1,497.86	19,593.00	9,538.27	5.17	232.57	-164.737	-2,852.16	-785.59	8,614.71	8,501.88	112.84	76.347	
1,600.00	1,596.89	19,607.64	9,539.15	5.55	232.90	-165.048	-2,853.63	-771.05	8,526.84	8,412.95	113.89	74.872	
1,630.39	1,626.93	19,609.01	9,539.23	5.66	232.93	-165.086	-2,853.77	-769.70	8,500.35	8,386.18	114.18	74.449	
1,700.00	1,695.72	19,612.16	9,539.43	5.93	233.01	-165.172	-2,854.08	-766.57	8,439.88	8,325.01	114.87	73.471	
1,800.00	1,794.54	19,616.72	9,539.70	6.31	233.11	-165.296	-2,854.54	-762.04	8,353.25	8,237.35	115.91	72.069	
1,900.00	1,893.36	19,621.33	9,539.99	6.70	233.22	-165.419	-2,855.00	-757.46	8,266.92	8,149.95	116.97	70.676	
2,000.00	1,992.18	19,625.98	9,540.27	7.09	233.32	-165.543	-2,855.46	-752.84	8,180.90	8,062.84	118.06	69.292	
2,100.00	2,091.01	19,630.69	9,540.56	7.48	233.43	-165.665	-2,855.93	-748.17	8,095.20	7,976.01	119.19	67.917	
2,200.00	2,189.83	19,635.44	9,540.86	7.88	233.54	-165.788	-2,856.40	-743.45	8,009.82	7,889.47	120.35	66.552	
2,300.00	2,288.65	19,640.24	9,541.16	8.27	233.65	-165.910	-2,856.87	-738.68	7,924.79	7,803.24	121.55	65.198	
2,400.00	2,387.47	19,645.08	9,541.46	8.67	233.76	-166.032	-2,857.35	-733.87	7,840.10	7,717.32	122.78	63.856	
2,500.00	2,486.29	19,649.98	9,541.77	9.07	233.87	-166.154	-2,857.83	-729.00	7,755.77	7,631.73	124.04	62.526	
2,600.00	2,585.12	19,654.93	9,542.08	9.47	233.99	-166.276	-2,858.32	-724.09	7,671.81	7,546.47	125.34	61.209	
2,700.00	2,683.94	19,659.93	9,542.40	9.87	234.10	-166.397	-2,858.81	-719.12	7,588.24	7,461.57	126.67	59.905	
2,800.00	2,782.76	19,664.99	9,542.72	10.27	234.22	-166.518	-2,859.30	-714.10	7,505.07	7,377.03	128.04	58.615	
2,900.00	2,881.58	19,670.10	9,543.05	10.67	234.33	-166.640	-2,859.80	-709.03	7,422.30	7,292.86	129.45	57.338	
3,000.00	2,980.40	19,685.00	9,544.02	11.07	234.67	-166.932	-2,861.25	-694.22	7,339.97	7,208.96	131.01	56.024	
3,100.00	3,079.22	19,685.00	9,544.02	11.48	234.67	-166.961	-2,861.25	-694.22	7,258.07	7,125.64	132.43	54.806	
3,200.00	3,178.05	19,685.00	9,544.02	11.88	234.67	-166.989	-2,861.25	-694.22	7,176.62	7,042.73	133.89	53.603	
3,300.00	3,276.87	19,685.00	9,544.02	12.28	234.67	-167.017	-2,861.25	-694.22	7,095.64	6,960.27	135.38	52.414	
3,400.00	3,375.69	19,685.00	9,544.02	12.69	234.67	-167.045	-2,861.25	-694.22	7,015.16	6,878.25	136.91	51.240	
3,500.00	3,474.51	19,685.00	9,544.02	13.09	234.67	-167.073	-2,861.25	-694.22	6,935.19	6,796.71	138.48	50.081	
3,600.00	3,573.33	19,685.00	9,544.02	13.50	234.67	-167.100	-2,861.25	-694.22	6,855.74	6,715.65	140.09	48.939	
3,700.00	3,672.16	19,685.00	9,544.02	13.90	234.67	-167.127	-2,861.25	-694.22	6,776.83	6,635.10	141.74	47.812	
3,800.00	3,770.98	19,685.00	9,544.02	14.31	234.67	-167.154	-2,861.25	-694.22	6,698.49	6,555.06	143.43	46.703	
3,900.00	3,869.80	19,685.00	9,544.02	14.71	234.67	-167.181	-2,861.25	-694.22	6,620.73	6,475.57	145.16	45.610	
4,000.00	3,968.62	19,711.21	9,545.77	15.12	235.27	-167.648	-2,863.85	-668.20	6,543.47	6,396.17	147.30	44.422	
4,100.00	4,067.44	19,714.53	9,545.99	15.53	235.35	-167.728	-2,864.19	-664.91	6,466.91	6,317.74	149.17	43.353	
4,200.00	4,166.26	19,717.87	9,546.22	15.93	235.43	-167.808	-2,864.53	-661.59	6,391.00	6,239.91	151.08	42.302	
4,300.00	4,265.09	19,721.24	9,546.45	16.34	235.50	-167.887	-2,864.88	-658.25	6,315.75	6,162.71	153.04	41.269	
4,400.00	4,363.91	19,724.62	9,546.69	16.74	235.58	-167.966	-2,865.23	-654.89	6,241.19	6,086.15	155.04	40.255	
4,500.00	4,462.73	19,728.03	9,546.92	17.15	235.66	-168.045	-2,865.58	-651.51	6,167.35	6,010.26	157.09	39.260	
4,600.00	4,561.55	19,731.47	9,547.16	17.56	235.74	-168.123	-2,865.94	-648.10	6,094.25	5,935.07	159.19	38.284	
4,700.00	4,660.37	19,734.92	9,547.41	17.97	235.82	-168.201	-2,866.31	-644.67	6,021.92	5,860.60	161.33	37.327	
4,800.00	4,759.20	19,738.40	9,547.65	18.37	235.90	-168.279	-2,866.67	-641.22	5,950.39	5,786.88	163.51	36.390	
4,900.00	4,858.02	19,741.91	9,547.90	18.78	235.98	-168.356	-2,867.05	-637.75	5,879.69	5,713.94	165.75	35.473	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 135-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,956.84	19,745.44	9,548.15	19.19	236.06	-168.434	-2,867.42	-634.25	5,809.84	5,641.81	168.03	34.576	
5,100.00	5,055.66	19,748.99	9,548.41	19.60	236.14	-168.511	-2,867.81	-630.72	5,740.87	5,570.52	170.36	33.699	
5,200.00	5,154.48	19,752.57	9,548.66	20.00	236.22	-168.587	-2,868.19	-627.18	5,672.83	5,500.10	172.73	32.843	
5,300.00	5,253.30	19,777.00	9,550.45	20.41	236.78	-168.997	-2,870.89	-602.96	5,605.82	5,430.34	175.49	31.944	
5,400.00	5,352.13	19,777.00	9,550.45	20.82	236.78	-169.014	-2,870.89	-602.96	5,539.70	5,361.81	177.89	31.141	
5,500.00	5,450.95	19,777.00	9,550.45	21.23	236.78	-169.031	-2,870.89	-602.96	5,474.60	5,294.26	180.34	30.357	
5,600.00	5,549.77	19,777.00	9,550.45	21.63	236.78	-169.048	-2,870.89	-602.96	5,410.57	5,227.74	182.83	29.594	
5,700.00	5,648.59	19,777.00	9,550.45	22.04	236.78	-169.064	-2,870.89	-602.96	5,347.64	5,162.29	185.36	28.851	
5,800.00	5,747.41	19,777.00	9,550.45	22.45	236.78	-169.081	-2,870.89	-602.96	5,285.86	5,097.94	187.92	28.128	
5,900.00	5,846.24	19,777.00	9,550.45	22.86	236.78	-169.097	-2,870.89	-602.96	5,225.26	5,034.73	190.52	27.426	
6,000.00	5,945.06	19,777.00	9,550.45	23.27	236.78	-169.114	-2,870.89	-602.96	5,165.88	4,972.72	193.16	26.745	
6,054.08	5,998.50	19,777.00	9,550.45	23.49	236.78	-169.122	-2,870.89	-602.96	5,134.29	4,939.70	194.59	26.385	
6,100.00	6,043.88	19,777.00	9,550.45	23.68	236.78	-169.133	-2,870.89	-602.96	5,107.75	4,911.92	195.82	26.084	
6,200.00	6,142.71	19,777.00	9,550.45	24.08	236.78	-169.174	-2,870.89	-602.96	5,050.74	4,852.22	198.52	25.443	
6,229.83	6,172.19	19,791.50	9,551.56	24.20	237.11	-169.415	-2,872.52	-588.60	5,033.91	4,834.32	199.59	25.221	
6,300.00	6,241.54	19,793.49	9,551.71	24.49	237.16	-169.489	-2,872.74	-586.62	4,994.88	4,793.33	201.55	24.783	
6,400.00	6,340.36	19,796.41	9,551.94	24.89	237.22	-169.594	-2,873.07	-583.73	4,940.43	4,736.08	204.35	24.176	
6,500.00	6,439.18	19,799.41	9,552.18	25.30	237.29	-169.700	-2,873.41	-580.76	4,887.42	4,680.25	207.17	23.591	
6,600.00	6,538.00	19,802.50	9,552.43	25.71	237.36	-169.807	-2,873.75	-577.70	4,835.90	4,625.88	210.02	23.026	
6,700.00	6,636.82	19,805.68	9,552.69	26.11	237.44	-169.914	-2,874.11	-574.55	4,785.90	4,573.02	212.88	22.482	
6,800.00	6,735.64	19,808.96	9,552.95	26.52	237.51	-170.022	-2,874.47	-571.30	4,737.49	4,521.74	215.75	21.958	
6,900.00	6,834.47	19,812.34	9,553.23	26.93	237.59	-170.130	-2,874.85	-567.95	4,690.70	4,472.08	218.62	21.456	
7,000.00	6,933.29	19,815.83	9,553.52	27.33	237.67	-170.239	-2,875.24	-564.49	4,645.60	4,424.10	221.50	20.974	
7,100.00	7,032.11	19,819.44	9,553.83	27.74	237.75	-170.349	-2,875.64	-560.92	4,602.22	4,377.85	224.37	20.512	
7,200.00	7,130.93	19,823.16	9,554.14	28.15	237.83	-170.460	-2,876.05	-557.24	4,560.61	4,333.38	227.23	20.071	
7,300.00	7,229.75	19,827.00	9,554.47	28.56	237.92	-170.572	-2,876.48	-553.44	4,520.83	4,290.76	230.07	19.650	
7,400.00	7,328.58	19,830.97	9,554.82	28.96	238.01	-170.685	-2,876.92	-549.50	4,482.93	4,250.04	232.89	19.249	
7,500.00	7,427.40	19,835.08	9,555.18	29.37	238.11	-170.799	-2,877.37	-545.43	4,446.94	4,211.26	235.68	18.869	
7,600.00	7,526.22	19,845.00	9,556.07	29.78	238.33	-170.997	-2,878.47	-535.62	4,412.93	4,174.37	238.55	18.499	
7,700.00	7,625.04	19,845.00	9,556.07	30.18	238.33	-171.050	-2,878.47	-535.62	4,380.92	4,139.75	241.17	18.165	
7,800.00	7,723.86	19,849.38	9,556.46	30.59	238.43	-171.165	-2,878.95	-531.28	4,350.97	4,107.14	243.83	17.845	
7,900.00	7,822.68	19,855.47	9,557.01	31.00	238.57	-171.304	-2,879.62	-525.26	4,323.12	4,076.66	246.46	17.541	
8,000.00	7,921.51	19,861.55	9,557.57	31.41	238.71	-171.443	-2,880.30	-519.23	4,297.41	4,048.38	249.02	17.257	
8,100.00	8,020.33	19,867.64	9,558.12	31.82	238.85	-171.580	-2,880.97	-513.21	4,273.87	4,022.36	251.51	16.993	
8,200.00	8,119.15	19,873.72	9,558.67	32.22	238.99	-171.716	-2,881.64	-507.19	4,252.55	3,998.63	253.92	16.747	
8,300.00	8,217.97	19,879.81	9,559.22	32.63	239.13	-171.851	-2,882.31	-501.17	4,233.47	3,977.23	256.24	16.521	
8,400.00	8,316.79	19,885.89	9,559.77	33.04	239.27	-171.985	-2,882.98	-495.15	4,216.67	3,958.21	258.47	16.314	
8,500.00	8,415.62	19,891.97	9,560.32	33.45	239.41	-172.118	-2,883.65	-489.12	4,202.18	3,941.59	260.59	16.126	
8,600.00	8,514.44	19,892.00	9,560.33	33.85	239.41	-172.165	-2,883.65	-489.10	4,190.02	3,927.55	262.46	15.964	
8,700.00	8,613.26	19,892.00	9,560.33	34.26	239.41	-172.211	-2,883.65	-489.10	4,180.21	3,915.99	264.22	15.821	
8,761.09	8,673.63	19,892.00	9,560.33	34.51	239.41	-172.239	-2,883.65	-489.10	4,175.39	3,910.15	265.24	15.742	
8,800.00	8,712.04	19,892.00	9,560.33	34.67	239.41	-172.275	-2,883.65	-489.10	4,172.62	3,906.75	265.86	15.695	
8,850.00	8,761.06	19,892.00	9,560.33	34.87	239.41	-172.375	-2,883.65	-489.10	4,169.09	3,902.45	266.64	15.636	
8,900.00	8,809.36	19,892.00	9,560.33	35.06	239.41	-172.534	-2,883.65	-489.10	4,165.65	3,898.26	267.39	15.579	
8,950.00	8,856.58	19,888.57	9,560.02	35.24	239.33	-172.703	-2,883.28	-492.49	4,162.30	3,894.29	268.01	15.530	
9,000.00	8,902.35	19,873.34	9,558.63	35.41	238.98	-172.764	-2,881.60	-507.56	4,159.05	3,890.72	268.33	15.500	
9,050.00	8,946.33	19,854.06	9,556.89	35.58	238.54	-172.823	-2,879.47	-526.65	4,155.85	3,887.35	268.50	15.478	
9,100.00	8,988.19	19,831.10	9,554.83	35.73	238.02	-172.883	-2,876.93	-549.37	4,152.69	3,884.14	268.56	15.463	
9,150.00	9,027.59	19,804.23	9,552.57	35.88	237.40	-172.937	-2,873.94	-575.98	4,149.53	3,881.05	268.48	15.456	
9,200.00	9,064.25	19,777.00	9,550.45	36.02	236.78	-173.032	-2,870.89	-602.96	4,146.30	3,877.94	268.36	15.451	
9,250.00	9,097.89	19,755.26	9,548.86	36.15	236.28	-173.245	-2,868.48	-624.51	4,143.04	3,874.70	268.34	15.440	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 135-MWD+HRGM

Offset Well Error: 0.00 usft

Rule Assigned: Distance

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.00	9,128.24	19,733.82	9,547.33	36.27	235.79	-173.500	-2,866.19	-645.77	4,139.75	3,871.45	268.29	15.430	
9,350.00	9,155.08	19,710.77	9,545.74	36.40	235.26	-173.767	-2,863.81	-668.64	4,136.42	3,868.23	268.19	15.423	
9,400.00	9,178.21	19,687.53	9,544.18	36.53	234.73	-174.061	-2,861.50	-691.71	4,133.03	3,864.96	268.07	15.418	
9,450.00	9,197.44	19,636.00	9,540.89	36.67	233.55	-173.987	-2,856.45	-742.88	4,129.43	3,862.14	267.30	15.449	
9,500.00	9,212.64	19,593.00	9,538.27	36.83	232.57	-174.051	-2,852.16	-785.59	4,125.47	3,858.76	266.71	15.468	
9,550.00	9,223.67	19,549.64	9,535.85	37.02	231.57	-174.126	-2,847.86	-828.67	4,121.21	3,855.10	266.11	15.487	
9,600.00	9,230.48	19,512.43	9,534.01	37.23	230.72	-174.296	-2,844.27	-865.66	4,116.76	3,851.11	265.65	15.497	
9,654.13	9,233.00	19,470.57	9,532.16	37.50	229.76	-174.464	-2,840.32	-907.30	4,111.72	3,846.61	265.11	15.510	
9,700.00	9,233.00	19,434.57	9,530.65	37.77	228.94	-174.600	-2,837.02	-943.11	4,107.40	3,842.75	264.65	15.520	
9,800.00	9,233.00	19,370.85	9,528.06	38.46	227.48	-175.103	-2,831.45	-1,006.53	4,098.48	3,834.44	264.04	15.522	
9,900.00	9,233.00	19,313.43	9,525.35	39.30	226.16	-175.697	-2,827.08	-1,063.72	4,090.59	3,826.93	263.66	15.514	
10,000.00	9,233.00	19,199.63	9,518.89	40.29	223.56	-175.502	-2,818.95	-1,177.05	4,083.12	3,820.90	262.22	15.571	
10,100.00	9,233.00	19,060.15	9,512.48	41.39	220.37	-174.943	-2,807.76	-1,315.92	4,074.82	3,814.49	260.33	15.653	
10,200.00	9,233.00	18,947.00	9,510.65	42.60	217.78	-174.752	-2,797.55	-1,428.59	4,065.77	3,806.71	259.06	15.694	
10,300.00	9,233.00	18,890.26	9,510.22	43.90	216.48	-175.359	-2,792.59	-1,485.11	4,057.16	3,798.09	259.07	15.660	
10,400.00	9,233.00	18,831.36	9,509.22	45.30	215.13	-175.938	-2,788.28	-1,543.85	4,049.77	3,790.67	259.10	15.630	
10,500.00	9,233.00	18,763.00	9,508.80	46.76	213.57	-176.384	-2,783.60	-1,612.04	4,043.05	3,784.08	258.97	15.612	
10,600.00	9,233.00	18,670.00	9,509.95	48.30	211.45	-176.481	-2,777.75	-1,704.85	4,036.96	3,778.55	258.40	15.623	
10,700.00	9,233.00	18,617.52	9,511.11	49.89	210.25	-177.156	-2,774.86	-1,757.24	4,031.62	3,772.94	258.68	15.585	
10,800.00	9,233.00	18,552.95	9,512.51	51.55	208.78	-177.660	-2,771.84	-1,821.72	4,027.21	3,768.46	258.75	15.564	
10,900.00	9,233.00	18,486.00	9,513.67	53.25	207.25	-178.131	-2,769.30	-1,888.61	4,023.65	3,764.85	258.81	15.547	
11,000.00	9,233.00	18,448.57	9,513.84	55.00	206.40	-179.025	-2,768.36	-1,926.03	4,021.27	3,761.87	259.41	15.502	
11,100.00	9,233.00	18,393.00	9,512.70	56.79	205.14	-179.660	-2,768.14	-1,981.59	4,020.54	3,760.85	259.70	15.482	
11,120.14	9,233.00	18,393.00	9,512.70	57.15	205.14	-179.948	-2,768.14	-1,981.59	4,020.49	3,760.55	259.94	15.467	
11,200.00	9,233.00	18,366.30	9,511.29	58.61	204.54	179.292	-2,768.49	-2,008.25	4,021.11	3,760.66	260.45	15.439	
11,300.00	9,233.00	18,301.00	9,503.96	60.47	203.08	178.790	-2,770.38	-2,073.08	4,023.12	3,762.49	260.62	15.436	
11,400.00	9,233.00	18,252.00	9,496.51	62.36	202.00	178.054	-2,772.39	-2,121.47	4,026.07	3,765.03	261.04	15.423	
11,500.00	9,233.00	18,210.00	9,490.70	64.28	201.07	177.223	-2,774.66	-2,163.00	4,030.40	3,768.88	261.53	15.411	
11,600.00	9,233.00	18,179.97	9,487.23	66.22	200.41	176.226	-2,776.75	-2,192.76	4,036.33	3,774.22	262.11	15.399	
11,700.00	9,233.00	18,117.00	9,482.26	68.19	199.02	175.700	-2,781.76	-2,255.33	4,043.69	3,781.40	262.29	15.417	
11,800.00	9,233.00	17,706.51	9,478.03	70.17	189.81	-179.892	-2,793.40	-2,665.37	4,043.78	3,785.98	257.80	15.686	
11,900.00	9,233.00	17,570.32	9,475.39	72.18	186.73	-179.379	-2,793.14	-2,801.54	4,043.66	3,786.69	256.97	15.736	
12,000.00	9,233.00	17,469.11	9,473.05	74.20	184.45	-179.362	-2,792.03	-2,902.71	4,042.50	3,785.76	256.73	15.746	
12,100.00	9,233.00	17,385.24	9,470.80	76.25	182.55	-179.591	-2,791.41	-2,986.55	4,041.67	3,784.88	256.79	15.739	
12,200.00	9,233.00	17,277.12	9,468.66	78.30	180.12	-179.476	-2,790.77	-3,094.65	4,041.04	3,784.58	256.47	15.757	
12,300.00	9,233.00	17,188.86	9,466.84	80.37	178.13	-179.643	-2,790.17	-3,182.89	4,040.33	3,783.85	256.48	15.753	
12,400.00	9,233.00	17,092.93	9,464.58	82.45	175.97	-179.702	-2,789.80	-3,278.79	4,039.88	3,783.50	256.38	15.757	
12,458.92	9,233.00	17,051.32	9,463.60	83.69	175.03	-179.948	-2,789.70	-3,320.38	4,039.71	3,783.15	256.57	15.745	
12,500.00	9,233.00	17,027.07	9,462.96	84.55	174.49	179.813	-2,789.77	-3,344.63	4,039.80	3,783.03	256.77	15.733	
12,600.00	9,233.00	16,981.00	9,461.60	86.66	173.45	179.046	-2,790.19	-3,390.67	4,040.76	3,783.32	257.44	15.696	
12,700.00	9,233.00	16,887.00	9,460.47	88.77	171.35	178.961	-2,791.94	-3,484.65	4,042.63	3,785.23	257.40	15.706	
12,800.00	9,233.00	16,821.27	9,460.26	90.90	169.89	178.475	-2,793.63	-3,550.36	4,045.16	3,787.39	257.76	15.693	
12,900.00	9,233.00	16,728.29	9,458.60	93.03	167.81	178.376	-2,796.31	-3,643.27	4,048.01	3,790.25	257.76	15.705	
13,000.00	9,233.00	16,628.02	9,457.63	95.18	165.58	178.380	-2,799.23	-3,743.50	4,050.94	3,793.29	257.66	15.722	
13,100.00	9,233.00	16,515.09	9,455.27	97.33	163.07	178.563	-2,802.42	-3,856.37	4,053.73	3,796.34	257.39	15.749	
13,200.00	9,233.00	16,434.31	9,453.42	99.48	161.28	178.291	-2,804.73	-3,937.08	4,056.54	3,798.96	257.58	15.749	
13,300.00	9,233.00	16,323.46	9,449.88	101.65	158.82	178.445	-2,808.21	-4,047.82	4,059.57	3,802.21	257.36	15.774	
13,400.00	9,233.00	16,207.66	9,444.20	103.82	156.25	178.667	-2,811.41	-4,163.44	4,062.12	3,805.02	257.09	15.800	
13,500.00	9,233.00	16,117.15	9,440.40	106.00	154.25	178.532	-2,813.85	-4,253.83	4,064.65	3,807.47	257.18	15.805	
13,600.00	9,233.00	16,024.79	9,439.92	108.18	152.21	178.424	-2,816.34	-4,346.15	4,067.40	3,810.17	257.23	15.812	
13,700.00	9,233.00	15,923.44	9,439.08	110.37	149.97	178.444	-2,819.18	-4,447.45	4,070.24	3,813.07	257.17	15.827	

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Surveys

Offset Site Error: 0.00 usft

Survey Program: 135-MWD+HRGM

Rule Assigned: Distance

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	9,233.00	15,816.75	9,436.34	112.56	147.62	178.538	-2,822.11	-4,554.07	4,072.92	3,815.88	257.04	15.845	
13,900.00	9,233.00	15,713.20	9,433.92	114.76	145.33	178.588	-2,824.90	-4,657.55	4,075.57	3,818.61	256.97	15.860	
14,000.00	9,233.00	15,594.71	9,431.51	116.96	142.72	178.849	-2,827.69	-4,775.98	4,077.90	3,821.21	256.69	15.887	
14,100.00	9,233.00	15,496.75	9,429.63	119.17	140.57	178.820	-2,829.72	-4,873.90	4,079.95	3,823.25	256.70	15.894	
14,200.00	9,233.00	15,385.64	9,427.13	121.38	138.13	178.976	-2,832.07	-4,984.96	4,082.04	3,825.51	256.54	15.912	
14,300.00	9,233.00	15,246.65	9,422.86	123.59	135.08	179.523	-2,834.33	-5,123.87	4,083.64	3,827.66	255.98	15.953	
14,400.00	9,233.00	15,111.29	9,419.28	125.81	132.11	-179.981	-2,834.66	-5,259.18	4,083.73	3,828.27	255.46	15.986	
14,500.00	9,233.00	14,991.55	9,415.78	128.03	129.48	-179.704	-2,834.60	-5,378.86	4,083.63	3,828.47	255.17	16.004	
14,600.00	9,233.00	14,856.11	9,414.16	130.25	126.51	-179.206	-2,832.83	-5,514.28	4,082.21	3,827.58	254.62	16.032	
14,700.00	9,233.00	14,786.39	9,413.27	132.48	124.99	-179.632	-2,832.22	-5,583.99	4,081.33	3,826.22	255.11	15.998	
14,800.00	9,233.00	14,695.37	9,411.80	134.71	123.00	-179.758	-2,831.86	-5,675.00	4,080.94	3,825.67	255.27	15.987	
14,900.00	9,233.00	14,576.35	9,410.25	136.94	120.41	-179.491	-2,831.07	-5,794.01	4,080.28	3,825.28	255.01	16.001	
15,000.00	9,233.00	14,476.41	9,409.07	139.18	118.24	-179.492	-2,830.24	-5,893.94	4,079.49	3,824.45	255.04	15.995	
15,100.00	9,233.00	14,377.07	9,407.62	141.41	116.09	-179.501	-2,829.44	-5,993.26	4,078.70	3,823.60	255.09	15.989	
15,200.00	9,233.00	14,263.21	9,405.87	143.65	113.62	-179.306	-2,828.43	-6,107.10	4,077.84	3,822.91	254.93	15.996	
15,300.00	9,233.00	14,187.85	9,404.76	145.90	112.00	-179.653	-2,827.67	-6,182.45	4,076.89	3,821.53	255.36	15.965	
15,354.94	9,233.00	14,153.86	9,404.29	147.13	111.27	-179.948	-2,827.58	-6,216.44	4,076.75	3,821.04	255.71	15.943	
15,400.00	9,233.00	14,125.98	9,403.91	148.14	110.68	179.810	-2,827.63	-6,244.32	4,076.84	3,820.86	255.99	15.926	
15,500.00	9,233.00	14,018.96	9,402.63	150.39	108.39	179.909	-2,828.46	-6,351.33	4,077.68	3,821.73	255.95	15.931	
15,600.00	9,233.00	13,853.27	9,401.01	152.63	104.85	-179.167	-2,827.31	-6,516.99	4,076.97	3,821.93	255.04	15.986	
15,700.00	9,233.00	13,749.00	9,399.79	154.88	102.63	-179.107	-2,825.72	-6,621.25	4,075.48	3,820.43	255.05	15.979	
15,800.00	9,233.00	13,670.00	9,399.15	157.14	100.96	-179.402	-2,824.78	-6,700.24	4,074.33	3,818.87	255.46	15.949	
15,900.00	9,233.00	13,592.14	9,398.48	159.39	99.32	-179.714	-2,824.27	-6,778.10	4,073.71	3,817.81	255.90	15.919	
15,996.35	9,233.00	13,512.37	9,397.19	161.56	97.64	-179.948	-2,824.10	-6,857.85	4,073.51	3,817.27	256.24	15.897	
16,000.00	9,233.00	13,509.35	9,397.13	161.65	97.58	-179.957	-2,824.10	-6,860.87	4,073.51	3,817.26	256.25	15.896	
16,100.00	9,233.00	13,388.19	9,394.68	163.90	95.05	-179.659	-2,823.97	-6,982.01	4,073.43	3,817.36	256.06	15.908	
16,200.00	9,233.00	12,872.20	9,372.52	166.16	84.33	-173.808	-2,798.19	-7,496.40	4,070.40	3,821.42	248.97	16.349	
16,300.00	9,233.00	12,836.00	9,370.52	168.42	83.57	-174.702	-2,794.62	-7,532.37	4,060.45	3,810.07	250.38	16.217	
16,400.00	9,233.00	12,742.00	9,366.09	170.68	81.64	-174.783	-2,786.24	-7,625.89	4,051.43	3,800.76	250.66	16.163	
16,500.00	9,233.00	12,698.41	9,365.18	172.95	80.75	-175.577	-2,782.68	-7,669.32	4,043.19	3,791.29	251.90	16.051	
16,600.00	9,233.00	12,647.00	9,366.21	175.21	79.70	-176.264	-2,779.01	-7,720.58	4,036.19	3,783.24	252.95	15.956	
16,700.00	9,233.00	12,647.00	9,366.21	177.47	79.70	-177.684	-2,779.01	-7,720.58	4,031.01	3,776.16	254.84	15.818	
16,800.00	9,233.00	12,556.82	9,370.17	179.74	77.90	-177.824	-2,774.23	-7,810.55	4,026.10	3,770.90	255.20	15.776	
16,900.00	9,233.00	12,510.92	9,372.31	182.01	76.99	-178.595	-2,772.71	-7,856.36	4,023.07	3,766.82	256.25	15.700	
17,000.00	9,233.00	12,458.00	9,374.90	184.28	75.94	-179.267	-2,771.71	-7,909.22	4,021.40	3,764.23	257.17	15.637	
17,100.00	9,233.00	12,386.77	9,378.16	186.55	74.55	-179.678	-2,771.05	-7,980.37	4,020.70	3,762.90	257.81	15.596	
17,141.66	9,233.00	12,364.00	9,379.08	187.49	74.11	-179.948	-2,770.89	-8,003.12	4,020.56	3,762.39	258.17	15.573	
17,200.00	9,233.00	12,364.00	9,379.08	188.82	74.11	179.220	-2,770.89	-8,003.12	4,020.99	3,761.89	259.09	15.520	
17,300.00	9,233.00	12,300.01	9,380.53	191.09	72.90	178.707	-2,771.40	-8,067.09	4,022.31	3,762.50	259.81	15.482	
17,400.00	9,233.00	12,269.00	9,380.48	193.36	72.31	177.724	-2,772.31	-8,098.08	4,025.45	3,764.56	260.89	15.430	
17,500.00	9,233.00	12,175.00	9,381.56	195.64	70.58	177.640	-2,776.05	-8,191.99	4,029.57	3,768.32	261.25	15.424	
17,600.00	9,233.00	12,102.30	9,383.42	197.91	69.26	177.252	-2,779.35	-8,264.60	4,034.26	3,772.40	261.86	15.406	
17,700.00	9,233.00	12,040.58	9,384.05	200.19	68.16	176.710	-2,782.49	-8,326.23	4,039.53	3,776.96	262.57	15.384	
17,800.00	9,233.00	11,986.00	9,383.39	202.46	67.20	176.069	-2,785.98	-8,380.69	4,045.93	3,782.58	263.35	15.363	
17,900.00	9,233.00	9,195.00	9,018.09	204.74	38.37	-148.785	-2,203.73	-10,848.48	4,038.27	3,823.77	214.50	18.827	
18,000.00	9,233.00	9,195.00	9,018.09	207.02	38.37	-150.016	-2,203.73	-10,848.48	3,987.50	3,769.13	218.37	18.260	
18,100.00	9,233.00	9,195.00	9,018.09	209.29	38.37	-151.278	-2,203.73	-10,848.48	3,938.61	3,716.35	222.26	17.721	
18,200.00	9,233.00	9,195.00	9,018.09	211.57	38.37	-152.572	-2,203.73	-10,848.48	3,891.67	3,665.51	226.16	17.208	
18,300.00	9,233.00	9,195.00	9,018.09	213.85	38.37	-153.896	-2,203.73	-10,848.48	3,846.76	3,616.70	230.06	16.721	
18,400.00	9,233.00	9,195.00	9,018.09	216.13	38.37	-155.251	-2,203.73	-10,848.48	3,803.96	3,570.00	233.96	16.259	
18,500.00	9,233.00	9,155.82	8,981.83	218.42	38.24	-156.415	-2,195.14	-10,860.55	3,762.19	3,524.88	237.31	15.854	

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

MS Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Offset Design: Ted Paup 3231 Fed Com (Offsets) - Normandy 31-32 WOMP Fed Com 1H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 135-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

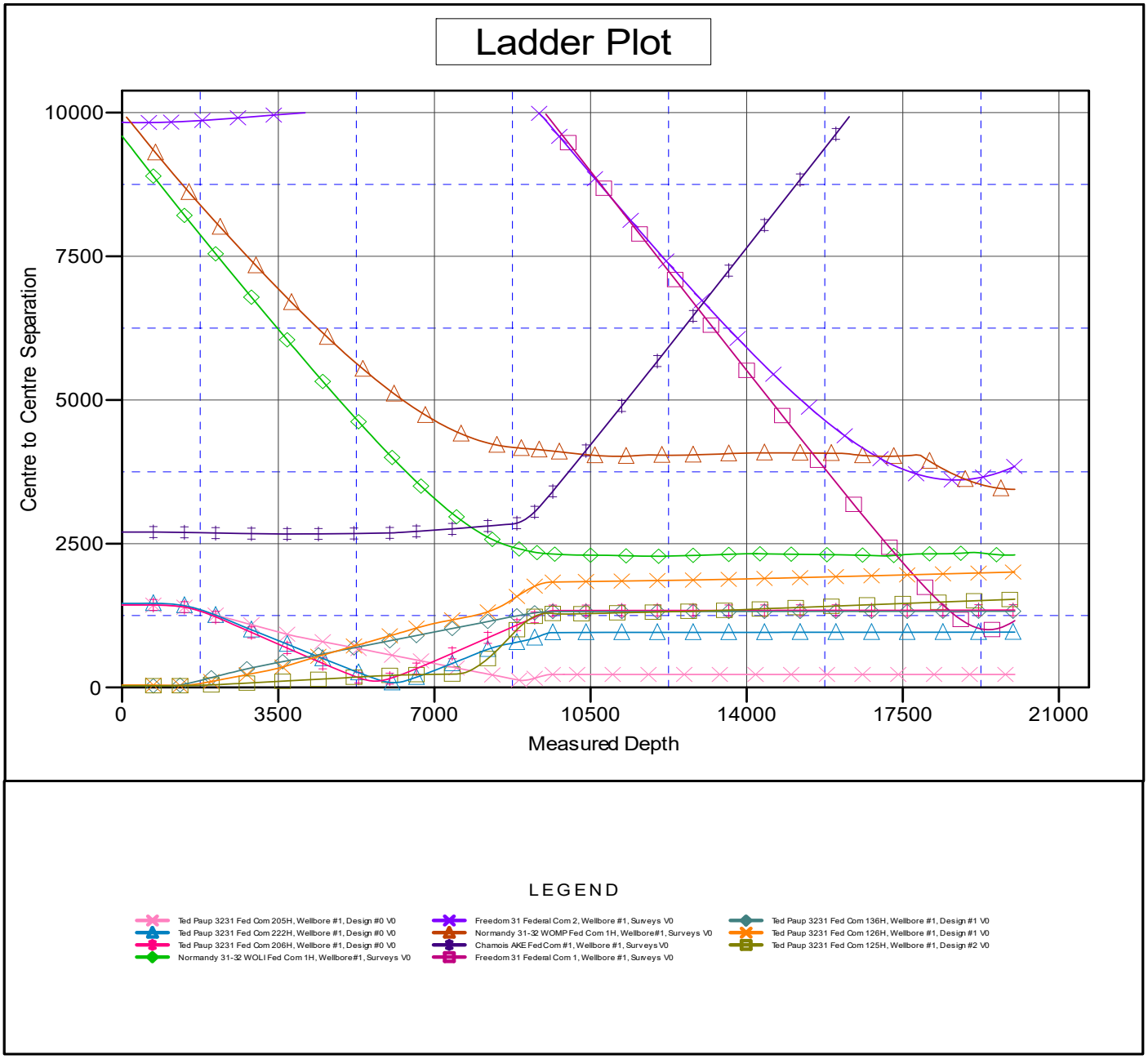
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	9,233.00	9,150.52	8,976.86	220.70	38.22	-157.800	-2,194.16	-10,862.12	3,723.44	3,482.33	241.10	15.443	
18,700.00	9,233.00	9,145.33	8,971.99	222.98	38.20	-159.215	-2,193.24	-10,863.63	3,686.95	3,442.09	244.86	15.057	
18,800.00	9,233.00	9,140.26	8,967.20	225.26	38.19	-160.659	-2,192.39	-10,865.10	3,652.79	3,404.22	248.57	14.695	
18,900.00	9,233.00	9,100.00	8,928.88	227.55	38.05	-161.962	-2,187.01	-10,876.17	3,622.03	3,370.24	251.79	14.385	
19,000.00	9,233.00	9,100.00	8,928.88	229.83	38.05	-163.484	-2,187.01	-10,876.17	3,592.50	3,337.06	255.44	14.064	
19,100.00	9,233.00	9,100.00	8,928.88	232.12	38.05	-165.029	-2,187.01	-10,876.17	3,565.53	3,306.53	259.01	13.766	
19,200.00	9,233.00	9,100.00	8,928.88	234.40	38.05	-166.598	-2,187.01	-10,876.17	3,541.18	3,278.71	262.47	13.492	
19,300.00	9,233.00	9,100.00	8,928.88	236.69	38.05	-168.187	-2,187.01	-10,876.17	3,519.51	3,253.69	265.81	13.240	
19,400.00	9,233.00	9,100.00	8,928.88	238.97	38.05	-169.794	-2,187.01	-10,876.17	3,500.55	3,231.52	269.03	13.012	
19,500.00	9,233.00	9,100.00	8,928.88	241.26	38.05	-171.418	-2,187.01	-10,876.17	3,484.37	3,212.26	272.11	12.805	
19,600.00	9,233.00	9,100.00	8,928.88	243.55	38.05	-173.055	-2,187.01	-10,876.17	3,470.99	3,195.95	275.04	12.620	
19,700.00	9,233.00	9,100.00	8,928.88	245.84	38.05	-174.705	-2,187.01	-10,876.17	3,460.45	3,182.65	277.80	12.457	
19,800.00	9,233.00	9,100.00	8,928.88	248.12	38.05	-176.362	-2,187.01	-10,876.17	3,452.78	3,172.39	280.39	12.314	
19,900.00	9,233.00	9,100.00	8,928.88	250.41	38.05	-178.026	-2,187.01	-10,876.17	3,447.99	3,165.20	282.79	12.193	
19,971.26	9,233.00	9,100.00	8,928.88	252.04	38.05	-179.214	-2,187.01	-10,876.17	3,446.34	3,161.95	284.39	12.118	
20,000.00	9,233.00	9,100.00	8,928.88	252.70	38.05	-179.693	-2,187.01	-10,876.17	3,446.10	3,161.09	285.01	12.091	
20,011.26	9,233.00	9,100.00	8,928.88	252.96	38.05	-179.881	-2,187.01	-10,876.17	3,446.06	3,160.82	285.24	12.081	CC, ES, SF

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

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3291.50usft (Patterson 297) Coordinates are relative to: Ted Paup 3231 Fed Com 135H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30(
Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.133°

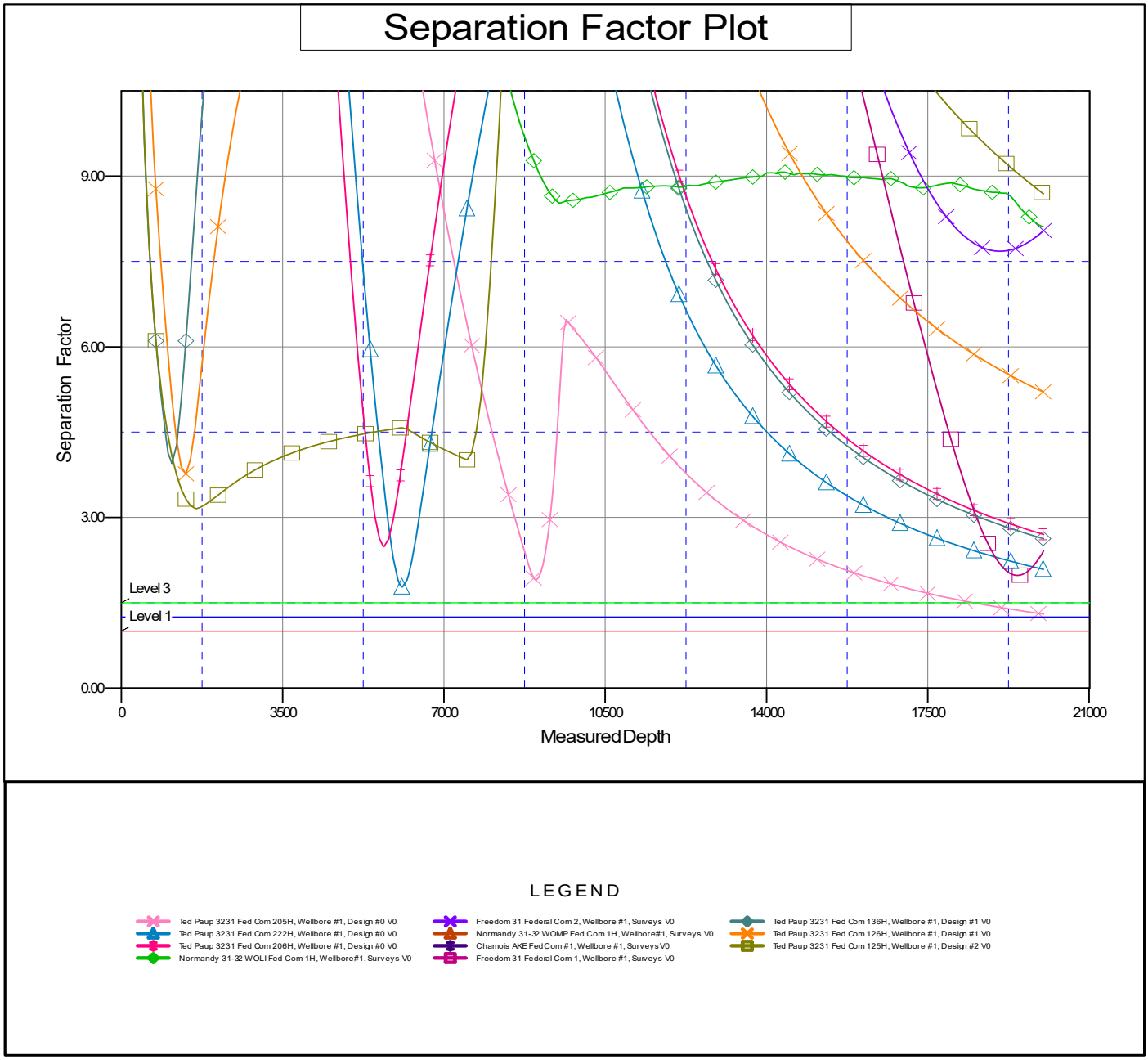


CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

MS Directional
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Reference Site:	Ted Paup 3231 Fed Com (125H, 126H, 135H, 136H)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.1 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3291.50usft (Patterson 297) Coordinates are relative to: Ted Paup 3231 Fed Com 135H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30(
Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.133°



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

Received by OCD: 5/13/2021 10:10:17 AM

Company: Matador Resources
Well: Ted Paup 3231 Fed Com 135H
County: Eddy County, New Mexico (NAD 27)
Rig: Patterson 297
Wellbore: Wellbore #1
Design: Design #1
Date: 17:12, February 24 2021

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

To convert a Magnetic Direction to a Grid Direction, Add 6.917°
To convert a Magnetic Direction to a True Direction, Add 7.050° East
To convert a True Direction to a Grid Direction, Subtract 0.133°

Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.92°

Magnetic Field
Strength: 47780.1nT
Dip Angle: 60.22°
Date: 4/1/2021
Model: HDGM2021

MS Directional

WELL DETAILS: Ted Paup 3231 Fed Com 135H

GL @ 3263.00 WELL @ 3291.50usft (Patterson 297)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	557145.00	575989.00	32° 31' 53.252 N	104° 5' 12.375 W

SECTION DETAILS

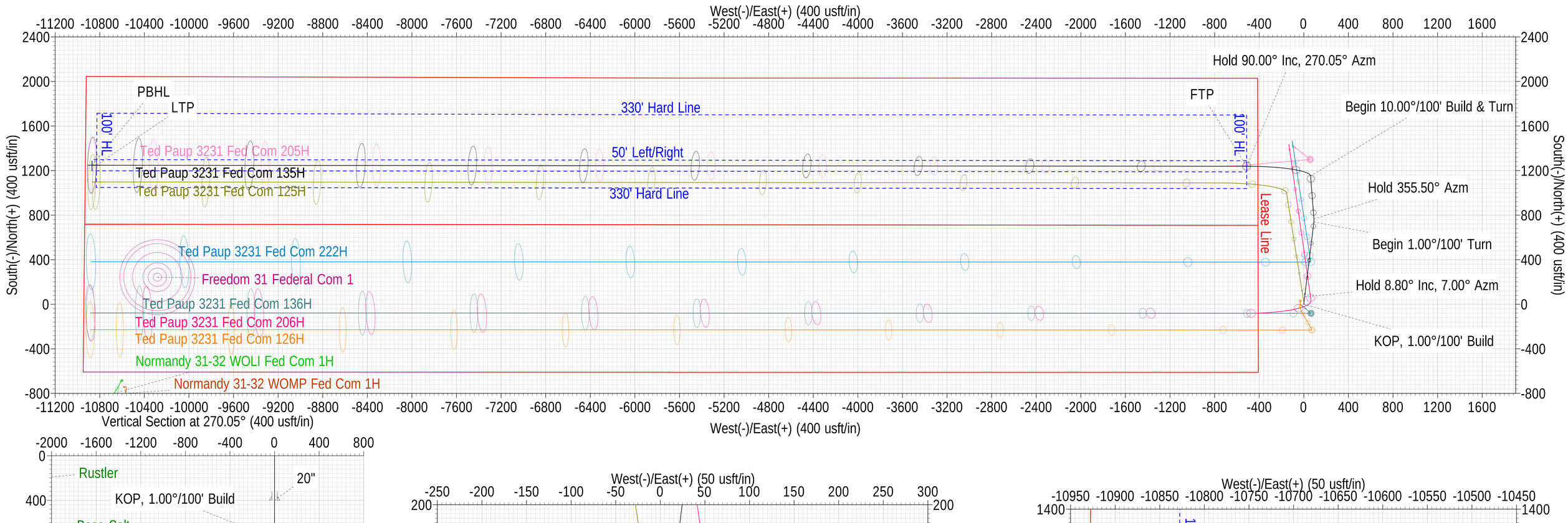
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
1630.39	8.80	7.00	1626.93	67.00	8.23	1.00	7.000	-8.17	Hold 8.80° Inc, 7.00° Azm
6054.08	8.80	7.00	5998.50	739.02	90.74	0.00	0.000	-90.09	Begin 1.00°/100' Turn
6229.83	8.80	355.50	6172.19	765.78	91.32	1.00	-95.685	-90.65	Hold 355.50° Azm
8761.09	8.80	355.50	8673.63	1152.00	60.91	0.00	0.000	-59.91	Begin 10.00°/100' Build & Turn
9654.13	90.00	270.05	9233.00	1238.88	-511.92	10.00	-85.499	513.00	Hold 90.00° Inc, 270.05° Azm
19971.26	90.00	270.05	9233.00	1248.29	-10829.05	0.00	0.000	10830.14	LTP
20011.26	90.00	270.05	9233.00	1248.32	-10869.05	0.00	0.000	10870.14	PBHL

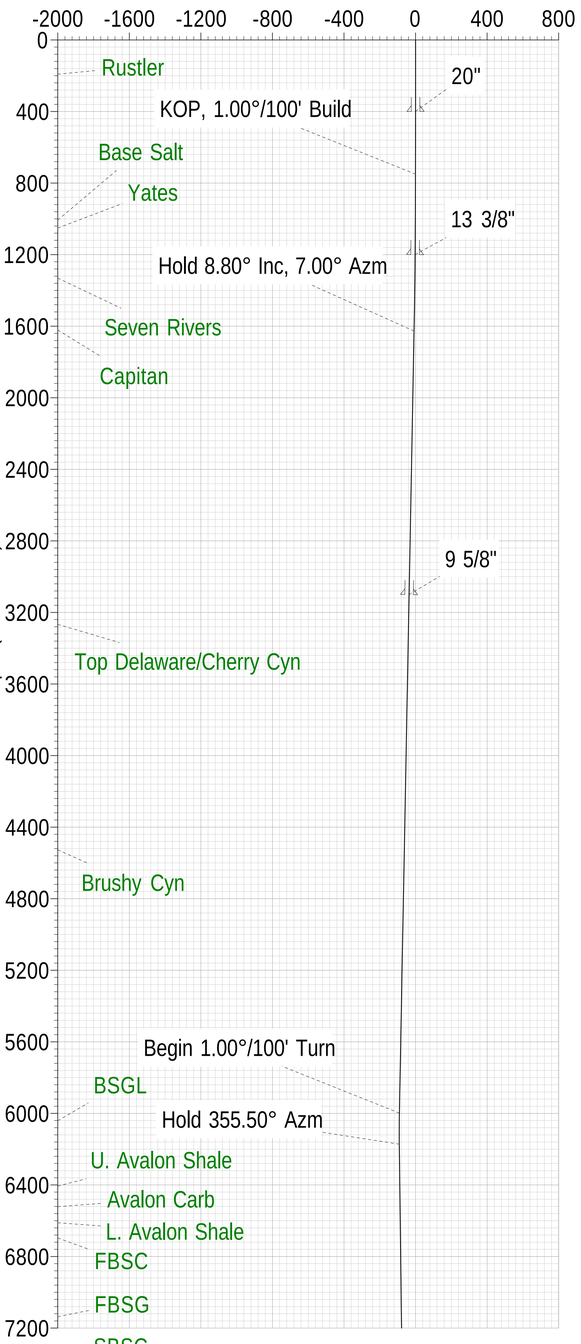
DESIGN TARGET DETAILS

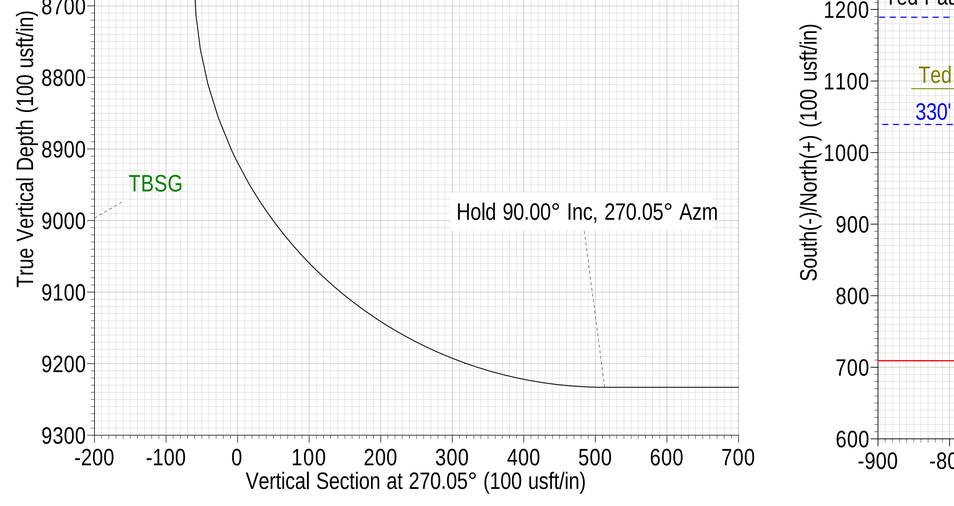
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP	9233.00	1238.88	-511.92	558383.88	575477.08	32° 32' 5.523 N	104° 5' 18.322 W
LTP	9233.00	1248.29	-10829.05	558393.29	565159.95	32° 32' 5.835 N	104° 7' 18.839 W
PBHL	9233.00	1248.31	-10869.05	558393.31	565119.95	32° 32' 5.836 N	104° 7' 19.307 W

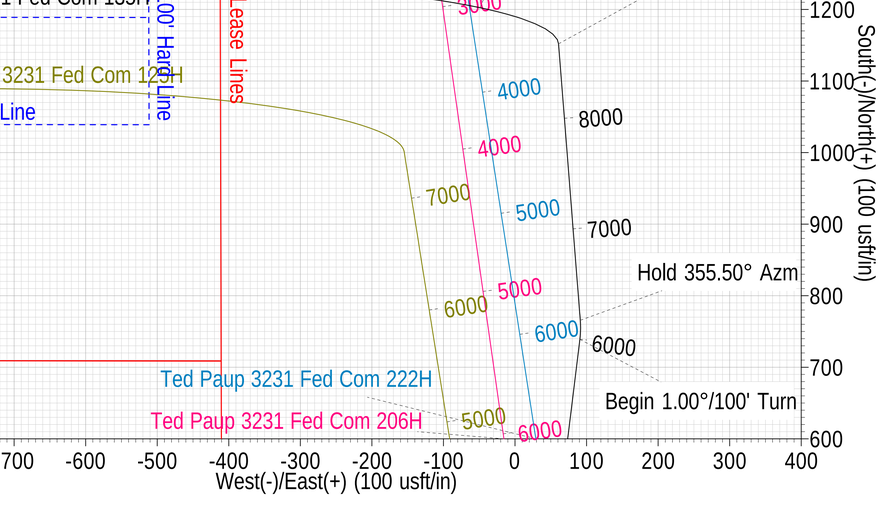
SURVEY PROGRAM

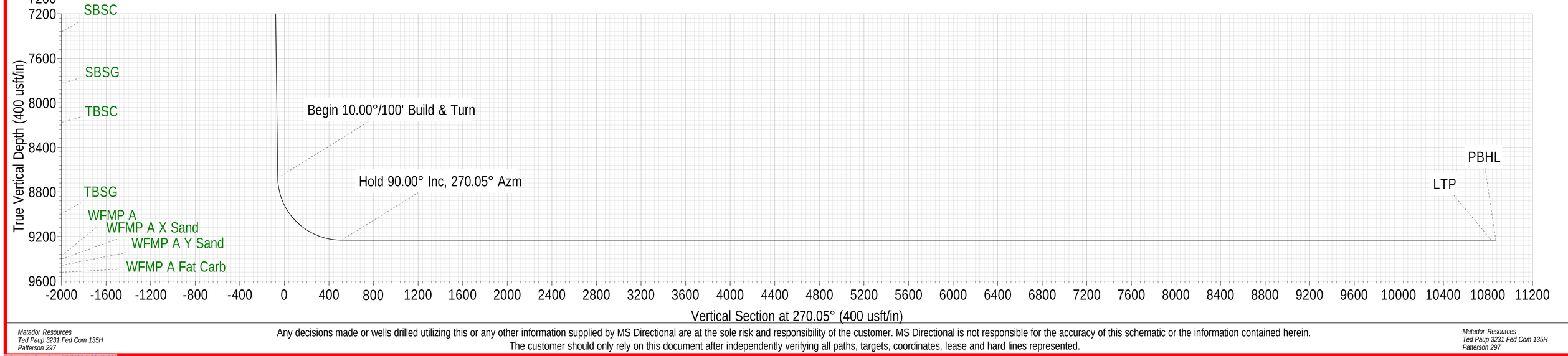
Depth From	Depth To	Survey/Plan	Tool
0.00	20011.26	Design #1 (Wellbore #1)	MWD+HRGM











Any decisions made or wells drilled utilizing this or any other information supplied by MS Directional are at the sole risk and responsibility of the customer. MS Directional is not responsible for the accuracy of this schematic or the information contained herein.
The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented.

Matador Resources
Ted Paup 3231 Fed Com 135H
Patterson 297

Released to Imaging: 6/1/2021 7:55:43 PM

Matador Resources

Eddy County, New Mexico (NAD 27)
Ted Paup 3231 Fed Com (125H, 126H)
Ted Paup 3231 Fed Com 135H

Wellbore #1

Plan: Design #1

Standard Planning Report

24 February, 2021

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Eddy County, New Mexico (NAD 27)

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 Ted Paup 3231 Fed Com (125H, 126H)

Site Position:		**Northing:**	557,175.00 usft	**Latitude:**	32° 31' 53.549 N
From:	Map	**Easting:**	575,988.00 usft	**Longitude:**	104° 5' 12.386 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Ted Paup 3231 Fed Com 135H

Well Position	**+N/-S**	0.00 usft	**Northing:**	557,145.00 usft	**Latitude:**	32° 31' 53.252 N
	+E/-W	0.00 usft	**Easting:**	575,989.00 usft	**Longitude:**	104° 5' 12.375 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,263.00 usft
Grid Convergence:		0.133 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021	4/1/2021	7.050	60.217	47,780.10

Design Design #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	270.05

Plan Survey Tool Program **Date** 2/24/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,011.26	Design #1 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	0.000	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,630.39	8.80	7.00	1,626.93	67.00	8.23	1.00	1.00	0.00	7.000	
6,054.08	8.80	7.00	5,998.50	739.02	90.74	0.00	0.00	0.00	0.000	
6,229.83	8.80	355.50	6,172.19	765.78	91.32	1.00	0.00	-6.54	-95.685	
8,761.09	8.80	355.50	8,673.63	1,152.00	60.91	0.00	0.00	0.00	0.000	
9,654.13	90.00	270.05	9,233.00	1,238.88	-511.92	10.00	9.09	-9.57	-85.499	FTP - Ted Paup 323
19,971.26	90.00	270.05	9,233.00	1,248.29	-10,829.05	0.00	0.00	0.00	0.000	LTP - Ted Paup 323
20,011.26	90.00	270.05	9,233.00	1,248.32	-10,869.05	0.00	0.00	0.00	0.000	PBHL - Ted Paup 3

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
191.50	0.00	0.00	191.50	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
20"									
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
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
800.00	0.50	7.00	800.00	0.22	0.03	-0.03	1.00	1.00	0.00
900.00	1.50	7.00	899.98	1.95	0.24	-0.24	1.00	1.00	0.00
1,000.00	2.50	7.00	999.92	5.41	0.66	-0.66	1.00	1.00	0.00
1,006.59	2.57	7.00	1,006.50	5.70	0.70	-0.70	1.00	1.00	0.00
Base Salt									
1,051.64	3.02	7.00	1,051.50	7.88	0.97	-0.96	1.00	1.00	0.00
Yates									
1,100.00	3.50	7.00	1,099.78	10.61	1.30	-1.29	1.00	1.00	0.00
1,200.00	4.50	7.00	1,199.54	17.53	2.15	-2.14	1.00	1.00	0.00
1,200.46	4.50	7.00	1,200.00	17.57	2.16	-2.14	0.00	0.00	0.00
13 3/8"									
1,300.00	5.50	7.00	1,299.16	26.18	3.21	-3.19	1.00	1.00	0.00
1,332.50	5.83	7.00	1,331.50	29.36	3.61	-3.58	1.00	1.00	0.00
Seven Rivers									
1,400.00	6.50	7.00	1,398.61	36.56	4.49	-4.46	1.00	1.00	0.00
1,500.00	7.50	7.00	1,497.86	48.65	5.97	-5.93	1.00	1.00	0.00
1,600.00	8.50	7.00	1,596.89	62.47	7.67	-7.62	1.00	1.00	0.00
1,624.90	8.75	7.00	1,621.50	66.17	8.12	-8.07	1.00	1.00	0.00
Capitan									
1,630.39	8.80	7.00	1,626.93	67.00	8.23	-8.17	1.00	1.00	0.00
Hold 8.80° Inc, 7.00° Azm									
1,700.00	8.80	7.00	1,695.72	77.58	9.53	-9.46	0.00	0.00	0.00
1,800.00	8.80	7.00	1,794.54	92.77	11.39	-11.31	0.00	0.00	0.00
1,900.00	8.80	7.00	1,893.36	107.96	13.26	-13.16	0.00	0.00	0.00
2,000.00	8.80	7.00	1,992.18	123.15	15.12	-15.01	0.00	0.00	0.00
2,100.00	8.80	7.00	2,091.01	138.34	16.99	-16.87	0.00	0.00	0.00
2,200.00	8.80	7.00	2,189.83	153.53	18.85	-18.72	0.00	0.00	0.00
2,300.00	8.80	7.00	2,288.65	168.72	20.72	-20.57	0.00	0.00	0.00
2,400.00	8.80	7.00	2,387.47	183.92	22.58	-22.42	0.00	0.00	0.00
2,500.00	8.80	7.00	2,486.29	199.11	24.45	-24.27	0.00	0.00	0.00
2,600.00	8.80	7.00	2,585.12	214.30	26.31	-26.13	0.00	0.00	0.00
2,700.00	8.80	7.00	2,683.94	229.49	28.18	-27.98	0.00	0.00	0.00
2,800.00	8.80	7.00	2,782.76	244.68	30.04	-29.83	0.00	0.00	0.00
2,900.00	8.80	7.00	2,881.58	259.87	31.91	-31.68	0.00	0.00	0.00
3,000.00	8.80	7.00	2,980.40	275.06	33.77	-33.53	0.00	0.00	0.00
3,100.00	8.80	7.00	3,079.22	290.25	35.64	-35.39	0.00	0.00	0.00
3,121.02	8.80	7.00	3,100.00	293.45	36.03	-35.77	0.00	0.00	0.00
9 5/8"									
3,200.00	8.80	7.00	3,178.05	305.45	37.50	-37.24	0.00	0.00	0.00
3,289.51	8.80	7.00	3,266.50	319.04	39.17	-38.90	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
Top Delaware/Cherry Cyn									
3,300.00	8.80	7.00	3,276.87	320.64	39.37	-39.09	0.00	0.00	0.00
3,400.00	8.80	7.00	3,375.69	335.83	41.23	-40.94	0.00	0.00	0.00
3,500.00	8.80	7.00	3,474.51	351.02	43.10	-42.79	0.00	0.00	0.00
3,600.00	8.80	7.00	3,573.33	366.21	44.97	-44.65	0.00	0.00	0.00
3,700.00	8.80	7.00	3,672.16	381.40	46.83	-46.50	0.00	0.00	0.00
3,800.00	8.80	7.00	3,770.98	396.59	48.70	-48.35	0.00	0.00	0.00
3,900.00	8.80	7.00	3,869.80	411.78	50.56	-50.20	0.00	0.00	0.00
4,000.00	8.80	7.00	3,968.62	426.98	52.43	-52.05	0.00	0.00	0.00
4,100.00	8.80	7.00	4,067.44	442.17	54.29	-53.91	0.00	0.00	0.00
4,200.00	8.80	7.00	4,166.26	457.36	56.16	-55.76	0.00	0.00	0.00
4,300.00	8.80	7.00	4,265.09	472.55	58.02	-57.61	0.00	0.00	0.00
4,400.00	8.80	7.00	4,363.91	487.74	59.89	-59.46	0.00	0.00	0.00
4,500.00	8.80	7.00	4,462.73	502.93	61.75	-61.31	0.00	0.00	0.00
4,564.53	8.80	7.00	4,526.50	512.73	62.96	-62.51	0.00	0.00	0.00
Brushy Cyn									
4,600.00	8.80	7.00	4,561.55	518.12	63.62	-63.17	0.00	0.00	0.00
4,700.00	8.80	7.00	4,660.37	533.31	65.48	-65.02	0.00	0.00	0.00
4,800.00	8.80	7.00	4,759.20	548.51	67.35	-66.87	0.00	0.00	0.00
4,900.00	8.80	7.00	4,858.02	563.70	69.21	-68.72	0.00	0.00	0.00
5,000.00	8.80	7.00	4,956.84	578.89	71.08	-70.57	0.00	0.00	0.00
5,100.00	8.80	7.00	5,055.66	594.08	72.94	-72.43	0.00	0.00	0.00
5,200.00	8.80	7.00	5,154.48	609.27	74.81	-74.28	0.00	0.00	0.00
5,300.00	8.80	7.00	5,253.30	624.46	76.67	-76.13	0.00	0.00	0.00
5,400.00	8.80	7.00	5,352.13	639.65	78.54	-77.98	0.00	0.00	0.00
5,500.00	8.80	7.00	5,450.95	654.84	80.40	-79.83	0.00	0.00	0.00
5,600.00	8.80	7.00	5,549.77	670.04	82.27	-81.69	0.00	0.00	0.00
5,700.00	8.80	7.00	5,648.59	685.23	84.14	-83.54	0.00	0.00	0.00
5,800.00	8.80	7.00	5,747.41	700.42	86.00	-85.39	0.00	0.00	0.00
5,900.00	8.80	7.00	5,846.24	715.61	87.87	-87.24	0.00	0.00	0.00
6,000.00	8.80	7.00	5,945.06	730.80	89.73	-89.09	0.00	0.00	0.00
6,054.08	8.80	7.00	5,998.50	739.02	90.74	-90.09	0.00	0.00	0.00
Begin 1.00°/100' Turn									
6,097.59	8.77	4.16	6,041.50	745.63	91.39	-90.74	1.00	-0.07	-6.53
BSGL									
6,100.00	8.77	4.00	6,043.88	746.00	91.41	-90.76	1.00	-0.05	-6.55
6,200.00	8.78	357.44	6,142.71	761.23	91.60	-90.94	1.00	0.01	-6.56
6,229.83	8.80	355.50	6,172.19	765.78	91.32	-90.65	1.00	0.08	-6.52
Hold 355.50° Azm									
6,300.00	8.80	355.50	6,241.54	776.48	90.48	-89.80	0.00	0.00	0.00
6,400.00	8.80	355.50	6,340.36	791.74	89.28	-88.59	0.00	0.00	0.00
6,466.93	8.80	355.50	6,406.50	801.95	88.47	-87.77	0.00	0.00	0.00
U. Avalon Shale									
6,500.00	8.80	355.50	6,439.18	807.00	88.08	-87.37	0.00	0.00	0.00
6,583.30	8.80	355.50	6,521.50	819.71	87.08	-86.36	0.00	0.00	0.00
Avalon Carb									
6,600.00	8.80	355.50	6,538.00	822.26	86.88	-86.16	0.00	0.00	0.00
6,674.38	8.80	355.50	6,611.50	833.60	85.98	-85.26	0.00	0.00	0.00
L. Avalon Shale									
6,700.00	8.80	355.50	6,636.82	837.51	85.67	-84.94	0.00	0.00	0.00
6,760.39	8.80	355.50	6,696.50	846.73	84.95	-84.21	0.00	0.00	0.00
FBSC									
6,800.00	8.80	355.50	6,735.64	852.77	84.47	-83.73	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
6,900.00	8.80	355.50	6,834.47	868.03	83.27	-82.51	0.00	0.00	0.00
7,000.00	8.80	355.50	6,933.29	883.29	82.07	-81.30	0.00	0.00	0.00
7,100.00	8.80	355.50	7,032.11	898.55	80.87	-80.09	0.00	0.00	0.00
7,200.00	8.80	355.50	7,130.93	913.80	79.67	-78.87	0.00	0.00	0.00
7,205.63	8.80	355.50	7,136.50	914.66	79.60	-78.80	0.00	0.00	0.00
FBSG									
7,300.00	8.80	355.50	7,229.75	929.06	78.47	-77.66	0.00	0.00	0.00
7,400.00	8.80	355.50	7,328.58	944.32	77.27	-76.44	0.00	0.00	0.00
7,434.33	8.80	355.50	7,362.50	949.56	76.85	-76.02	0.00	0.00	0.00
SBSC									
7,500.00	8.80	355.50	7,427.40	959.58	76.06	-75.23	0.00	0.00	0.00
7,600.00	8.80	355.50	7,526.22	974.84	74.86	-74.01	0.00	0.00	0.00
7,700.00	8.80	355.50	7,625.04	990.09	73.66	-72.80	0.00	0.00	0.00
7,800.00	8.80	355.50	7,723.86	1,005.35	72.46	-71.58	0.00	0.00	0.00
7,900.00	8.80	355.50	7,822.68	1,020.61	71.26	-70.37	0.00	0.00	0.00
7,901.84	8.80	355.50	7,824.50	1,020.89	71.24	-70.35	0.00	0.00	0.00
SBSG									
8,000.00	8.80	355.50	7,921.51	1,035.87	70.06	-69.15	0.00	0.00	0.00
8,100.00	8.80	355.50	8,020.33	1,051.13	68.86	-67.94	0.00	0.00	0.00
8,200.00	8.80	355.50	8,119.15	1,066.38	67.65	-66.72	0.00	0.00	0.00
8,258.03	8.80	355.50	8,176.50	1,075.24	66.96	-66.02	0.00	0.00	0.00
TBSC									
8,300.00	8.80	355.50	8,217.97	1,081.64	66.45	-65.51	0.00	0.00	0.00
8,400.00	8.80	355.50	8,316.79	1,096.90	65.25	-64.29	0.00	0.00	0.00
8,500.00	8.80	355.50	8,415.62	1,112.16	64.05	-63.08	0.00	0.00	0.00
8,600.00	8.80	355.50	8,514.44	1,127.42	62.85	-61.87	0.00	0.00	0.00
8,700.00	8.80	355.50	8,613.26	1,142.67	61.65	-60.65	0.00	0.00	0.00
8,761.09	8.80	355.50	8,673.63	1,152.00	60.91	-59.91	0.00	0.00	0.00
Begin 10.00°/100' Build & Turn									
8,800.00	9.89	332.32	8,712.04	1,157.93	59.13	-58.12	10.00	2.80	-59.58
8,850.00	12.97	312.15	8,761.06	1,165.50	52.97	-51.95	10.00	6.15	-40.34
8,900.00	16.97	300.44	8,809.36	1,172.97	42.51	-41.48	10.00	8.01	-23.42
8,950.00	21.39	293.26	8,856.58	1,180.27	27.83	-26.80	10.00	8.84	-14.35
9,000.00	26.01	288.49	8,902.35	1,187.35	9.04	-8.00	10.00	9.24	-9.54
9,050.00	30.75	285.09	8,946.33	1,194.17	-13.72	14.76	10.00	9.47	-6.80
9,100.00	35.55	282.53	8,988.19	1,200.65	-40.26	41.31	10.00	9.60	-5.13
9,110.28	36.54	282.08	8,996.50	1,201.94	-46.17	47.22	10.00	9.66	-4.41
TBSG									
9,150.00	40.39	280.51	9,027.59	1,206.76	-70.40	71.45	10.00	9.69	-3.95
9,200.00	45.26	278.85	9,064.25	1,212.45	-103.89	104.95	10.00	9.74	-3.31
9,250.00	50.16	277.45	9,097.89	1,217.68	-140.50	141.56	10.00	9.78	-2.79
9,300.00	55.06	276.24	9,128.24	1,222.40	-179.93	180.99	10.00	9.81	-2.42
9,350.00	59.98	275.17	9,155.08	1,226.58	-221.89	222.96	10.00	9.83	-2.15
9,400.00	64.91	274.20	9,178.21	1,230.19	-266.05	267.12	10.00	9.85	-1.94
9,450.00	69.84	273.30	9,197.44	1,233.21	-312.09	313.16	10.00	9.86	-1.79
9,500.00	74.77	272.46	9,212.64	1,235.59	-359.65	360.73	10.00	9.87	-1.68
9,550.00	79.71	271.66	9,223.67	1,237.34	-408.37	409.45	10.00	9.88	-1.61
9,600.00	84.65	270.88	9,230.48	1,238.44	-457.87	458.95	10.00	9.88	-1.56
9,654.13	90.00	270.05	9,233.00	1,238.88	-511.92	513.00	10.00	9.88	-1.53
Hold 90.00° Inc, 270.05° Azm									
9,700.00	90.00	270.05	9,233.00	1,238.92	-557.79	558.87	0.00	0.00	0.00
9,800.00	90.00	270.05	9,233.00	1,239.01	-657.79	658.87	0.00	0.00	0.00
9,900.00	90.00	270.05	9,233.00	1,239.10	-757.79	758.87	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	90.00	270.05	9,233.00	1,239.19	-857.79	858.87	0.00	0.00	0.00
10,100.00	90.00	270.05	9,233.00	1,239.28	-957.79	958.87	0.00	0.00	0.00
10,200.00	90.00	270.05	9,233.00	1,239.38	-1,057.79	1,058.87	0.00	0.00	0.00
10,300.00	90.00	270.05	9,233.00	1,239.47	-1,157.79	1,158.87	0.00	0.00	0.00
10,400.00	90.00	270.05	9,233.00	1,239.56	-1,257.79	1,258.87	0.00	0.00	0.00
10,500.00	90.00	270.05	9,233.00	1,239.65	-1,357.79	1,358.87	0.00	0.00	0.00
10,600.00	90.00	270.05	9,233.00	1,239.74	-1,457.79	1,458.87	0.00	0.00	0.00
10,700.00	90.00	270.05	9,233.00	1,239.83	-1,557.79	1,558.87	0.00	0.00	0.00
10,800.00	90.00	270.05	9,233.00	1,239.92	-1,657.79	1,658.87	0.00	0.00	0.00
10,900.00	90.00	270.05	9,233.00	1,240.01	-1,757.79	1,758.87	0.00	0.00	0.00
11,000.00	90.00	270.05	9,233.00	1,240.11	-1,857.79	1,858.87	0.00	0.00	0.00
11,100.00	90.00	270.05	9,233.00	1,240.20	-1,957.79	1,958.87	0.00	0.00	0.00
11,200.00	90.00	270.05	9,233.00	1,240.29	-2,057.79	2,058.87	0.00	0.00	0.00
11,300.00	90.00	270.05	9,233.00	1,240.38	-2,157.79	2,158.87	0.00	0.00	0.00
11,400.00	90.00	270.05	9,233.00	1,240.47	-2,257.79	2,258.87	0.00	0.00	0.00
11,500.00	90.00	270.05	9,233.00	1,240.56	-2,357.79	2,358.87	0.00	0.00	0.00
11,600.00	90.00	270.05	9,233.00	1,240.65	-2,457.79	2,458.87	0.00	0.00	0.00
11,700.00	90.00	270.05	9,233.00	1,240.74	-2,557.79	2,558.87	0.00	0.00	0.00
11,800.00	90.00	270.05	9,233.00	1,240.83	-2,657.79	2,658.87	0.00	0.00	0.00
11,900.00	90.00	270.05	9,233.00	1,240.93	-2,757.79	2,758.87	0.00	0.00	0.00
12,000.00	90.00	270.05	9,233.00	1,241.02	-2,857.79	2,858.87	0.00	0.00	0.00
12,100.00	90.00	270.05	9,233.00	1,241.11	-2,957.79	2,958.87	0.00	0.00	0.00
12,200.00	90.00	270.05	9,233.00	1,241.20	-3,057.79	3,058.87	0.00	0.00	0.00
12,300.00	90.00	270.05	9,233.00	1,241.29	-3,157.79	3,158.87	0.00	0.00	0.00
12,400.00	90.00	270.05	9,233.00	1,241.38	-3,257.79	3,258.87	0.00	0.00	0.00
12,500.00	90.00	270.05	9,233.00	1,241.47	-3,357.79	3,358.87	0.00	0.00	0.00
12,600.00	90.00	270.05	9,233.00	1,241.56	-3,457.79	3,458.87	0.00	0.00	0.00
12,700.00	90.00	270.05	9,233.00	1,241.66	-3,557.79	3,558.87	0.00	0.00	0.00
12,800.00	90.00	270.05	9,233.00	1,241.75	-3,657.79	3,658.87	0.00	0.00	0.00
12,900.00	90.00	270.05	9,233.00	1,241.84	-3,757.79	3,758.87	0.00	0.00	0.00
13,000.00	90.00	270.05	9,233.00	1,241.93	-3,857.79	3,858.87	0.00	0.00	0.00
13,100.00	90.00	270.05	9,233.00	1,242.02	-3,957.79	3,958.87	0.00	0.00	0.00
13,200.00	90.00	270.05	9,233.00	1,242.11	-4,057.79	4,058.87	0.00	0.00	0.00
13,300.00	90.00	270.05	9,233.00	1,242.20	-4,157.79	4,158.87	0.00	0.00	0.00
13,400.00	90.00	270.05	9,233.00	1,242.29	-4,257.79	4,258.87	0.00	0.00	0.00
13,500.00	90.00	270.05	9,233.00	1,242.38	-4,357.79	4,358.87	0.00	0.00	0.00
13,600.00	90.00	270.05	9,233.00	1,242.48	-4,457.79	4,458.87	0.00	0.00	0.00
13,700.00	90.00	270.05	9,233.00	1,242.57	-4,557.79	4,558.87	0.00	0.00	0.00
13,800.00	90.00	270.05	9,233.00	1,242.66	-4,657.79	4,658.87	0.00	0.00	0.00
13,900.00	90.00	270.05	9,233.00	1,242.75	-4,757.79	4,758.87	0.00	0.00	0.00
14,000.00	90.00	270.05	9,233.00	1,242.84	-4,857.79	4,858.87	0.00	0.00	0.00
14,100.00	90.00	270.05	9,233.00	1,242.93	-4,957.79	4,958.87	0.00	0.00	0.00
14,200.00	90.00	270.05	9,233.00	1,243.02	-5,057.79	5,058.87	0.00	0.00	0.00
14,300.00	90.00	270.05	9,233.00	1,243.11	-5,157.79	5,158.87	0.00	0.00	0.00
14,400.00	90.00	270.05	9,233.00	1,243.21	-5,257.79	5,258.87	0.00	0.00	0.00
14,500.00	90.00	270.05	9,233.00	1,243.30	-5,357.79	5,358.87	0.00	0.00	0.00
14,600.00	90.00	270.05	9,233.00	1,243.39	-5,457.79	5,458.87	0.00	0.00	0.00
14,700.00	90.00	270.05	9,233.00	1,243.48	-5,557.79	5,558.87	0.00	0.00	0.00
14,800.00	90.00	270.05	9,233.00	1,243.57	-5,657.79	5,658.87	0.00	0.00	0.00
14,900.00	90.00	270.05	9,233.00	1,243.66	-5,757.79	5,758.87	0.00	0.00	0.00
15,000.00	90.00	270.05	9,233.00	1,243.75	-5,857.79	5,858.87	0.00	0.00	0.00
15,100.00	90.00	270.05	9,233.00	1,243.84	-5,957.79	5,958.87	0.00	0.00	0.00
15,200.00	90.00	270.05	9,233.00	1,243.93	-6,057.79	6,058.87	0.00	0.00	0.00
15,300.00	90.00	270.05	9,233.00	1,244.03	-6,157.79	6,158.87	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
15,400.00	90.00	270.05	9,233.00	1,244.12	-6,257.79	6,258.87	0.00	0.00	0.00
15,500.00	90.00	270.05	9,233.00	1,244.21	-6,357.79	6,358.87	0.00	0.00	0.00
15,600.00	90.00	270.05	9,233.00	1,244.30	-6,457.79	6,458.87	0.00	0.00	0.00
15,700.00	90.00	270.05	9,233.00	1,244.39	-6,557.79	6,558.87	0.00	0.00	0.00
15,800.00	90.00	270.05	9,233.00	1,244.48	-6,657.79	6,658.87	0.00	0.00	0.00
15,900.00	90.00	270.05	9,233.00	1,244.57	-6,757.79	6,758.87	0.00	0.00	0.00
16,000.00	90.00	270.05	9,233.00	1,244.66	-6,857.79	6,858.87	0.00	0.00	0.00
16,100.00	90.00	270.05	9,233.00	1,244.76	-6,957.79	6,958.87	0.00	0.00	0.00
16,200.00	90.00	270.05	9,233.00	1,244.85	-7,057.79	7,058.87	0.00	0.00	0.00
16,300.00	90.00	270.05	9,233.00	1,244.94	-7,157.79	7,158.87	0.00	0.00	0.00
16,400.00	90.00	270.05	9,233.00	1,245.03	-7,257.79	7,258.87	0.00	0.00	0.00
16,500.00	90.00	270.05	9,233.00	1,245.12	-7,357.79	7,358.87	0.00	0.00	0.00
16,600.00	90.00	270.05	9,233.00	1,245.21	-7,457.79	7,458.87	0.00	0.00	0.00
16,700.00	90.00	270.05	9,233.00	1,245.30	-7,557.79	7,558.87	0.00	0.00	0.00
16,800.00	90.00	270.05	9,233.00	1,245.39	-7,657.79	7,658.87	0.00	0.00	0.00
16,900.00	90.00	270.05	9,233.00	1,245.48	-7,757.79	7,758.87	0.00	0.00	0.00
17,000.00	90.00	270.05	9,233.00	1,245.58	-7,857.79	7,858.87	0.00	0.00	0.00
17,100.00	90.00	270.05	9,233.00	1,245.67	-7,957.79	7,958.87	0.00	0.00	0.00
17,200.00	90.00	270.05	9,233.00	1,245.76	-8,057.79	8,058.87	0.00	0.00	0.00
17,300.00	90.00	270.05	9,233.00	1,245.85	-8,157.79	8,158.87	0.00	0.00	0.00
17,400.00	90.00	270.05	9,233.00	1,245.94	-8,257.79	8,258.87	0.00	0.00	0.00
17,500.00	90.00	270.05	9,233.00	1,246.03	-8,357.79	8,358.87	0.00	0.00	0.00
17,600.00	90.00	270.05	9,233.00	1,246.12	-8,457.79	8,458.87	0.00	0.00	0.00
17,700.00	90.00	270.05	9,233.00	1,246.21	-8,557.79	8,558.87	0.00	0.00	0.00
17,800.00	90.00	270.05	9,233.00	1,246.31	-8,657.79	8,658.87	0.00	0.00	0.00
17,900.00	90.00	270.05	9,233.00	1,246.40	-8,757.79	8,758.87	0.00	0.00	0.00
18,000.00	90.00	270.05	9,233.00	1,246.49	-8,857.79	8,858.87	0.00	0.00	0.00
18,100.00	90.00	270.05	9,233.00	1,246.58	-8,957.79	8,958.87	0.00	0.00	0.00
18,200.00	90.00	270.05	9,233.00	1,246.67	-9,057.79	9,058.87	0.00	0.00	0.00
18,300.00	90.00	270.05	9,233.00	1,246.76	-9,157.79	9,158.87	0.00	0.00	0.00
18,400.00	90.00	270.05	9,233.00	1,246.85	-9,257.79	9,258.87	0.00	0.00	0.00
18,500.00	90.00	270.05	9,233.00	1,246.94	-9,357.79	9,358.87	0.00	0.00	0.00
18,600.00	90.00	270.05	9,233.00	1,247.03	-9,457.79	9,458.87	0.00	0.00	0.00
18,700.00	90.00	270.05	9,233.00	1,247.13	-9,557.79	9,558.87	0.00	0.00	0.00
18,800.00	90.00	270.05	9,233.00	1,247.22	-9,657.79	9,658.87	0.00	0.00	0.00
18,900.00	90.00	270.05	9,233.00	1,247.31	-9,757.79	9,758.87	0.00	0.00	0.00
19,000.00	90.00	270.05	9,233.00	1,247.40	-9,857.79	9,858.87	0.00	0.00	0.00
19,100.00	90.00	270.05	9,233.00	1,247.49	-9,957.79	9,958.87	0.00	0.00	0.00
19,200.00	90.00	270.05	9,233.00	1,247.58	-10,057.79	10,058.87	0.00	0.00	0.00
19,300.00	90.00	270.05	9,233.00	1,247.67	-10,157.79	10,158.87	0.00	0.00	0.00
19,400.00	90.00	270.05	9,233.00	1,247.76	-10,257.79	10,258.87	0.00	0.00	0.00
19,500.00	90.00	270.05	9,233.00	1,247.86	-10,357.79	10,358.87	0.00	0.00	0.00
19,600.00	90.00	270.05	9,233.00	1,247.95	-10,457.79	10,458.87	0.00	0.00	0.00
19,700.00	90.00	270.05	9,233.00	1,248.04	-10,557.79	10,558.87	0.00	0.00	0.00
19,800.00	90.00	270.05	9,233.00	1,248.13	-10,657.79	10,658.87	0.00	0.00	0.00
19,900.00	90.00	270.05	9,233.00	1,248.22	-10,757.79	10,758.87	0.00	0.00	0.00
19,971.26	90.00	270.05	9,233.00	1,248.29	-10,829.05	10,830.14	0.00	0.00	0.00
LTP									
20,000.00	90.00	270.05	9,233.00	1,248.31	-10,857.79	10,858.87	0.00	0.00	0.00
20,011.26	90.00	270.05	9,233.00	1,248.32	-10,869.05	10,870.14	0.00	0.00	0.00
PBHL									

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP - Ted Paup 3231 - plan hits target center - Point	0.00	0.00	9,233.00	1,248.29	-10,829.05	558,393.29	565,159.95	32° 32' 5.835 N	104° 7' 18.839 W
FTP - Ted Paup 3231 - plan hits target center - Point	0.00	0.00	9,233.00	1,238.88	-511.92	558,383.88	575,477.08	32° 32' 5.523 N	104° 5' 18.322 W
PBHL - Ted Paup 323 - plan misses target center by 0.01usft at 20011.26usft MD (9233.00 TVD, 1248.32 N, -10869.05 E) - Point	0.00	0.00	9,233.00	1,248.31	-10,869.05	558,393.32	565,119.95	32° 32' 5.836 N	104° 7' 19.307 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
400.00	400.00	20"	20	26
1,200.46	1,200.00	13 3/8"	13-3/8	17-1/2
3,121.02	3,100.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
191.50	191.50	Rustler			
1,006.59	1,006.50	Base Salt			
1,051.64	1,051.50	Yates			
1,332.50	1,331.50	Seven Rivers			
1,624.90	1,621.50	Capitan			
3,289.51	3,266.50	Top Delaware/Cherry Cyn			
4,564.53	4,526.50	Brushy Cyn			
6,097.59	6,041.50	BSGL			
6,466.93	6,406.50	U. Avalon Shale			
6,583.30	6,521.50	Avalon Carb			
6,674.38	6,611.50	L. Avalon Shale			
6,760.39	6,696.50	FBSC			
7,205.63	7,136.50	FBSG			
7,434.33	7,362.50	SBSC			
7,901.84	7,824.50	SBSG			
8,258.03	8,176.50	TBSC			
9,110.28	8,996.50	TBSG			

MS Directional
Planning Report

Database:	EDM 5000.1 Conroe DB	**Local Co-ordinate Reference:**	Well Ted Paup 3231 Fed Com 135H
Company:	Matador Resources	**TVD Reference:**	WELL @ 3291.50usft (Patterson 297)
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	WELL @ 3291.50usft (Patterson 297)
Site:	Ted Paup 3231 Fed Com (125H, 126H)	**North Reference:**	Grid
Well:	Ted Paup 3231 Fed Com 135H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
750.00	750.00	0.00	0.00	KOP, 1.00°/100' Build
1,630.39	1,626.93	67.00	8.23	Hold 8.80° Inc, 7.00° Azm
6,054.08	5,998.50	739.02	90.74	Begin 1.00°/100' Turn
6,229.83	6,172.19	765.78	91.32	Hold 355.50° Azm
8,761.09	8,673.63	1,152.00	60.91	Begin 10.00°/100' Build & Turn
9,654.13	9,233.00	1,238.88	-511.92	Hold 90.00° Inc, 270.05° Azm
19,971.26	9,233.00	1,248.29	-10,829.05	LTP
20,011.26	9,233.00	1,248.32	-10,869.05	PBHL

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

COMMENTS

Action 28076

COMMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 28076
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/14/2021	5/14/2021

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CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 28076
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/14/2021