NMOCD Rec'd: 10/14/2020

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM138865

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
BOROS FEDERAL 227H

2. Name of Operator
MATADOR PRODUCTION COMPANY

Contact: NICKY FITZGERALD
E-Mail: nicky.fitzgerald@matadorresources.com

9. API Well No.
30-015-46798-00-X1

3a. Address
ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)
Ph: 972-371-5448

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

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

Sec 15 T26S R31E NWNE 430FNL 2183FEL
32.048954 N Lat, 103.764465 W Lon

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM Bond No. NMB001079
Surety Bond No. RLB0015172

Please see the attached C102 to revise the SHL of Matador's Boros Federal Com 227H (30-015-46798) well from 430' FNL and 2183' FEL of Sec. 15 T26S R31E to 430' FNL and 2263' FEL of Sec. 15 T26S R31E. This proposed SHL move lies within the approved well pad location footprint covered in Environmental Assessment DOI-BLM-NM-P020-2020-0098-EA.

Matador requests the BHL be revised from 240' FSL and 1651' FEL of Sec. 22 T26S R31E to 240' FSL and 2575' FEL of Sec. 22 T26S R31E. Please see attached C-102 and directional plans.

Surface good Same COA's 10-9-20 JR

Also, Matador respectfully requests the option to amend the casing, cementing and mud program.

APPROVED BY RACHEL ISABIKEN. REVIEW ADDITIONAL ENGINEERING COA.

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

Electronic Submission #526646 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by JUANA MEDRANO on 08/24/2020 (20JM0104SE)

Name *(Printed/Typed)* NICKY FITZGERALD — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 08/20/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Cody R. Layton — Title AFM-L&N — Date 10/09/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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

- NSL Will require an administrative order for non-standard location prior to placing the well on production

KP 11/5/2020 GEO Review

JAg 11/5/2020 Final review

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
30-015-46798	98220	PURPLE SAGE;WOLFCAMP (GAS)

[4]Property Code	[5]Property Name	[6]Well Number
	BOROS FEDERAL COM	227H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3225'

[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
B	15	26-S	31-E	–	430'	NORTH	2263'	EAST	EDDY

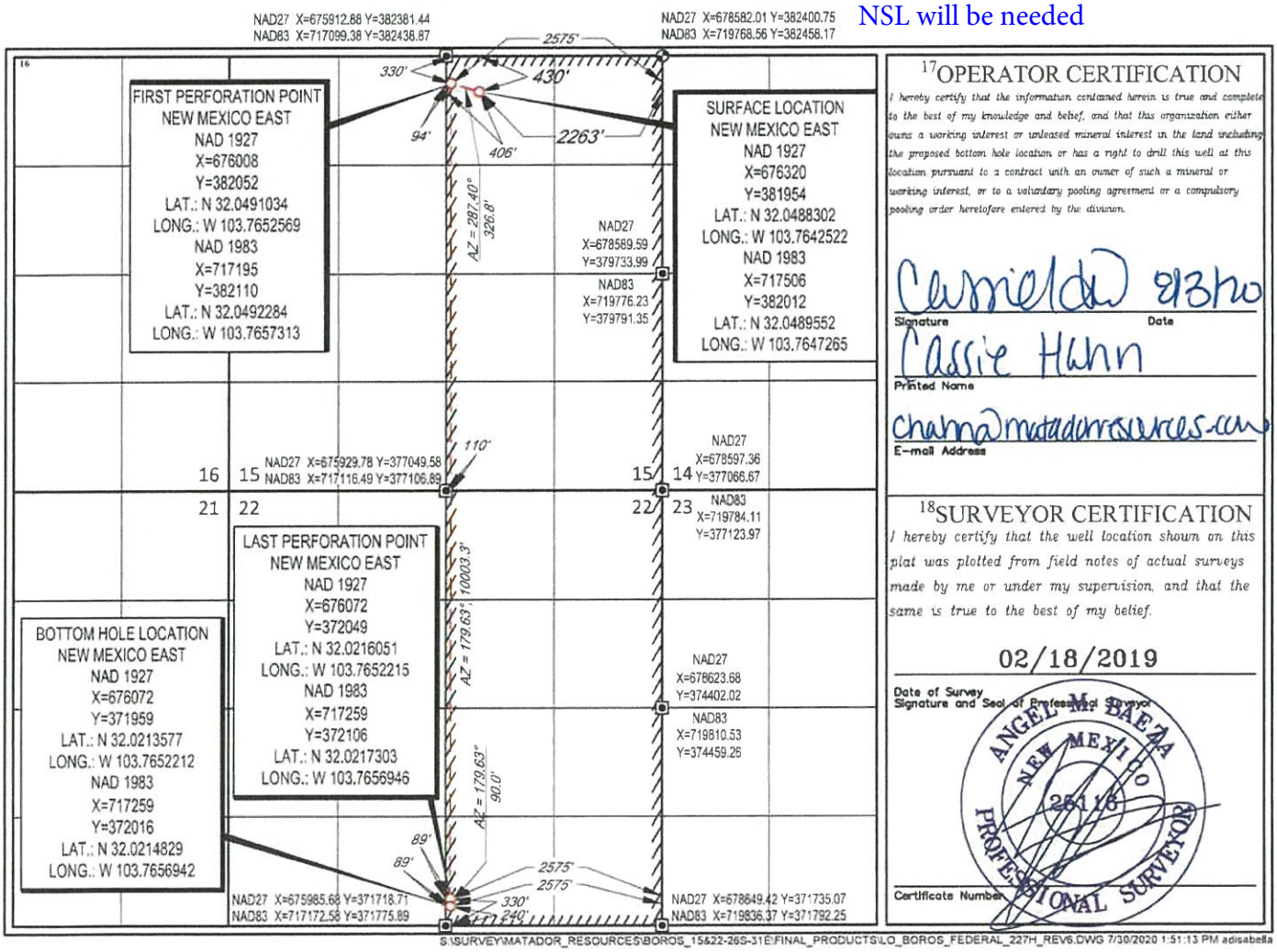
[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	22	26-S	31-E	–	240'	SOUTH	2575'	EAST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640			

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.

NSL will be needed



[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.

Cassie Hahn 2/3/20
Signature Date

Cassie Hahn
Printed Name

chahn@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.

02/18/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\MATADOR_RESOURCES\BOROS_15&22-26S-31E\FINAL_PRODUCTS\LO_BOROS_FEDERAL_227H_REV6.DWG 7/30/2020 1:51:13 PM adisabella

Additional data for EC transaction #526646 that would not fit on the form

32. Additional remarks, continued

Please find supporting documentation attached and contact Blake Hermes at 972-371-5485 or BHermes@matadorresources.com for any questions.

Revisions to Operator-Submitted EC Data for Sundry Notice #526646

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM138865	NMNM138865
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75240 Ph: 972-371-5448	MATADOR PRODUCTION COMPANY ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448
Tech Contact:	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448	NICKY FITZGERALD REGULATORY ANALYST E-Mail: nicky.fitzgerald@matadorresources.com Ph: 972-371-5448
Location: State: County:	 NM EDDY	 NM EDDY
Field/Pool:	PURPLE SAGE;WOLFCAMP(GAS)	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	BOROS FEDERAL COM 227H Sec 15 T26S R31E 430FNL 2183FEL	BOROS FEDERAL 227H Sec 15 T26S R31E NWNE 430FNL 2183FEL 32.048954 N Lat, 103.764465 W Lon

Boros Federal 227H SUNDRY

13 3/8 surface csg in a 17 1/2 inch hole. Design Factors — Surface

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	11.34	1.79	0.59	1,381	5	1.07	3.45	75,265
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,308			Tail Cmt	does not	circ to sfc.	Totals:	1,381				75,265

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	890	1463	959	52	8.80	2549	3M	1.56

Class 'C' tail cmt yield above 1.35.

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

7 5/8 casing inside the 13 3/8 Design Factors — Int 1

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	P 110	BTC	3.33	1.15	1.08	9,500	2	1.57	2.10	282,150
"B"	**29.70**	**P 110**	VAM HTF-NR	∞	**1.59**	**1.22**	**2,100**	**2**	**1.78**	2.89	**62,370**
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	11,600				344,520

The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1381 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.2148	980	3362	2955	14	9.40	6040	10M	0.69

Class 'H' tail cmt yld > 1.20

MASP is within 10% of 5000psig, need exrta equip?

Excess Cement may be needed.

Tail cmt

5 1/2 casing inside the 7 5/8 Design Factors — Prod 1

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	P 110	TLW	2.21	1.39	1.63	22,727	2	2.38	2.15	454,540
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,761						Totals:	22,727				454,540

The cement volume(s) are intended to achieve a top of 11400 ft from surface or a 200 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	880	1050	948	11	13.50			0.44

Class 'C' tail cmt yld > 1.35

Excess Cement may be needed.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**MATADOR PRODUCTION COMPANY**
LEASE NO.:	**NMNM138865**
WELL NAME & NO.:	BOROS FEDERAL 227H
SURFACE HOLE FOOTAGE:	430'/N & 2263'/E
BOTTOM HOLE FOOTAGE	240'/S & 2575'/E
LOCATION:	Section 15, T.26 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

ALL PREVIOUS COAs still apply.

A. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1381 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that

string.

2. The **7-5/8** Intermediate casing shall be set at **11600 feet** . The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

   Multi-Stage Option :

   Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

   - First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

   - Second stage above DV tool:

     - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
       Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

   - Excess Cement calculates to less than 25% ; More cement may be needed.

   - Operator will perform bradenhead squeeze. Cement to surface. If cement does not circulate see B.1.a, c-d above.

   - **Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. Operator must run a CBL from TD of the** 7-5/8**" casing to surface. Submit results to BLM.**

   ❖ In **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

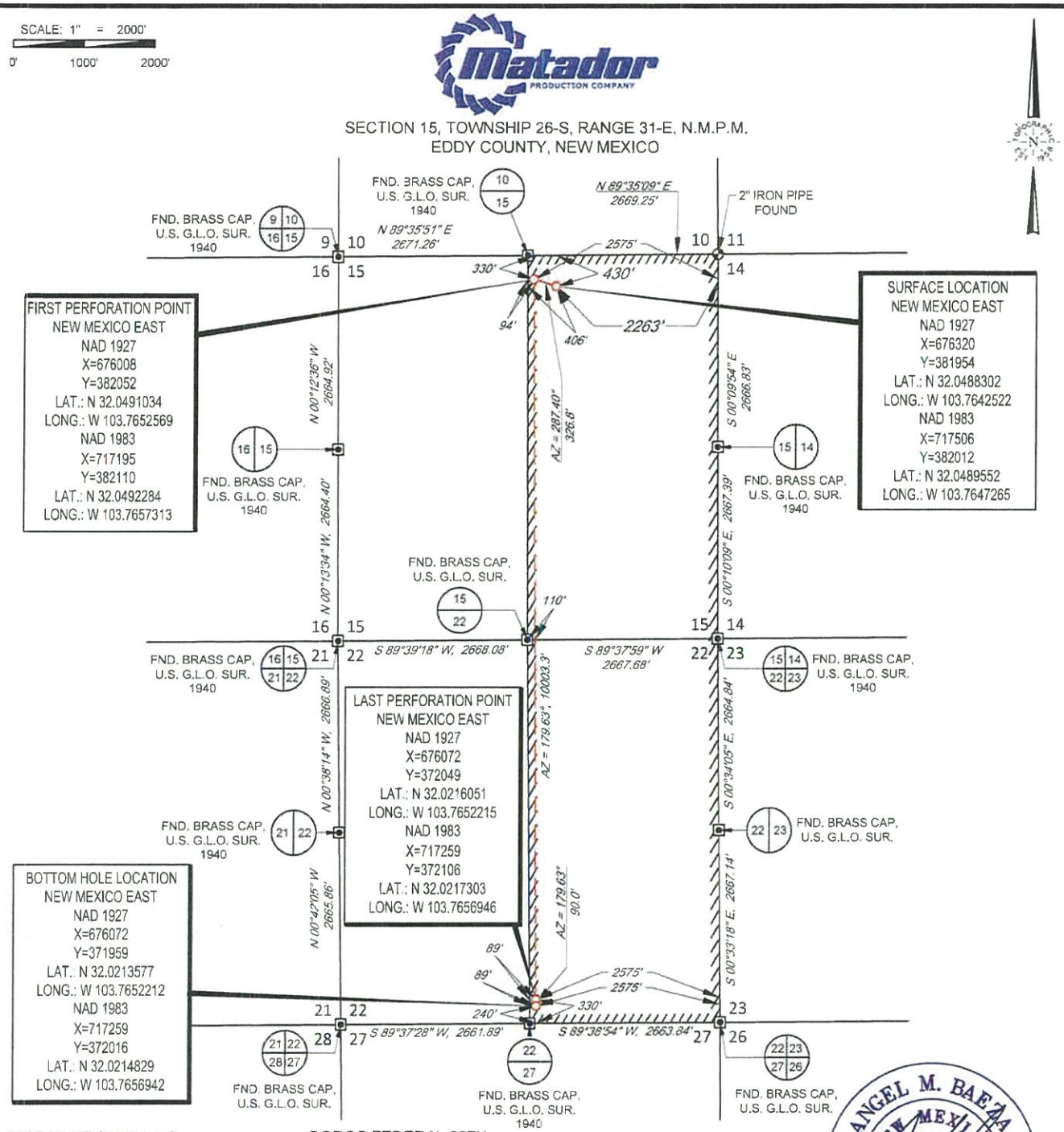
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

   Option 1 (Single Stage):

   - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

   - Excess Cement calculates to less than 25% ; More cement may be needed.

RI09202020



LEASE NAME & WELL NO.: BOROS FEDERAL 227H

SECTION 15 TWP 26-S RGE 31-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 430' FNL & 2263' FEL

DISTANCE & DIRECTION

FROM INT. OF NM128. & J-1/ORLA RD., GO SOUTH ON J-1/ORLA RD. ±10.5 MILES,THENCE WEST (RIGHT) ON PIPELINE RD ±5.2 MILES, THENCE SOUTH (LEFT) ON PROPOSED RD. ±1.0 MILE, THENCE WEST (RIGHT) ON PROPOSED RD. ±299 FEET, TO A POINT ±325 FEET NORTHEAST OF THE LOCATION.

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.

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

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

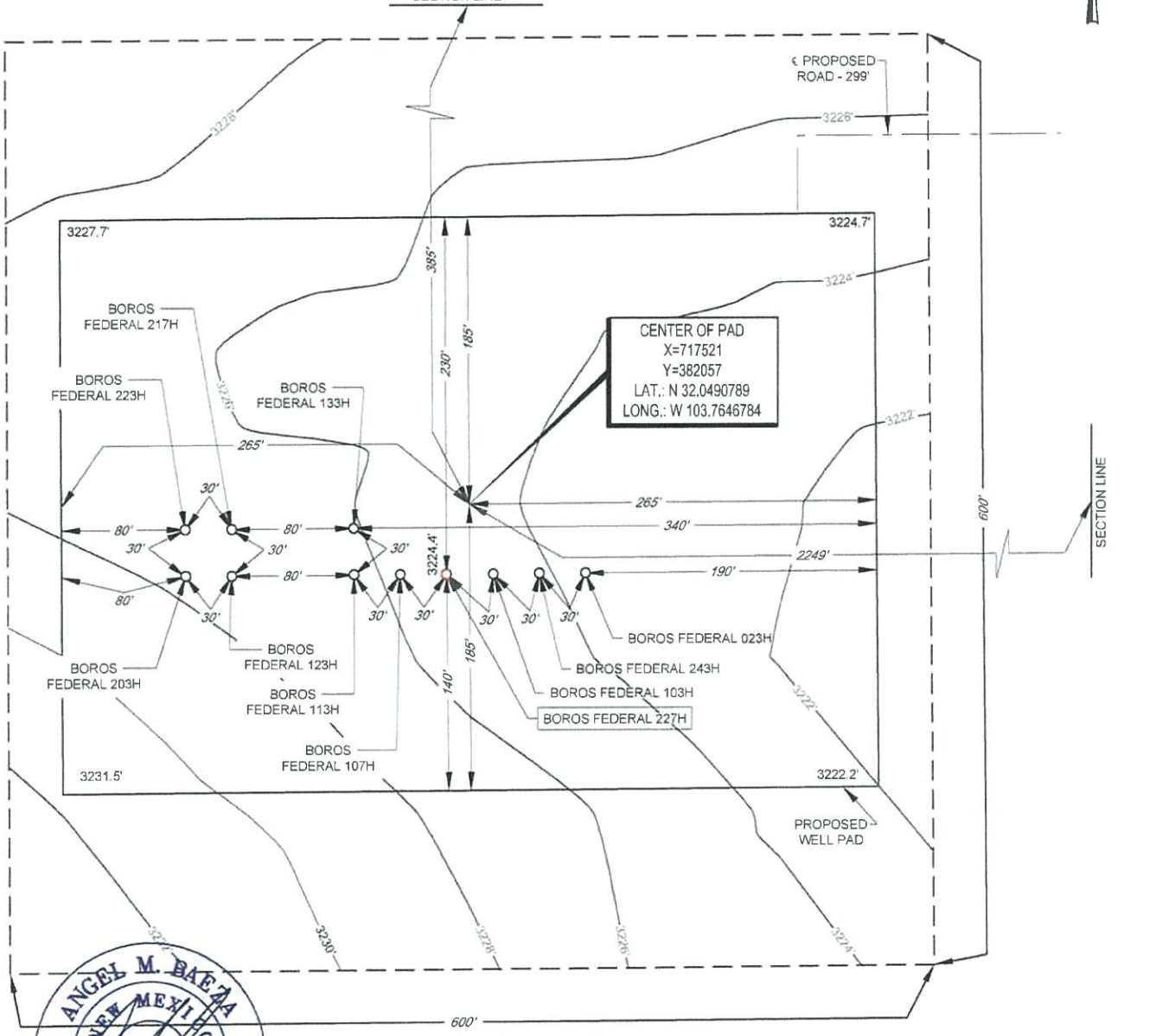
Matador PRODUCTION COMPANY

SECTION 15, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

SCALE: 1" = 100'
0' 50' 100'

LEGEND
SECTION LINE
PROPOSED ROAD
ARCH SURVEY



LEASE NAME & WELL NO.: BOROS FEDERAL 227H

227H LATITUDE N 32.0489552 227H LONGITUDE W 103.7647265

CENTER OF PAD IS 385' FNL & 2249' FEL

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

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

Boros Federal #227H
SHL: 430' FNL & 2263' FEL Section 15
BHL: 240' FSL & 2575' FEL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3225

Drilling Operation Plan

Proposed Drilling Depth: 22727' MD / 12550' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.0500170292 N / -103.7657266274 W
TD Lat/Long (NAD83): 32.0214829013 N / -103.7656945994 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,356	1,356	132	Anhydrite	Barren
Salado (Top of Salt)	1,488	1,488	1,903	Salt	Barren
Lamar (Base of Salt)	4,097	4,097	29	Salt	Barren
Bell Canyon	4,126	4,126	1,053	Sandstone	Oil/Natural Gas
Cherry Canyon	5,179	5,179	1,206	Sandstone	Oil/Natural Gas
Brushy Canyon	6,385	6,385	1,683	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,068	8,068	1,144	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,212	9,212	280	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	9,492	9,492	254	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	9,746	9,746	456	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	10,202	10,202	754	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	10,956	10,956	405	Sandstone	Oil/Natural Gas
Wolfcamp	11,361	11,361	-	Shale	Oil/Natural Gas
KOP	**12,021**	**11,977**	**-**	**Shale**	**Oil/Natural Gas**
TD	**22,727**	**12,550**	**-**	**Shale**	**Oil/Natural Gas**

2. Notable Zones

Wolfcamp is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 230'

3. Pressure Control

Equipment
A 18,000' 10,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

An accumulator complying with Onshore Order #2 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Testing Procedure

BOP will be inspected and operated as required in Onshore Order #2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting surface casing, a minimum 10M BOPE system will be installed. Test pressures will be 250 psi low and 10,000 psi high with the annular preventer being tested to 250 psi low and 5000 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 10M BOPE system is re-installed.

Variance Request
Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Matador requests a variance to drill this well using a 5M annular preventer with a 10M BOP ram stack. The "Well Control Plan For 10M MASP Section of Wellbore" is attached.

4. Casing & Cement

All casing will be API and new. See attached casing assumption worksheet.

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1381	0 - 1381	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9500	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	8.75	9500 - 11600	9500 - 11600	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	6.75	0 - 22727	0 - 12550	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality and as run specification sheets will be on location for review

Variance Request

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

9-7/8" hole depth may fluctuate, but 7-5/8" BUTT will only be run inside of 9-7/8" OH and Flush joint will be run in 8-3/4" OH. Cement volumes will be adjusted proportionally. Option to drill the entire Intermediate I hole section in 9-7/8" hole size.

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	640	1.747	1123	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.379	348	14.8	50%	1081	C	5% NaCl + LCM
Intermediate 1	Lead	880	3.66	3234	10.3	25%	0	A/C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	100	1.413	146	13.2	25%	10600	A/C	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	880	1.193	1050	14.2	10%	11400	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

An electronic Pason mud monitoring system complying with Onshore Order 2 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1381	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Brine Diesel Emulsion	1381 - 11600	8.4 - 9.4	28-30	NC
Production	6.75	OBM	11600 - 22727	12 - 13.5	30-35	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

No electric logs are planned at this time. GR will be collected through the MWD tools from Intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to top of curve.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Bottom hole pressure is 8810 psi. Maximum anticipated surface pressure is 6049 psi. Expected bottom hole temperature is 198° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "H2S Drilling Operations Plan". Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of the equipment being used.

Tapered String Specification Sheet

Boros Federal #227H
SHL: 430' FNL & 2263' FEL Section 15
BHL: 240' FSL & 2575' FEL Section 22
Township/Range: 26S 31E
Elevation Above Sea Level: 3225'

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1381	0 - 1381	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9500	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	8.75	9500 - 11600	9500 - 11600	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	6.75	0 - 22727	0 - 12550	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Company: Matador Production Company
Well: Boros Federal #227H
County: Eddy County, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #2
Date: 8/11/2020

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 6.39°
To convert a Magnetic Direction to a True Direction, Add 6.69° East
To convert a True Direction to a Grid Direction, Subtract 0.30°

T G M

Azimuths to Grid North
True North: -0.30°
Magnetic North: 6.39°

Magnetic Field
Strength: 47492.3snT
Dip Angle: 59.83°
Date: 8/11/2020
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	22727.5	BLM Plan #2 (Wellbore #1)	MWD

WELL DETAILS: Boros Federal #227H

GL @ 3225.0 KB @ 3253.5usft

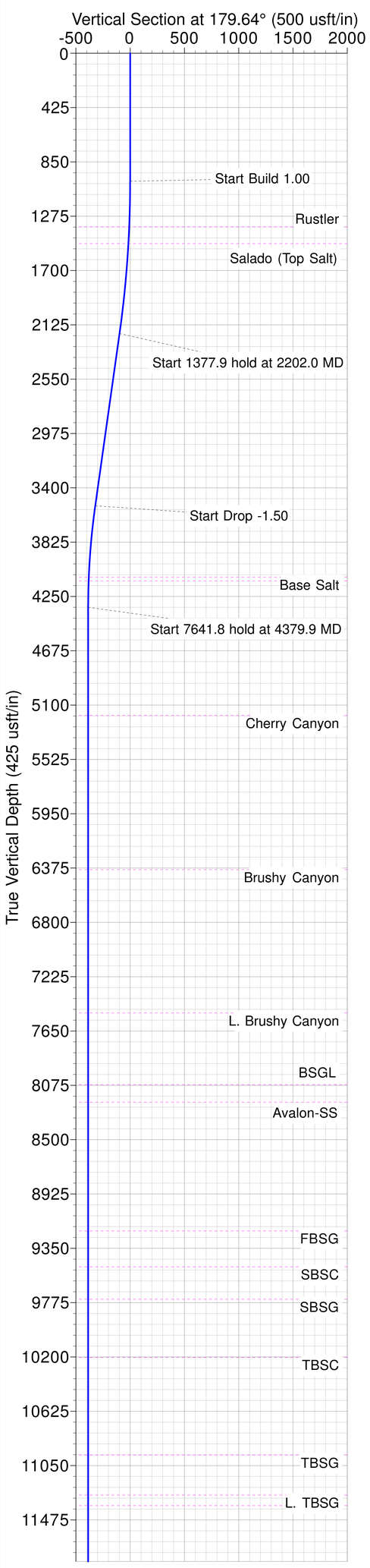
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	381954.39	676319.85	32° 2' 55.789 N	103° 45' 51.308 W	

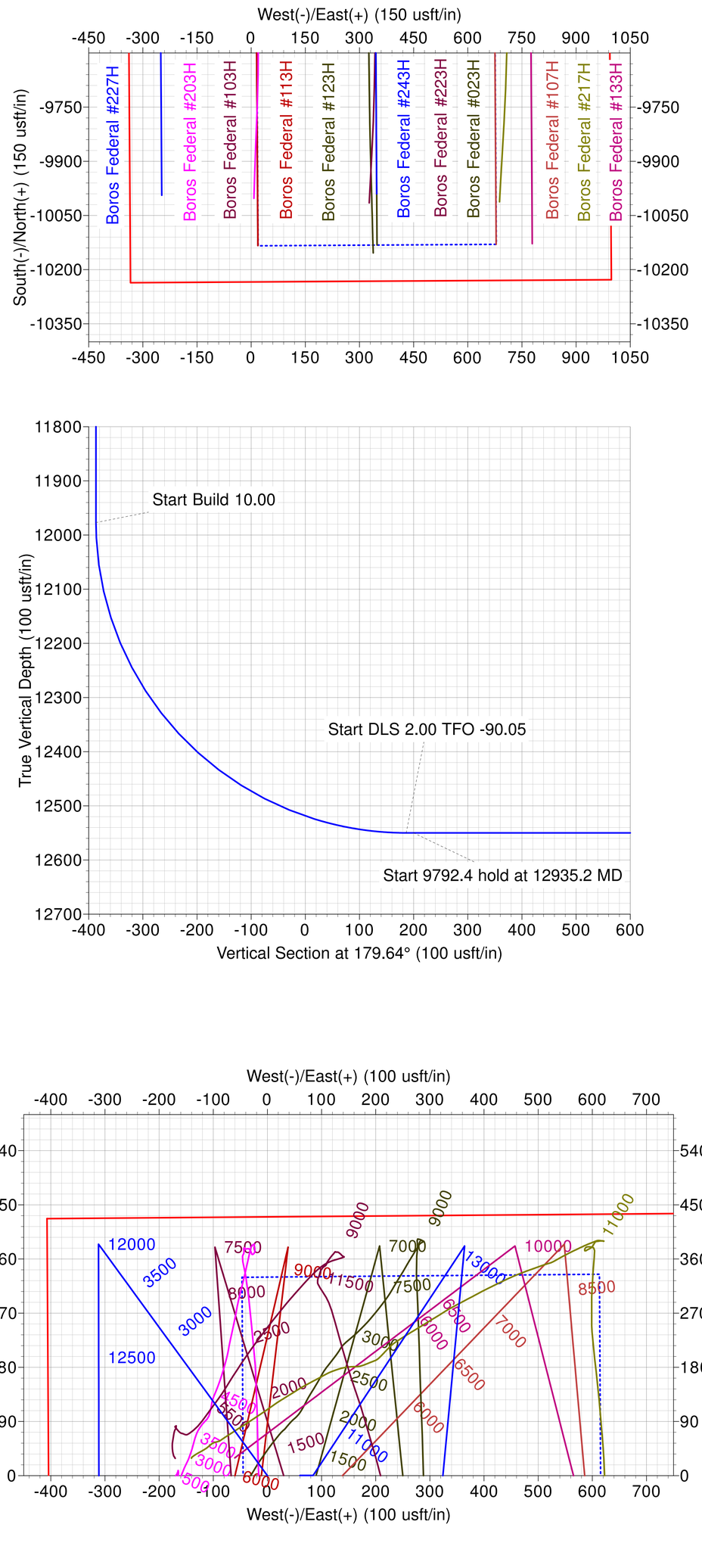
DESIGN TARGET DETAILS

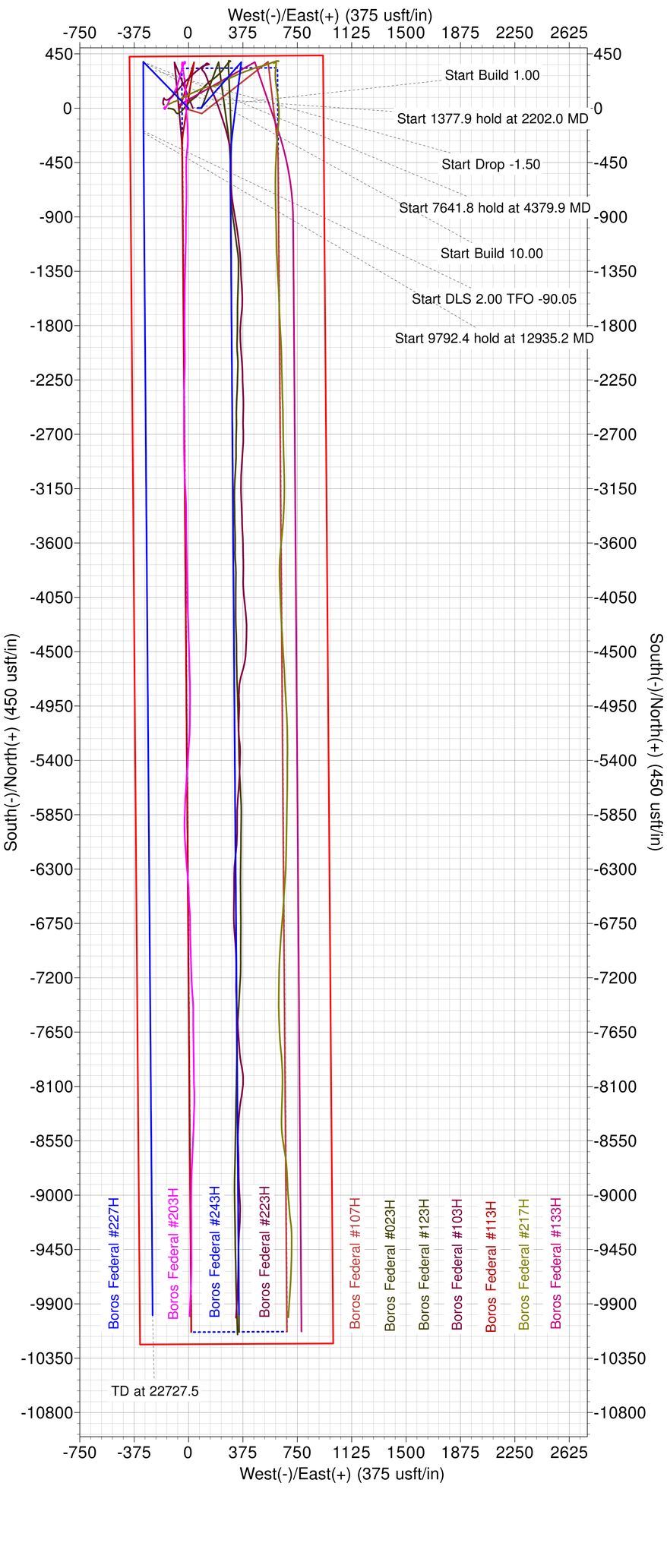
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Boros Federal #227H	11977.0	384.6	-311.9	382339.00	676008.00	32° 2' 59.611 N	103° 45' 54.908 W
BHL - Boros Federal #227H	12550.0	-9994.0	-247.6	371959.24	676072.18	32° 1' 16.888 N	103° 45' 54.796 W

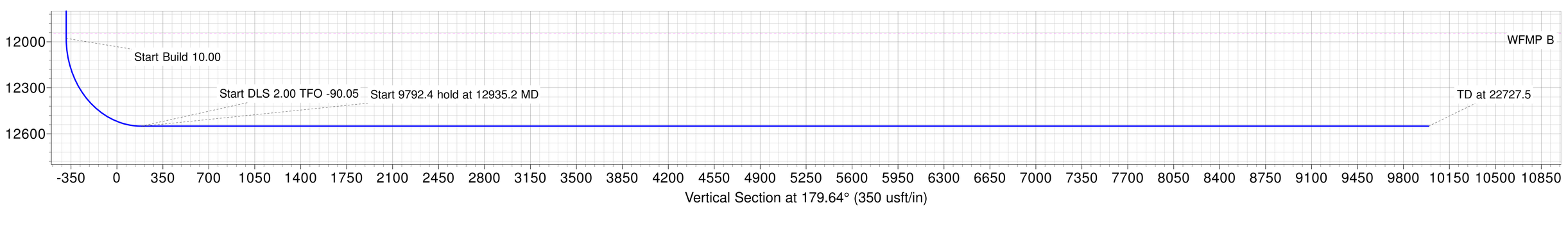
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1002.0	0.00	0.00	1002.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2202.0	12.00	320.96	2193.2	97.3	-78.9	1.00	320.96	-97.7	Start 1377.9 hold at 2202.0 MD
3579.9	12.00	320.96	3541.0	319.8	-259.3	0.00	0.00	-321.4	Start Drop -1.50
4379.9	0.00	0.00	4335.2	384.6	-311.9	1.50	180.00	-386.6	Start 7641.8 hold at 4379.9 MD
12021.7	0.00	0.00	11977.0	384.6	-311.9	0.00	0.00	-386.6	Start Build 10.00
12921.7	90.00	179.90	12550.0	-188.3	-310.9	10.00	179.90	186.4	Start DLS 2.00 TFO -90.05
12935.2	90.00	179.63	12550.0	-201.8	-310.8	2.00	-90.05	199.9	Start 9792.4 hold at 12935.2 MD
22727.5	90.00	179.63	12550.0	-9994.0	-247.6	0.00	0.00	9992.2	TD at 22727.5









Matador Production Company

Rustler Breaks
Boros
Boros Federal #227H

Wellbore #1

Plan: BLM Plan #2

Standard Planning Report

12 August, 2020

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Project Rustler Breaks

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		Using geodetic scale factor

Site Boros

Site Position:		**Northing:**	381,953.36 usft	**Latitude:**	32° 2' 55.786 N
From:	Lat/Long	**Easting:**	676,179.89 usft	**Longitude:**	103° 45' 52.934 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.30 °

Well Boros Federal #227H

Well Position	**+N/-S**	1.0 usft	**Northing:**	381,954.39 usft	**Latitude:**	32° 2' 55.789 N
	+E/-W	140.0 usft	**Easting:**	676,319.84 usft	**Longitude:**	103° 45' 51.308 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,225.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/11/2020	6.69	59.83	47,492.33686754

Design BLM Plan #2

Audit Notes:

Version:	1	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.64

Plan Survey Tool Program **Date** 8/12/2020

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,727.5	BLM Plan #2 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,002.0	0.00	0.00	1,002.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,202.0	12.00	320.96	2,193.2	97.3	-78.9	1.00	1.00	0.00	320.96	
3,579.9	12.00	320.96	3,541.0	319.8	-259.3	0.00	0.00	0.00	0.00	
4,379.9	0.00	0.00	4,335.2	384.6	-311.9	1.50	-1.50	0.00	180.00	
12,021.7	0.00	0.00	11,977.0	384.6	-311.9	0.00	0.00	0.00	0.00	VP - Boros Federal
12,921.7	90.00	179.90	12,550.0	-188.3	-310.9	10.00	10.00	0.00	179.90	
12,935.2	90.00	179.63	12,550.0	-201.8	-310.8	2.00	0.00	-2.00	-90.05	
22,727.5	90.00	179.63	12,550.0	-9,994.0	-247.6	0.00	0.00	0.00	0.00	BHL - Boros Federa

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,002.0	0.00	0.00	1,002.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
1,100.0	0.98	320.96	1,100.0	0.7	-0.5	-0.7	1.00	1.00	0.00
1,200.0	1.98	320.96	1,200.0	2.7	-2.2	-2.7	1.00	1.00	0.00
1,300.0	2.98	320.96	1,299.9	6.0	-4.9	-6.0	1.00	1.00	0.00
1,358.4	3.56	320.96	1,358.2	8.6	-7.0	-8.7	1.00	1.00	0.00
Rustler									
1,400.0	3.98	320.96	1,399.7	10.7	-8.7	-10.8	1.00	1.00	0.00
1,490.1	4.88	320.96	1,489.5	16.1	-13.1	-16.2	1.00	1.00	0.00
Salado (Top Salt)									
1,500.0	4.98	320.96	1,499.4	16.8	-13.6	-16.9	1.00	1.00	0.00
1,600.0	5.98	320.96	1,598.9	24.2	-19.6	-24.3	1.00	1.00	0.00
1,700.0	6.98	320.96	1,698.3	33.0	-26.7	-33.2	1.00	1.00	0.00
1,800.0	7.98	320.96	1,797.4	43.1	-34.9	-43.3	1.00	1.00	0.00
1,900.0	8.98	320.96	1,896.3	54.6	-44.2	-54.8	1.00	1.00	0.00
2,000.0	9.98	320.96	1,995.0	67.3	-54.6	-67.7	1.00	1.00	0.00
2,100.0	10.98	320.96	2,093.3	81.5	-66.1	-81.9	1.00	1.00	0.00
2,200.0	11.98	320.96	2,191.3	96.9	-78.6	-97.4	1.00	1.00	0.00
2,202.0	12.00	320.96	2,193.2	97.3	-78.9	-97.7	1.00	1.00	0.00
Start 1377.9 hold at 2202.0 MD									
2,300.0	12.00	320.96	2,289.1	113.1	-91.7	-113.7	0.00	0.00	0.00
2,400.0	12.00	320.96	2,386.9	129.2	-104.8	-129.9	0.00	0.00	0.00
2,500.0	12.00	320.96	2,484.7	145.4	-117.9	-146.1	0.00	0.00	0.00
2,600.0	12.00	320.96	2,582.5	161.5	-131.0	-162.3	0.00	0.00	0.00
2,700.0	12.00	320.96	2,680.4	177.7	-144.1	-178.6	0.00	0.00	0.00
2,800.0	12.00	320.96	2,778.2	193.8	-157.2	-194.8	0.00	0.00	0.00
2,900.0	12.00	320.96	2,876.0	210.0	-170.3	-211.0	0.00	0.00	0.00
3,000.0	12.00	320.96	2,973.8	226.1	-183.3	-227.3	0.00	0.00	0.00
3,100.0	12.00	320.96	3,071.6	242.3	-196.4	-243.5	0.00	0.00	0.00
3,200.0	12.00	320.96	3,169.4	258.4	-209.5	-259.7	0.00	0.00	0.00
3,300.0	12.00	320.96	3,267.3	274.6	-222.6	-276.0	0.00	0.00	0.00
3,400.0	12.00	320.96	3,365.1	290.7	-235.7	-292.2	0.00	0.00	0.00
3,500.0	12.00	320.96	3,462.9	306.9	-248.8	-308.4	0.00	0.00	0.00
3,579.9	12.00	320.96	3,541.0	319.8	-259.3	-321.4	0.00	0.00	0.00
Start Drop -1.50									
3,600.0	11.70	320.96	3,560.7	323.0	-261.9	-324.6	1.50	-1.50	0.00
3,700.0	10.20	320.96	3,658.9	337.7	-273.8	-339.5	1.50	-1.50	0.00
3,800.0	8.70	320.96	3,757.5	350.5	-284.2	-352.3	1.50	-1.50	0.00
3,900.0	7.20	320.96	3,856.6	361.2	-292.9	-363.1	1.50	-1.50	0.00
4,000.0	5.70	320.96	3,955.9	370.0	-300.0	-371.8	1.50	-1.50	0.00
4,100.0	4.20	320.96	4,055.6	376.7	-305.4	-378.6	1.50	-1.50	0.00
4,143.0	3.55	320.96	4,098.5	378.9	-307.2	-380.8	1.50	-1.50	0.00

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
Base Salt									
4,173.1	3.10	320.96	4,128.5	380.3	-308.3	-382.2	1.50	-1.50	0.00
Bell Canyon									
4,200.0	2.70	320.96	4,155.4	381.3	-309.2	-383.3	1.50	-1.50	0.00
4,300.0	1.20	320.96	4,255.3	384.0	-311.3	-385.9	1.50	-1.50	0.00
4,379.9	0.00	0.00	4,335.2	384.6	-311.9	-386.6	1.50	-1.50	0.00
Start 7641.8 hold at 4379.9 MD									
4,400.0	0.00	0.00	4,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
4,500.0	0.00	0.00	4,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
4,900.0	0.00	0.00	4,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,100.0	0.00	0.00	5,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,200.0	0.00	0.00	5,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,225.2	0.00	0.00	5,180.5	384.6	-311.9	-386.6	0.00	0.00	0.00
Cherry Canyon									
5,300.0	0.00	0.00	5,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,100.0	0.00	0.00	6,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,431.8	0.00	0.00	6,387.1	384.6	-311.9	-386.6	0.00	0.00	0.00
Brushy Canyon									
6,500.0	0.00	0.00	6,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,553.2	0.00	0.00	7,508.5	384.6	-311.9	-386.6	0.00	0.00	0.00
L. Brushy Canyon									
7,600.0	0.00	0.00	7,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,114.5	0.00	0.00	8,069.8	384.6	-311.9	-386.6	0.00	0.00	0.00
BSGL									

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
8,200.0	0.00	0.00	8,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,251.9	0.00	0.00	8,207.2	384.6	-311.9	-386.6	0.00	0.00	0.00
Avalon-SS									
8,300.0	0.00	0.00	8,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,258.9	0.00	0.00	9,214.2	384.6	-311.9	-386.6	0.00	0.00	0.00
FBSG									
9,300.0	0.00	0.00	9,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,539.5	0.00	0.00	9,494.8	384.6	-311.9	-386.6	0.00	0.00	0.00
SBSC									
9,600.0	0.00	0.00	9,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,793.5	0.00	0.00	9,748.8	384.6	-311.9	-386.6	0.00	0.00	0.00
SBSG									
9,800.0	0.00	0.00	9,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,248.7	0.00	0.00	10,204.0	384.6	-311.9	-386.6	0.00	0.00	0.00
TBSC									
10,300.0	0.00	0.00	10,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,012.1	0.00	0.00	10,967.3	384.6	-311.9	-386.6	0.00	0.00	0.00
TBSG									
11,100.0	0.00	0.00	11,055.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,155.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,255.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,325.3	0.00	0.00	11,280.6	384.6	-311.9	-386.6	0.00	0.00	0.00
L. TBSG									
11,400.0	0.00	0.00	11,355.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,408.2	0.00	0.00	11,363.5	384.6	-311.9	-386.6	0.00	0.00	0.00
WFMP-A									
11,500.0	0.00	0.00	11,455.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,555.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,655.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,755.3	384.6	-311.9	-386.6	0.00	0.00	0.00

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
11,900.0	0.00	0.00	11,855.3	384.6	-311.9	-386.6	0.00	0.00	0.00
11,988.3	0.00	0.00	11,943.5	384.6	-311.9	-386.6	0.00	0.00	0.00
WFMP B									
12,000.0	0.00	0.00	11,955.3	384.6	-311.9	-386.6	0.00	0.00	0.00
12,021.7	0.00	0.00	11,977.0	384.6	-311.9	-386.6	0.00	0.00	0.00
Start Build 10.00 - VP - Boros Federal #227H									
12,100.0	7.83	179.90	12,055.1	379.3	-311.8	-381.2	10.00	10.00	0.00
12,200.0	17.83	179.90	12,152.4	357.1	-311.8	-359.0	10.00	10.00	0.00
12,300.0	27.83	179.90	12,244.5	318.3	-311.7	-320.3	10.00	10.00	0.00
12,400.0	37.83	179.90	12,328.4	264.2	-311.6	-266.2	10.00	10.00	0.00
12,500.0	47.83	179.90	12,401.7	196.3	-311.5	-198.3	10.00	10.00	0.00
12,600.0	57.83	179.90	12,462.0	116.7	-311.4	-118.7	10.00	10.00	0.00
12,700.0	67.83	179.90	12,507.6	27.9	-311.2	-29.8	10.00	10.00	0.00
12,800.0	77.83	179.90	12,537.1	-67.6	-311.1	65.6	10.00	10.00	0.00
12,900.0	87.83	179.90	12,549.5	-166.6	-310.9	164.7	10.00	10.00	0.00
12,921.7	90.00	179.90	12,550.0	-188.3	-310.9	186.4	10.00	10.00	0.00
Start DLS 2.00 TFO -90.05									
12,935.2	90.00	179.63	12,550.0	-201.8	-310.8	199.9	2.00	0.00	-2.00
Start 9792.4 hold at 12935.2 MD									
13,000.0	90.00	179.63	12,550.0	-266.6	-310.4	264.7	0.00	0.00	0.00
13,100.0	90.00	179.63	12,550.0	-366.6	-309.7	364.7	0.00	0.00	0.00
13,200.0	90.00	179.63	12,550.0	-466.6	-309.1	464.7	0.00	0.00	0.00
13,300.0	90.00	179.63	12,550.0	-566.6	-308.4	564.7	0.00	0.00	0.00
13,400.0	90.00	179.63	12,550.0	-666.6	-307.8	664.7	0.00	0.00	0.00
13,500.0	90.00	179.63	12,550.0	-766.6	-307.2	764.7	0.00	0.00	0.00
13,600.0	90.00	179.63	12,550.0	-866.6	-306.5	864.7	0.00	0.00	0.00
13,700.0	90.00	179.63	12,550.0	-966.6	-305.9	964.7	0.00	0.00	0.00
13,800.0	90.00	179.63	12,550.0	-1,066.6	-305.2	1,064.7	0.00	0.00	0.00
13,900.0	90.00	179.63	12,550.0	-1,166.6	-304.6	1,164.7	0.00	0.00	0.00
14,000.0	90.00	179.63	12,550.0	-1,266.6	-303.9	1,264.7	0.00	0.00	0.00
14,100.0	90.00	179.63	12,550.0	-1,366.6	-303.3	1,364.7	0.00	0.00	0.00
14,200.0	90.00	179.63	12,550.0	-1,466.6	-302.6	1,464.7	0.00	0.00	0.00
14,300.0	90.00	179.63	12,550.0	-1,566.6	-302.0	1,564.7	0.00	0.00	0.00
14,400.0	90.00	179.63	12,550.0	-1,666.6	-301.3	1,664.7	0.00	0.00	0.00
14,500.0	90.00	179.63	12,550.0	-1,766.6	-300.7	1,764.7	0.00	0.00	0.00
14,600.0	90.00	179.63	12,550.0	-1,866.6	-300.1	1,864.7	0.00	0.00	0.00
14,700.0	90.00	179.63	12,550.0	-1,966.6	-299.4	1,964.7	0.00	0.00	0.00
14,800.0	90.00	179.63	12,550.0	-2,066.6	-298.8	2,064.7	0.00	0.00	0.00
14,900.0	90.00	179.63	12,550.0	-2,166.6	-298.1	2,164.7	0.00	0.00	0.00
15,000.0	90.00	179.63	12,550.0	-2,266.6	-297.5	2,264.7	0.00	0.00	0.00
15,100.0	90.00	179.63	12,550.0	-2,366.6	-296.8	2,364.7	0.00	0.00	0.00
15,200.0	90.00	179.63	12,550.0	-2,466.6	-296.2	2,464.7	0.00	0.00	0.00
15,300.0	90.00	179.63	12,550.0	-2,566.6	-295.5	2,564.7	0.00	0.00	0.00
15,400.0	90.00	179.63	12,550.0	-2,666.6	-294.9	2,664.7	0.00	0.00	0.00
15,500.0	90.00	179.63	12,550.0	-2,766.6	-294.3	2,764.7	0.00	0.00	0.00
15,600.0	90.00	179.63	12,550.0	-2,866.6	-293.6	2,864.7	0.00	0.00	0.00
15,700.0	90.00	179.63	12,550.0	-2,966.6	-293.0	2,964.7	0.00	0.00	0.00
15,800.0	90.00	179.63	12,550.0	-3,066.6	-292.3	3,064.7	0.00	0.00	0.00
15,900.0	90.00	179.63	12,550.0	-3,166.6	-291.7	3,164.7	0.00	0.00	0.00
16,000.0	90.00	179.63	12,550.0	-3,266.6	-291.0	3,264.7	0.00	0.00	0.00
16,100.0	90.00	179.63	12,550.0	-3,366.6	-290.4	3,364.7	0.00	0.00	0.00
16,200.0	90.00	179.63	12,550.0	-3,466.6	-289.7	3,464.7	0.00	0.00	0.00
16,300.0	90.00	179.63	12,550.0	-3,566.6	-289.1	3,564.7	0.00	0.00	0.00

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
16,400.0	90.00	179.63	12,550.0	-3,666.6	-288.4	3,664.7	0.00	0.00	0.00
16,500.0	90.00	179.63	12,550.0	-3,766.6	-287.8	3,764.7	0.00	0.00	0.00
16,600.0	90.00	179.63	12,550.0	-3,866.6	-287.2	3,864.7	0.00	0.00	0.00
16,700.0	90.00	179.63	12,550.0	-3,966.6	-286.5	3,964.7	0.00	0.00	0.00
16,800.0	90.00	179.63	12,550.0	-4,066.6	-285.9	4,064.7	0.00	0.00	0.00
16,900.0	90.00	179.63	12,550.0	-4,166.6	-285.2	4,164.7	0.00	0.00	0.00
17,000.0	90.00	179.63	12,550.0	-4,266.6	-284.6	4,264.7	0.00	0.00	0.00
17,100.0	90.00	179.63	12,550.0	-4,366.6	-283.9	4,364.7	0.00	0.00	0.00
17,200.0	90.00	179.63	12,550.0	-4,466.6	-283.3	4,464.7	0.00	0.00	0.00
17,300.0	90.00	179.63	12,550.0	-4,566.5	-282.6	4,564.7	0.00	0.00	0.00
17,400.0	90.00	179.63	12,550.0	-4,666.5	-282.0	4,664.7	0.00	0.00	0.00
17,500.0	90.00	179.63	12,550.0	-4,766.5	-281.4	4,764.7	0.00	0.00	0.00
17,600.0	90.00	179.63	12,550.0	-4,866.5	-280.7	4,864.7	0.00	0.00	0.00
17,700.0	90.00	179.63	12,550.0	-4,966.5	-280.1	4,964.7	0.00	0.00	0.00
17,800.0	90.00	179.63	12,550.0	-5,066.5	-279.4	5,064.7	0.00	0.00	0.00
17,900.0	90.00	179.63	12,550.0	-5,166.5	-278.8	5,164.7	0.00	0.00	0.00
18,000.0	90.00	179.63	12,550.0	-5,266.5	-278.1	5,264.7	0.00	0.00	0.00
18,100.0	90.00	179.63	12,550.0	-5,366.5	-277.5	5,364.7	0.00	0.00	0.00
18,200.0	90.00	179.63	12,550.0	-5,466.5	-276.8	5,464.7	0.00	0.00	0.00
18,300.0	90.00	179.63	12,550.0	-5,566.5	-276.2	5,564.7	0.00	0.00	0.00
18,400.0	90.00	179.63	12,550.0	-5,666.5	-275.6	5,664.7	0.00	0.00	0.00
18,500.0	90.00	179.63	12,550.0	-5,766.5	-274.9	5,764.7	0.00	0.00	0.00
18,600.0	90.00	179.63	12,550.0	-5,866.5	-274.3	5,864.7	0.00	0.00	0.00
18,700.0	90.00	179.63	12,550.0	-5,966.5	-273.6	5,964.7	0.00	0.00	0.00
18,800.0	90.00	179.63	12,550.0	-6,066.5	-273.0	6,064.7	0.00	0.00	0.00
18,900.0	90.00	179.63	12,550.0	-6,166.5	-272.3	6,164.7	0.00	0.00	0.00
19,000.0	90.00	179.63	12,550.0	-6,266.5	-271.7	6,264.7	0.00	0.00	0.00
19,100.0	90.00	179.63	12,550.0	-6,366.5	-271.0	6,364.7	0.00	0.00	0.00
19,200.0	90.00	179.63	12,550.0	-6,466.5	-270.4	6,464.7	0.00	0.00	0.00
19,300.0	90.00	179.63	12,550.0	-6,566.5	-269.7	6,564.7	0.00	0.00	0.00
19,400.0	90.00	179.63	12,550.0	-6,666.5	-269.1	6,664.7	0.00	0.00	0.00
19,500.0	90.00	179.63	12,550.0	-6,766.5	-268.5	6,764.7	0.00	0.00	0.00
19,600.0	90.00	179.63	12,550.0	-6,866.5	-267.8	6,864.7	0.00	0.00	0.00
19,700.0	90.00	179.63	12,550.0	-6,966.5	-267.2	6,964.7	0.00	0.00	0.00
19,800.0	90.00	179.63	12,550.0	-7,066.5	-266.5	7,064.7	0.00	0.00	0.00
19,900.0	90.00	179.63	12,550.0	-7,166.5	-265.9	7,164.7	0.00	0.00	0.00
20,000.0	90.00	179.63	12,550.0	-7,266.5	-265.2	7,264.7	0.00	0.00	0.00
20,100.0	90.00	179.63	12,550.0	-7,366.5	-264.6	7,364.7	0.00	0.00	0.00
20,200.0	90.00	179.63	12,550.0	-7,466.5	-263.9	7,464.7	0.00	0.00	0.00
20,300.0	90.00	179.63	12,550.0	-7,566.5	-263.3	7,564.7	0.00	0.00	0.00
20,400.0	90.00	179.63	12,550.0	-7,666.5	-262.7	7,664.7	0.00	0.00	0.00
20,500.0	90.00	179.63	12,550.0	-7,766.5	-262.0	7,764.7	0.00	0.00	0.00
20,600.0	90.00	179.63	12,550.0	-7,866.5	-261.4	7,864.7	0.00	0.00	0.00
20,700.0	90.00	179.63	12,550.0	-7,966.5	-260.7	7,964.7	0.00	0.00	0.00
20,800.0	90.00	179.63	12,550.0	-8,066.5	-260.1	8,064.7	0.00	0.00	0.00
20,900.0	90.00	179.63	12,550.0	-8,166.5	-259.4	8,164.7	0.00	0.00	0.00
21,000.0	90.00	179.63	12,550.0	-8,266.5	-258.8	8,264.7	0.00	0.00	0.00
21,100.0	90.00	179.63	12,550.0	-8,366.5	-258.1	8,364.7	0.00	0.00	0.00
21,200.0	90.00	179.63	12,550.0	-8,466.5	-257.5	8,464.7	0.00	0.00	0.00
21,300.0	90.00	179.63	12,550.0	-8,566.5	-256.8	8,564.7	0.00	0.00	0.00
21,400.0	90.00	179.63	12,550.0	-8,666.5	-256.2	8,664.7	0.00	0.00	0.00
21,500.0	90.00	179.63	12,550.0	-8,766.5	-255.6	8,764.7	0.00	0.00	0.00
21,600.0	90.00	179.63	12,550.0	-8,866.5	-254.9	8,864.7	0.00	0.00	0.00
21,700.0	90.00	179.63	12,550.0	-8,966.5	-254.3	8,964.7	0.00	0.00	0.00

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

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)
21,800.0	90.00	179.63	12,550.0	-9,066.5	-253.6	9,064.7	0.00	0.00	0.00
21,900.0	90.00	179.63	12,550.0	-9,166.5	-253.0	9,164.7	0.00	0.00	0.00
22,000.0	90.00	179.63	12,550.0	-9,266.5	-252.3	9,264.7	0.00	0.00	0.00
22,100.0	90.00	179.63	12,550.0	-9,366.4	-251.7	9,364.7	0.00	0.00	0.00
22,200.0	90.00	179.63	12,550.0	-9,466.4	-251.0	9,464.7	0.00	0.00	0.00
22,300.0	90.00	179.63	12,550.0	-9,566.4	-250.4	9,564.7	0.00	0.00	0.00
22,400.0	90.00	179.63	12,550.0	-9,666.4	-249.8	9,664.7	0.00	0.00	0.00
22,500.0	90.00	179.63	12,550.0	-9,766.4	-249.1	9,764.7	0.00	0.00	0.00
22,600.0	90.00	179.63	12,550.0	-9,866.4	-248.5	9,864.7	0.00	0.00	0.00
22,700.0	90.00	179.63	12,550.0	-9,966.4	-247.8	9,964.7	0.00	0.00	0.00
22,727.5	90.00	179.63	12,550.0	-9,994.0	-247.6	9,992.2	0.00	0.00	0.00
TD at 22727.5 - BHL - Boros Federal #227H									

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
VP - Boros Federal #2 - plan hits target center - Point	0.00	0.01	11,977.0	384.6	-311.9	382,339.00	676,008.00	32° 2' 59.611 N	103° 45' 54.908 W
BHL - Boros Federal # - plan hits target center - Point	0.00	0.00	12,550.0	-9,994.0	-247.6	371,959.24	676,072.17	32° 1' 16.888 N	103° 45' 54.796 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,358.4	1,358.2	Rustler			
1,490.1	1,489.5	Salado (Top Salt)			
4,143.0	4,098.5	Base Salt			
4,173.1	4,128.5	Bell Canyon			
5,225.2	5,180.5	Cherry Canyon			
6,431.8	6,387.1	Brushy Canyon			
7,553.2	7,508.5	L. Brushy Canyon			
8,114.5	8,069.8	BSGL			
8,251.9	8,207.2	Avalon-SS			
9,258.9	9,214.2	FBSG			
9,539.5	9,494.8	SBSC			
9,793.5	9,748.8	SBSG			
10,248.7	10,204.0	TBSC			
11,012.1	10,967.3	TBSG			
11,325.3	11,280.6	L. TBSG			
11,408.2	11,363.5	WFMP-A			
11,988.3	11,943.5	WFMP B			

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3253.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3253.5usft
Site:	Boros	**North Reference:**	Grid
Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,002.0	1,002.0	0.0	0.0	Start Build 1.00
2,202.0	2,193.2	97.3	-78.9	Start 1377.9 hold at 2202.0 MD
3,579.9	3,541.0	319.8	-259.3	Start Drop -1.50
4,379.9	4,335.2	384.6	-311.9	Start 7641.8 hold at 4379.9 MD
12,021.7	11,977.0	384.6	-311.9	Start Build 10.00
12,921.7	12,550.0	-188.3	-310.9	Start DLS 2.00 TFO -90.05
12,935.2	12,550.0	-201.8	-310.8	Start 9792.4 hold at 12935.2 MD
22,727.5	12,550.0	-9,994.0	-247.6	TD at 22727.5

Matador Production Company

Rustler Breaks
Boros
Boros Federal #227H

Wellbore #1
BLM Plan #2

Anticollision Report

12 August, 2020

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Reference BLM Plan #2

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/11/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	22,727.5	BLM Plan #2 (Wellbore #1)	MWD	OWSG MWD - Standard

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
Boros						
Boros Federal #023H - Wellbore #1 - BLM Plan #2	800.0	798.0	90.0	84.7	17.088	CC
Boros Federal #023H - Wellbore #1 - BLM Plan #2	900.0	897.5	90.3	84.3	15.089	ES
Boros Federal #023H - Wellbore #1 - BLM Plan #2	7,400.0	7,360.3	521.8	468.6	9.802	SF
Boros Federal #103H - Wellbore #1 - BLM Plan #2	1,054.3	1,053.5	30.0	22.9	4.232	CC
Boros Federal #103H - Wellbore #1 - BLM Plan #2	1,200.0	1,199.5	30.3	22.1	3.721	ES
Boros Federal #103H - Wellbore #1 - BLM Plan #2	1,300.0	1,299.5	31.3	22.4	3.534	SF
Boros Federal #107H - Wellbore #1 - BLM Plan #2	854.7	855.2	10.4	4.7	1.822	CC
Boros Federal #107H - Wellbore #1 - BLM Plan #2	900.0	900.5	10.5	4.5	1.744	ES
Boros Federal #107H - Wellbore #1 - BLM Plan #2	1,002.0	1,002.4	11.6	4.8	1.716	SF
Boros Federal #113H - Wellbore #1 - BLM Plan #2	1,656.9	1,655.5	46.9	35.5	4.107	CC
Boros Federal #113H - Wellbore #1 - BLM Plan #2	1,700.0	1,701.7	47.2	35.4	4.016	ES, SF
Boros Federal #123H - Wellbore #1 - Actual	1,501.2	1,501.2	88.7	78.6	8.780	CC, ES
Boros Federal #123H - Wellbore #1 - Actual	1,900.0	1,904.9	97.8	84.8	7.496	SF
Boros Federal #133H - Wellbore #1 - BLM Plan #2	1,875.2	1,873.1	17.4	4.4	1.337	Level 3, CC, ES, SF
Boros Federal #203H - Wellbore #1 - Actual	2,213.0	2,214.0	129.1	113.8	8.419	CC, ES
Boros Federal #203H - Wellbore #1 - Actual	10,900.0	10,877.8	266.6	189.5	3.458	SF
Boros Federal #217H - Wellbore #1 - Actual	1,979.2	1,978.0	18.1	4.4	1.317	Level 3, CC, ES, SF
Boros Federal #223H - Wellbore #1 - Actual	2,419.8	2,408.4	79.0	61.9	4.626	CC, ES
Boros Federal #223H - Wellbore #1 - Actual	22,727.5	22,764.0	576.0	231.5	1.672	SF
Boros Federal #243H - Wellbore #1 - BLM Plan #2	1,002.0	1,001.0	60.0	53.3	8.932	CC
Boros Federal #243H - Wellbore #1 - BLM Plan #2	1,100.0	1,101.0	60.5	53.1	8.152	ES
Boros Federal #243H - Wellbore #1 - BLM Plan #2	22,727.5	23,895.5	1,316.3	1,099.6	6.073	SF

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	2.0	-2.0	0.0	0.0	89.58	0.7	90.0	90.0				
100.0	100.0	102.0	98.0	0.1	0.1	89.58	0.7	90.0	90.0	89.8	0.26	341.639	
200.0	200.0	202.0	198.0	0.5	0.5	89.58	0.7	90.0	90.0	89.0	0.98	91.812	
300.0	300.0	302.0	298.0	0.8	0.9	89.58	0.7	90.0	90.0	88.3	1.70	53.032	
400.0	400.0	402.0	398.0	1.2	1.2	89.58	0.7	90.0	90.0	87.6	2.41	37.284	
500.0	500.0	502.0	498.0	1.6	1.6	89.58	0.7	90.0	90.0	86.9	3.13	28.747	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
600.0	600.0	602.0	598.0	1.9	1.9	89.58	0.7	90.0	90.0	86.2	3.85	23.391	
700.0	700.0	702.0	698.0	2.3	2.3	89.58	0.7	90.0	90.0	85.4	4.57	19.718	
800.0	800.0	798.0	798.0	2.6	2.6	89.58	0.7	90.0	90.0	84.7	5.27	17.088	CC
900.0	900.0	897.5	897.5	3.0	3.0	89.08	1.4	90.3	90.3	84.3	5.98	15.089	ES
1,002.0	1,002.0	999.0	998.9	3.4	3.4	87.51	4.0	91.0	91.1	84.4	6.71	13.579	
1,100.0	1,100.0	1,096.4	1,096.2	3.7	3.7	124.50	8.0	92.3	93.1	85.7	7.41	12.567	
1,200.0	1,200.0	1,195.6	1,195.3	4.1	4.1	122.42	13.7	94.0	96.8	88.7	8.12	11.929	
1,300.0	1,299.9	1,294.7	1,294.0	4.4	4.4	120.45	21.1	96.3	102.3	93.5	8.83	11.589	
1,400.0	1,399.7	1,393.5	1,392.5	4.8	4.8	118.66	30.0	99.0	109.6	100.0	9.55	11.479	
1,500.0	1,499.4	1,492.2	1,490.5	5.1	5.1	117.10	40.6	102.3	118.5	108.3	10.26	11.546	
1,600.0	1,598.9	1,609.6	1,587.9	5.5	5.6	115.77	52.7	106.0	129.1	118.1	11.06	11.677	
1,700.0	1,698.3	1,689.7	1,686.2	5.9	5.9	114.90	65.9	110.1	141.1	129.3	11.73	12.030	
1,800.0	1,797.4	1,788.9	1,784.4	6.3	6.3	114.73	79.1	114.1	153.7	141.3	12.48	12.324	
1,900.0	1,896.3	1,888.0	1,882.6	6.6	6.7	115.11	92.3	118.2	167.1	153.9	13.23	12.631	
2,000.0	1,995.0	1,986.9	1,980.5	7.0	7.1	115.92	105.4	122.2	181.3	167.3	14.00	12.950	
2,100.0	2,093.3	2,085.7	2,078.4	7.4	7.5	117.04	118.6	126.3	196.3	181.5	14.78	13.282	
2,202.0	2,193.2	2,186.2	2,177.9	7.9	7.9	118.42	131.9	130.4	212.5	196.9	15.58	13.638	
2,300.0	2,289.1	2,282.8	2,273.5	8.3	8.2	119.88	144.8	134.3	228.6	212.3	16.36	13.974	
2,400.0	2,386.9	2,381.2	2,371.0	8.7	8.6	121.16	157.9	138.4	245.2	228.1	17.16	14.290	
2,500.0	2,484.7	2,479.7	2,468.5	9.2	9.0	122.29	171.0	142.4	261.9	243.9	17.96	14.581	
2,600.0	2,582.5	2,578.2	2,566.1	9.6	9.4	123.28	184.1	146.4	278.7	259.9	18.77	14.848	
2,700.0	2,680.4	2,676.7	2,663.6	10.0	9.8	124.16	197.2	150.4	295.5	275.9	19.58	15.095	
2,800.0	2,778.2	2,775.1	2,761.1	10.5	10.2	124.94	210.3	154.5	312.4	292.0	20.39	15.324	
2,900.0	2,876.0	2,873.6	2,858.6	11.0	10.6	125.64	223.4	158.5	329.4	308.2	21.20	15.536	
3,000.0	2,973.8	2,972.1	2,956.1	11.4	11.0	126.27	236.5	162.5	346.4	324.4	22.02	15.733	
3,100.0	3,071.6	3,070.6	3,053.6	11.9	11.4	126.85	249.6	166.6	363.4	340.6	22.83	15.917	
3,200.0	3,169.4	3,169.0	3,151.2	12.3	11.8	127.37	262.7	170.6	380.5	356.8	23.65	16.088	
3,300.0	3,267.3	3,267.5	3,248.7	12.8	12.2	127.85	275.8	174.6	397.6	373.1	24.47	16.248	
3,400.0	3,365.1	3,366.0	3,346.2	13.3	12.7	128.29	288.9	178.6	414.7	389.4	25.29	16.398	
3,500.0	3,462.9	3,464.5	3,443.7	13.7	13.1	128.69	302.0	182.7	431.9	405.7	26.11	16.538	
3,579.9	3,541.0	3,543.1	3,521.6	14.1	13.4	128.99	312.4	185.9	445.6	418.8	26.77	16.645	
3,600.0	3,560.7	3,562.9	3,541.2	14.2	13.5	129.10	315.1	186.7	449.0	422.1	26.93	16.670	
3,700.0	3,658.9	3,661.6	3,639.0	14.6	13.9	129.46	328.2	190.7	465.0	437.3	27.75	16.756	
3,800.0	3,757.5	3,760.6	3,737.0	15.1	14.3	129.54	341.4	194.8	479.4	450.8	28.56	16.784	
3,900.0	3,856.6	3,862.1	3,837.6	15.5	14.7	129.42	354.3	198.8	492.0	462.6	29.38	16.746	
4,000.0	3,955.9	3,965.4	3,940.3	15.9	15.1	129.33	365.1	202.1	502.2	472.1	30.18	16.640	
4,100.0	4,055.6	4,069.0	4,043.5	16.3	15.5	129.29	373.2	204.6	510.1	479.1	30.95	16.478	
4,200.0	4,155.4	4,172.9	4,147.3	16.6	15.9	129.28	378.6	206.2	515.5	483.8	31.70	16.262	
4,300.0	4,255.3	4,276.9	4,251.2	17.0	16.2	129.32	381.3	207.1	518.4	486.0	32.41	15.997	
4,379.9	4,335.2	4,358.9	4,333.2	17.2	16.5	90.33	381.7	207.2	519.0	486.1	32.95	15.753	
4,400.0	4,355.3	4,379.0	4,353.3	17.3	16.6	90.33	381.7	207.2	519.0	486.0	33.08	15.690	
4,500.0	4,455.3	4,479.0	4,453.3	17.6	16.9	90.33	381.7	207.2	519.0	485.3	33.74	15.384	
4,600.0	4,555.3	4,579.0	4,553.3	17.9	17.2	90.33	381.7	207.2	519.0	484.6	34.40	15.088	
4,700.0	4,655.3	4,679.0	4,653.3	18.2	17.6	90.33	381.7	207.2	519.0	484.0	35.06	14.803	
4,800.0	4,755.3	4,779.0	4,753.3	18.6	17.9	90.33	381.7	207.2	519.0	483.3	35.73	14.528	
4,900.0	4,855.3	4,879.0	4,853.3	18.9	18.2	90.33	381.7	207.2	519.0	482.6	36.39	14.261	
5,000.0	4,955.3	4,979.0	4,953.3	19.2	18.6	90.33	381.7	207.2	519.0	482.0	37.06	14.004	
5,100.0	5,055.3	5,079.0	5,053.3	19.5	18.9	90.33	381.7	207.2	519.0	481.3	37.73	13.755	
5,200.0	5,155.3	5,179.0	5,153.3	19.9	19.2	90.33	381.7	207.2	519.0	480.6	38.41	13.514	
5,300.0	5,255.3	5,279.0	5,253.3	20.2	19.6	90.33	381.7	207.2	519.0	480.0	39.08	13.281	
5,400.0	5,355.3	5,379.0	5,353.3	20.5	19.9	90.33	381.7	207.2	519.0	479.3	39.76	13.056	
5,500.0	5,455.3	5,479.0	5,453.3	20.8	20.2	90.33	381.7	207.2	519.0	478.6	40.43	12.837	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
5,600.0	5,555.3	5,579.0	5,553.3	21.2	20.6	90.33	381.7	207.2	519.0	477.9	41.11	12.625	
5,700.0	5,655.3	5,679.0	5,653.3	21.5	20.9	90.33	381.7	207.2	519.0	477.2	41.79	12.420	
5,800.0	5,755.3	5,779.0	5,753.3	21.8	21.3	90.33	381.7	207.2	519.0	476.6	42.47	12.221	
5,900.0	5,855.3	5,879.0	5,853.3	22.2	21.6	90.33	381.7	207.2	519.0	475.9	43.15	12.028	
6,000.0	5,955.3	5,979.0	5,953.3	22.5	22.0	90.33	381.7	207.2	519.0	475.2	43.84	11.840	
6,100.0	6,055.3	6,079.0	6,053.3	22.8	22.3	90.33	381.7	207.2	519.0	474.5	44.52	11.659	
6,200.0	6,155.3	6,179.0	6,153.3	23.2	22.6	90.33	381.7	207.2	519.0	473.8	45.20	11.482	
6,300.0	6,255.3	6,279.0	6,253.3	23.5	23.0	90.33	381.7	207.2	519.0	473.1	45.89	11.310	
6,400.0	6,355.3	6,379.0	6,353.3	23.9	23.3	90.33	381.7	207.2	519.0	472.5	46.58	11.143	
6,500.0	6,455.3	6,479.0	6,453.3	24.2	23.7	90.33	381.7	207.2	519.0	471.8	47.27	10.981	
6,600.0	6,555.3	6,579.0	6,553.3	24.5	24.0	90.33	381.7	207.2	519.0	471.1	47.95	10.824	
6,700.0	6,655.3	6,679.0	6,653.3	24.9	24.4	90.33	381.7	207.2	519.0	470.4	48.64	10.670	
6,800.0	6,755.3	6,779.0	6,753.3	25.2	24.7	90.33	381.7	207.2	519.0	469.7	49.33	10.521	
6,900.0	6,855.3	6,879.0	6,853.3	25.5	25.1	90.33	381.7	207.2	519.0	469.0	50.02	10.375	
7,000.0	6,955.3	6,979.0	6,953.3	25.9	25.4	90.33	381.7	207.2	519.0	468.3	50.72	10.234	
7,100.0	7,055.3	7,079.0	7,053.3	26.2	25.7	90.33	381.7	207.2	519.0	467.6	51.41	10.096	
7,200.0	7,155.3	7,179.0	7,153.3	26.6	26.1	90.33	381.7	207.2	519.0	466.9	52.10	9.962	
7,204.6	7,159.9	7,183.6	7,157.9	26.6	26.1	90.33	381.7	207.2	519.0	466.9	52.13	9.956	
7,300.0	7,255.3	7,272.8	7,247.1	26.9	26.4	90.63	378.9	207.5	519.4	466.7	52.74	9.849	
7,400.0	7,355.3	7,360.3	7,333.1	27.2	26.6	92.28	363.9	209.2	521.8	468.6	53.24	9.802	SF
7,500.0	7,455.3	7,441.5	7,410.1	27.6	26.8	95.04	338.4	212.0	527.7	474.1	53.55	9.854	
7,600.0	7,555.3	7,514.3	7,475.4	27.9	26.9	98.42	306.6	215.6	538.9	485.3	53.55	10.062	
7,700.0	7,655.3	7,577.8	7,528.7	28.3	27.0	101.94	272.3	219.4	557.2	504.1	53.10	10.494	
7,800.0	7,755.3	7,632.5	7,571.3	28.6	27.1	105.30	238.2	223.3	583.9	531.8	52.10	11.208	
7,900.0	7,855.3	7,679.3	7,605.0	29.0	27.2	108.35	205.9	226.9	619.5	569.0	50.58	12.248	
8,000.0	7,955.3	7,719.3	7,631.6	29.3	27.2	111.02	176.3	230.2	663.9	615.2	48.68	13.636	
8,100.0	8,055.3	7,750.0	7,650.6	29.7	27.2	113.10	152.3	232.9	716.2	669.7	46.46	15.415	
8,200.0	8,155.3	7,783.0	7,669.5	30.0	27.3	115.32	125.4	235.9	775.4	731.0	44.37	17.476	
8,300.0	8,255.3	7,800.0	7,678.6	30.3	27.3	116.46	111.2	237.5	840.7	798.7	41.98	20.025	
8,400.0	8,355.3	7,830.7	7,694.0	30.7	27.4	118.49	84.8	240.5	910.8	870.6	40.21	22.652	
8,500.0	8,455.3	7,850.0	7,703.0	31.0	27.4	119.75	67.8	242.4	985.1	946.8	38.35	25.688	
8,600.0	8,555.3	7,867.2	7,710.5	31.4	27.4	120.86	52.4	244.1	1,062.9	1,026.2	36.67	28.983	
8,700.0	8,655.3	7,882.4	7,716.7	31.7	27.4	121.82	38.7	245.6	1,143.5	1,108.4	35.18	32.507	
8,800.0	8,755.3	7,900.0	7,723.5	32.1	27.5	122.92	22.5	247.5	1,226.6	1,192.6	33.96	36.123	
8,900.0	8,855.3	7,900.0	7,723.5	32.4	27.5	122.92	22.5	247.5	1,311.7	1,279.1	32.52	40.330	
9,000.0	8,955.3	7,918.9	7,730.1	32.8	27.5	124.08	5.0	249.4	1,398.3	1,366.6	31.69	44.128	
9,100.0	9,055.3	7,928.8	7,733.4	33.1	27.5	124.67	-4.3	250.5	1,486.5	1,455.7	30.81	48.253	
9,200.0	9,155.3	7,950.0	7,739.9	33.5	27.6	125.92	-24.4	252.7	1,576.0	1,545.7	30.27	52.066	
9,300.0	9,255.3	7,950.0	7,739.9	33.8	27.6	125.92	-24.4	252.7	1,666.3	1,636.8	29.45	56.571	
9,400.0	9,355.3	7,950.0	7,739.9	34.2	27.6	125.92	-24.4	252.7	1,757.6	1,728.8	28.76	61.108	
9,500.0	9,455.3	7,950.0	7,739.9	34.5	27.6	125.92	-24.4	252.7	1,849.8	1,821.7	28.18	65.648	
9,600.0	9,555.3	7,950.0	7,739.9	34.9	27.6	125.92	-24.4	252.7	1,942.8	1,915.1	27.69	70.169	
9,700.0	9,655.3	7,972.4	7,745.9	35.2	27.6	127.20	-45.8	255.1	2,035.9	2,008.3	27.60	73.769	
9,800.0	9,755.3	7,977.8	7,747.2	35.5	27.6	127.51	-51.0	255.7	2,129.9	2,102.6	27.32	77.957	
9,900.0	9,855.3	8,000.0	7,752.1	35.9	27.7	128.73	-72.6	258.1	2,224.6	2,197.3	27.32	81.423	
10,000.0	9,955.3	8,000.0	7,752.1	36.2	27.7	128.73	-72.6	258.1	2,319.3	2,292.2	27.08	85.660	
10,100.0	10,055.3	8,000.0	7,752.1	36.6	27.7	128.73	-72.6	258.1	2,414.4	2,387.5	26.88	89.812	
10,200.0	10,155.3	8,000.0	7,752.1	36.9	27.7	128.73	-72.6	258.1	2,509.9	2,483.2	26.74	93.874	
10,300.0	10,255.3	8,000.0	7,752.1	37.3	27.7	128.73	-72.6	258.1	2,605.7	2,579.1	26.63	97.837	
10,400.0	10,355.3	8,000.0	7,752.1	37.6	27.7	128.73	-72.6	258.1	2,701.9	2,675.3	26.57	101.698	
10,500.0	10,455.3	8,000.0	7,752.1	38.0	27.7	128.73	-72.6	258.1	2,798.3	2,771.7	26.54	105.454	
10,600.0	10,555.3	8,000.0	7,752.1	38.3	27.7	128.73	-72.6	258.1	2,894.9	2,868.4	26.53	109.103	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
10,700.0	10,655.3	8,000.0	7,752.1	38.7	27.7	128.73	-72.6	258.1	2,991.8	2,965.2	26.56	112.644	
10,800.0	10,755.3	8,000.0	7,752.1	39.0	27.7	128.73	-72.6	258.1	3,088.9	3,062.2	26.61	116.076	
10,900.0	10,855.3	8,000.0	7,752.1	39.4	27.7	128.73	-72.6	258.1	3,186.1	3,159.4	26.68	119.400	
11,000.0	10,955.3	8,021.1	7,756.0	39.7	27.7	129.86	-93.1	260.4	3,283.1	3,256.1	26.95	121.806	
11,100.0	11,055.3	8,023.5	7,756.4	40.1	27.7	129.98	-95.5	260.7	3,380.5	3,353.4	27.08	124.835	
11,200.0	11,155.3	8,025.8	7,756.8	40.4	27.8	130.10	-97.8	261.0	3,478.1	3,450.9	27.22	127.768	
11,300.0	11,255.3	8,028.0	7,757.1	40.8	27.8	130.22	-100.0	261.2	3,575.8	3,548.5	27.38	130.606	
11,400.0	11,355.3	8,050.0	7,760.1	41.2	27.8	131.34	-121.6	263.6	3,674.1	3,646.4	27.70	132.654	
11,500.0	11,455.3	8,050.0	7,760.1	41.5	27.8	131.34	-121.6	263.6	3,771.9	3,744.1	27.86	135.387	
11,600.0	11,555.3	8,050.0	7,760.1	41.9	27.8	131.34	-121.6	263.6	3,869.9	3,841.8	28.04	138.027	
11,700.0	11,655.3	8,050.0	7,760.1	42.2	27.8	131.34	-121.6	263.6	3,968.0	3,939.7	28.23	140.575	
11,800.0	11,755.3	8,050.0	7,760.1	42.6	27.8	131.34	-121.6	263.6	4,066.1	4,037.7	28.43	143.033	
11,900.0	11,855.3	8,050.0	7,760.1	42.9	27.8	131.34	-121.6	263.6	4,164.4	4,135.7	28.64	145.406	
12,000.0	11,955.3	8,050.0	7,760.1	43.3	27.8	131.34	-121.6	263.6	4,262.7	4,233.8	28.86	147.694	
12,021.7	11,977.0	8,050.0	7,760.1	43.3	27.8	131.34	-121.6	263.6	4,284.0	4,255.1	28.91	148.180	
12,050.0	12,005.3	8,050.0	7,760.1	43.4	27.8	-38.77	-121.6	263.6	4,311.8	4,282.8	28.97	148.820	
12,100.0	12,055.1	8,050.0	7,760.1	43.6	27.8	-27.97	-121.6	263.6	4,360.2	4,331.2	29.07	149.972	
12,150.0	12,104.2	8,050.0	7,760.1	43.7	27.8	-21.69	-121.6	263.6	4,407.7	4,378.5	29.16	151.140	
12,200.0	12,152.4	8,050.0	7,760.1	43.9	27.8	-17.70	-121.6	263.6	4,453.7	4,424.5	29.24	152.310	
12,250.0	12,199.3	8,050.0	7,760.1	44.0	27.8	-14.98	-121.6	263.6	4,498.1	4,468.8	29.31	153.470	
12,300.0	12,244.5	8,050.0	7,760.1	44.1	27.8	-13.03	-121.6	263.6	4,540.6	4,511.2	29.37	154.604	
12,350.0	12,287.6	8,050.0	7,760.1	44.2	27.8	-11.59	-121.6	263.6	4,580.8	4,551.4	29.42	155.698	
12,400.0	12,328.4	8,050.0	7,760.1	44.3	27.8	-10.48	-121.6	263.6	4,618.6	4,589.1	29.47	156.736	
12,450.0	12,366.5	8,050.0	7,760.1	44.3	27.8	-9.62	-121.6	263.6	4,653.7	4,624.2	29.51	157.700	
12,500.0	12,401.7	8,050.0	7,760.1	44.4	27.8	-8.94	-121.6	263.6	4,685.9	4,656.3	29.55	158.570	
12,550.0	12,433.6	8,072.1	7,762.2	44.4	27.9	-8.41	-143.5	266.1	4,714.6	4,684.9	29.70	158.754	
12,600.0	12,462.0	8,076.8	7,762.6	44.5	27.9	-7.98	-148.1	266.6	4,740.3	4,710.5	29.76	159.287	
12,650.0	12,486.7	8,100.0	7,763.7	44.5	28.0	-7.66	-171.1	269.2	4,762.9	4,733.0	29.91	159.264	
12,700.0	12,507.6	8,100.0	7,763.7	44.5	28.0	-7.40	-171.1	269.2	4,781.4	4,751.5	29.95	159.621	
12,750.0	12,524.4	8,100.0	7,763.7	44.6	28.0	-7.20	-171.1	269.2	4,796.4	4,766.4	30.02	159.793	
12,800.0	12,537.1	8,100.0	7,763.7	44.6	28.0	-7.06	-171.1	269.2	4,807.6	4,777.6	30.09	159.767	
12,850.0	12,545.5	8,100.0	7,763.7	44.6	28.0	-6.96	-171.1	269.2	4,815.2	4,785.0	30.18	159.531	
12,900.0	12,549.5	8,107.5	7,763.9	44.7	28.0	-6.93	-178.6	270.0	4,818.8	4,788.5	30.32	158.958	
12,921.7	12,550.0	8,116.7	7,763.9	44.7	28.0	-6.93	-187.7	271.0	4,819.3	4,788.9	30.39	158.559	
12,922.2	12,550.0	8,116.7	7,763.9	44.7	28.0	-6.93	-187.7	271.0	4,819.3	4,788.9	30.40	158.552	
12,935.2	12,550.0	8,116.7	7,763.9	44.8	28.0	-6.94	-187.7	271.0	4,819.3	4,788.9	30.43	158.385	
13,000.0	12,550.0	8,134.2	7,764.0	44.9	28.1	-6.96	-205.1	272.9	4,819.8	4,789.2	30.66	157.198	
13,100.0	12,550.0	8,262.4	7,764.0	45.1	28.6	-7.07	-332.9	283.6	4,820.7	4,789.4	31.36	153.708	
13,200.0	12,550.0	8,391.2	7,764.1	45.4	29.2	-7.12	-461.6	288.5	4,821.1	4,788.9	32.15	149.968	
13,300.0	12,550.0	8,497.5	7,764.2	45.8	29.8	-7.12	-567.8	289.3	4,821.0	4,788.1	32.92	146.451	
13,400.0	12,550.0	8,602.5	7,764.3	46.2	30.5	-7.12	-667.8	289.9	4,820.9	4,787.1	33.76	142.813	
13,500.0	12,550.0	8,702.5	7,764.4	46.7	31.2	-7.12	-767.8	290.6	4,820.8	4,786.1	34.62	139.238	
13,600.0	12,550.0	8,802.5	7,764.5	47.2	32.0	-7.12	-867.8	291.2	4,820.7	4,785.1	35.54	135.646	
13,700.0	12,550.0	8,902.5	7,764.6	47.8	32.9	-7.12	-967.8	291.8	4,820.6	4,784.1	36.50	132.070	
13,800.0	12,550.0	9,002.5	7,764.7	48.4	33.8	-7.12	-1,067.8	292.4	4,820.5	4,783.0	37.50	128.535	
13,900.0	12,550.0	9,102.5	7,764.8	49.1	34.8	-7.12	-1,167.8	293.1	4,820.3	4,781.8	38.54	125.060	
14,000.0	12,550.0	9,202.5	7,764.9	49.8	35.8	-7.12	-1,267.8	293.7	4,820.2	4,780.6	39.62	121.661	
14,100.0	12,550.0	9,302.5	7,765.0	50.6	36.9	-7.12	-1,367.8	294.3	4,820.1	4,779.4	40.73	118.348	
14,200.0	12,550.0	9,402.5	7,765.1	51.4	38.0	-7.12	-1,467.8	294.9	4,820.0	4,778.2	41.87	115.130	
14,300.0	12,550.0	9,502.5	7,765.2	52.2	39.1	-7.12	-1,567.8	295.5	4,819.9	4,776.9	43.03	112.011	
14,400.0	12,550.0	9,602.5	7,765.3	53.1	40.3	-7.12	-1,667.8	296.2	4,819.8	4,775.6	44.22	108.994	
14,500.0	12,550.0	9,702.5	7,765.4	54.0	41.5	-7.12	-1,767.8	296.8	4,819.7	4,774.3	45.43	106.081	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
14,600.0	12,550.0	9,802.5	7,765.5	54.9	42.8	-7.12	-1,867.8	297.4	4,819.6	4,772.9	46.67	103.272	
14,700.0	12,550.0	9,902.5	7,765.6	55.9	44.1	-7.12	-1,967.8	298.0	4,819.5	4,771.6	47.92	100.565	
14,800.0	12,550.0	10,002.5	7,765.7	56.9	45.4	-7.12	-2,067.8	298.6	4,819.4	4,770.2	49.20	97.959	
14,900.0	12,550.0	10,102.5	7,765.8	58.0	46.7	-7.12	-2,167.8	299.3	4,819.3	4,768.8	50.49	95.452	
15,000.0	12,550.0	10,202.5	7,765.9	59.0	48.0	-7.12	-2,267.8	299.9	4,819.2	4,767.4	51.80	93.041	
15,100.0	12,550.0	10,302.5	7,766.0	60.1	49.4	-7.12	-2,367.8	300.5	4,819.1	4,766.0	53.12	90.723	
15,200.0	12,550.0	10,402.5	7,766.1	61.3	50.8	-7.12	-2,467.8	301.1	4,819.0	4,764.5	54.46	88.494	
15,300.0	12,550.0	10,502.5	7,766.2	62.4	52.1	-7.12	-2,567.8	301.7	4,818.9	4,763.1	55.81	86.352	
15,400.0	12,550.0	10,602.5	7,766.3	63.6	53.6	-7.12	-2,667.8	302.4	4,818.8	4,761.6	57.17	84.293	
15,500.0	12,550.0	10,702.5	7,766.4	64.8	55.0	-7.12	-2,767.8	303.0	4,818.7	4,760.1	58.54	82.313	
15,600.0	12,550.0	10,802.5	7,766.5	66.0	56.4	-7.12	-2,867.8	303.6	4,818.6	4,758.6	59.93	80.410	
15,700.0	12,550.0	10,902.5	7,766.7	67.2	57.9	-7.12	-2,967.8	304.2	4,818.5	4,757.1	61.32	78.579	
15,800.0	12,550.0	11,002.5	7,766.8	68.4	59.3	-7.12	-3,067.8	304.8	4,818.4	4,755.6	62.72	76.818	
15,900.0	12,550.0	11,102.5	7,766.9	69.7	60.8	-7.12	-3,167.8	305.5	4,818.3	4,754.1	64.14	75.124	
16,000.0	12,550.0	11,202.5	7,767.0	71.0	62.2	-7.12	-3,267.8	306.1	4,818.2	4,752.6	65.56	73.493	
16,100.0	12,550.0	11,302.5	7,767.1	72.3	63.7	-7.12	-3,367.8	306.7	4,818.1	4,751.1	66.99	71.923	
16,200.0	12,550.0	11,402.5	7,767.2	73.6	65.2	-7.12	-3,467.8	307.3	4,817.9	4,749.5	68.43	70.411	
16,300.0	12,550.0	11,497.5	7,767.3	74.9	66.6	-7.12	-3,567.8	307.9	4,817.8	4,748.0	69.83	68.993	
16,400.0	12,550.0	11,602.5	7,767.4	76.2	68.2	-7.12	-3,667.8	308.6	4,817.7	4,746.4	71.32	67.550	
16,500.0	12,550.0	11,702.5	7,767.5	77.6	69.7	-7.12	-3,767.8	309.2	4,817.6	4,744.9	72.78	66.196	
16,600.0	12,550.0	11,802.5	7,767.6	78.9	71.3	-7.12	-3,867.8	309.8	4,817.5	4,743.3	74.24	64.891	
16,700.0	12,550.0	11,902.5	7,767.7	80.3	72.8	-7.12	-3,967.8	310.4	4,817.4	4,741.7	75.71	63.630	
16,800.0	12,550.0	12,002.5	7,767.8	81.7	74.3	-7.12	-4,067.8	311.0	4,817.3	4,740.1	77.18	62.414	
16,900.0	12,550.0	12,102.5	7,767.9	83.1	75.9	-7.12	-4,167.8	311.7	4,817.2	4,738.6	78.66	61.239	
17,000.0	12,550.0	12,202.5	7,768.0	84.5	77.4	-7.12	-4,267.8	312.3	4,817.1	4,737.0	80.15	60.104	
17,100.0	12,550.0	12,302.5	7,768.1	85.9	78.9	-7.12	-4,367.8	312.9	4,817.0	4,735.4	81.64	59.006	
17,200.0	12,550.0	12,402.5	7,768.2	87.3	80.5	-7.12	-4,467.8	313.5	4,816.9	4,733.8	83.13	57.945	
17,300.0	12,550.0	12,502.5	7,768.3	88.7	82.0	-7.12	-4,567.8	314.1	4,816.8	4,732.2	84.63	56.919	
17,400.0	12,550.0	12,602.5	7,768.4	90.1	83.6	-7.12	-4,667.8	314.8	4,816.7	4,730.6	86.13	55.926	
17,500.0	12,550.0	12,702.5	7,768.5	91.6	85.2	-7.12	-4,767.8	315.4	4,816.6	4,729.0	87.63	54.965	
17,600.0	12,550.0	12,802.5	7,768.6	93.0	86.7	-7.12	-4,867.7	316.0	4,816.5	4,727.3	89.14	54.034	
17,700.0	12,550.0	12,902.5	7,768.7	94.5	88.3	-7.12	-4,967.7	316.6	4,816.4	4,725.7	90.65	53.131	
17,800.0	12,550.0	13,002.5	7,768.8	95.9	89.9	-7.12	-5,067.7	317.2	4,816.3	4,724.1	92.16	52.257	
17,900.0	12,550.0	13,102.5	7,768.9	97.4	91.4	-7.12	-5,167.7	317.9	4,816.2	4,722.5	93.68	51.409	
18,000.0	12,550.0	13,202.5	7,769.0	98.9	93.0	-7.12	-5,267.7	318.5	4,816.1	4,720.9	95.20	50.587	
18,100.0	12,550.0	13,302.5	7,769.1	100.4	94.6	-7.12	-5,367.7	319.1	4,816.0	4,719.2	96.73	49.789	
18,200.0	12,550.0	13,402.5	7,769.2	101.8	96.2	-7.12	-5,467.7	319.7	4,815.9	4,717.6	98.25	49.015	
18,300.0	12,550.0	13,502.5	7,769.3	103.3	97.8	-7.12	-5,567.7	320.4	4,815.8	4,716.0	99.78	48.263	
18,400.0	12,550.0	13,602.5	7,769.4	104.8	99.3	-7.12	-5,667.7	321.0	4,815.6	4,714.3	101.31	47.532	
18,500.0	12,550.0	13,702.5	7,769.5	106.3	100.9	-7.12	-5,767.7	321.6	4,815.5	4,712.7	102.85	46.822	
18,600.0	12,550.0	13,802.5	7,769.6	107.8	102.5	-7.11	-5,867.7	322.2	4,815.4	4,711.1	104.38	46.133	
18,700.0	12,550.0	13,902.5	7,769.7	109.3	104.1	-7.11	-5,967.7	322.8	4,815.3	4,709.4	105.92	45.462	
18,800.0	12,550.0	14,002.5	7,769.8	110.8	105.7	-7.11	-6,067.7	323.5	4,815.2	4,707.8	107.46	44.809	
18,900.0	12,550.0	14,102.5	7,769.9	112.3	107.3	-7.11	-6,167.7	324.1	4,815.1	4,706.1	109.00	44.174	
19,000.0	12,550.0	14,202.5	7,770.0	113.9	108.9	-7.11	-6,267.7	324.7	4,815.0	4,704.5	110.55	43.557	
19,100.0	12,550.0	14,302.5	7,770.1	115.4	110.5	-7.11	-6,367.7	325.3	4,814.9	4,702.8	112.09	42.955	
19,200.0	12,550.0	14,402.5	7,770.2	116.9	112.1	-7.11	-6,467.7	325.9	4,814.8	4,701.2	113.64	42.369	
19,300.0	12,550.0	14,502.5	7,770.3	118.4	113.7	-7.11	-6,567.7	326.6	4,814.7	4,699.5	115.19	41.798	
19,400.0	12,550.0	14,602.5	7,770.4	120.0	115.3	-7.11	-6,667.7	327.2	4,814.6	4,697.9	116.74	41.242	
19,500.0	12,550.0	14,702.5	7,770.6	121.5	116.9	-7.11	-6,767.7	327.8	4,814.5	4,696.2	118.29	40.700	
19,600.0	12,550.0	14,802.5	7,770.7	123.0	118.5	-7.11	-6,867.7	328.4	4,814.4	4,694.5	119.85	40.172	
19,700.0	12,550.0	14,902.5	7,770.8	124.6	120.1	-7.11	-6,967.7	329.0	4,814.3	4,692.9	121.40	39.656	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #023H - Wellbore #1 - BLM Plan #2

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
19,800.0	12,550.0	15,002.5	7,770.9	126.1	121.7	-7.11	-7,067.7	329.7	4,814.2	4,691.2	122.96	39.153	
19,900.0	12,550.0	15,102.5	7,771.0	127.7	123.3	-7.11	-7,167.7	330.3	4,814.1	4,689.6	124.52	38.662	
20,000.0	12,550.0	15,202.5	7,771.1	129.2	125.0	-7.11	-7,267.7	330.9	4,814.0	4,687.9	126.07	38.183	
20,100.0	12,550.0	15,302.5	7,771.2	130.8	126.6	-7.11	-7,367.7	331.5	4,813.9	4,686.2	127.64	37.716	
20,200.0	12,550.0	15,402.5	7,771.3	132.3	128.2	-7.11	-7,467.7	332.1	4,813.8	4,684.6	129.20	37.259	
20,300.0	12,550.0	15,497.5	7,771.4	133.9	129.7	-7.11	-7,567.7	332.8	4,813.7	4,682.9	130.72	36.824	
20,400.0	12,550.0	15,602.5	7,771.5	135.5	131.4	-7.11	-7,667.7	333.4	4,813.6	4,681.2	132.32	36.377	
20,500.0	12,550.0	15,702.5	7,771.6	137.0	133.0	-7.11	-7,767.7	334.0	4,813.5	4,679.6	133.89	35.951	
20,600.0	12,550.0	15,802.5	7,771.7	138.6	134.6	-7.11	-7,867.7	334.6	4,813.3	4,677.9	135.46	35.535	
20,700.0	12,550.0	15,902.5	7,771.8	140.1	136.3	-7.11	-7,967.7	335.2	4,813.2	4,676.2	137.02	35.127	
20,800.0	12,550.0	15,997.5	7,771.9	141.7	137.8	-7.11	-8,067.7	335.9	4,813.1	4,674.6	138.55	34.739	
20,900.0	12,550.0	16,102.5	7,772.0	143.3	139.5	-7.11	-8,167.7	336.5	4,813.0	4,672.9	140.16	34.340	
21,000.0	12,550.0	16,202.5	7,772.1	144.9	141.1	-7.11	-8,267.7	337.1	4,812.9	4,671.2	141.73	33.959	
21,100.0	12,550.0	16,302.5	7,772.2	146.4	142.7	-7.11	-8,367.7	337.7	4,812.8	4,669.5	143.30	33.586	
21,200.0	12,550.0	16,402.5	7,772.3	148.0	144.4	-7.11	-8,467.7	338.3	4,812.7	4,667.8	144.87	33.220	
21,300.0	12,550.0	16,502.5	7,772.4	149.6	146.0	-7.11	-8,567.7	339.0	4,812.6	4,666.2	146.44	32.863	
21,400.0	12,550.0	16,602.5	7,772.5	151.2	147.6	-7.11	-8,667.7	339.6	4,812.5	4,664.5	148.02	32.513	
21,500.0	12,550.0	16,702.5	7,772.6	152.7	149.2	-7.11	-8,767.7	340.2	4,812.4	4,662.8	149.59	32.170	
21,600.0	12,550.0	16,802.5	7,772.7	154.3	150.8	-7.11	-8,867.7	340.8	4,812.3	4,661.1	151.17	31.834	
21,700.0	12,550.0	16,902.5	7,772.8	155.9	152.5	-7.11	-8,967.7	341.4	4,812.2	4,659.5	152.74	31.505	
21,800.0	12,550.0	17,002.5	7,772.9	157.5	154.1	-7.11	-9,067.7	342.1	4,812.1	4,657.8	154.32	31.183	
21,900.0	12,550.0	17,102.5	7,773.0	159.1	155.7	-7.11	-9,167.7	342.7	4,812.0	4,656.1	155.90	30.867	
22,000.0	12,550.0	17,202.5	7,773.1	160.7	157.3	-7.11	-9,267.7	343.3	4,811.9	4,654.4	157.47	30.557	
22,100.0	12,550.0	17,302.5	7,773.2	162.2	159.0	-7.11	-9,367.7	343.9	4,811.8	4,652.7	159.05	30.253	
22,200.0	12,550.0	17,402.5	7,773.3	163.8	160.6	-7.11	-9,467.7	344.5	4,811.7	4,651.0	160.63	29.955	
22,300.0	12,550.0	17,502.5	7,773.4	165.4	162.2	-7.11	-9,567.7	345.2	4,811.6	4,649.4	162.21	29.663	
22,400.0	12,550.0	17,602.5	7,773.5	167.0	163.9	-7.11	-9,667.7	345.8	4,811.5	4,647.7	163.79	29.376	
22,500.0	12,550.0	17,702.5	7,773.6	168.6	165.5	-7.11	-9,767.6	346.4	4,811.4	4,646.0	165.37	29.094	
22,600.0	12,550.0	17,797.5	7,773.7	170.2	167.0	-7.11	-9,867.6	347.0	4,811.3	4,644.3	166.91	28.825	
22,700.0	12,550.0	17,902.5	7,773.8	171.8	168.7	-7.11	-9,967.6	347.7	4,811.2	4,642.6	168.53	28.547	
22,727.5	12,550.0	17,925.0	7,773.9	172.2	169.1	-7.11	-9,995.2	347.8	4,811.1	4,642.2	168.93	28.480	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #103H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	1.0	-1.0	0.0	0.0	89.63	0.2	30.0	30.0				
100.0	100.0	101.0	99.0	0.1	0.1	89.63	0.2	30.0	30.0	29.8	0.26	115.530	
200.0	200.0	201.0	199.0	0.5	0.5	89.63	0.2	30.0	30.0	29.0	0.98	30.737	
300.0	300.0	301.0	299.0	0.8	0.8	89.63	0.2	30.0	30.0	28.3	1.69	17.727	
400.0	400.0	401.0	399.0	1.2	1.2	89.63	0.2	30.0	30.0	27.6	2.41	12.455	
500.0	500.0	501.0	499.0	1.6	1.6	89.63	0.2	30.0	30.0	26.9	3.13	9.600	
600.0	600.0	601.0	599.0	1.9	1.9	89.63	0.2	30.0	30.0	26.2	3.84	7.810	
700.0	700.0	701.0	699.0	2.3	2.3	89.63	0.2	30.0	30.0	25.5	4.56	6.582	
800.0	800.0	801.0	799.0	2.6	2.6	89.63	0.2	30.0	30.0	24.7	5.28	5.688	
900.0	900.0	901.0	899.0	3.0	3.0	89.63	0.2	30.0	30.0	24.0	6.00	5.008	
1,002.0	1,002.0	1,001.0	1,001.0	3.4	3.4	89.63	0.2	30.0	30.0	23.3	6.72	4.468	
1,054.3	1,054.3	1,053.5	1,053.5	3.5	3.5	128.11	0.7	29.9	30.0	22.9	7.09	4.232	CC
1,100.0	1,100.0	1,099.3	1,099.3	3.7	3.7	126.79	1.8	29.5	30.0	22.6	7.42	4.047	
1,200.0	1,200.0	1,199.5	1,199.4	4.1	4.1	121.21	6.8	27.8	30.3	22.1	8.13	3.721	ES
1,300.0	1,299.9	1,299.5	1,299.0	4.4	4.4	112.27	15.0	25.1	31.3	22.4	8.85	3.534	SF
1,400.0	1,399.7	1,399.2	1,397.9	4.8	4.8	101.09	26.5	21.2	33.8	24.3	9.57	3.535	
1,500.0	1,499.4	1,498.5	1,496.0	5.1	5.2	89.51	41.2	16.3	38.7	28.4	10.30	3.758	
1,600.0	1,598.9	1,597.5	1,593.3	5.5	5.6	79.39	58.9	10.4	46.1	35.1	11.02	4.184	
1,700.0	1,698.3	1,703.0	1,690.8	5.9	6.0	73.28	77.3	4.2	54.5	42.7	11.78	4.624	
1,800.0	1,797.4	1,803.3	1,788.5	6.3	6.4	70.30	95.8	-1.9	62.7	50.1	12.54	4.998	
1,900.0	1,896.3	1,903.6	1,886.3	6.6	6.8	69.32	114.3	-8.1	70.4	57.1	13.32	5.284	
2,000.0	1,995.0	2,003.9	1,984.1	7.0	7.2	69.73	132.8	-14.3	77.5	63.4	14.12	5.487	
2,100.0	2,093.3	2,104.1	2,082.0	7.4	7.7	71.19	151.3	-20.5	84.0	69.1	14.94	5.621	
2,202.0	2,193.2	2,202.4	2,181.8	7.9	8.1	73.55	170.1	-26.8	90.2	74.4	15.79	5.710	
2,300.0	2,289.1	2,304.6	2,277.6	8.3	8.6	76.07	188.3	-32.9	96.0	79.4	16.66	5.763	
2,400.0	2,386.9	2,404.9	2,375.4	8.7	9.0	78.35	206.8	-39.0	102.2	84.6	17.54	5.824	
2,500.0	2,484.7	2,505.2	2,473.2	9.2	9.4	80.37	225.2	-45.2	108.5	90.0	18.43	5.884	
2,600.0	2,582.5	2,605.4	2,571.0	9.6	9.9	82.16	243.7	-51.4	114.9	95.6	19.33	5.943	
2,700.0	2,680.4	2,705.7	2,668.8	10.0	10.3	83.76	262.2	-57.6	121.4	101.2	20.23	6.000	
2,800.0	2,778.2	2,806.0	2,766.7	10.5	10.8	85.20	280.7	-63.8	128.0	106.8	21.14	6.054	
2,900.0	2,876.0	2,893.8	2,864.5	11.0	11.2	86.50	299.2	-70.0	134.7	112.7	22.00	6.122	
3,000.0	2,973.8	2,994.1	2,962.9	11.4	11.6	87.77	317.6	-76.1	141.3	118.4	22.91	6.166	
3,100.0	3,071.6	3,095.2	3,062.5	11.9	12.1	89.75	334.0	-81.6	147.2	123.4	23.84	6.175	
3,200.0	3,169.4	3,196.1	3,162.3	12.3	12.5	92.52	347.9	-86.2	152.5	127.7	24.75	6.161	
3,300.0	3,267.3	3,296.6	3,262.2	12.8	12.9	96.02	359.3	-90.0	157.4	131.7	25.63	6.141	
3,400.0	3,365.1	3,396.7	3,361.8	13.3	13.3	100.19	368.1	-93.0	162.4	135.9	26.47	6.133	
3,500.0	3,462.9	3,496.2	3,461.1	13.7	13.7	104.95	374.4	-95.1	167.9	140.6	27.27	6.157	
3,579.9	3,541.0	3,575.1	3,539.9	14.1	13.9	109.10	377.7	-96.2	173.1	145.2	27.86	6.212	
3,600.0	3,560.7	3,594.9	3,559.7	14.2	14.0	110.18	378.2	-96.4	174.5	146.5	28.00	6.232	
3,700.0	3,658.9	3,711.4	3,657.9	14.6	14.4	115.36	379.7	-96.9	181.9	153.2	28.71	6.335	
3,800.0	3,757.5	3,808.2	3,756.5	15.1	14.7	119.90	379.7	-96.9	189.6	160.3	29.32	6.466	
3,900.0	3,856.6	3,909.2	3,855.6	15.5	15.0	123.46	379.7	-96.9	196.9	167.0	29.93	6.578	
4,000.0	3,955.9	4,009.8	3,954.9	15.9	15.4	126.16	379.7	-96.9	203.3	172.8	30.55	6.657	
4,100.0	4,055.6	4,089.8	4,054.6	16.3	15.6	128.14	379.7	-96.9	208.6	177.5	31.10	6.705	
4,200.0	4,155.4	4,189.6	4,154.4	16.6	15.9	129.45	379.7	-96.9	212.3	180.6	31.74	6.690	
4,300.0	4,255.3	4,289.5	4,254.3	17.0	16.3	130.18	379.7	-96.9	214.5	182.1	32.38	6.624	
4,379.9	4,335.2	4,369.4	4,334.2	17.2	16.5	91.32	379.7	-96.9	215.0	182.1	32.90	6.535	
4,400.0	4,355.3	4,389.5	4,354.3	17.3	16.6	91.32	379.7	-96.9	215.0	182.0	33.04	6.509	
4,500.0	4,455.3	4,489.5	4,454.3	17.6	16.9	91.32	379.7	-96.9	215.0	181.3	33.70	6.382	
4,600.0	4,555.3	4,589.5	4,554.3	17.9	17.3	91.32	379.7	-96.9	215.0	180.7	34.36	6.259	
4,700.0	4,655.3	4,689.5	4,654.3	18.2	17.6	91.32	379.7	-96.9	215.0	180.0	35.02	6.140	
4,800.0	4,755.3	4,789.5	4,754.3	18.6	17.9	91.32	379.7	-96.9	215.0	179.4	35.69	6.026	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #103H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,889.5	4,854.3	18.9	18.3	91.32	379.7	-96.9	215.0	178.7	36.36	5.915	
5,000.0	4,955.3	4,989.5	4,954.3	19.2	18.6	91.32	379.7	-96.9	215.0	178.0	37.02	5.808	
5,100.0	5,055.3	5,089.5	5,054.3	19.5	18.9	91.32	379.7	-96.9	215.0	177.3	37.70	5.705	
5,200.0	5,155.3	5,189.5	5,154.3	19.9	19.3	91.32	379.7	-96.9	215.0	176.7	38.37	5.605	
5,300.0	5,255.3	5,289.5	5,254.3	20.2	19.6	91.32	379.7	-96.9	215.0	176.0	39.04	5.508	
5,400.0	5,355.3	5,389.5	5,354.3	20.5	19.9	91.32	379.7	-96.9	215.0	175.3	39.72	5.414	
5,500.0	5,455.3	5,489.5	5,454.3	20.8	20.3	91.32	379.7	-96.9	215.0	174.6	40.40	5.323	
5,600.0	5,555.3	5,589.5	5,554.3	21.2	20.6	91.32	379.7	-96.9	215.0	174.0	41.08	5.235	
5,700.0	5,655.3	5,689.5	5,654.3	21.5	21.0	91.32	379.7	-96.9	215.0	173.3	41.76	5.150	
5,800.0	5,755.3	5,789.5	5,754.3	21.8	21.3	91.32	379.7	-96.9	215.0	172.6	42.44	5.067	
5,900.0	5,855.3	5,889.5	5,854.3	22.2	21.6	91.32	379.7	-96.9	215.0	171.9	43.12	4.987	
6,000.0	5,955.3	5,989.5	5,954.3	22.5	22.0	91.32	379.7	-96.9	215.0	171.2	43.80	4.909	
6,100.0	6,055.3	6,089.5	6,054.3	22.8	22.3	91.32	379.7	-96.9	215.0	170.6	44.49	4.834	
6,200.0	6,155.3	6,189.5	6,154.3	23.2	22.7	91.32	379.7	-96.9	215.0	169.9	45.17	4.760	
6,300.0	6,255.3	6,289.5	6,254.3	23.5	23.0	91.32	379.7	-96.9	215.0	169.2	45.86	4.689	
6,400.0	6,355.3	6,389.5	6,354.3	23.9	23.4	91.32	379.7	-96.9	215.0	168.5	46.55	4.620	
6,500.0	6,455.3	6,489.5	6,454.3	24.2	23.7	91.32	379.7	-96.9	215.0	167.8	47.24	4.552	
6,600.0	6,555.3	6,589.5	6,554.3	24.5	24.0	91.32	379.7	-96.9	215.0	167.1	47.93	4.487	
6,700.0	6,655.3	6,689.5	6,654.3	24.9	24.4	91.32	379.7	-96.9	215.0	166.4	48.62	4.423	
6,800.0	6,755.3	6,789.5	6,754.3	25.2	24.7	91.32	379.7	-96.9	215.0	165.7	49.31	4.361	
6,900.0	6,855.3	6,889.5	6,854.3	25.5	25.1	91.32	379.7	-96.9	215.0	165.0	50.00	4.301	
7,000.0	6,955.3	6,989.5	6,954.3	25.9	25.4	91.32	379.7	-96.9	215.0	164.4	50.69	4.242	
7,100.0	7,055.3	7,089.5	7,054.3	26.2	25.8	91.32	379.7	-96.9	215.0	163.7	51.38	4.185	
7,200.0	7,155.3	7,189.5	7,154.3	26.6	26.1	91.32	379.7	-96.9	215.0	163.0	52.08	4.129	
7,300.0	7,255.3	7,289.5	7,254.3	26.9	26.5	91.32	379.7	-96.9	215.0	162.3	52.77	4.075	
7,400.0	7,355.3	7,389.5	7,354.3	27.2	26.8	91.32	379.7	-96.9	215.0	161.6	53.47	4.022	
7,500.0	7,455.3	7,489.5	7,454.3	27.6	27.2	91.32	379.7	-96.9	215.0	160.9	54.16	3.970	
7,600.0	7,555.3	7,589.5	7,554.3	27.9	27.5	91.32	379.7	-96.9	215.0	160.2	54.86	3.920	
7,700.0	7,655.3	7,689.5	7,654.3	28.3	27.9	91.32	379.7	-96.9	215.0	159.5	55.55	3.871	
7,800.0	7,755.3	7,785.7	7,750.2	28.6	28.2	92.93	373.6	-96.4	215.8	159.7	56.12	3.845	
7,900.0	7,855.3	7,877.0	7,839.1	29.0	28.4	98.21	353.3	-94.8	219.8	163.5	56.35	3.901	
8,000.0	7,955.3	7,960.1	7,916.2	29.3	28.6	105.73	322.8	-92.4	231.2	175.3	55.89	4.136	
8,100.0	8,055.3	8,032.9	7,979.7	29.7	28.7	113.68	287.1	-89.6	253.9	199.7	54.26	4.680	
8,200.0	8,155.3	8,095.5	8,030.1	30.0	28.8	120.82	250.3	-86.7	290.1	238.6	51.49	5.634	
8,300.0	8,255.3	8,150.0	8,070.6	30.3	28.9	126.82	213.9	-83.8	339.0	290.8	48.20	7.032	
8,400.0	8,355.3	8,193.5	8,100.3	30.7	28.9	131.28	182.2	-81.3	398.3	353.6	44.65	8.920	
8,500.0	8,455.3	8,231.5	8,124.2	31.0	29.0	134.88	152.8	-79.0	465.8	424.3	41.48	11.228	
8,600.0	8,555.3	8,263.9	8,142.9	31.4	29.0	137.69	126.5	-76.9	539.5	500.8	38.72	13.933	
8,700.0	8,655.3	8,300.0	8,162.1	31.7	29.1	140.57	96.0	-74.5	618.0	581.1	36.86	16.766	
8,800.0	8,755.3	8,315.4	8,169.7	32.1	29.1	141.72	82.6	-73.5	699.9	665.5	34.39	20.353	
8,900.0	8,855.3	8,336.2	8,179.3	32.4	29.1	143.18	64.3	-72.0	784.7	752.0	32.73	23.973	
9,000.0	8,955.3	8,350.0	8,185.3	32.8	29.1	144.11	51.9	-71.1	871.8	840.6	31.17	27.968	
9,100.0	9,055.3	8,370.2	8,193.6	33.1	29.2	145.40	33.5	-69.6	960.6	930.4	30.21	31.793	
9,200.0	9,155.3	8,384.3	8,199.0	33.5	29.2	146.25	20.6	-68.6	1,050.9	1,021.6	29.27	35.904	
9,300.0	9,255.3	8,400.0	8,204.6	33.8	29.2	147.16	5.9	-67.4	1,142.3	1,113.7	28.59	39.951	
9,400.0	9,355.3	8,400.0	8,204.6	34.2	29.2	147.16	5.9	-67.4	1,234.9	1,207.2	27.61	44.729	
9,500.0	9,455.3	8,418.2	8,210.7	34.5	29.3	148.16	-11.2	-66.1	1,328.0	1,300.7	27.33	48.595	
9,600.0	9,555.3	8,427.3	8,213.5	34.9	29.3	148.65	-19.9	-65.4	1,422.0	1,395.1	26.91	52.843	
9,700.0	9,655.3	8,450.0	8,219.9	35.2	29.3	149.79	-41.5	-63.7	1,516.8	1,489.9	26.92	56.350	
9,800.0	9,755.3	8,450.0	8,219.9	35.5	29.3	149.79	-41.5	-63.7	1,611.7	1,585.3	26.47	60.891	
9,900.0	9,855.3	8,450.0	8,219.9	35.9	29.3	149.79	-41.5	-63.7	1,707.2	1,681.1	26.13	65.347	
10,000.0	9,955.3	8,450.0	8,219.9	36.2	29.3	149.79	-41.5	-63.7	1,803.2	1,777.3	25.87	69.702	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #103H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
10,100.0	10,055.3	8,450.0	8,219.9	36.6	29.3	149.79	-41.5	-63.7	1,899.6	1,873.9	25.69	73.946	
10,200.0	10,155.3	8,450.0	8,219.9	36.9	29.3	149.79	-41.5	-63.7	1,996.3	1,970.7	25.57	78.073	
10,300.0	10,255.3	8,472.8	8,225.4	37.3	29.4	150.86	-63.6	-62.0	2,092.8	2,066.9	25.85	80.966	
10,400.0	10,355.3	8,477.4	8,226.4	37.6	29.4	151.07	-68.1	-61.6	2,189.8	2,164.0	25.87	84.642	
10,500.0	10,455.3	8,500.0	8,230.9	38.0	29.4	152.04	-90.2	-59.9	2,287.5	2,261.3	26.17	87.392	
10,600.0	10,555.3	8,500.0	8,230.9	38.3	29.4	152.04	-90.2	-59.9	2,384.8	2,358.6	26.19	91.069	
10,700.0	10,655.3	8,500.0	8,230.9	38.7	29.4	152.04	-90.2	-59.9	2,482.3	2,456.1	26.23	94.630	
10,800.0	10,755.3	8,500.0	8,230.9	39.0	29.4	152.04	-90.2	-59.9	2,580.0	2,553.7	26.31	98.075	
10,900.0	10,855.3	8,500.0	8,230.9	39.4	29.4	152.04	-90.2	-59.9	2,677.9	2,651.5	26.41	101.409	
11,000.0	10,955.3	8,500.0	8,230.9	39.7	29.4	152.04	-90.2	-59.9	2,776.0	2,749.4	26.53	104.631	
11,100.0	11,055.3	8,500.0	8,230.9	40.1	29.4	152.04	-90.2	-59.9	2,874.1	2,847.5	26.67	107.747	
11,200.0	11,155.3	8,500.0	8,230.9	40.4	29.4	152.04	-90.2	-59.9	2,972.4	2,945.6	26.84	110.759	
11,300.0	11,255.3	8,500.0	8,230.9	40.8	29.4	152.04	-90.2	-59.9	3,070.8	3,043.8	27.02	113.669	
11,400.0	11,355.3	8,500.0	8,230.9	41.2	29.4	152.04	-90.2	-59.9	3,169.3	3,142.1	27.21	116.482	
11,500.0	11,455.3	8,500.0	8,230.9	41.5	29.4	152.04	-90.2	-59.9	3,267.9	3,240.5	27.42	119.199	
11,600.0	11,555.3	8,500.0	8,230.9	41.9	29.4	152.04	-90.2	-59.9	3,366.6	3,339.0	27.63	121.825	
11,700.0	11,655.3	8,500.0	8,230.9	42.2	29.4	152.04	-90.2	-59.9	3,465.4	3,437.5	27.86	124.363	
11,800.0	11,755.3	8,500.0	8,230.9	42.6	29.4	152.04	-90.2	-59.9	3,564.2	3,536.1	28.11	126.815	
11,900.0	11,855.3	8,521.4	8,234.3	42.9	29.5	152.91	-111.2	-58.2	3,662.6	3,634.1	28.51	128.467	
12,000.0	11,955.3	8,523.3	8,234.5	43.3	29.5	152.98	-113.0	-58.1	3,761.5	3,732.7	28.78	130.711	
12,021.7	11,977.0	8,523.6	8,234.6	43.3	29.5	153.00	-113.4	-58.1	3,782.9	3,754.1	28.84	131.188	
12,050.0	12,005.3	8,524.2	8,234.7	43.4	29.5	-20.30	-114.0	-58.0	3,810.8	3,781.9	28.91	131.817	
12,100.0	12,055.1	8,525.7	8,234.9	43.6	29.5	-14.06	-115.5	-57.9	3,859.5	3,830.4	29.03	132.945	
12,150.0	12,104.2	8,527.7	8,235.1	43.7	29.5	-10.74	-117.4	-57.7	3,907.0	3,877.9	29.14	134.084	
12,200.0	12,152.4	8,550.0	8,237.6	43.9	29.5	-8.67	-139.5	-56.0	3,953.5	3,924.2	29.36	134.635	
12,250.0	12,199.3	8,550.0	8,237.6	44.0	29.5	-7.34	-139.5	-56.0	3,997.8	3,968.4	29.43	135.856	
12,300.0	12,244.5	8,550.0	8,237.6	44.1	29.5	-6.39	-139.5	-56.0	4,040.1	4,010.6	29.48	137.058	
12,350.0	12,287.6	8,550.0	8,237.6	44.2	29.5	-5.69	-139.5	-56.0	4,080.1	4,050.6	29.52	138.225	
12,400.0	12,328.4	8,550.0	8,237.6	44.3	29.5	-5.15	-139.5	-56.0	4,117.6	4,088.1	29.55	139.337	
12,450.0	12,366.5	8,550.0	8,237.6	44.3	29.5	-4.73	-139.5	-56.0	4,152.5	4,122.9	29.58	140.376	
12,500.0	12,401.7	8,550.0	8,237.6	44.4	29.5	-4.40	-139.5	-56.0	4,184.4	4,154.8	29.61	141.321	
12,550.0	12,433.6	8,550.0	8,237.6	44.4	29.5	-4.14	-139.5	-56.0	4,213.3	4,183.6	29.64	142.152	
12,600.0	12,462.0	8,550.0	8,237.6	44.5	29.5	-3.93	-139.5	-56.0	4,238.9	4,209.2	29.67	142.846	
12,650.0	12,486.7	8,550.0	8,237.6	44.5	29.5	-3.76	-139.5	-56.0	4,261.1	4,231.4	29.72	143.383	
12,700.0	12,507.6	8,574.0	8,239.3	44.5	29.6	-3.65	-163.4	-54.1	4,279.3	4,249.5	29.87	143.285	
12,750.0	12,524.4	8,579.6	8,239.5	44.6	29.6	-3.56	-169.0	-53.7	4,294.2	4,264.3	29.95	143.391	
12,800.0	12,537.1	8,602.2	8,240.0	44.6	29.7	-3.51	-191.5	-51.9	4,305.7	4,275.6	30.10	143.055	
12,850.0	12,545.5	8,602.2	8,240.0	44.6	29.7	-3.46	-191.5	-51.9	4,312.9	4,282.8	30.19	142.881	
12,900.0	12,549.5	8,602.2	8,240.0	44.7	29.7	-3.44	-191.5	-51.9	4,316.4	4,286.1	30.29	142.486	
12,921.7	12,550.0	8,602.2	8,240.0	44.7	29.7	-3.44	-191.5	-51.9	4,316.8	4,286.4	30.35	142.245	
12,925.7	12,550.0	8,602.2	8,240.0	44.7	29.7	-3.44	-191.5	-51.9	4,316.8	4,286.4	30.36	142.196	
12,935.2	12,550.0	8,602.2	8,240.0	44.8	29.7	-3.44	-191.5	-51.9	4,316.8	4,286.4	30.38	142.078	
13,000.0	12,550.0	8,662.4	8,240.0	44.9	29.9	-3.49	-251.5	-47.8	4,317.0	4,286.3	30.72	140.523	
13,100.0	12,550.0	8,772.5	8,240.0	45.1	30.3	-3.53	-361.6	-43.6	4,317.2	4,285.9	31.34	137.753	
13,200.0	12,550.0	8,875.9	8,240.0	45.4	30.7	-3.54	-465.0	-42.7	4,317.2	4,285.2	32.01	134.871	
13,300.0	12,550.0	8,975.9	8,240.0	45.8	31.3	-3.54	-565.0	-42.1	4,317.2	4,284.5	32.74	131.875	
13,400.0	12,550.0	9,075.9	8,240.0	46.2	31.9	-3.54	-665.0	-41.4	4,317.2	4,283.7	33.52	128.781	
13,500.0	12,550.0	9,175.9	8,240.0	46.7	32.6	-3.54	-765.0	-40.8	4,317.2	4,282.9	34.36	125.630	
13,600.0	12,550.0	9,275.9	8,240.0	47.2	33.3	-3.54	-865.0	-40.2	4,317.2	4,282.0	35.25	122.457	
13,700.0	12,550.0	9,375.9	8,240.0	47.8	34.1	-3.54	-965.0	-39.5	4,317.2	4,281.0	36.19	119.291	
13,800.0	12,550.0	9,475.9	8,240.0	48.4	35.0	-3.54	-1,064.9	-38.9	4,317.2	4,280.0	37.17	116.156	
13,900.0	12,550.0	9,575.9	8,240.0	49.1	35.9	-3.54	-1,164.9	-38.3	4,317.2	4,279.0	38.18	113.069	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #103H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
14,000.0	12,550.0	9,675.9	8,240.0	49.8	36.9	-3.54	-1,264.9	-37.6	4,317.2	4,278.0	39.23	110.044	
14,100.0	12,550.0	9,775.9	8,240.0	50.6	38.0	-3.54	-1,364.9	-37.0	4,317.2	4,276.9	40.31	107.092	
14,200.0	12,550.0	9,875.9	8,240.0	51.4	39.0	-3.54	-1,464.9	-36.4	4,317.2	4,275.8	41.42	104.220	
14,300.0	12,550.0	9,975.9	8,240.0	52.2	40.1	-3.54	-1,564.9	-35.7	4,317.2	4,274.7	42.56	101.434	
14,400.0	12,550.0	10,075.9	8,240.0	53.1	41.3	-3.54	-1,664.9	-35.1	4,317.2	4,273.5	43.72	98.736	
14,500.0	12,550.0	10,175.9	8,240.0	54.0	42.5	-3.54	-1,764.9	-34.5	4,317.2	4,272.3	44.91	96.128	
14,600.0	12,550.0	10,275.9	8,240.0	54.9	43.7	-3.54	-1,864.9	-33.8	4,317.2	4,271.1	46.12	93.611	
14,700.0	12,550.0	10,375.9	8,240.0	55.9	44.9	-3.54	-1,964.9	-33.2	4,317.2	4,269.9	47.35	91.184	
14,800.0	12,550.0	10,475.9	8,240.0	56.9	46.2	-3.54	-2,064.9	-32.6	4,317.2	4,268.6	48.59	88.846	
14,900.0	12,550.0	10,575.9	8,240.0	58.0	47.5	-3.54	-2,164.9	-31.9	4,317.2	4,267.4	49.86	86.595	
15,000.0	12,550.0	10,675.9	8,240.0	59.0	48.8	-3.54	-2,264.9	-31.3	4,317.2	4,266.1	51.13	84.428	
15,100.0	12,550.0	10,775.9	8,240.0	60.1	50.1	-3.53	-2,364.9	-30.6	4,317.2	4,264.8	52.43	82.344	
15,200.0	12,550.0	10,875.9	8,240.0	61.3	51.5	-3.53	-2,464.9	-30.0	4,317.2	4,263.5	53.74	80.339	
15,300.0	12,550.0	10,975.9	8,240.0	62.4	52.8	-3.53	-2,564.9	-29.4	4,317.2	4,262.1	55.06	78.411	
15,400.0	12,550.0	11,075.9	8,240.0	63.6	54.2	-3.53	-2,664.9	-28.7	4,317.2	4,260.8	56.39	76.557	
15,500.0	12,550.0	11,175.9	8,240.0	64.8	55.6	-3.53	-2,764.9	-28.1	4,317.2	4,259.5	57.74	74.774	
15,600.0	12,550.0	11,275.9	8,240.0	66.0	57.0	-3.53	-2,864.9	-27.5	4,317.2	4,258.1	59.09	73.058	
15,700.0	12,550.0	11,375.9	8,240.0	67.2	58.4	-3.53	-2,964.9	-26.8	4,317.2	4,256.7	60.46	71.408	
15,800.0	12,550.0	11,475.9	8,240.0	68.4	59.9	-3.53	-3,064.9	-26.2	4,317.2	4,255.4	61.83	69.820	
15,900.0	12,550.0	11,575.9	8,240.0	69.7	61.3	-3.53	-3,164.9	-25.6	4,317.2	4,254.0	63.22	68.291	
16,000.0	12,550.0	11,675.9	8,240.0	71.0	62.8	-3.53	-3,264.9	-24.9	4,317.2	4,252.6	64.61	66.819	
16,100.0	12,550.0	11,775.9	8,240.0	72.3	64.3	-3.53	-3,364.9	-24.3	4,317.2	4,251.2	66.01	65.402	
16,200.0	12,550.0	11,875.9	8,240.0	73.6	65.7	-3.53	-3,464.9	-23.7	4,317.2	4,249.8	67.42	64.036	
16,300.0	12,550.0	11,975.9	8,240.0	74.9	67.2	-3.53	-3,564.9	-23.0	4,317.2	4,248.4	68.83	62.720	
16,400.0	12,550.0	12,075.9	8,240.0	76.2	68.7	-3.53	-3,664.9	-22.4	4,317.2	4,246.9	70.25	61.451	
16,500.0	12,550.0	12,175.9	8,240.0	77.6	70.2	-3.53	-3,764.9	-21.8	4,317.2	4,245.5	71.68	60.227	
16,600.0	12,550.0	12,275.9	8,240.0	78.9	71.7	-3.53	-3,864.9	-21.1	4,317.2	4,244.1	73.12	59.046	
16,700.0	12,550.0	12,375.9	8,240.0	80.3	73.2	-3.53	-3,964.9	-20.5	4,317.2	4,242.6	74.55	57.906	
16,800.0	12,550.0	12,475.9	8,240.0	81.7	74.7	-3.53	-4,064.9	-19.9	4,317.2	4,241.2	76.00	56.806	
16,900.0	12,550.0	12,575.9	8,240.0	83.1	76.3	-3.53	-4,164.9	-19.2	4,317.2	4,239.7	77.45	55.743	
17,000.0	12,550.0	12,675.9	8,240.0	84.5	77.8	-3.53	-4,264.9	-18.6	4,317.2	4,238.3	78.90	54.715	
17,100.0	12,550.0	12,775.9	8,240.0	85.9	79.3	-3.53	-4,364.9	-17.9	4,317.2	4,236.8	80.36	53.722	
17,200.0	12,550.0	12,875.9	8,240.0	87.3	80.9	-3.53	-4,464.9	-17.3	4,317.2	4,235.4	81.82	52.762	
17,300.0	12,550.0	12,975.9	8,240.0	88.7	82.4	-3.53	-4,564.9	-16.7	4,317.2	4,233.9	83.29	51.832	
17,400.0	12,550.0	13,075.9	8,240.0	90.1	83.9	-3.53	-4,664.9	-16.0	4,317.2	4,232.4	84.76	50.933	
17,500.0	12,550.0	13,175.9	8,240.0	91.6	85.5	-3.53	-4,764.9	-15.4	4,317.2	4,231.0	86.24	50.062	
17,600.0	12,550.0	13,275.9	8,240.0	93.0	87.1	-3.53	-4,864.9	-14.8	4,317.2	4,229.5	87.71	49.218	
17,700.0	12,550.0	13,375.9	8,240.0	94.5	88.6	-3.53	-4,964.9	-14.1	4,317.2	4,228.0	89.20	48.401	
17,800.0	12,550.0	13,475.9	8,240.0	95.9	90.2	-3.53	-5,064.9	-13.5	4,317.2	4,226.5	90.68	47.609	
17,900.0	12,550.0	13,575.9	8,240.0	97.4	91.7	-3.53	-5,164.9	-12.9	4,317.2	4,225.0	92.17	46.840	
18,000.0	12,550.0	13,675.9	8,240.0	98.9	93.3	-3.53	-5,264.9	-12.2	4,317.2	4,223.5	93.66	46.095	
18,100.0	12,550.0	13,775.9	8,240.0	100.4	94.9	-3.53	-5,364.9	-11.6	4,317.2	4,222.0	95.15	45.371	
18,200.0	12,550.0	13,875.9	8,240.0	101.8	96.4	-3.53	-5,464.9	-11.0	4,317.2	4,220.5	96.65	44.669	
18,300.0	12,550.0	13,975.9	8,240.0	103.3	98.0	-3.53	-5,564.9	-10.3	4,317.2	4,219.0	98.15	43.987	
18,400.0	12,550.0	14,075.9	8,240.0	104.8	99.6	-3.53	-5,664.9	-9.7	4,317.2	4,217.5	99.65	43.324	
18,500.0	12,550.0	14,175.9	8,240.0	106.3	101.2	-3.53	-5,764.9	-9.1	4,317.2	4,216.0	101.15	42.681	
18,600.0	12,550.0	14,275.9	8,240.0	107.8	102.8	-3.53	-5,864.9	-8.4	4,317.2	4,214.5	102.66	42.055	
18,700.0	12,550.0	14,375.9	8,240.0	109.3	104.3	-3.53	-5,964.9	-7.8	4,317.2	4,213.0	104.16	41.446	
18,800.0	12,550.0	14,475.9	8,240.0	110.8	105.9	-3.53	-6,064.8	-7.2	4,317.2	4,211.5	105.67	40.854	
18,900.0	12,550.0	14,575.9	8,240.0	112.3	107.5	-3.53	-6,164.8	-6.5	4,317.2	4,210.0	107.19	40.278	
19,000.0	12,550.0	14,675.9	8,240.0	113.9	109.1	-3.53	-6,264.8	-5.9	4,317.2	4,208.5	108.70	39.717	
19,100.0	12,550.0	14,775.9	8,240.0	115.4	110.7	-3.53	-6,364.8	-5.2	4,317.2	4,207.0	110.21	39.171	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #103H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
19,200.0	12,550.0	14,875.9	8,240.0	116.9	112.3	-3.53	-6,464.8	-4.6	4,317.2	4,205.5	111.73	38.639	
19,300.0	12,550.0	14,975.9	8,240.0	118.4	113.9	-3.53	-6,564.8	-4.0	4,317.2	4,203.9	113.25	38.121	
19,400.0	12,550.0	15,075.9	8,240.0	120.0	115.5	-3.53	-6,664.8	-3.3	4,317.2	4,202.4	114.77	37.616	
19,500.0	12,550.0	15,175.9	8,240.0	121.5	117.1	-3.53	-6,764.8	-2.7	4,317.2	4,200.9	116.29	37.123	
19,600.0	12,550.0	15,275.9	8,240.0	123.0	118.7	-3.53	-6,864.8	-2.1	4,317.2	4,199.4	117.82	36.643	
19,700.0	12,550.0	15,375.9	8,240.0	124.6	120.3	-3.53	-6,964.8	-1.4	4,317.2	4,197.8	119.34	36.175	
19,800.0	12,550.0	15,475.9	8,240.0	126.1	121.9	-3.53	-7,064.8	-0.8	4,317.2	4,196.3	120.87	35.718	
19,900.0	12,550.0	15,575.9	8,240.0	127.7	123.5	-3.53	-7,164.8	-0.2	4,317.2	4,194.8	122.39	35.273	
20,000.0	12,550.0	15,675.9	8,240.0	129.2	125.1	-3.53	-7,264.8	0.5	4,317.2	4,193.3	123.92	34.838	
20,100.0	12,550.0	15,775.9	8,240.0	130.8	126.7	-3.53	-7,364.8	1.1	4,317.2	4,191.7	125.45	34.413	
20,200.0	12,550.0	15,875.9	8,240.0	132.3	128.3	-3.53	-7,464.8	1.7	4,317.2	4,190.2	126.98	33.998	
20,300.0	12,550.0	15,975.9	8,240.0	133.9	129.9	-3.53	-7,564.8	2.4	4,317.2	4,188.7	128.52	33.592	
20,400.0	12,550.0	16,075.9	8,240.0	135.5	131.6	-3.53	-7,664.8	3.0	4,317.2	4,187.1	130.05	33.196	
20,500.0	12,550.0	16,175.9	8,240.0	137.0	133.2	-3.53	-7,764.8	3.6	4,317.2	4,185.6	131.58	32.809	
20,600.0	12,550.0	16,275.9	8,240.0	138.6	134.8	-3.53	-7,864.8	4.3	4,317.2	4,184.1	133.12	32.431	
20,700.0	12,550.0	16,375.9	8,240.0	140.1	136.4	-3.53	-7,964.8	4.9	4,317.2	4,182.5	134.66	32.060	
20,800.0	12,550.0	16,475.9	8,240.0	141.7	138.0	-3.53	-8,064.8	5.5	4,317.2	4,181.0	136.19	31.699	
20,900.0	12,550.0	16,575.9	8,240.0	143.3	139.6	-3.53	-8,164.8	6.2	4,317.2	4,179.4	137.73	31.344	
21,000.0	12,550.0	16,675.9	8,240.0	144.9	141.2	-3.53	-8,264.8	6.8	4,317.2	4,177.9	139.27	30.998	
21,100.0	12,550.0	16,775.9	8,240.0	146.4	142.9	-3.53	-8,364.8	7.4	4,317.2	4,176.4	140.81	30.659	
21,200.0	12,550.0	16,875.9	8,240.0	148.0	144.5	-3.53	-8,464.8	8.1	4,317.2	4,174.8	142.35	30.327	
21,300.0	12,550.0	16,975.9	8,240.0	149.6	146.1	-3.53	-8,564.8	8.7	4,317.2	4,173.3	143.90	30.002	
21,400.0	12,550.0	17,075.9	8,240.0	151.2	147.7	-3.53	-8,664.8	9.4	4,317.2	4,171.7	145.44	29.684	
21,500.0	12,550.0	17,175.9	8,240.0	152.7	149.3	-3.53	-8,764.8	10.0	4,317.2	4,170.2	146.98	29.372	
21,600.0	12,550.0	17,275.9	8,240.0	154.3	150.9	-3.53	-8,864.8	10.6	4,317.2	4,168.6	148.53	29.067	
21,700.0	12,550.0	17,375.9	8,240.0	155.9	152.6	-3.53	-8,964.8	11.3	4,317.2	4,167.1	150.07	28.767	
21,800.0	12,550.0	17,475.9	8,240.0	157.5	154.2	-3.53	-9,064.8	11.9	4,317.2	4,165.5	151.62	28.474	
21,900.0	12,550.0	17,575.9	8,240.0	159.1	155.8	-3.53	-9,164.8	12.5	4,317.2	4,164.0	153.16	28.187	
22,000.0	12,550.0	17,675.9	8,240.0	160.7	157.4	-3.53	-9,264.8	13.2	4,317.2	4,162.5	154.71	27.905	
22,100.0	12,550.0	17,775.9	8,240.0	162.2	159.1	-3.53	-9,364.8	13.8	4,317.2	4,160.9	156.26	27.628	
22,200.0	12,550.0	17,875.9	8,240.0	163.8	160.7	-3.53	-9,464.8	14.4	4,317.2	4,159.4	157.81	27.357	
22,300.0	12,550.0	17,975.9	8,240.0	165.4	162.3	-3.53	-9,564.8	15.1	4,317.2	4,157.8	159.36	27.091	
22,400.0	12,550.0	18,075.9	8,240.0	167.0	163.9	-3.53	-9,664.8	15.7	4,317.2	4,156.3	160.91	26.830	
22,500.0	12,550.0	18,175.9	8,240.0	168.6	165.6	-3.52	-9,764.8	16.3	4,317.2	4,154.7	162.46	26.574	
22,600.0	12,550.0	18,275.9	8,240.0	170.2	167.2	-3.52	-9,864.8	17.0	4,317.2	4,153.2	164.01	26.323	
22,700.0	12,550.0	18,375.9	8,240.0	171.8	168.8	-3.52	-9,964.8	17.6	4,317.2	4,151.6	165.56	26.076	
22,727.5	12,550.0	18,403.4	8,240.0	172.2	169.3	-3.52	-9,992.3	17.8	4,317.2	4,151.2	165.98	26.009	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #107H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	0.0	0.0	0.0	0.0	-90.30	-0.2	-30.0	30.0				
100.0	100.0	100.9	100.9	0.1	0.2	-91.55	-0.8	-28.3	28.3	28.0	0.32	88.950	
200.0	200.0	200.9	200.8	0.5	0.5	-94.48	-2.0	-25.0	25.1	24.1	1.00	25.200	
300.0	300.0	300.8	300.7	0.8	0.9	-98.25	-3.2	-21.7	22.0	20.3	1.71	12.874	
400.0	400.0	400.8	400.6	1.2	1.2	-103.24	-4.3	-18.5	19.0	16.5	2.42	7.829	
500.0	500.0	500.7	500.4	1.6	1.6	-110.04	-5.5	-15.2	16.2	13.0	3.14	5.145	
600.0	600.0	600.6	600.3	1.9	1.9	-119.48	-6.7	-11.9	13.7	9.8	3.86	3.540	
700.0	700.0	700.6	700.2	2.3	2.3	-132.56	-7.9	-8.6	11.7	7.1	4.59	2.554	
800.0	800.0	800.5	800.1	2.6	2.7	-149.59	-9.1	-5.3	10.6	5.3	5.31	1.990	
854.7	854.7	855.2	854.7	2.8	2.9	-160.00	-9.8	-3.6	10.4	4.7	5.71	1.822	CC
900.0	900.0	900.5	899.9	3.0	3.0	-168.63	-10.3	-2.1	10.5	4.5	6.03	1.744	ES
1,002.0	1,002.0	1,002.4	1,001.8	3.4	3.4	173.71	-11.5	1.3	11.6	4.8	6.76	1.716	SF
1,100.0	1,100.0	1,100.3	1,099.7	3.7	3.8	-161.53	-12.7	4.5	14.3	6.8	7.45	1.914	
1,200.0	1,200.0	1,200.1	1,199.4	4.1	4.1	-171.88	-13.9	7.8	19.3	11.1	8.16	2.365	
1,300.0	1,299.9	1,300.2	1,299.1	4.4	4.5	-177.97	-15.1	11.0	26.4	17.6	8.87	2.980	
1,400.0	1,399.7	1,400.6	1,398.6	4.8	4.9	178.61	-16.3	14.3	35.5	25.9	9.59	3.701	
1,500.0	1,499.4	1,501.2	1,497.9	5.1	5.2	176.71	-17.5	17.6	46.3	36.0	10.30	4.498	
1,600.0	1,598.9	1,602.0	1,597.1	5.5	5.6	175.66	-18.6	20.8	59.0	47.9	11.02	5.349	
1,700.0	1,698.3	1,703.0	1,696.0	5.9	5.9	175.09	-19.8	24.0	73.3	61.6	11.74	6.244	
1,800.0	1,797.4	1,804.3	1,794.6	6.3	6.3	174.81	-21.0	27.3	89.4	76.9	12.46	7.173	
1,900.0	1,896.3	1,905.9	1,893.0	6.6	6.7	174.69	-22.2	30.5	107.2	94.0	13.18	8.129	
2,000.0	1,995.0	2,007.8	1,991.0	7.0	7.1	174.68	-23.3	33.7	126.7	112.7	13.91	9.107	
2,100.0	2,093.3	2,089.9	2,088.6	7.4	7.4	174.73	-24.5	36.9	147.9	133.3	14.56	10.154	
2,202.0	2,193.2	2,189.2	2,187.9	7.9	7.7	174.81	-25.7	40.2	171.2	155.9	15.28	11.202	
2,300.0	2,289.1	2,284.4	2,283.0	8.3	8.1	174.91	-26.8	43.3	194.5	178.5	15.98	12.173	
2,400.0	2,386.9	2,381.5	2,380.1	8.7	8.4	175.00	-28.0	46.5	218.3	201.6	16.69	13.081	
2,500.0	2,484.7	2,478.6	2,477.2	9.2	8.8	175.06	-29.1	49.7	242.1	224.7	17.40	13.913	
2,600.0	2,582.5	2,575.8	2,574.2	9.6	9.1	175.12	-30.3	52.9	265.8	247.7	18.11	14.679	
2,700.0	2,680.4	2,672.9	2,671.3	10.0	9.5	175.16	-31.5	56.1	289.6	270.8	18.82	15.385	
2,800.0	2,778.2	2,770.0	2,768.4	10.5	9.8	175.20	-32.6	59.2	313.4	293.8	19.54	16.040	
2,900.0	2,876.0	2,867.2	2,865.4	11.0	10.2	175.23	-33.8	62.4	337.2	316.9	20.25	16.647	
3,000.0	2,973.8	2,964.3	2,962.5	11.4	10.5	175.26	-34.9	65.6	360.9	340.0	20.97	17.213	
3,100.0	3,071.6	3,061.4	3,059.6	11.9	10.9	175.29	-36.1	68.8	384.7	363.0	21.69	17.740	
3,200.0	3,169.4	3,158.6	3,156.7	12.3	11.2	175.31	-37.3	72.0	408.5	386.1	22.40	18.233	
3,300.0	3,267.3	3,255.7	3,253.7	12.8	11.6	175.33	-38.4	75.2	432.2	409.1	23.12	18.695	
3,400.0	3,365.1	3,352.8	3,350.8	13.3	11.9	175.35	-39.6	78.4	456.0	432.2	23.84	19.129	
3,500.0	3,462.9	3,450.0	3,447.9	13.7	12.3	175.36	-40.7	81.5	479.8	455.2	24.56	19.537	
3,579.9	3,541.0	3,527.6	3,525.4	14.1	12.6	175.37	-41.7	84.1	498.8	473.7	25.13	19.846	
3,600.0	3,560.7	3,547.1	3,545.0	14.2	12.6	175.38	-41.9	84.7	503.5	478.2	25.28	19.919	
3,700.0	3,658.9	3,644.6	3,642.5	14.6	13.0	175.41	-43.1	87.9	525.5	499.5	26.00	20.214	
3,800.0	3,757.5	3,751.5	3,749.3	15.1	13.4	175.42	-44.2	91.0	544.6	517.8	26.77	20.344	
3,900.0	3,856.6	3,858.8	3,856.6	15.5	13.7	175.54	-44.3	91.4	558.7	531.2	27.52	20.300	
4,000.0	3,955.9	3,958.2	3,955.9	15.9	14.1	175.64	-44.3	91.4	569.9	541.7	28.22	20.196	
4,100.0	4,055.6	4,057.8	4,055.6	16.3	14.4	175.72	-44.3	91.4	578.5	549.6	28.91	20.008	
4,200.0	4,155.4	4,157.6	4,155.4	16.6	14.7	175.77	-44.3	91.4	584.5	554.9	29.61	19.743	
4,300.0	4,255.3	4,257.5	4,255.3	17.0	15.1	175.77	-44.1	91.6	587.9	557.6	30.30	19.400	
4,379.9	4,335.2	4,337.4	4,335.1	17.2	15.4	136.60	-43.1	92.7	588.7	557.9	30.86	19.076	
4,400.0	4,355.3	4,357.5	4,355.2	17.3	15.4	136.55	-42.8	93.1	588.7	557.7	31.00	18.990	
4,500.0	4,455.3	4,457.3	4,455.0	17.6	15.8	136.19	-40.2	95.7	588.7	557.0	31.70	18.573	
4,600.0	4,555.3	4,557.0	4,554.6	17.9	16.1	135.66	-36.5	99.7	588.8	556.4	32.40	18.175	
4,700.0	4,655.3	4,656.5	4,653.8	18.2	16.5	134.96	-31.6	104.9	589.0	555.9	33.10	17.797	
4,800.0	4,755.3	4,755.7	4,752.6	18.6	16.8	134.11	-25.6	111.3	589.4	555.6	33.80	17.439	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #107H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,854.6	4,850.9	18.9	17.2	133.09	-18.4	119.0	590.0	555.5	34.50	17.101	
5,000.0	4,955.3	4,953.0	4,948.6	19.2	17.5	131.91	-10.1	127.9	590.9	555.7	35.20	16.787	
5,100.0	5,055.3	5,051.1	5,045.7	19.5	17.9	130.59	-0.7	137.9	592.3	556.4	35.90	16.496	
5,200.0	5,155.3	5,148.6	5,142.0	19.9	18.3	129.12	9.8	149.1	594.2	557.6	36.61	16.232	
5,300.0	5,255.3	5,245.6	5,237.4	20.2	18.6	127.51	21.4	161.4	596.8	559.5	37.31	15.994	
5,400.0	5,355.3	5,341.9	5,332.0	20.5	19.0	125.78	34.0	174.7	600.2	562.2	38.01	15.791	
5,500.0	5,455.3	5,438.6	5,426.7	20.8	19.4	123.93	47.6	189.2	604.6	565.8	38.72	15.613	
5,600.0	5,555.3	5,536.5	5,522.4	21.2	19.7	122.06	61.5	204.0	609.6	570.2	39.44	15.456	
5,700.0	5,655.3	5,634.3	5,618.1	21.5	20.1	120.23	75.4	218.9	615.4	575.2	40.17	15.320	
5,800.0	5,755.3	5,732.1	5,713.7	21.8	20.5	118.43	89.3	233.7	621.7	580.8	40.89	15.203	
5,900.0	5,855.3	5,829.9	5,809.4	22.2	20.9	116.66	103.2	248.5	628.7	587.1	41.62	15.105	
6,000.0	5,955.3	5,927.7	5,905.1	22.5	21.3	114.94	117.2	263.3	636.3	594.0	42.35	15.025	
6,100.0	6,055.3	6,025.5	6,000.8	22.8	21.7	113.25	131.1	278.2	644.5	601.4	43.08	14.960	
6,200.0	6,155.3	6,123.3	6,096.4	23.2	22.1	111.61	145.0	293.0	653.2	609.4	43.81	14.910	
6,300.0	6,255.3	6,221.2	6,192.1	23.5	22.5	110.01	158.9	307.8	662.5	618.0	44.54	14.874	
6,400.0	6,355.3	6,319.0	6,287.8	23.9	22.9	108.46	172.8	322.6	672.3	627.0	45.27	14.850	
6,500.0	6,455.3	6,416.8	6,383.5	24.2	23.3	106.95	186.8	337.5	682.6	636.6	46.00	14.838	
6,600.0	6,555.3	6,514.6	6,479.2	24.5	23.7	105.48	200.7	352.3	693.3	646.6	46.73	14.837	
6,700.0	6,655.3	6,612.4	6,574.8	24.9	24.1	104.06	214.6	367.1	704.5	657.1	47.46	14.845	
6,800.0	6,755.3	6,710.2	6,670.5	25.2	24.6	102.68	228.5	381.9	716.2	668.0	48.19	14.862	
6,900.0	6,855.3	6,808.0	6,766.2	25.5	25.0	101.34	242.4	396.8	728.2	679.3	48.92	14.887	
7,000.0	6,955.3	6,905.9	6,861.9	25.9	25.4	100.05	256.4	411.6	740.6	691.0	49.64	14.920	
7,100.0	7,055.3	7,003.7	6,957.5	26.2	25.8	98.80	270.3	426.4	753.4	703.1	50.37	14.959	
7,200.0	7,155.3	7,101.5	7,053.2	26.6	26.3	97.59	284.2	441.2	766.6	715.5	51.09	15.004	
7,300.0	7,255.3	7,200.7	7,148.9	26.9	26.7	96.43	298.1	456.1	780.1	728.2	51.82	15.053	
7,400.0	7,355.3	7,297.1	7,244.6	27.2	27.1	95.30	312.1	470.9	793.9	741.3	52.54	15.110	
7,500.0	7,455.3	7,394.9	7,340.2	27.6	27.5	94.21	326.0	485.7	808.0	754.7	53.26	15.169	
7,600.0	7,555.3	7,508.1	7,451.2	27.9	28.0	93.06	341.2	501.9	821.5	767.4	54.16	15.169	
7,700.0	7,655.3	7,624.4	7,565.9	28.3	28.5	92.09	354.4	516.0	833.2	778.2	55.06	15.132	
7,800.0	7,755.3	7,741.8	7,682.2	28.6	29.0	91.31	365.4	527.7	842.9	787.0	55.94	15.067	
7,900.0	7,855.3	7,860.1	7,799.8	29.0	29.5	90.72	374.0	536.8	850.5	793.7	56.80	14.974	
8,000.0	7,955.3	7,979.1	7,918.4	29.3	29.9	90.31	380.0	543.3	856.0	798.3	57.62	14.854	
8,100.0	8,055.3	8,098.5	8,037.7	29.7	30.3	90.07	383.6	547.1	859.1	800.7	58.41	14.708	
8,200.0	8,155.3	8,218.1	8,157.3	30.0	30.7	90.00	384.6	548.2	860.0	800.9	59.16	14.537	
8,208.0	8,163.3	8,227.7	8,166.9	30.0	30.8	90.00	384.6	548.2	860.0	800.8	59.22	14.522	
8,300.0	8,255.3	8,301.1	8,239.9	30.3	31.0	90.52	376.8	549.0	861.0	801.2	59.78	14.403	
8,400.0	8,355.3	8,383.3	8,319.7	30.7	31.2	91.80	357.5	550.9	863.9	803.5	60.34	14.318	
8,500.0	8,455.3	8,458.6	8,389.7	31.0	31.3	93.61	330.0	553.6	869.6	808.8	60.79	14.306	
8,600.0	8,555.3	8,525.7	8,448.5	31.4	31.5	95.69	298.1	556.7	879.4	818.3	61.06	14.402	
8,700.0	8,655.3	8,584.2	8,496.5	31.7	31.5	97.83	264.7	560.0	894.2	833.2	61.07	14.642	
8,800.0	8,755.3	8,634.7	8,535.0	32.1	31.6	99.88	232.2	563.2	915.1	854.3	60.77	15.058	
8,900.0	8,855.3	8,678.1	8,565.7	32.4	31.6	101.78	201.6	566.2	942.5	882.4	60.14	15.671	
9,000.0	8,955.3	8,715.5	8,590.1	32.8	31.7	103.48	173.5	568.9	976.6	917.4	59.20	16.497	
9,100.0	9,055.3	8,750.0	8,611.0	33.1	31.7	105.10	146.2	571.6	1,017.2	959.2	58.02	17.532	
9,200.0	9,155.3	8,775.5	8,625.4	33.5	31.7	106.33	125.2	573.6	1,064.1	1,007.5	56.57	18.809	
9,300.0	9,255.3	8,800.0	8,638.3	33.8	31.7	107.52	104.5	575.7	1,116.6	1,061.6	55.04	20.288	
9,400.0	9,355.3	8,820.9	8,648.6	34.2	31.7	108.54	86.4	577.5	1,174.4	1,121.0	53.44	21.978	
9,500.0	9,455.3	8,850.0	8,661.8	34.5	31.7	109.97	60.6	580.0	1,236.9	1,184.9	52.01	23.781	
9,600.0	9,555.3	8,850.0	8,661.8	34.9	31.7	109.97	60.6	580.0	1,303.3	1,253.2	50.16	25.981	
9,700.0	9,655.3	8,870.7	8,670.4	35.2	31.7	110.98	41.8	581.8	1,373.4	1,324.6	48.76	28.163	
9,800.0	9,755.3	8,883.8	8,675.5	35.5	31.7	111.63	29.8	583.0	1,446.6	1,399.2	47.35	30.551	
9,900.0	9,855.3	8,900.0	8,681.4	35.9	31.7	112.42	14.8	584.5	1,522.5	1,476.4	46.10	33.026	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #107H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
10,000.0	9,955.3	8,900.0	8,681.4	36.2	31.7	112.42	14.8	584.5	1,600.9	1,556.2	44.72	35.799	
10,100.0	10,055.3	8,900.0	8,681.4	36.6	31.7	112.42	14.8	584.5	1,681.6	1,638.1	43.47	38.687	
10,200.0	10,155.3	8,924.8	8,689.6	36.9	31.7	113.63	-8.5	586.8	1,763.6	1,720.9	42.69	41.313	
10,300.0	10,255.3	8,950.0	8,696.9	37.3	31.8	114.84	-32.5	589.1	1,847.8	1,805.8	42.01	43.984	
10,400.0	10,355.3	8,950.0	8,696.9	37.6	31.8	114.84	-32.5	589.1	1,932.9	1,891.8	41.08	47.051	
10,500.0	10,455.3	8,950.0	8,696.9	38.0	31.8	114.84	-32.5	589.1	2,019.3	1,979.1	40.25	50.167	
10,600.0	10,555.3	8,950.0	8,696.9	38.3	31.8	114.84	-32.5	589.1	2,107.0	2,067.4	39.52	53.319	
10,700.0	10,655.3	8,950.0	8,696.9	38.7	31.8	114.84	-32.5	589.1	2,195.7	2,156.8	38.87	56.492	
10,800.0	10,755.3	8,950.0	8,696.9	39.0	31.8	114.84	-32.5	589.1	2,285.3	2,247.0	38.30	59.674	
10,900.0	10,855.3	8,969.5	8,701.8	39.4	31.8	115.77	-51.3	591.0	2,375.4	2,337.4	38.02	62.485	
11,000.0	10,955.3	8,974.2	8,702.9	39.7	31.8	115.99	-55.8	591.4	2,466.4	2,428.8	37.63	65.551	
11,100.0	11,055.3	8,978.6	8,703.9	40.1	31.8	116.20	-60.0	591.8	2,558.0	2,520.7	37.29	68.599	
11,200.0	11,155.3	9,000.0	8,708.2	40.4	31.8	117.20	-80.9	593.9	2,650.5	2,613.3	37.17	71.302	
11,300.0	11,255.3	9,000.0	8,708.2	40.8	31.8	117.20	-80.9	593.9	2,743.1	2,706.2	36.89	74.358	
11,400.0	11,355.3	9,000.0	8,708.2	41.2	31.8	117.20	-80.9	593.9	2,836.2	2,799.5	36.66	77.375	
11,500.0	11,455.3	9,000.0	8,708.2	41.5	31.8	117.20	-80.9	593.9	2,929.8	2,893.3	36.46	80.348	
11,600.0	11,555.3	9,000.0	8,708.2	41.9	31.8	117.20	-80.9	593.9	3,023.7	2,987.4	36.31	83.273	
11,700.0	11,655.3	9,000.0	8,708.2	42.2	31.8	117.20	-80.9	593.9	3,118.1	3,081.9	36.20	86.146	
11,800.0	11,755.3	9,000.0	8,708.2	42.6	31.8	117.20	-80.9	593.9	3,212.7	3,176.6	36.11	88.963	
11,900.0	11,855.3	9,000.0	8,708.2	42.9	31.8	117.20	-80.9	593.9	3,307.7	3,271.7	36.06	91.724	
12,000.0	11,955.3	9,000.0	8,708.2	43.3	31.8	117.20	-80.9	593.9	3,403.0	3,367.0	36.04	94.425	
12,021.7	11,977.0	9,000.0	8,708.2	43.3	31.8	117.20	-80.9	593.9	3,423.7	3,387.7	36.04	95.003	
12,050.0	12,005.3	9,000.0	8,708.2	43.4	31.8	-55.21	-80.9	593.9	3,450.7	3,414.6	36.03	95.761	
12,100.0	12,055.1	9,000.0	8,708.2	43.6	31.8	-44.73	-80.9	593.9	3,497.6	3,461.6	36.02	97.109	
12,150.0	12,104.2	9,000.0	8,708.2	43.7	31.8	-37.12	-80.9	593.9	3,543.5	3,507.6	35.99	98.455	
12,200.0	12,152.4	9,000.0	8,708.2	43.9	31.8	-31.56	-80.9	593.9	3,588.1	3,552.2	35.96	99.786	
12,250.0	12,199.3	9,000.0	8,708.2	44.0	31.8	-27.43	-80.9	593.9	3,631.1	3,595.2	35.92	101.091	
12,300.0	12,244.5	9,023.7	8,712.1	44.1	31.9	-24.14	-104.2	596.1	3,671.6	3,635.6	36.03	101.895	
12,350.0	12,287.6	9,028.0	8,712.7	44.2	31.9	-21.73	-108.4	596.6	3,710.3	3,674.3	36.01	103.038	
12,400.0	12,328.4	9,050.0	8,715.2	44.3	31.9	-19.78	-130.2	598.7	3,746.9	3,710.8	36.09	103.813	
12,450.0	12,366.5	9,050.0	8,715.2	44.3	31.9	-18.31	-130.2	598.7	3,780.4	3,744.4	36.04	104.902	
12,500.0	12,401.7	9,050.0	8,715.2	44.4	31.9	-17.12	-130.2	598.7	3,811.1	3,775.1	35.99	105.899	
12,550.0	12,433.6	9,050.0	8,715.2	44.4	31.9	-16.17	-130.2	598.7	3,838.9	3,803.0	35.95	106.789	
12,600.0	12,462.0	9,050.0	8,715.2	44.5	31.9	-15.39	-130.2	598.7	3,863.6	3,827.7	35.92	107.558	
12,650.0	12,486.7	9,050.0	8,715.2	44.5	31.9	-14.77	-130.2	598.7	3,885.0	3,849.1	35.91	108.189	
12,700.0	12,507.6	9,050.0	8,715.2	44.5	31.9	-14.29	-130.2	598.7	3,903.2	3,867.3	35.92	108.670	
12,750.0	12,524.4	9,072.4	8,717.0	44.6	32.0	-13.92	-152.4	600.9	3,917.4	3,881.4	36.04	108.695	
12,800.0	12,537.1	9,078.8	8,717.3	44.6	32.0	-13.66	-158.8	601.5	3,928.3	3,892.2	36.11	108.782	
12,850.0	12,545.5	9,100.0	8,717.9	44.6	32.1	-13.51	-179.8	603.6	3,935.8	3,899.5	36.26	108.552	
12,900.0	12,549.5	9,100.0	8,717.9	44.7	32.1	-13.43	-179.8	603.6	3,939.2	3,902.9	36.35	108.370	
12,921.7	12,550.0	9,100.0	8,717.9	44.7	32.1	-13.42	-179.8	603.6	3,939.6	3,903.2	36.40	108.234	
12,935.2	12,550.0	9,100.0	8,717.9	44.8	32.1	-13.42	-179.8	603.6	3,939.7	3,903.2	36.43	108.137	
13,000.0	12,550.0	9,105.8	8,718.0	44.9	32.1	-13.43	-185.6	604.1	3,940.4	3,903.8	36.63	107.562	
13,100.0	12,550.0	9,253.2	8,718.1	45.1	32.7	-13.57	-332.6	614.7	3,941.9	3,904.6	37.36	105.503	
13,200.0	12,550.0	9,397.1	8,718.6	45.4	33.4	-13.60	-476.4	617.9	3,941.9	3,903.8	38.13	103.373	
13,300.0	12,550.0	9,497.1	8,719.0	45.8	33.9	-13.60	-576.4	618.6	3,941.5	3,902.7	38.83	101.501	
13,400.0	12,550.0	9,602.9	8,719.4	46.2	34.6	-13.60	-676.4	619.2	3,941.1	3,901.5	39.62	99.466	
13,500.0	12,550.0	9,702.9	8,719.8	46.7	35.3	-13.60	-776.4	619.8	3,940.7	3,900.3	40.44	97.441	
13,600.0	12,550.0	9,802.9	8,720.2	47.2	36.1	-13.61	-876.4	620.5	3,940.3	3,899.0	41.32	95.372	
13,700.0	12,550.0	9,902.9	8,720.7	47.8	36.9	-13.61	-976.4	621.1	3,939.9	3,897.7	42.24	93.279	
13,800.0	12,550.0	10,002.9	8,721.1	48.4	37.7	-13.61	-1,076.4	621.7	3,939.5	3,896.3	43.21	91.176	
13,900.0	12,550.0	10,097.1	8,721.5	49.1	38.6	-13.61	-1,176.4	622.3	3,939.1	3,894.9	44.18	89.152	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #107H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
14,000.0	12,550.0	10,202.9	8,721.9	49.8	39.6	-13.61	-1,276.4	623.0	3,938.7	3,893.4	45.27	86.996	
14,100.0	12,550.0	10,302.9	8,722.3	50.6	40.6	-13.61	-1,376.4	623.6	3,938.3	3,891.9	46.37	84.940	
14,200.0	12,550.0	10,397.1	8,722.7	51.4	41.6	-13.61	-1,476.4	624.2	3,937.9	3,890.5	47.45	82.985	
14,300.0	12,550.0	10,502.9	8,723.1	52.2	42.7	-13.61	-1,576.4	624.9	3,937.5	3,888.9	48.65	80.932	
14,400.0	12,550.0	10,602.9	8,723.5	53.1	43.8	-13.61	-1,676.4	625.5	3,937.1	3,887.3	49.84	78.992	
14,500.0	12,550.0	10,702.9	8,723.9	54.0	44.9	-13.62	-1,776.4	626.1	3,936.7	3,885.7	51.06	77.099	
14,600.0	12,550.0	10,802.9	8,724.3	54.9	46.1	-13.62	-1,876.4	626.7	3,936.3	3,884.0	52.31	75.256	
14,700.0	12,550.0	10,902.9	8,724.7	55.9	47.3	-13.62	-1,976.4	627.4	3,935.9	3,882.3	53.58	73.465	
14,800.0	12,550.0	11,002.9	8,725.1	56.9	48.6	-13.62	-2,076.4	628.0	3,935.5	3,880.6	54.87	71.726	
14,900.0	12,550.0	11,102.9	8,725.5	58.0	49.8	-13.62	-2,176.4	628.6	3,935.1	3,878.9	56.18	70.041	
15,000.0	12,550.0	11,202.9	8,726.0	59.0	51.1	-13.62	-2,276.4	629.3	3,934.7	3,877.2	57.52	68.408	
15,100.0	12,550.0	11,302.9	8,726.4	60.1	52.4	-13.62	-2,376.4	629.9	3,934.3	3,875.4	58.87	66.828	
15,200.0	12,550.0	11,397.1	8,726.8	61.3	53.6	-13.62	-2,476.4	630.5	3,933.9	3,873.7	60.20	65.349	
15,300.0	12,550.0	11,502.9	8,727.2	62.4	55.0	-13.63	-2,576.4	631.1	3,933.5	3,871.9	61.63	63.824	
15,400.0	12,550.0	11,603.0	8,727.6	63.6	56.4	-13.63	-2,676.4	631.8	3,933.1	3,870.1	63.03	62.396	
15,500.0	12,550.0	11,703.0	8,728.0	64.8	57.7	-13.63	-2,776.4	632.4	3,932.7	3,868.3	64.45	61.018	
15,600.0	12,550.0	11,803.0	8,728.4	66.0	59.1	-13.63	-2,876.3	633.0	3,932.3	3,866.4	65.88	59.686	
15,700.0	12,550.0	11,903.0	8,728.8	67.2	60.5	-13.63	-2,976.3	633.7	3,931.9	3,864.6	67.33	58.399	
15,800.0	12,550.0	12,003.0	8,729.2	68.4	61.9	-13.63	-3,076.3	634.3	3,931.5	3,862.7	68.78	57.157	
15,900.0	12,550.0	12,103.0	8,729.6	69.7	63.3	-13.63	-3,176.3	634.9	3,931.1	3,860.9	70.25	55.957	
16,000.0	12,550.0	12,203.0	8,730.0	71.0	64.8	-13.63	-3,276.3	635.6	3,930.7	3,859.0	71.73	54.799	
16,100.0	12,550.0	12,297.0	8,730.4	72.3	66.1	-13.63	-3,376.3	636.2	3,930.3	3,857.1	73.17	53.714	
16,200.0	12,550.0	12,403.0	8,730.9	73.6	67.7	-13.64	-3,476.3	636.8	3,929.9	3,855.2	74.72	52.598	
16,300.0	12,550.0	12,503.0	8,731.3	74.9	69.1	-13.64	-3,576.3	637.4	3,929.5	3,853.3	76.22	51.553	
16,400.0	12,550.0	12,603.0	8,731.7	76.2	70.6	-13.64	-3,676.3	638.1	3,929.1	3,851.4	77.74	50.543	
16,500.0	12,550.0	12,703.0	8,732.1	77.6	72.1	-13.64	-3,776.3	638.7	3,928.7	3,849.5	79.26	49.567	
16,600.0	12,550.0	12,803.0	8,732.5	78.9	73.5	-13.64	-3,876.3	639.3	3,928.3	3,847.5	80.79	48.623	
16,700.0	12,550.0	12,903.0	8,732.9	80.3	75.0	-13.64	-3,976.3	640.0	3,927.9	3,845.6	82.33	47.710	
16,800.0	12,550.0	13,003.0	8,733.3	81.7	76.5	-13.64	-4,076.3	640.6	3,927.5	3,843.6	83.87	46.826	
16,900.0	12,550.0	13,097.0	8,733.7	83.1	77.9	-13.64	-4,176.3	641.2	3,927.1	3,841.7	85.38	45.997	
17,000.0	12,550.0	13,203.0	8,734.1	84.5	79.5	-13.65	-4,276.3	641.8	3,926.7	3,839.7	86.98	45.144	
17,100.0	12,550.0	13,303.0	8,734.5	85.9	81.1	-13.65	-4,376.3	642.5	3,926.3	3,837.8	88.54	44.343	
17,200.0	12,550.0	13,403.0	8,734.9	87.3	82.6	-13.65	-4,476.3	643.1	3,925.9	3,835.8	90.11	43.567	
17,300.0	12,550.0	13,503.0	8,735.3	88.7	84.1	-13.65	-4,576.3	643.7	3,925.5	3,833.8	91.69	42.815	
17,400.0	12,550.0	13,603.0	8,735.7	90.1	85.6	-13.65	-4,676.3	644.4	3,925.1	3,831.9	93.26	42.086	
17,500.0	12,550.0	13,697.0	8,736.2	91.6	87.1	-13.65	-4,776.3	645.0	3,924.7	3,829.9	94.80	41.400	
17,600.0	12,550.0	13,797.0	8,736.6	93.0	88.6	-13.65	-4,876.3	645.6	3,924.3	3,827.9	96.39	40.714	
17,700.0	12,550.0	13,903.0	8,737.0	94.5	90.2	-13.65	-4,976.3	646.2	3,923.9	3,825.9	98.03	40.029	
17,800.0	12,550.0	14,003.0	8,737.4	95.9	91.8	-13.65	-5,076.3	646.9	3,923.5	3,823.9	99.62	39.384	
17,900.0	12,550.0	14,103.0	8,737.8	97.4	93.3	-13.66	-5,176.3	647.5	3,923.1	3,821.9	101.22	38.757	
18,000.0	12,550.0	14,203.0	8,738.2	98.9	94.9	-13.66	-5,276.3	648.1	3,922.7	3,819.9	102.83	38.149	
18,100.0	12,550.0	14,297.0	8,738.6	100.4	96.4	-13.66	-5,376.3	648.8	3,922.3	3,817.9	104.38	37.576	
18,200.0	12,550.0	14,403.0	8,739.0	101.8	98.0	-13.66	-5,476.3	649.4	3,921.9	3,815.9	106.04	36.984	
18,300.0	12,550.0	14,503.0	8,739.4	103.3	99.6	-13.66	-5,576.3	650.0	3,921.5	3,813.9	107.66	36.426	
18,400.0	12,550.0	14,603.0	8,739.8	104.8	101.1	-13.66	-5,676.2	650.6	3,921.1	3,811.8	109.27	35.883	
18,500.0	12,550.0	14,703.0	8,740.2	106.3	102.7	-13.66	-5,776.2	651.3	3,920.7	3,809.8	110.89	35.356	
18,600.0	12,550.0	14,797.0	8,740.6	107.8	104.2	-13.66	-5,876.2	651.9	3,920.3	3,807.9	112.47	34.858	
18,700.0	12,550.0	14,897.0	8,741.1	109.3	105.7	-13.67	-5,976.2	652.5	3,919.9	3,805.8	114.09	34.358	
18,800.0	12,550.0	15,003.0	8,741.5	110.8	107.4	-13.67	-6,076.2	653.2	3,919.5	3,803.8	115.77	33.856	
18,900.0	12,550.0	15,103.0	8,741.9	112.3	109.0	-13.67	-6,176.2	653.8	3,919.1	3,801.7	117.40	33.383	
19,000.0	12,550.0	15,203.0	8,742.3	113.9	110.6	-13.67	-6,276.2	654.4	3,918.7	3,799.7	119.03	32.921	
19,100.0	12,550.0	15,303.0	8,742.7	115.4	112.2	-13.67	-6,376.2	655.1	3,918.3	3,797.7	120.67	32.472	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #107H - Wellbore #1 - BLM Plan #2

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
19,200.0	12,550.0	15,403.0	8,743.1	116.9	113.7	-13.67	-6,476.2	655.7	3,917.9	3,795.6	122.31	32.034	
19,300.0	12,550.0	15,497.0	8,743.5	118.4	115.2	-13.67	-6,576.2	656.3	3,917.5	3,793.6	123.90	31.620	
19,400.0	12,550.0	15,603.0	8,743.9	120.0	116.9	-13.67	-6,676.2	656.9	3,917.1	3,791.5	125.59	31.191	
19,500.0	12,550.0	15,703.0	8,744.3	121.5	118.5	-13.67	-6,776.2	657.6	3,916.7	3,789.5	127.23	30.785	
19,600.0	12,550.0	15,803.0	8,744.7	123.0	120.1	-13.68	-6,876.2	658.2	3,916.3	3,787.4	128.88	30.388	
19,700.0	12,550.0	15,903.0	8,745.1	124.6	121.7	-13.68	-6,976.2	658.8	3,915.9	3,785.4	130.52	30.002	
19,800.0	12,550.0	16,003.0	8,745.5	126.1	123.3	-13.68	-7,076.2	659.5	3,915.5	3,783.4	132.17	29.624	
19,900.0	12,550.0	16,097.0	8,745.9	127.7	124.8	-13.68	-7,176.2	660.1	3,915.1	3,781.3	133.77	29.267	
20,000.0	12,550.0	16,197.0	8,746.4	129.2	126.4	-13.68	-7,276.2	660.7	3,914.7	3,779.3	135.43	28.907	
20,100.0	12,550.0	16,303.0	8,746.8	130.8	128.1	-13.68	-7,376.2	661.3	3,914.3	3,777.2	137.13	28.545	
20,200.0	12,550.0	16,403.0	8,747.2	132.3	129.7	-13.68	-7,476.2	662.0	3,913.9	3,775.1	138.79	28.201	
20,300.0	12,550.0	16,503.0	8,747.6	133.9	131.3	-13.68	-7,576.2	662.6	3,913.5	3,773.1	140.44	27.866	
20,400.0	12,550.0	16,603.0	8,748.0	135.5	132.9	-13.69	-7,676.2	663.2	3,913.1	3,771.0	142.10	27.538	
20,500.0	12,550.0	16,697.0	8,748.4	137.0	134.4	-13.69	-7,776.2	663.9	3,912.7	3,769.0	143.71	27.226	
20,600.0	12,550.0	16,803.0	8,748.8	138.6	136.1	-13.69	-7,876.2	664.5	3,912.3	3,766.9	145.42	26.903	
20,700.0	12,550.0	16,903.0	8,749.2	140.1	137.7	-13.69	-7,976.2	665.1	3,911.9	3,764.8	147.09	26.596	
20,800.0	12,550.0	17,003.0	8,749.6	141.7	139.3	-13.69	-8,076.2	665.7	3,911.5	3,762.8	148.75	26.296	
20,900.0	12,550.0	17,103.0	8,750.0	143.3	140.9	-13.69	-8,176.2	666.4	3,911.1	3,760.7	150.41	26.002	
21,000.0	12,550.0	17,203.0	8,750.4	144.9	142.5	-13.69	-8,276.2	667.0	3,910.7	3,758.6	152.08	25.715	
21,100.0	12,550.0	17,297.0	8,750.8	146.4	144.0	-13.69	-8,376.1	667.6	3,910.3	3,756.6	153.70	25.442	
21,200.0	12,550.0	17,403.0	8,751.3	148.0	145.7	-13.69	-8,476.1	668.3	3,909.9	3,754.5	155.42	25.158	
21,300.0	12,550.0	17,503.0	8,751.7	149.6	147.3	-13.70	-8,576.1	668.9	3,909.5	3,752.4	157.09	24.888	
21,400.0	12,550.0	17,603.0	8,752.1	151.2	149.0	-13.70	-8,676.1	669.5	3,909.1	3,750.4	158.76	24.623	
21,500.0	12,550.0	17,703.0	8,752.5	152.7	150.6	-13.70	-8,776.1	670.2	3,908.7	3,748.3	160.43	24.364	
21,600.0	12,550.0	17,803.0	8,752.9	154.3	152.2	-13.70	-8,876.1	670.8	3,908.3	3,746.2	162.10	24.110	
21,700.0	12,550.0	17,897.0	8,753.3	155.9	153.7	-13.70	-8,976.1	671.4	3,907.9	3,744.2	163.72	23.869	
21,800.0	12,550.0	18,003.0	8,753.7	157.5	155.4	-13.70	-9,076.1	672.0	3,907.5	3,742.1	165.45	23.618	
21,900.0	12,550.0	18,103.0	8,754.1	159.1	157.0	-13.70	-9,176.1	672.7	3,907.1	3,740.0	167.12	23.378	
22,000.0	12,550.0	18,203.0	8,754.5	160.7	158.7	-13.70	-9,276.1	673.3	3,906.7	3,737.9	168.80	23.144	
22,100.0	12,550.0	18,303.0	8,754.9	162.2	160.3	-13.71	-9,376.1	673.9	3,906.3	3,735.8	170.48	22.914	
22,200.0	12,550.0	18,403.0	8,755.3	163.8	161.9	-13.71	-9,476.1	674.6	3,905.9	3,733.8	172.16	22.688	
22,300.0	12,550.0	18,503.0	8,755.7	165.4	163.5	-13.71	-9,576.1	675.2	3,905.5	3,731.7	173.84	22.467	
22,400.0	12,550.0	18,603.0	8,756.2	167.0	165.1	-13.71	-9,676.1	675.8	3,905.1	3,729.6	175.52	22.250	
22,500.0	12,550.0	18,703.0	8,756.6	168.6	166.8	-13.71	-9,776.1	676.4	3,904.7	3,727.5	177.20	22.036	
22,600.0	12,550.0	18,803.0	8,757.0	170.2	168.4	-13.71	-9,876.1	677.1	3,904.3	3,725.5	178.88	21.827	
22,700.0	12,550.0	18,903.0	8,757.4	171.8	170.0	-13.71	-9,976.1	677.7	3,903.9	3,723.4	180.56	21.621	
22,727.5	12,550.0	18,924.5	8,757.5	172.2	170.3	-13.71	-10,003.6	677.9	3,903.8	3,722.8	180.97	21.572	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #113H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	0.0	0.0	0.0	0.0	-90.48	-0.5	-60.0	60.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.48	-0.5	-60.0	60.0	59.7	0.26	234.050	
200.0	200.0	200.0	200.0	0.5	0.5	-90.48	-0.5	-60.0	60.0	59.0	0.97	61.638	
300.0	300.0	300.0	300.0	0.8	0.8	-90.48	-0.5	-60.0	60.0	58.3	1.69	35.492	
400.0	400.0	400.0	400.0	1.2	1.2	-90.48	-0.5	-60.0	60.0	57.6	2.41	24.921	
500.0	500.0	500.0	500.0	1.6	1.6	-90.48	-0.5	-60.0	60.0	56.9	3.12	19.202	
600.0	600.0	600.0	600.0	1.9	1.9	-90.48	-0.5	-60.0	60.0	56.1	3.84	15.618	
700.0	700.0	700.0	700.0	2.3	2.3	-90.48	-0.5	-60.0	60.0	55.4	4.56	13.161	
800.0	800.0	800.0	800.0	2.6	2.6	-90.48	-0.5	-60.0	60.0	54.7	5.27	11.372	
900.0	900.0	900.0	900.0	3.0	3.0	-90.48	-0.5	-60.0	60.0	54.0	5.99	10.012	
1,002.0	1,002.0	1,002.0	1,002.0	3.4	3.4	-90.48	-0.5	-60.0	60.0	53.3	6.72	8.923	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-52.08	-0.5	-60.0	59.5	52.0	7.42	8.011	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-54.10	-0.5	-60.0	57.9	49.8	8.14	7.118	
1,300.0	1,299.9	1,300.1	1,299.9	4.4	4.4	-57.74	-0.5	-60.0	55.5	46.6	8.85	6.269	
1,400.0	1,399.7	1,400.3	1,399.7	4.8	4.8	-63.37	-0.5	-60.0	52.5	42.9	9.57	5.487	
1,500.0	1,499.4	1,500.6	1,499.4	5.1	5.1	-71.49	-0.5	-60.0	49.5	39.2	10.29	4.810	
1,600.0	1,598.9	1,601.1	1,598.9	5.5	5.5	-82.49	-0.5	-60.0	47.3	36.3	11.02	4.296	
1,656.9	1,655.5	1,655.5	1,655.5	5.7	5.7	-90.00	-0.5	-60.0	46.9	35.5	11.42	4.107	CC
1,700.0	1,698.3	1,701.7	1,698.3	5.9	5.9	-96.12	-0.5	-60.0	47.2	35.4	11.75	4.016	ES, SF
1,800.0	1,797.4	1,802.6	1,797.4	6.3	6.2	-110.90	-0.5	-60.0	50.3	37.8	12.49	4.027	
1,900.0	1,896.3	1,903.7	1,896.3	6.6	6.6	-124.66	-0.5	-60.0	57.3	44.0	13.22	4.331	
2,000.0	1,995.0	2,005.0	1,995.0	7.0	7.0	-135.99	-0.5	-60.0	68.1	54.1	13.95	4.879	
2,100.0	2,093.3	2,106.7	2,093.3	7.4	7.3	-144.70	-0.5	-60.0	82.2	67.5	14.67	5.601	
2,202.0	2,193.2	2,206.8	2,193.2	7.9	7.7	-151.36	-0.5	-60.0	99.6	84.2	15.40	6.465	
2,300.0	2,289.1	2,289.1	2,289.1	8.3	8.0	-156.09	-0.5	-60.0	117.9	101.9	16.05	7.349	
2,400.0	2,386.9	2,386.9	2,386.9	8.7	8.3	-159.60	-0.5	-60.0	137.2	120.5	16.76	8.190	
2,500.0	2,484.7	2,484.7	2,484.7	9.2	8.7	-162.24	-0.5	-60.0	156.9	139.5	17.47	8.985	
2,600.0	2,582.5	2,582.5	2,582.5	9.6	9.0	-164.30	-0.5	-60.0	176.9	158.7	18.18	9.729	
2,700.0	2,680.4	2,680.4	2,680.4	10.0	9.4	-165.93	-0.5	-60.0	197.0	178.1	18.90	10.426	
2,800.0	2,778.2	2,778.2	2,778.2	10.5	9.7	-167.26	-0.5	-60.0	217.3	197.7	19.61	11.078	
2,900.0	2,876.0	2,876.0	2,876.0	11.0	10.1	-168.37	-0.5	-60.0	237.6	217.3	20.33	11.688	
3,000.0	2,973.8	2,973.8	2,973.8	11.4	10.4	-169.30	-0.5	-60.0	258.0	237.0	21.05	12.259	
3,100.0	3,071.6	3,071.6	3,071.6	11.9	10.8	-170.09	-0.5	-60.0	278.5	256.7	21.77	12.795	
3,200.0	3,169.4	3,169.4	3,169.4	12.3	11.1	-170.78	-0.5	-60.0	299.0	276.5	22.49	13.297	
3,300.0	3,267.3	3,267.3	3,267.3	12.8	11.5	-171.37	-0.5	-60.0	319.6	296.4	23.21	13.770	
3,400.0	3,365.1	3,365.1	3,365.1	13.3	11.8	-171.90	-0.5	-60.0	340.1	316.2	23.93	14.215	
3,500.0	3,462.9	3,462.9	3,462.9	13.7	12.2	-172.36	-0.5	-60.0	360.7	336.1	24.65	14.635	
3,579.9	3,541.0	3,541.0	3,541.0	14.1	12.5	-172.70	-0.5	-60.0	377.2	352.0	25.23	14.953	
3,600.0	3,560.7	3,560.7	3,560.7	14.2	12.5	-172.79	-0.5	-60.0	381.3	355.9	25.37	15.029	
3,700.0	3,658.9	3,658.9	3,658.9	14.6	12.9	-173.16	-0.5	-60.0	400.2	374.1	26.09	15.336	
3,800.0	3,757.5	3,757.5	3,757.5	15.1	13.2	-173.46	-0.5	-60.0	416.5	389.7	26.82	15.531	
3,900.0	3,856.6	3,856.6	3,856.6	15.5	13.6	-173.69	-0.5	-60.0	430.2	402.7	27.54	15.624	
4,000.0	3,955.9	3,955.9	3,955.9	15.9	14.0	-173.87	-0.5	-60.0	441.4	413.1	28.26	15.621	
4,100.0	4,055.6	4,055.6	4,055.6	16.3	14.3	-174.00	-0.5	-60.0	450.0	421.0	28.97	15.531	
4,200.0	4,155.4	4,155.4	4,155.4	16.6	14.7	-174.09	-0.5	-60.0	455.9	426.3	29.69	15.359	
4,300.0	4,255.3	4,255.3	4,255.3	17.0	15.0	-174.14	-0.5	-60.0	459.3	428.9	30.40	15.111	
4,379.9	4,335.2	4,335.2	4,335.2	17.2	15.3	146.82	-0.5	-60.0	460.2	429.2	30.96	14.863	
4,400.0	4,355.3	4,355.3	4,355.3	17.3	15.4	146.82	-0.5	-60.0	460.2	429.1	31.10	14.795	
4,500.0	4,455.3	4,455.3	4,455.3	17.6	15.7	146.82	-0.5	-60.0	460.2	428.4	31.80	14.468	
4,600.0	4,555.3	4,555.3	4,555.3	17.9	16.1	146.82	-0.5	-60.0	460.2	427.7	32.51	14.155	
4,700.0	4,655.3	4,655.3	4,655.3	18.2	16.5	146.82	-0.5	-60.0	460.2	426.9	33.21	13.855	
4,800.0	4,755.3	4,755.3	4,755.3	18.6	16.8	146.82	-0.5	-60.0	460.2	426.2	33.92	13.567	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #113H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,855.3	4,855.3	18.9	17.2	146.82	-0.5	-60.0	460.2	425.5	34.62	13.290	
5,000.0	4,955.3	4,955.3	4,955.3	19.2	17.5	146.82	-0.5	-60.0	460.2	424.8	35.33	13.025	
5,100.0	5,055.3	5,055.3	5,055.3	19.5	17.9	146.82	-0.5	-60.0	460.2	424.1	36.04	12.769	
5,200.0	5,155.3	5,155.3	5,155.3	19.9	18.2	146.82	-0.5	-60.0	460.2	423.4	36.74	12.524	
5,300.0	5,255.3	5,255.3	5,255.3	20.2	18.6	146.82	-0.5	-60.0	460.2	422.7	37.45	12.287	
5,400.0	5,355.3	5,355.3	5,355.3	20.5	19.0	146.82	-0.5	-60.0	460.2	422.0	38.16	12.060	
5,500.0	5,455.3	5,455.3	5,455.3	20.8	19.3	146.82	-0.5	-60.0	460.2	421.3	38.87	11.840	
5,600.0	5,555.3	5,555.3	5,555.3	21.2	19.7	146.82	-0.5	-60.0	460.2	420.6	39.57	11.628	
5,700.0	5,655.3	5,655.3	5,655.3	21.5	20.0	146.82	-0.5	-60.0	460.2	419.9	40.28	11.424	
5,800.0	5,755.3	5,757.5	5,757.5	21.8	20.4	146.80	-0.4	-60.0	460.1	419.1	41.01	11.220	
5,900.0	5,855.3	5,863.2	5,863.2	22.2	20.8	146.64	1.3	-59.5	459.0	417.2	41.75	10.993	
6,000.0	5,955.3	5,968.8	5,968.7	22.5	21.2	146.30	4.9	-58.6	456.6	414.2	42.49	10.748	
6,100.0	6,055.3	6,074.2	6,074.0	22.8	21.5	145.77	10.3	-57.2	453.1	409.9	43.21	10.486	
6,200.0	6,155.3	6,179.4	6,178.9	23.2	21.9	145.05	17.6	-55.3	448.4	404.5	43.93	10.207	
6,300.0	6,255.3	6,284.2	6,283.3	23.5	22.3	144.12	26.7	-53.0	442.6	398.0	44.65	9.914	
6,400.0	6,355.3	6,388.7	6,387.2	23.9	22.7	142.98	37.6	-50.2	435.8	390.5	45.35	9.609	
6,500.0	6,455.3	6,492.7	6,490.4	24.2	23.0	141.60	50.3	-46.9	428.0	382.0	46.06	9.293	
6,600.0	6,555.3	6,596.3	6,592.8	24.5	23.4	139.97	64.7	-43.2	419.5	372.7	46.76	8.970	
6,700.0	6,655.3	6,699.2	6,694.4	24.9	23.8	138.07	80.8	-39.0	410.2	362.7	47.47	8.641	
6,800.0	6,755.3	6,801.6	6,792.1	25.2	24.1	136.01	97.5	-34.7	400.8	352.6	48.20	8.315	
6,900.0	6,855.3	6,903.1	6,889.1	25.5	24.5	133.87	114.0	-30.4	391.9	342.9	48.94	8.007	
7,000.0	6,955.3	7,004.6	6,986.1	25.9	24.9	131.64	130.6	-26.1	383.5	333.9	49.68	7.720	
7,100.0	7,055.3	7,106.1	7,083.1	26.2	25.3	129.31	147.2	-21.9	375.8	325.4	50.43	7.452	
7,200.0	7,155.3	7,207.7	7,180.0	26.6	25.7	126.90	163.7	-17.6	368.8	317.6	51.19	7.205	
7,300.0	7,255.3	7,309.2	7,277.0	26.9	26.0	124.39	180.3	-13.3	362.4	310.5	51.95	6.977	
7,400.0	7,355.3	7,389.3	7,374.0	27.2	26.3	121.81	196.8	-9.0	356.8	304.2	52.63	6.779	
7,500.0	7,455.3	7,487.8	7,471.0	27.6	26.7	119.14	213.4	-4.8	351.9	298.6	53.39	6.592	
7,600.0	7,555.3	7,586.3	7,568.0	27.9	27.1	116.42	229.9	-0.5	347.9	293.7	54.15	6.425	
7,700.0	7,655.3	7,684.7	7,665.0	28.3	27.5	113.63	246.5	3.8	344.7	289.7	54.91	6.276	
7,800.0	7,755.3	7,783.2	7,762.0	28.6	27.9	110.81	263.1	8.1	342.3	286.6	55.68	6.147	
7,900.0	7,855.3	7,881.7	7,858.9	29.0	28.2	107.95	279.6	12.3	340.8	284.3	56.45	6.037	
8,000.0	7,955.3	7,980.2	7,955.9	29.3	28.6	105.07	296.2	16.6	340.2	282.9	57.22	5.945	
8,020.6	7,975.9	8,000.5	7,975.9	29.4	28.7	104.48	299.6	17.5	340.1	282.8	57.37	5.928	
8,100.0	8,055.3	8,078.7	8,052.9	29.7	29.0	102.19	312.7	20.9	340.4	282.4	57.98	5.871	
8,200.0	8,155.3	8,177.4	8,150.2	30.0	29.4	99.34	329.2	25.1	341.5	282.8	58.75	5.813	
8,300.0	8,255.3	8,277.3	8,248.9	30.3	29.8	96.82	343.9	28.9	343.3	283.7	59.52	5.767	
8,400.0	8,355.3	8,377.9	8,348.7	30.7	30.2	94.74	356.1	32.1	345.2	284.9	60.28	5.726	
8,500.0	8,455.3	8,479.1	8,449.4	31.0	30.5	93.10	365.9	34.6	347.0	286.0	61.04	5.685	
8,600.0	8,555.3	8,580.7	8,550.8	31.4	30.9	91.90	373.0	36.5	348.5	286.7	61.79	5.640	
8,700.0	8,655.3	8,682.7	8,652.6	31.7	31.3	91.15	377.6	37.6	349.6	287.0	62.53	5.590	
8,800.0	8,755.3	8,784.9	8,754.8	32.1	31.7	90.83	379.6	38.1	350.0	286.8	63.25	5.534	
8,900.0	8,855.3	8,890.6	8,860.2	32.4	32.0	91.76	373.9	37.4	349.5	285.5	63.93	5.466	
9,000.0	8,955.3	8,992.2	8,959.0	32.8	32.3	95.56	350.9	34.4	347.9	283.4	64.50	5.394	
9,034.4	8,989.7	9,024.9	8,989.7	32.9	32.3	97.40	339.8	33.0	347.7	283.1	64.66	5.378	
9,100.0	9,055.3	9,083.2	9,042.8	33.1	32.4	101.38	315.9	29.9	348.8	283.9	64.88	5.376	
9,200.0	9,155.3	9,161.4	9,109.5	33.5	32.6	107.96	275.6	24.6	356.7	292.0	64.70	5.513	
9,300.0	9,255.3	9,227.1	9,160.9	33.8	32.7	114.30	235.1	19.4	375.5	312.0	63.46	5.917	
9,400.0	9,355.3	9,281.6	9,199.7	34.2	32.8	119.87	197.2	14.5	407.2	346.2	61.02	6.673	
9,500.0	9,455.3	9,326.8	9,229.1	34.5	32.8	124.54	163.1	10.0	451.5	393.8	57.73	7.821	
9,600.0	9,555.3	9,364.5	9,251.4	34.9	32.9	128.36	133.0	6.1	506.7	452.6	54.12	9.363	
9,700.0	9,655.3	9,400.0	9,270.6	35.2	32.9	131.84	103.3	2.3	570.8	520.0	50.81	11.234	
9,800.0	9,755.3	9,422.9	9,281.9	35.5	33.0	134.01	83.6	-0.3	641.7	594.2	47.45	13.523	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #113H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
9,900.0	9,855.3	9,450.0	9,294.4	35.9	33.0	136.48	59.7	-3.4	717.9	673.0	44.88	15.994	
10,000.0	9,955.3	9,465.4	9,300.9	36.2	33.0	137.84	45.9	-5.2	798.1	755.8	42.36	18.842	
10,100.0	10,055.3	9,482.5	9,307.7	36.6	33.1	139.31	30.3	-7.2	881.6	841.2	40.40	21.823	
10,200.0	10,155.3	9,500.0	9,314.2	36.9	33.1	140.75	14.3	-9.3	967.5	928.7	38.85	24.905	
10,300.0	10,255.3	9,500.0	9,314.2	37.3	33.1	140.75	14.3	-9.3	1,055.6	1,018.5	37.08	28.470	
10,400.0	10,355.3	9,522.3	9,321.8	37.6	33.1	142.53	-6.6	-12.0	1,145.0	1,108.7	36.29	31.548	
10,500.0	10,455.3	9,532.8	9,325.0	38.0	33.1	143.33	-16.4	-13.3	1,235.9	1,200.5	35.38	34.934	
10,600.0	10,555.3	9,550.0	9,330.0	38.3	33.2	144.62	-32.8	-15.4	1,327.9	1,293.1	34.82	38.134	
10,700.0	10,655.3	9,550.0	9,330.0	38.7	33.2	144.62	-32.8	-15.4	1,420.7	1,386.7	34.01	41.771	
10,800.0	10,755.3	9,550.0	9,330.0	39.0	33.2	144.62	-32.8	-15.4	1,514.4	1,481.1	33.37	45.382	
10,900.0	10,855.3	9,550.0	9,330.0	39.4	33.2	144.62	-32.8	-15.4	1,608.9	1,576.0	32.87	48.949	
11,000.0	10,955.3	9,571.5	9,335.5	39.7	33.2	146.15	-53.4	-18.1	1,703.5	1,670.6	32.86	51.839	
11,100.0	11,055.3	9,577.4	9,336.9	40.1	33.2	146.56	-59.0	-18.8	1,798.8	1,766.2	32.64	55.112	
11,200.0	11,155.3	9,600.0	9,341.6	40.4	33.2	148.07	-81.0	-21.7	1,894.9	1,862.1	32.75	57.856	
11,300.0	11,255.3	9,600.0	9,341.6	40.8	33.2	148.07	-81.0	-21.7	1,990.8	1,958.2	32.56	61.144	
11,400.0	11,355.3	9,600.0	9,341.6	41.2	33.2	148.07	-81.0	-21.7	2,087.1	2,054.7	32.43	64.355	
11,500.0	11,455.3	9,600.0	9,341.6	41.5	33.2	148.07	-81.0	-21.7	2,183.7	2,151.4	32.36	67.485	
11,600.0	11,555.3	9,600.0	9,341.6	41.9	33.2	148.07	-81.0	-21.7	2,280.7	2,248.3	32.33	70.533	
11,700.0	11,655.3	9,600.0	9,341.6	42.2	33.2	148.07	-81.0	-21.7	2,377.9	2,345.5	32.35	73.500	
11,800.0	11,755.3	9,600.0	9,341.6	42.6	33.2	148.07	-81.0	-21.7	2,475.3	2,442.9	32.40	76.385	
11,900.0	11,855.3	9,600.0	9,341.6	42.9	33.2	148.07	-81.0	-21.7	2,572.9	2,540.4	32.49	79.190	
12,000.0	11,955.3	9,600.0	9,341.6	43.3	33.2	148.07	-81.0	-21.7	2,670.7	2,638.1	32.60	81.915	
12,021.7	11,977.0	9,600.0	9,341.6	43.3	33.2	148.07	-81.0	-21.7	2,691.9	2,659.3	32.63	82.497	
12,050.0	12,005.3	9,600.0	9,341.6	43.4	33.2	-25.88	-81.0	-21.7	2,719.5	2,686.8	32.66	83.262	
12,100.0	12,055.1	9,600.0	9,341.6	43.6	33.2	-19.30	-81.0	-21.7	2,767.5	2,734.8	32.70	84.641	
12,150.0	12,104.2	9,620.5	9,345.1	43.7	33.3	-14.97	-101.0	-24.3	2,813.8	2,780.9	32.88	85.571	
12,200.0	12,152.4	9,623.9	9,345.6	43.9	33.3	-12.43	-104.3	-24.7	2,858.9	2,826.0	32.89	86.912	
12,250.0	12,199.3	9,627.9	9,346.2	44.0	33.3	-10.65	-108.2	-25.2	2,902.2	2,869.3	32.89	88.236	
12,300.0	12,244.5	9,650.0	9,348.9	44.1	33.3	-9.19	-130.0	-28.0	2,943.8	2,910.8	33.01	89.174	
12,350.0	12,287.6	9,650.0	9,348.9	44.2	33.3	-8.26	-130.0	-28.0	2,982.5	2,949.6	32.94	90.536	
12,400.0	12,328.4	9,650.0	9,348.9	44.3	33.3	-7.53	-130.0	-28.0	3,018.8	2,985.9	32.87	91.841	
12,450.0	12,366.5	9,650.0	9,348.9	44.3	33.3	-6.96	-130.0	-28.0	3,052.4	3,019.6	32.80	93.069	
12,500.0	12,401.7	9,650.0	9,348.9	44.4	33.3	-6.50	-130.0	-28.0	3,083.2	3,050.5	32.73	94.200	
12,550.0	12,433.6	9,650.0	9,348.9	44.4	33.3	-6.13	-130.0	-28.0	3,111.0	3,078.3	32.67	95.213	
12,600.0	12,462.0	9,650.0	9,348.9	44.5	33.3	-5.84	-130.0	-28.0	3,135.7	3,103.0	32.63	96.088	
12,650.0	12,486.7	9,674.5	9,350.9	44.5	33.4	-5.52	-154.3	-31.2	3,156.5	3,123.8	32.71	96.494	
12,700.0	12,507.6	9,700.0	9,351.9	44.5	33.4	-5.26	-179.5	-34.5	3,174.6	3,141.8	32.80	96.801	
12,750.0	12,524.4	9,700.0	9,351.9	44.6	33.4	-5.13	-179.5	-34.5	3,188.6	3,155.8	32.80	97.223	
12,800.0	12,537.1	9,700.0	9,351.9	44.6	33.4	-5.03	-179.5	-34.5	3,199.1	3,166.3	32.83	97.442	
12,850.0	12,545.5	9,700.0	9,351.9	44.6	33.4	-4.97	-179.5	-34.5	3,206.2	3,173.3	32.90	97.447	
12,900.0	12,549.5	9,719.8	9,352.0	44.7	33.5	-4.90	-199.1	-36.9	3,209.5	3,176.4	33.04	97.151	
12,921.7	12,550.0	9,736.5	9,352.0	44.7	33.5	-4.86	-215.8	-38.8	3,209.7	3,176.6	33.11	96.934	
12,935.2	12,550.0	9,746.9	9,352.0	44.8	33.5	-4.84	-226.2	-39.8	3,209.6	3,176.4	33.16	96.789	
13,000.0	12,550.0	9,797.4	9,352.0	44.9	33.7	-4.78	-276.5	-42.9	3,209.2	3,175.8	33.42	96.032	
13,100.0	12,550.0	9,885.9	9,352.0	45.1	33.9	-4.76	-365.0	-43.3	3,209.1	3,175.2	33.91	94.646	
13,121.3	12,550.0	9,907.2	9,352.0	45.2	34.0	-4.76	-386.3	-43.1	3,209.1	3,175.1	34.03	94.312	
13,200.0	12,550.0	9,985.9	9,352.0	45.4	34.3	-4.76	-465.0	-42.6	3,209.1	3,174.6	34.49	93.055	
13,300.0	12,550.0	10,085.9	9,352.0	45.8	34.8	-4.76	-565.0	-42.0	3,209.1	3,174.0	35.13	91.352	
13,400.0	12,550.0	10,185.9	9,352.0	46.2	35.3	-4.76	-665.0	-41.4	3,209.1	3,173.2	35.83	89.560	
13,500.0	12,550.0	10,285.9	9,352.0	46.7	35.9	-4.76	-765.0	-40.7	3,209.1	3,172.5	36.59	87.702	
13,600.0	12,550.0	10,385.9	9,352.0	47.2	36.6	-4.76	-865.0	-40.1	3,209.1	3,171.7	37.40	85.799	
13,700.0	12,550.0	10,485.9	9,352.0	47.8	37.3	-4.76	-964.9	-39.5	3,209.1	3,170.8	38.26	83.871	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #113H - Wellbore #1 - BLM Plan #2

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
13,800.0	12,550.0	10,585.9	9,352.0	48.4	38.1	-4.76	-1,064.9	-38.8	3,209.1	3,169.9	39.17	81.934	
13,900.0	12,550.0	10,685.9	9,352.0	49.1	38.9	-4.76	-1,164.9	-38.2	3,209.1	3,169.0	40.11	80.001	
14,000.0	12,550.0	10,785.9	9,352.0	49.8	39.8	-4.76	-1,264.9	-37.6	3,209.1	3,168.0	41.10	78.084	
14,100.0	12,550.0	10,885.9	9,352.0	50.6	40.7	-4.76	-1,364.9	-36.9	3,209.1	3,167.0	42.12	76.192	
14,200.0	12,550.0	10,985.9	9,352.0	51.4	41.7	-4.76	-1,464.9	-36.3	3,209.1	3,165.9	43.17	74.332	
14,300.0	12,550.0	11,085.9	9,352.0	52.2	42.7	-4.76	-1,564.9	-35.7	3,209.1	3,164.8	44.26	72.511	
14,400.0	12,550.0	11,185.9	9,352.0	53.1	43.8	-4.76	-1,664.9	-35.0	3,209.1	3,163.7	45.37	70.732	
14,500.0	12,550.0	11,285.9	9,352.0	54.0	44.9	-4.76	-1,764.9	-34.4	3,209.1	3,162.6	46.51	68.999	
14,600.0	12,550.0	11,385.9	9,352.0	54.9	46.0	-4.76	-1,864.9	-33.8	3,209.1	3,161.4	47.67	67.315	
14,700.0	12,550.0	11,485.9	9,352.0	55.9	47.2	-4.76	-1,964.9	-33.1	3,209.1	3,160.2	48.86	65.679	
14,800.0	12,550.0	11,585.9	9,352.0	56.9	48.3	-4.76	-2,064.9	-32.5	3,209.1	3,159.0	50.07	64.095	
14,900.0	12,550.0	11,685.9	9,352.0	58.0	49.6	-4.76	-2,164.9	-31.9	3,209.1	3,157.8	51.30	62.561	
15,000.0	12,550.0	11,785.9	9,352.0	59.0	50.8	-4.76	-2,264.9	-31.2	3,209.1	3,156.5	52.54	61.077	
15,100.0	12,550.0	11,885.9	9,352.0	60.1	52.1	-4.76	-2,364.9	-30.6	3,209.1	3,155.3	53.81	59.642	
15,200.0	12,550.0	11,985.9	9,352.0	61.3	53.3	-4.76	-2,464.9	-30.0	3,209.1	3,154.0	55.08	58.257	
15,300.0	12,550.0	12,085.9	9,352.0	62.4	54.6	-4.76	-2,564.9	-29.3	3,209.1	3,152.7	56.38	56.919	
15,400.0	12,550.0	12,185.9	9,352.0	63.6	56.0	-4.76	-2,664.9	-28.7	3,209.1	3,151.4	57.69	55.628	
15,500.0	12,550.0	12,285.9	9,352.0	64.8	57.3	-4.76	-2,764.9	-28.1	3,209.1	3,150.1	59.01	54.382	
15,600.0	12,550.0	12,385.9	9,352.0	66.0	58.6	-4.76	-2,864.9	-27.4	3,209.1	3,148.7	60.34	53.180	
15,700.0	12,550.0	12,485.9	9,352.0	67.2	60.0	-4.76	-2,964.9	-26.8	3,209.1	3,147.4	61.69	52.020	
15,800.0	12,550.0	12,585.9	9,352.0	68.4	61.4	-4.76	-3,064.9	-26.1	3,209.1	3,146.0	63.05	50.901	
15,900.0	12,550.0	12,685.9	9,352.0	69.7	62.8	-4.76	-3,164.9	-25.5	3,209.1	3,144.6	64.41	49.821	
16,000.0	12,550.0	12,785.9	9,352.0	71.0	64.2	-4.76	-3,264.9	-24.9	3,209.1	3,143.3	65.79	48.779	
16,100.0	12,550.0	12,885.9	9,352.0	72.3	65.6	-4.76	-3,364.9	-24.2	3,209.1	3,141.9	67.17	47.773	
16,200.0	12,550.0	12,985.9	9,352.0	73.6	67.0	-4.76	-3,464.9	-23.6	3,209.1	3,140.5	68.57	46.802	
16,300.0	12,550.0	13,085.9	9,352.0	74.9	68.5	-4.76	-3,564.9	-23.0	3,209.1	3,139.1	69.97	45.865	
16,400.0	12,550.0	13,185.9	9,352.0	76.2	69.9	-4.76	-3,664.9	-22.3	3,209.1	3,137.7	71.38	44.959	
16,500.0	12,550.0	13,285.9	9,352.0	77.6	71.4	-4.76	-3,764.9	-21.7	3,209.1	3,136.3	72.79	44.084	
16,600.0	12,550.0	13,385.9	9,352.0	78.9	72.8	-4.76	-3,864.9	-21.1	3,209.1	3,134.8	74.22	43.239	
16,700.0	12,550.0	13,485.9	9,352.0	80.3	74.3	-4.76	-3,964.9	-20.4	3,209.0	3,133.4	75.65	42.422	
16,800.0	12,550.0	13,585.9	9,352.0	81.7	75.8	-4.76	-4,064.9	-19.8	3,209.0	3,132.0	77.08	41.632	
16,900.0	12,550.0	13,685.9	9,352.0	83.1	77.3	-4.76	-4,164.9	-19.2	3,209.0	3,130.5	78.52	40.868	
17,000.0	12,550.0	13,785.9	9,352.0	84.5	78.8	-4.76	-4,264.9	-18.5	3,209.0	3,129.1	79.97	40.129	
17,100.0	12,550.0	13,885.9	9,352.0	85.9	80.3	-4.76	-4,364.9	-17.9	3,209.0	3,127.6	81.42	39.414	
17,200.0	12,550.0	13,985.9	9,352.0	87.3	81.8	-4.76	-4,464.9	-17.3	3,209.0	3,126.2	82.88	38.721	
17,300.0	12,550.0	14,085.9	9,352.0	88.7	83.3	-4.75	-4,564.9	-16.6	3,209.0	3,124.7	84.34	38.050	
17,400.0	12,550.0	14,185.9	9,352.0	90.1	84.8	-4.75	-4,664.9	-16.0	3,209.0	3,123.2	85.80	37.400	
17,500.0	12,550.0	14,285.9	9,352.0	91.6	86.3	-4.75	-4,764.9	-15.4	3,209.0	3,121.8	87.27	36.770	
17,600.0	12,550.0	14,385.9	9,352.0	93.0	87.8	-4.75	-4,864.9	-14.7	3,209.0	3,120.3	88.75	36.160	
17,700.0	12,550.0	14,485.9	9,352.0	94.5	89.4	-4.75	-4,964.9	-14.1	3,209.0	3,118.8	90.22	35.568	
17,800.0	12,550.0	14,585.9	9,352.0	95.9	90.9	-4.75	-5,064.9	-13.5	3,209.0	3,117.3	91.70	34.993	
17,900.0	12,550.0	14,685.9	9,352.0	97.4	92.4	-4.75	-5,164.9	-12.8	3,209.0	3,115.9	93.19	34.436	
18,000.0	12,550.0	14,785.9	9,352.0	98.9	94.0	-4.75	-5,264.9	-12.2	3,209.0	3,114.4	94.68	33.895	
18,100.0	12,550.0	14,885.9	9,352.0	100.4	95.5	-4.75	-5,364.9	-11.6	3,209.0	3,112.9	96.17	33.369	
18,200.0	12,550.0	14,985.9	9,352.0	101.8	97.1	-4.75	-5,464.9	-10.9	3,209.0	3,111.4	97.66	32.859	
18,300.0	12,550.0	15,085.9	9,352.0	103.3	98.6	-4.75	-5,564.9	-10.3	3,209.0	3,109.9	99.16	32.363	
18,400.0	12,550.0	15,185.9	9,352.0	104.8	100.2	-4.75	-5,664.9	-9.7	3,209.0	3,108.4	100.66	31.881	
18,500.0	12,550.0	15,285.9	9,352.0	106.3	101.7	-4.75	-5,764.9	-9.0	3,209.0	3,106.9	102.16	31.412	
18,600.0	12,550.0	15,385.9	9,352.0	107.8	103.3	-4.75	-5,864.9	-8.4	3,209.0	3,105.4	103.66	30.956	
18,700.0	12,550.0	15,485.9	9,352.0	109.3	104.8	-4.75	-5,964.8	-7.8	3,209.0	3,103.9	105.17	30.513	
18,800.0	12,550.0	15,585.9	9,352.0	110.8	106.4	-4.75	-6,064.8	-7.1	3,209.0	3,102.4	106.68	30.081	
18,900.0	12,550.0	15,685.9	9,352.0	112.3	108.0	-4.75	-6,164.8	-6.5	3,209.0	3,100.8	108.19	29.661	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #113H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
19,000.0	12,550.0	15,785.9	9,352.0	113.9	109.5	-4.75	-6,264.8	-5.9	3,209.0	3,099.3	109.71	29.251	
19,100.0	12,550.0	15,885.9	9,352.0	115.4	111.1	-4.75	-6,364.8	-5.2	3,209.0	3,097.8	111.22	28.853	
19,200.0	12,550.0	15,985.9	9,352.0	116.9	112.7	-4.75	-6,464.8	-4.6	3,209.0	3,096.3	112.74	28.464	
19,300.0	12,550.0	16,085.9	9,352.0	118.4	114.3	-4.75	-6,564.8	-4.0	3,209.0	3,094.8	114.26	28.086	
19,400.0	12,550.0	16,185.9	9,352.0	120.0	115.8	-4.75	-6,664.8	-3.3	3,209.0	3,093.2	115.78	27.717	
19,500.0	12,550.0	16,285.9	9,352.0	121.5	117.4	-4.75	-6,764.8	-2.7	3,209.0	3,091.7	117.30	27.357	
19,600.0	12,550.0	16,385.9	9,352.0	123.0	119.0	-4.75	-6,864.8	-2.1	3,209.0	3,090.2	118.83	27.006	
19,700.0	12,550.0	16,485.9	9,352.0	124.6	120.6	-4.75	-6,964.8	-1.4	3,209.0	3,088.7	120.35	26.663	
19,800.0	12,550.0	16,585.9	9,352.0	126.1	122.2	-4.75	-7,064.8	-0.8	3,209.0	3,087.1	121.88	26.329	
19,900.0	12,550.0	16,685.9	9,352.0	127.7	123.8	-4.75	-7,164.8	-0.2	3,209.0	3,085.6	123.41	26.003	
20,000.0	12,550.0	16,785.9	9,352.0	129.2	125.4	-4.75	-7,264.8	0.5	3,209.0	3,084.1	124.94	25.684	
20,100.0	12,550.0	16,885.9	9,352.0	130.8	126.9	-4.75	-7,364.8	1.1	3,209.0	3,082.5	126.47	25.373	
20,200.0	12,550.0	16,985.9	9,352.0	132.3	128.5	-4.75	-7,464.8	1.8	3,209.0	3,081.0	128.01	25.069	
20,300.0	12,550.0	17,085.9	9,352.0	133.9	130.1	-4.75	-7,564.8	2.4	3,209.0	3,079.5	129.54	24.772	
20,400.0	12,550.0	17,185.9	9,352.0	135.5	131.7	-4.75	-7,664.8	3.0	3,209.0	3,077.9	131.08	24.482	
20,500.0	12,550.0	17,285.9	9,352.0	137.0	133.3	-4.75	-7,764.8	3.7	3,209.0	3,076.4	132.62	24.198	
20,600.0	12,550.0	17,385.9	9,352.0	138.6	134.9	-4.75	-7,864.8	4.3	3,209.0	3,074.9	134.15	23.920	
20,700.0	12,550.0	17,485.9	9,352.0	140.1	136.5	-4.75	-7,964.8	4.9	3,209.0	3,073.3	135.69	23.649	
20,800.0	12,550.0	17,585.9	9,352.0	141.7	138.1	-4.75	-8,064.8	5.6	3,209.0	3,071.8	137.23	23.383	
20,900.0	12,550.0	17,685.9	9,352.0	143.3	139.7	-4.75	-8,164.8	6.2	3,209.0	3,070.2	138.78	23.124	
21,000.0	12,550.0	17,785.9	9,352.0	144.9	141.3	-4.75	-8,264.8	6.8	3,209.0	3,068.7	140.32	22.869	
21,100.0	12,550.0	17,885.9	9,352.0	146.4	142.9	-4.75	-8,364.8	7.5	3,209.0	3,067.1	141.86	22.621	
21,200.0	12,550.0	17,985.9	9,352.0	148.0	144.5	-4.75	-8,464.8	8.1	3,209.0	3,065.6	143.41	22.377	
21,300.0	12,550.0	18,085.9	9,352.0	149.6	146.1	-4.75	-8,564.8	8.7	3,209.0	3,064.1	144.95	22.138	
21,400.0	12,550.0	18,185.9	9,352.0	151.2	147.7	-4.75	-8,664.8	9.4	3,209.0	3,062.5	146.50	21.905	
21,500.0	12,550.0	18,285.9	9,352.0	152.7	149.3	-4.75	-8,764.8	10.0	3,209.0	3,061.0	148.05	21.676	
21,600.0	12,550.0	18,385.9	9,352.0	154.3	150.9	-4.75	-8,864.8	10.6	3,209.0	3,059.4	149.59	21.451	
21,700.0	12,550.0	18,485.9	9,352.0	155.9	152.6	-4.75	-8,964.8	11.3	3,209.0	3,057.9	151.14	21.231	
21,800.0	12,550.0	18,585.9	9,352.0	157.5	154.2	-4.75	-9,064.8	11.9	3,209.0	3,056.3	152.69	21.016	
21,900.0	12,550.0	18,685.9	9,352.0	159.1	155.8	-4.75	-9,164.8	12.5	3,209.0	3,054.8	154.24	20.805	
22,000.0	12,550.0	18,785.9	9,352.0	160.7	157.4	-4.75	-9,264.8	13.2	3,209.0	3,053.2	155.80	20.597	
22,100.0	12,550.0	18,885.9	9,352.0	162.2	159.0	-4.75	-9,364.8	13.8	3,209.0	3,051.7	157.35	20.394	
22,200.0	12,550.0	18,985.9	9,352.0	163.8	160.6	-4.75	-9,464.8	14.4	3,209.0	3,050.1	158.90	20.195	
22,300.0	12,550.0	19,085.9	9,352.0	165.4	162.2	-4.75	-9,564.8	15.1	3,209.0	3,048.5	160.45	19.999	
22,400.0	12,550.0	19,185.9	9,352.0	167.0	163.8	-4.74	-9,664.8	15.7	3,209.0	3,047.0	162.01	19.808	
22,500.0	12,550.0	19,285.9	9,352.0	168.6	165.4	-4.74	-9,764.8	16.3	3,209.0	3,045.4	163.56	19.619	
22,600.0	12,550.0	19,385.9	9,352.0	170.2	167.1	-4.74	-9,864.8	17.0	3,209.0	3,043.9	165.12	19.435	
22,700.0	12,550.0	19,485.9	9,352.0	171.8	168.7	-4.74	-9,964.8	17.6	3,209.0	3,042.3	166.67	19.253	
22,727.5	12,550.0	19,513.4	9,352.0	172.2	169.1	-4.74	-9,992.3	17.8	3,209.0	3,041.9	167.10	19.204	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 239-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
0.0	0.0	0.0	0.0	0.0	0.0	-90.42	-1.0	-140.0	140.0				
100.0	100.0	100.6	100.6	0.1	0.2	-90.42	-1.0	-139.7	139.7	139.5	0.29	484.042	
200.0	200.0	201.2	201.2	0.5	0.3	-90.42	-1.0	-139.1	139.1	138.3	0.81	172.613	
300.0	300.0	301.8	301.8	0.8	0.6	-90.42	-1.0	-138.0	138.0	136.5	1.45	95.194	
400.0	400.0	402.3	402.3	1.2	1.0	-90.43	-1.0	-136.5	136.5	134.3	2.17	62.954	
500.0	500.0	503.2	503.2	1.6	1.3	-90.52	-1.2	-134.5	134.5	131.6	2.89	46.545	
600.0	600.0	604.3	604.2	1.9	1.7	-90.79	-1.8	-131.7	131.7	128.1	3.61	36.472	
700.0	700.0	706.1	705.9	2.3	2.1	-91.19	-2.7	-127.7	127.9	123.5	4.34	29.462	
800.0	800.0	807.8	807.4	2.6	2.4	-91.65	-3.5	-122.2	122.5	117.4	5.06	24.186	
900.0	900.0	906.7	906.2	3.0	2.8	-92.30	-4.7	-116.7	117.0	111.2	5.78	20.247	
1,002.0	1,002.0	1,008.2	1,007.6	3.4	3.2	-93.27	-6.4	-111.4	111.7	105.2	6.51	17.171	
1,100.0	1,100.0	1,106.0	1,105.3	3.7	3.5	-55.97	-8.5	-106.4	106.4	99.1	7.21	14.753	
1,200.0	1,200.0	1,205.2	1,204.2	4.1	3.9	-59.12	-11.4	-101.3	100.2	92.3	7.92	12.646	
1,300.0	1,299.9	1,303.6	1,302.5	4.4	4.3	-64.13	-15.3	-97.0	94.6	86.0	8.64	10.951	
1,400.0	1,399.7	1,401.9	1,400.6	4.8	4.6	-71.42	-20.8	-93.5	90.5	81.1	9.36	9.661	
1,500.0	1,499.4	1,500.1	1,498.3	5.1	5.0	-81.82	-28.7	-89.8	88.7	78.6	10.10	8.788	
1,501.2	1,500.5	1,501.2	1,499.5	5.1	5.0	-81.96	-28.8	-89.7	88.7	78.6	10.11	8.780	CC, ES
1,600.0	1,598.9	1,600.2	1,597.9	5.5	5.3	-94.44	-37.8	-84.9	90.0	79.2	10.85	8.297	
1,700.0	1,698.3	1,702.2	1,699.5	5.9	5.7	-106.90	-43.4	-78.3	92.2	80.6	11.61	7.941	
1,800.0	1,797.4	1,804.2	1,801.3	6.3	6.1	-118.24	-44.0	-71.5	94.5	82.2	12.34	7.660	
1,900.0	1,896.3	1,904.9	1,901.8	6.6	6.5	-128.35	-40.7	-65.6	97.8	84.8	13.05	7.496	SF
2,000.0	1,995.0	2,003.6	2,000.3	7.0	6.8	-137.51	-36.1	-60.7	103.8	90.0	13.75	7.544	
2,100.0	2,093.3	2,101.8	2,098.2	7.4	7.1	-146.03	-31.3	-55.6	113.4	98.9	14.45	7.847	
2,202.0	2,193.2	2,201.4	2,197.6	7.9	7.5	-153.47	-26.7	-50.6	127.2	112.1	15.16	8.393	
2,300.0	2,289.1	2,299.0	2,294.9	8.3	7.8	-159.45	-21.7	-46.0	142.4	126.6	15.84	8.990	
2,400.0	2,386.9	2,399.8	2,395.3	8.7	8.2	-164.90	-14.3	-40.6	157.5	140.9	16.54	9.519	
2,500.0	2,484.7	2,498.3	2,493.3	9.2	8.5	-169.68	-5.7	-34.7	172.6	155.4	17.25	10.008	
2,600.0	2,582.5	2,595.7	2,590.1	9.6	8.9	-173.59	2.8	-29.0	188.8	170.9	17.96	10.516	
2,700.0	2,680.4	2,693.4	2,687.3	10.0	9.2	-176.76	10.8	-23.5	206.0	187.3	18.67	11.030	
2,800.0	2,778.2	2,791.1	2,784.6	10.5	9.6	-179.28	18.5	-18.5	223.6	204.2	19.39	11.533	
2,900.0	2,876.0	2,888.0	2,881.0	11.0	9.9	178.31	26.5	-12.5	242.0	221.9	20.11	12.035	
3,000.0	2,973.8	2,985.7	2,978.2	11.4	10.3	176.17	34.7	-6.1	260.9	240.1	20.84	12.521	
3,100.0	3,071.6	3,083.2	3,075.1	11.9	10.7	174.47	42.3	-0.2	280.2	258.7	21.57	12.993	
3,200.0	3,169.4	3,180.5	3,172.0	12.3	11.0	173.07	49.5	5.6	299.9	277.6	22.30	13.446	
3,300.0	3,267.3	3,277.3	3,268.3	12.8	11.4	171.66	57.2	12.1	319.9	296.9	23.04	13.887	
3,400.0	3,365.1	3,374.3	3,364.7	13.3	11.7	170.32	65.2	19.2	340.4	316.6	23.78	14.317	
3,500.0	3,462.9	3,469.3	3,459.2	13.7	12.1	169.36	71.9	25.6	361.2	336.7	24.50	14.744	
3,579.9	3,541.0	3,545.7	3,535.3	14.1	12.4	168.77	76.3	30.8	378.8	353.7	25.08	15.101	
3,600.0	3,560.7	3,566.7	3,556.2	14.2	12.5	168.62	77.6	32.2	383.1	357.8	25.24	15.176	
3,700.0	3,658.9	3,666.5	3,655.6	14.6	12.8	167.78	84.8	39.1	402.4	376.4	26.00	15.475	
3,800.0	3,757.5	3,760.8	3,749.3	15.1	13.2	166.93	91.7	46.1	419.7	393.0	26.72	15.708	
3,900.0	3,856.6	3,860.8	3,848.9	15.5	13.6	166.13	97.9	53.7	435.4	407.9	27.48	15.846	
4,000.0	3,955.9	3,968.1	3,955.6	15.9	14.0	165.22	105.5	60.6	447.2	418.9	28.28	15.812	
4,100.0	4,055.6	4,071.1	4,058.1	16.3	14.4	164.22	114.2	66.4	455.1	426.1	29.05	15.668	
4,200.0	4,155.4	4,172.4	4,159.0	16.6	14.8	163.27	122.4	71.3	460.2	430.4	29.80	15.445	
4,300.0	4,255.3	4,269.5	4,255.6	17.0	15.1	162.23	130.4	76.1	463.0	432.5	30.52	15.171	
4,379.9	4,335.2	4,347.4	4,333.1	17.2	15.4	122.17	137.6	80.9	463.9	432.8	31.09	14.920	
4,400.0	4,355.3	4,367.1	4,352.6	17.3	15.5	121.90	139.4	82.1	464.0	432.8	31.24	14.854	
4,500.0	4,455.3	4,467.7	4,452.6	17.6	15.9	120.50	148.8	88.5	464.7	432.7	31.98	14.528	
4,600.0	4,555.3	4,567.9	4,552.1	17.9	16.3	119.12	158.2	94.6	465.3	432.6	32.73	14.218	
4,700.0	4,655.3	4,669.1	4,652.8	18.2	16.6	117.79	167.4	100.3	465.9	432.4	33.47	13.919	
4,800.0	4,755.3	4,764.1	4,747.3	18.6	17.0	116.62	175.3	105.7	467.1	432.9	34.17	13.669	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 239-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,857.9	4,840.6	18.9	17.4	115.45	182.9	111.9	469.6	434.7	34.86	13.470	
5,000.0	4,955.3	4,959.8	4,941.9	19.2	17.8	114.21	190.9	119.0	472.5	436.9	35.62	13.268	
5,100.0	5,055.3	5,061.0	5,042.6	19.5	18.1	113.08	198.3	125.3	475.3	439.0	36.36	13.073	
5,200.0	5,155.3	5,163.4	5,144.6	19.9	18.5	112.04	205.3	130.9	477.8	440.7	37.11	12.875	
5,300.0	5,255.3	5,261.7	5,242.5	20.2	18.9	111.01	212.6	136.0	479.9	442.1	37.83	12.687	
5,400.0	5,355.3	5,352.0	5,332.4	20.5	19.3	110.04	219.0	142.1	483.7	445.2	38.48	12.571	
5,500.0	5,455.3	5,447.0	5,426.9	20.8	19.6	109.06	225.1	149.7	489.1	450.0	39.17	12.489	
5,600.0	5,555.3	5,546.9	5,526.3	21.2	20.0	108.07	231.3	157.8	494.9	455.0	39.90	12.404	
5,700.0	5,655.3	5,646.0	5,624.7	21.5	20.4	107.02	238.2	166.3	501.0	460.4	40.63	12.332	
5,800.0	5,755.3	5,747.5	5,725.7	21.8	20.8	105.92	245.8	174.8	506.9	465.5	41.38	12.251	
5,900.0	5,855.3	5,849.9	5,827.4	22.2	21.2	104.86	253.3	183.0	512.7	470.6	42.14	12.168	
6,000.0	5,955.3	5,950.0	5,927.0	22.5	21.6	103.87	260.7	190.2	517.9	475.1	42.87	12.081	
6,100.0	6,055.3	6,047.5	6,023.8	22.8	22.0	102.77	269.1	198.0	523.7	480.1	43.59	12.016	
6,200.0	6,155.3	6,149.0	6,124.6	23.2	22.4	101.62	278.1	206.2	529.7	485.4	44.34	11.948	
6,300.0	6,255.3	6,251.2	6,226.1	23.5	22.8	100.53	286.9	213.7	535.3	490.2	45.09	11.872	
6,400.0	6,355.3	6,354.5	6,328.8	23.9	23.2	99.51	295.4	220.6	540.6	494.7	45.85	11.789	
6,500.0	6,455.3	6,458.1	6,431.9	24.2	23.6	98.55	303.7	226.7	545.1	498.5	46.61	11.696	
6,600.0	6,555.3	6,561.4	6,534.8	24.5	24.0	97.64	311.6	232.1	549.2	501.8	47.36	11.596	
6,700.0	6,655.3	6,654.0	6,626.9	24.9	24.3	96.77	319.5	237.2	553.6	505.5	48.03	11.525	
6,800.0	6,755.3	6,750.5	6,722.7	25.2	24.7	95.74	328.8	243.5	559.1	510.3	48.74	11.471	
6,900.0	6,855.3	6,853.7	6,825.3	25.5	25.1	94.69	338.6	250.1	564.6	515.2	49.49	11.408	
7,000.0	6,955.3	6,956.2	6,927.2	25.9	25.5	93.72	347.7	256.0	569.8	519.5	50.24	11.340	
7,100.0	7,055.3	7,057.8	7,028.3	26.2	25.9	92.87	355.9	261.4	574.6	523.6	50.98	11.271	
7,200.0	7,155.3	7,159.4	7,129.6	26.6	26.3	92.12	363.2	266.4	579.2	527.5	51.71	11.200	
7,300.0	7,255.3	7,263.1	7,232.9	26.9	26.7	91.44	370.0	270.9	583.4	530.9	52.45	11.122	
7,400.0	7,355.3	7,367.1	7,336.7	27.2	27.0	90.90	375.4	274.6	586.8	533.6	53.19	11.032	
7,500.0	7,455.3	7,468.8	7,438.2	27.6	27.4	90.45	379.9	277.7	589.8	535.9	53.91	10.942	
7,600.0	7,555.3	7,572.0	7,541.4	27.9	27.8	90.04	384.2	280.5	592.5	537.9	54.63	10.845	
7,700.0	7,655.3	7,674.7	7,644.0	28.3	28.1	89.86	386.1	282.6	594.6	539.3	55.35	10.743	
7,800.0	7,755.3	7,776.2	7,745.5	28.6	28.5	89.77	387.1	284.4	596.4	540.3	56.05	10.640	
7,900.0	7,855.3	7,877.0	7,846.2	29.0	28.8	89.69	387.8	286.0	597.9	541.2	56.75	10.536	
8,000.0	7,955.3	7,981.1	7,950.3	29.3	29.2	89.62	388.6	287.3	599.2	541.7	57.46	10.427	
8,100.0	8,055.3	8,079.6	8,048.9	29.7	29.5	89.58	389.0	288.2	600.1	541.9	58.16	10.318	
8,200.0	8,155.3	8,184.4	8,153.7	30.0	29.9	89.54	389.4	288.9	600.8	541.9	58.87	10.205	
8,300.0	8,255.3	8,287.2	8,256.4	30.3	30.2	89.54	389.4	288.9	600.8	541.3	59.56	10.088	
8,400.0	8,355.3	8,388.9	8,358.2	30.7	30.6	89.58	389.0	288.6	600.5	540.3	60.23	9.970	
8,500.0	8,455.3	8,489.6	8,458.8	31.0	30.9	89.61	388.7	288.0	599.9	539.0	60.90	9.851	
8,600.0	8,555.3	8,587.5	8,556.7	31.4	31.2	89.61	388.7	287.6	599.5	537.9	61.57	9.737	
8,700.0	8,655.3	8,687.0	8,656.2	31.7	31.5	89.57	389.1	287.5	599.4	537.1	62.25	9.628	
8,800.0	8,755.3	8,791.5	8,760.7	32.1	31.9	89.49	390.0	287.0	598.9	536.0	62.95	9.514	
8,900.0	8,855.3	8,897.6	8,866.8	32.4	32.2	89.41	390.8	285.5	597.5	533.9	63.64	9.389	
9,000.0	8,955.3	9,000.4	8,969.6	32.8	32.5	89.29	392.0	283.2	595.2	530.9	64.32	9.254	
9,100.0	9,055.3	9,101.2	9,070.3	33.1	32.9	89.21	392.7	280.7	592.8	527.8	65.00	9.119	
9,200.0	9,155.3	9,200.2	9,169.3	33.5	33.2	89.17	393.1	278.2	590.3	524.6	65.68	8.987	
9,300.0	9,255.3	9,290.4	9,259.5	33.8	33.5	89.25	392.3	276.6	588.5	522.1	66.34	8.870	
9,329.8	9,285.1	9,316.0	9,285.1	33.9	33.5	89.36	391.2	276.5	588.4	521.8	66.53	8.843	
9,400.0	9,355.3	9,383.3	9,352.2	34.2	33.8	89.75	387.2	276.8	588.7	521.7	67.00	8.787	
9,500.0	9,455.3	9,485.3	9,454.0	34.5	34.1	90.38	380.7	277.3	589.2	521.5	67.67	8.706	
9,600.0	9,555.3	9,599.5	9,567.4	34.9	34.4	91.64	367.8	276.2	588.4	520.1	68.34	8.610	
9,656.8	9,612.1	9,645.7	9,612.1	35.0	34.5	92.73	356.6	275.1	587.6	519.0	68.68	8.556	
9,700.0	9,655.3	9,675.5	9,640.3	35.2	34.6	93.68	346.8	274.9	588.2	519.3	68.89	8.538	
9,800.0	9,755.3	9,743.3	9,701.2	35.5	34.7	96.52	317.4	275.9	594.0	524.9	69.16	8.589	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 239-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
9,900.0	9,855.3	9,805.8	9,753.1	35.9	34.8	99.82	282.6	277.6	606.9	537.9	68.99	8.796	
10,000.0	9,955.3	9,868.6	9,800.8	36.2	34.9	103.58	241.8	279.3	627.5	559.1	68.39	9.175	
10,100.0	10,055.3	9,918.3	9,835.5	36.6	34.9	106.76	206.3	280.4	656.4	589.3	67.11	9.782	
10,200.0	10,155.3	9,956.6	9,860.0	36.9	35.0	109.30	176.8	281.4	694.5	629.3	65.17	10.656	
10,300.0	10,255.3	9,994.0	9,882.0	37.3	35.0	111.82	146.6	282.6	741.2	678.2	62.99	11.768	
10,400.0	10,355.3	10,025.0	9,898.9	37.6	35.0	113.90	120.7	283.7	795.4	734.8	60.58	13.129	
10,500.0	10,455.3	10,058.5	9,916.4	38.0	35.0	116.11	92.1	284.9	855.6	797.3	58.36	14.662	
10,600.0	10,555.3	10,089.0	9,931.5	38.3	35.0	118.08	65.7	286.1	921.1	864.8	56.23	16.381	
10,700.0	10,655.3	10,116.1	9,944.3	38.7	35.0	119.79	41.7	287.0	990.9	936.7	54.21	18.279	
10,800.0	10,755.3	10,140.5	9,955.1	39.0	35.0	121.31	19.9	287.8	1,064.4	1,012.0	52.36	20.329	
10,900.0	10,855.3	10,162.3	9,964.2	39.4	35.0	122.65	0.1	288.3	1,141.1	1,090.4	50.69	22.513	
11,000.0	10,955.3	10,185.0	9,973.2	39.7	35.1	124.02	-20.7	288.7	1,220.4	1,171.2	49.26	24.777	
11,100.0	11,055.3	10,185.0	9,973.2	40.1	35.1	124.02	-20.7	288.7	1,302.3	1,254.8	47.51	27.413	
11,200.0	11,155.3	10,217.1	9,985.1	40.4	35.2	125.90	-50.5	289.3	1,385.7	1,339.0	46.70	29.673	
11,300.0	11,255.3	10,232.9	9,990.7	40.8	35.2	126.79	-65.3	289.7	1,470.9	1,425.2	45.69	32.196	
11,400.0	11,355.3	10,247.6	9,995.7	41.2	35.2	127.61	-79.1	290.1	1,557.5	1,512.7	44.81	34.761	
11,500.0	11,455.3	10,279.0	10,005.8	41.5	35.3	129.29	-108.8	291.2	1,645.6	1,601.3	44.39	37.075	
11,600.0	11,555.3	10,279.0	10,005.8	41.9	35.3	129.29	-108.8	291.2	1,734.4	1,690.9	43.48	39.885	
11,700.0	11,655.3	10,279.0	10,005.8	42.2	35.3	129.29	-108.8	291.2	1,824.3	1,781.5	42.72	42.705	
11,800.0	11,755.3	10,303.8	10,013.3	42.6	35.4	130.57	-132.5	292.0	1,914.8	1,872.4	42.48	45.073	
11,900.0	11,855.3	10,318.1	10,017.5	42.9	35.5	131.29	-146.2	292.5	2,006.1	1,964.0	42.15	47.600	
12,000.0	11,955.3	10,331.7	10,021.3	43.3	35.5	131.96	-159.1	292.9	2,098.0	2,056.2	41.87	50.111	
12,021.7	11,977.0	10,334.5	10,022.1	43.3	35.5	132.10	-161.8	292.9	2,118.1	2,076.2	41.81	50.654	
12,050.0	12,005.3	10,338.5	10,023.2	43.4	35.5	-42.99	-165.7	293.0	2,144.0	2,102.3	41.74	51.361	
12,100.0	12,055.1	10,346.8	10,025.4	43.6	35.6	-36.20	-173.7	293.3	2,188.9	2,147.3	41.61	52.602	
12,150.0	12,104.2	10,374.0	10,032.5	43.7	35.7	-30.73	-199.9	293.9	2,232.5	2,190.7	41.72	53.512	
12,200.0	12,152.4	10,374.0	10,032.5	43.9	35.7	-27.13	-199.9	293.9	2,274.0	2,232.6	41.42	54.907	
12,250.0	12,199.3	10,386.7	10,035.8	44.0	35.7	-24.15	-212.2	294.1	2,313.6	2,272.3	41.27	56.057	
12,300.0	12,244.5	10,412.5	10,042.1	44.1	35.8	-21.70	-237.1	294.3	2,350.8	2,309.5	41.28	56.949	
12,350.0	12,287.6	10,440.5	10,048.9	44.2	35.9	-19.77	-264.3	294.3	2,385.3	2,344.0	41.29	57.773	
12,400.0	12,328.4	10,468.0	10,055.4	44.3	36.0	-18.25	-291.1	293.9	2,416.9	2,375.6	41.27	58.569	
12,450.0	12,366.5	10,468.0	10,055.4	44.3	36.0	-17.18	-291.1	293.9	2,445.6	2,404.7	40.90	59.790	
12,500.0	12,401.7	10,468.0	10,055.4	44.4	36.0	-16.30	-291.1	293.9	2,471.6	2,431.0	40.56	60.941	
12,550.0	12,433.6	10,501.7	10,062.7	44.4	36.2	-15.48	-324.0	293.3	2,493.8	2,453.2	40.59	61.442	
12,600.0	12,462.0	10,513.5	10,064.9	44.5	36.2	-14.89	-335.5	293.1	2,513.2	2,472.8	40.38	62.232	
12,650.0	12,486.7	10,525.5	10,067.0	44.5	36.3	-14.43	-347.4	292.9	2,529.3	2,489.1	40.20	62.916	
12,700.0	12,507.6	10,563.0	10,072.5	44.5	36.4	-14.04	-384.5	292.6	2,542.5	2,502.2	40.27	63.135	
12,750.0	12,524.4	10,563.0	10,072.5	44.6	36.4	-13.82	-384.5	292.6	2,551.4	2,511.4	40.02	63.759	
12,800.0	12,537.1	10,563.0	10,072.5	44.6	36.4	-13.69	-384.5	292.6	2,557.1	2,517.3	39.81	64.232	
12,850.0	12,545.5	10,563.0	10,072.5	44.6	36.4	-13.63	-384.5	292.6	2,559.6	2,519.9	39.66	64.542	
12,900.0	12,549.5	10,563.0	10,072.5	44.7	36.4	-13.65	-384.5	292.6	2,558.8	2,519.2	39.56	64.680	
12,921.7	12,550.0	10,597.6	10,076.2	44.7	36.6	-13.69	-418.9	292.2	2,556.6	2,516.9	39.74	64.332	
12,935.2	12,550.0	10,601.5	10,076.6	44.8	36.6	-13.67	-422.7	292.2	2,555.4	2,515.6	39.74	64.295	
13,000.0	12,550.0	10,620.1	10,078.0	44.9	36.7	-13.67	-441.3	291.9	2,550.3	2,510.5	39.80	64.082	
13,100.0	12,550.0	10,657.0	10,079.7	45.1	36.8	-13.65	-478.1	291.1	2,544.7	2,504.7	40.01	63.595	
13,200.0	12,550.0	10,696.5	10,080.6	45.4	37.0	-13.63	-517.6	290.1	2,541.6	2,501.2	40.36	62.977	
13,300.0	12,550.0	10,760.7	10,081.0	45.8	37.4	-13.60	-581.8	288.8	2,540.2	2,499.4	40.86	62.175	
13,371.6	12,550.0	10,813.7	10,081.0	46.1	37.6	-13.58	-634.8	288.3	2,539.9	2,498.7	41.28	61.536	
13,400.0	12,550.0	10,832.6	10,080.9	46.2	37.8	-13.57	-653.7	288.3	2,540.0	2,498.5	41.45	61.282	
13,500.0	12,550.0	10,897.0	10,080.5	46.7	38.1	-13.60	-718.0	289.8	2,541.0	2,498.9	42.11	60.336	
13,600.0	12,550.0	10,960.7	10,079.7	47.2	38.5	-13.67	-781.7	293.6	2,543.5	2,500.6	42.88	59.324	
13,700.0	12,550.0	11,042.5	10,078.3	47.8	39.1	-13.83	-863.0	301.8	2,547.3	2,503.6	43.76	58.207	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 239-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
13,800.0	12,550.0	11,242.5	10,078.9	48.4	40.7	-14.29	-1,061.8	324.1	2,550.0	2,504.8	45.11	56.532	
13,900.0	12,550.0	11,365.4	10,083.2	49.1	41.7	-14.60	-1,183.8	337.9	2,549.1	2,502.8	46.31	55.050	
14,000.0	12,550.0	11,513.2	10,088.0	49.8	43.1	-14.75	-1,331.2	344.7	2,546.8	2,499.2	47.57	53.538	
14,100.0	12,550.0	11,614.1	10,090.0	50.6	44.0	-14.71	-1,432.1	342.8	2,544.2	2,495.7	48.58	52.373	
14,200.0	12,550.0	11,731.1	10,092.8	51.4	45.2	-14.65	-1,549.0	340.1	2,541.1	2,491.5	49.68	51.147	
14,300.0	12,550.0	11,784.3	10,093.9	52.2	45.7	-14.61	-1,602.2	338.5	2,538.5	2,487.9	50.57	50.196	
14,370.2	12,550.0	11,814.8	10,093.9	52.8	46.0	-14.59	-1,632.7	338.0	2,537.9	2,486.7	51.21	49.561	
14,400.0	12,550.0	11,842.0	10,093.6	53.1	46.3	-14.58	-1,659.9	337.6	2,538.1	2,486.6	51.53	49.257	
14,500.0	12,550.0	11,920.6	10,092.5	54.0	47.1	-14.56	-1,738.5	337.5	2,539.2	2,486.6	52.60	48.269	
14,600.0	12,550.0	12,033.0	10,091.2	54.9	48.4	-14.52	-1,850.9	336.4	2,539.8	2,486.0	53.81	47.203	
14,700.0	12,550.0	12,141.5	10,090.2	55.9	49.6	-14.45	-1,959.3	334.4	2,540.1	2,485.1	55.01	46.173	
14,800.0	12,550.0	12,329.4	10,092.9	56.9	51.8	-14.57	-2,147.0	340.2	2,540.0	2,483.3	56.71	44.792	
14,900.0	12,550.0	12,441.4	10,096.2	58.0	53.1	-14.52	-2,259.0	337.8	2,536.5	2,478.5	58.01	43.725	
15,000.0	12,550.0	12,535.9	10,099.1	59.0	54.3	-14.45	-2,353.4	334.8	2,532.6	2,473.3	59.24	42.752	
15,100.0	12,550.0	12,604.0	10,100.3	60.1	55.1	-14.39	-2,421.4	331.9	2,529.6	2,469.2	60.36	41.906	
15,200.0	12,550.0	12,662.8	10,100.7	61.3	55.8	-14.34	-2,480.2	330.0	2,528.1	2,466.6	61.49	41.114	
15,236.7	12,550.0	12,684.5	10,100.7	61.7	56.1	-14.33	-2,501.9	329.7	2,528.0	2,466.0	61.92	40.827	
15,300.0	12,550.0	12,730.7	10,100.5	62.4	56.7	-14.33	-2,548.1	330.0	2,528.2	2,465.4	62.71	40.318	
15,400.0	12,550.0	12,889.0	10,099.9	63.6	58.7	-14.28	-2,706.3	328.8	2,528.5	2,464.2	64.28	39.337	
15,500.0	12,550.0	12,946.8	10,100.1	64.8	59.5	-14.23	-2,764.1	327.0	2,527.4	2,462.0	65.45	38.615	
15,503.2	12,550.0	12,948.5	10,100.1	64.8	59.5	-14.23	-2,765.8	327.0	2,527.4	2,462.0	65.49	38.593	
15,600.0	12,550.0	13,025.1	10,099.6	66.0	60.5	-14.25	-2,842.4	328.5	2,528.2	2,461.4	66.78	37.860	
15,700.0	12,550.0	13,188.9	10,098.9	67.2	62.7	-14.10	-3,006.0	323.1	2,527.6	2,459.3	68.35	36.983	
15,800.0	12,550.0	13,269.0	10,098.8	68.4	63.8	-14.00	-3,086.1	319.0	2,526.3	2,456.7	69.61	36.295	
15,900.0	12,550.0	13,359.0	10,098.9	69.7	65.0	-13.93	-3,176.0	316.3	2,525.4	2,454.5	70.94	35.597	
15,967.3	12,550.0	13,413.0	10,099.1	70.6	65.7	-13.92	-3,230.0	316.2	2,525.1	2,453.2	71.86	35.141	
16,000.0	12,550.0	13,434.4	10,099.0	71.0	66.0	-13.92	-3,251.4	316.4	2,525.1	2,452.9	72.28	34.933	
16,100.0	12,550.0	13,569.4	10,099.4	72.3	67.9	-13.94	-3,386.4	318.2	2,525.1	2,451.2	73.91	34.162	
16,200.0	12,550.0	13,654.6	10,100.2	73.6	69.1	-13.97	-3,471.6	319.5	2,524.4	2,449.1	75.34	33.506	
16,300.0	12,550.0	13,745.3	10,100.7	74.9	70.4	-14.00	-3,562.3	321.7	2,524.3	2,447.5	76.82	32.860	
16,344.6	12,550.0	13,802.2	10,100.8	75.5	71.2	-14.00	-3,619.1	322.0	2,524.2	2,446.6	77.54	32.554	
16,400.0	12,550.0	13,852.6	10,100.8	76.2	71.9	-13.97	-3,669.5	321.0	2,523.9	2,445.6	78.32	32.226	
16,416.2	12,550.0	13,861.9	10,100.8	76.4	72.0	-13.97	-3,678.8	320.9	2,523.8	2,445.3	78.53	32.140	
16,500.0	12,550.0	13,910.2	10,100.6	77.6	72.7	-13.98	-3,727.1	321.9	2,524.4	2,444.8	79.64	31.697	
16,600.0	12,550.0	14,091.6	10,101.5	78.9	75.4	-14.07	-3,908.4	326.7	2,524.6	2,443.0	81.59	30.942	
16,700.0	12,550.0	14,188.4	10,102.9	80.3	76.8	-14.03	-4,005.2	325.1	2,522.6	2,439.6	83.06	30.372	
16,800.0	12,550.0	14,290.0	10,104.5	81.7	78.3	-14.03	-4,106.8	325.3	2,521.0	2,436.4	84.59	29.802	
16,900.0	12,550.0	14,381.9	10,106.1	83.1	79.6	-14.02	-4,198.6	325.4	2,519.2	2,433.1	86.09	29.263	
17,000.0	12,550.0	14,472.4	10,107.3	84.5	80.9	-14.05	-4,289.2	326.7	2,518.1	2,430.5	87.61	28.741	
17,100.0	12,550.0	14,573.3	10,109.0	85.9	82.4	-14.11	-4,390.0	329.8	2,517.0	2,427.8	89.23	28.208	
17,200.0	12,550.0	14,696.8	10,111.0	87.3	84.3	-14.13	-4,513.4	330.8	2,515.6	2,424.7	90.91	27.672	
17,300.0	12,550.0	14,789.8	10,112.9	88.7	85.7	-14.15	-4,606.4	332.0	2,513.7	2,421.3	92.46	27.186	
17,400.0	12,550.0	14,883.9	10,114.7	90.1	87.1	-14.18	-4,700.5	333.5	2,512.1	2,418.0	94.04	26.713	
17,500.0	12,550.0	14,967.8	10,116.2	91.6	88.4	-14.23	-4,784.3	335.8	2,510.9	2,415.3	95.59	26.267	
17,600.0	12,550.0	15,085.5	10,118.3	93.0	90.1	-14.30	-4,901.9	339.3	2,509.8	2,412.4	97.33	25.785	
17,700.0	12,550.0	15,162.7	10,119.3	94.5	91.3	-14.33	-4,979.2	340.9	2,508.7	2,409.9	98.85	25.379	
17,793.3	12,550.0	15,239.4	10,119.9	95.8	92.5	-14.36	-5,055.9	342.7	2,508.4	2,408.1	100.30	25.010	
17,800.0	12,550.0	15,244.9	10,119.9	95.9	92.6	-14.36	-5,061.3	342.8	2,508.4	2,408.0	100.40	24.984	
17,900.0	12,550.0	15,368.1	10,121.0	97.4	94.5	-14.42	-5,184.5	345.8	2,508.0	2,405.9	102.17	24.549	
18,000.0	12,550.0	15,450.0	10,121.6	98.9	95.7	-14.43	-5,266.4	346.8	2,507.5	2,403.8	103.70	24.180	
18,017.4	12,550.0	15,463.5	10,121.6	99.1	95.9	-14.43	-5,279.9	346.9	2,507.5	2,403.6	103.96	24.119	
18,100.0	12,550.0	15,528.0	10,121.4	100.4	96.9	-14.44	-5,344.3	347.7	2,507.8	2,402.6	105.22	23.835	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 239-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
18,200.0	12,550.0	15,606.0	10,120.9	101.8	98.1	-14.47	-5,422.3	349.6	2,509.0	2,402.2	106.75	23.503	
18,300.0	12,550.0	15,688.0	10,119.8	103.3	99.4	-14.51	-5,504.3	352.5	2,511.0	2,402.6	108.33	23.178	
18,400.0	12,550.0	15,778.3	10,118.2	104.8	100.8	-14.57	-5,594.5	356.1	2,513.5	2,403.6	109.97	22.856	
18,500.0	12,550.0	15,882.0	10,116.2	106.3	102.4	-14.63	-5,698.1	360.1	2,516.2	2,404.6	111.69	22.528	
18,600.0	12,550.0	15,976.3	10,114.4	107.8	103.9	-14.68	-5,792.3	363.5	2,518.8	2,405.4	113.36	22.220	
18,700.0	12,550.0	16,065.2	10,111.4	109.3	105.2	-14.65	-5,881.2	363.4	2,521.8	2,407.0	114.88	21.952	
18,800.0	12,550.0	16,150.9	10,108.0	110.8	106.6	-14.59	-5,966.8	362.2	2,525.3	2,408.9	116.36	21.703	
18,900.0	12,550.0	16,236.2	10,103.9	112.3	107.9	-14.54	-6,051.9	361.5	2,529.5	2,411.6	117.83	21.466	
19,000.0	12,550.0	16,350.2	10,098.7	113.9	109.6	-14.48	-6,165.9	360.8	2,533.6	2,414.1	119.46	21.208	
19,100.0	12,550.0	16,449.3	10,094.5	115.4	111.2	-14.42	-6,264.9	359.7	2,537.3	2,416.3	121.00	20.969	
19,200.0	12,550.0	16,540.8	10,090.2	116.9	112.6	-14.36	-6,356.3	358.6	2,541.3	2,418.8	122.50	20.745	
19,300.0	12,550.0	16,634.6	10,085.9	118.4	114.1	-14.32	-6,450.0	358.6	2,545.6	2,421.5	124.05	20.521	
19,400.0	12,550.0	16,735.4	10,081.4	120.0	115.6	-14.31	-6,550.6	359.7	2,550.1	2,424.4	125.67	20.292	
19,500.0	12,550.0	16,834.3	10,076.9	121.5	117.2	-14.28	-6,649.4	360.1	2,554.4	2,427.1	127.26	20.072	
19,600.0	12,550.0	16,948.1	10,071.8	123.0	119.0	-14.25	-6,763.1	360.7	2,558.7	2,429.8	128.93	19.845	
19,700.0	12,550.0	17,045.4	10,067.7	124.6	120.5	-14.20	-6,860.3	360.2	2,562.6	2,432.1	130.49	19.638	
19,800.0	12,550.0	17,214.4	10,063.8	126.1	123.2	-14.14	-7,029.3	359.7	2,564.1	2,431.7	132.43	19.363	
19,900.0	12,550.0	17,356.3	10,061.7	127.7	125.4	-14.09	-7,171.2	358.6	2,565.4	2,431.3	134.19	19.118	
20,000.0	12,550.0	17,450.0	10,060.6	129.2	126.9	-13.97	-7,264.8	354.3	2,565.3	2,429.7	135.64	18.913	
20,100.0	12,550.0	17,578.1	10,059.9	130.8	128.8	-13.82	-7,392.7	348.2	2,564.5	2,427.4	137.17	18.695	
20,200.0	12,550.0	17,684.3	10,059.8	132.3	130.5	-13.69	-7,498.7	342.8	2,563.2	2,424.6	138.64	18.488	
20,300.0	12,550.0	17,776.4	10,059.9	133.9	131.9	-13.58	-7,590.8	338.3	2,561.9	2,421.8	140.08	18.288	
20,400.0	12,550.0	17,859.9	10,059.8	135.5	133.3	-13.52	-7,674.2	336.0	2,561.1	2,419.6	141.56	18.092	
20,500.0	12,550.0	17,952.0	10,059.5	137.0	134.7	-13.47	-7,766.3	334.6	2,560.9	2,417.8	143.10	17.896	
20,600.0	12,550.0	18,057.2	10,059.3	138.6	136.4	-13.43	-7,871.5	333.2	2,560.7	2,416.0	144.70	17.696	
20,700.0	12,550.0	18,156.9	10,059.2	140.1	138.0	-13.38	-7,971.1	331.8	2,560.3	2,414.0	146.27	17.503	
20,800.0	12,550.0	18,262.5	10,059.0	141.7	139.6	-13.32	-8,076.8	329.8	2,559.9	2,412.1	147.85	17.314	
20,900.0	12,550.0	18,360.8	10,059.1	143.3	141.2	-13.27	-8,175.0	328.3	2,559.3	2,409.9	149.41	17.129	
21,000.0	12,550.0	18,454.5	10,058.9	144.9	142.7	-13.23	-8,268.7	326.7	2,559.0	2,408.0	150.96	16.952	
21,100.0	12,550.0	18,552.8	10,058.7	146.4	144.2	-13.18	-8,367.0	325.5	2,558.8	2,406.3	152.53	16.776	
21,200.0	12,550.0	18,652.0	10,058.4	148.0	145.8	-13.14	-8,466.2	324.4	2,558.6	2,404.5	154.11	16.603	
21,300.0	12,550.0	18,753.7	10,058.1	149.6	147.4	-13.10	-8,567.9	323.1	2,558.5	2,402.8	155.69	16.433	
21,400.0	12,550.0	18,853.1	10,057.8	151.2	149.0	-13.05	-8,667.2	321.4	2,558.3	2,401.0	157.25	16.269	
21,500.0	12,550.0	18,964.5	10,057.5	152.7	150.8	-12.99	-8,778.7	319.3	2,557.9	2,399.1	158.85	16.103	
21,600.0	12,550.0	19,056.0	10,057.8	154.3	152.2	-12.94	-8,870.1	317.6	2,557.1	2,396.8	160.38	15.945	
21,638.1	12,550.0	19,086.7	10,057.8	154.9	152.7	-12.92	-8,900.9	317.1	2,557.0	2,396.0	160.94	15.887	
21,700.0	12,550.0	19,120.9	10,057.5	155.9	153.3	-12.91	-8,935.1	317.0	2,557.3	2,395.5	161.82	15.804	
21,800.0	12,550.0	19,198.2	10,056.1	157.5	154.5	-12.91	-9,012.3	317.8	2,559.1	2,395.7	163.34	15.667	
21,900.0	12,550.0	19,301.4	10,054.2	159.1	156.2	-12.91	-9,115.5	318.9	2,561.0	2,396.0	165.01	15.520	
22,000.0	12,550.0	19,404.3	10,052.5	160.7	157.8	-12.92	-9,218.3	320.2	2,562.8	2,396.1	166.69	15.374	
22,100.0	12,550.0	19,503.5	10,050.8	162.2	159.4	-12.92	-9,317.6	321.4	2,564.5	2,396.2	168.35	15.233	
22,200.0	12,550.0	19,596.4	10,049.1	163.8	160.9	-12.92	-9,410.4	322.4	2,566.4	2,396.4	169.96	15.100	
22,300.0	12,550.0	19,688.2	10,047.3	165.4	162.4	-12.93	-9,502.2	323.9	2,568.6	2,397.0	171.59	14.969	
22,400.0	12,550.0	19,824.1	10,045.1	167.0	164.6	-12.96	-9,638.1	326.5	2,570.5	2,397.0	173.50	14.816	
22,500.0	12,550.0	19,905.7	10,044.0	168.6	165.9	-12.97	-9,719.7	327.6	2,571.9	2,396.9	175.07	14.691	
22,600.0	12,550.0	19,994.6	10,042.5	170.2	167.3	-12.98	-9,808.6	329.1	2,573.8	2,397.1	176.69	14.567	
22,700.0	12,550.0	20,077.3	10,040.7	171.8	168.7	-13.00	-9,891.2	330.9	2,576.2	2,398.0	178.29	14.450	
22,727.5	12,550.0	20,103.1	10,040.1	172.2	169.1	-13.01	-9,917.0	331.6	2,577.0	2,398.3	178.75	14.417	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #133H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	0.0	0.0	0.0	0.0	-63.86	29.6	-60.2	67.1				
100.0	100.0	100.0	100.0	0.1	0.1	-63.86	29.6	-60.2	67.1	66.8	0.26	261.670	
200.0	200.0	200.0	200.0	0.5	0.5	-63.86	29.6	-60.2	67.1	66.1	0.97	68.911	
300.0	300.0	300.0	300.0	0.8	0.8	-63.86	29.6	-60.2	67.1	65.4	1.69	39.681	
400.0	400.0	400.0	400.0	1.2	1.2	-63.86	29.6	-60.2	67.1	64.7	2.41	27.862	
500.0	500.0	500.0	500.0	1.6	1.6	-63.86	29.6	-60.2	67.1	63.9	3.12	21.468	
600.0	600.0	600.0	600.0	1.9	1.9	-63.86	29.6	-60.2	67.1	63.2	3.84	17.461	
700.0	700.0	700.0	700.0	2.3	2.3	-63.86	29.6	-60.2	67.1	62.5	4.56	14.714	
800.0	800.0	800.0	800.0	2.6	2.6	-63.86	29.6	-60.2	67.1	61.8	5.27	12.715	
900.0	900.0	900.0	900.0	3.0	3.0	-63.86	29.6	-60.2	67.1	61.1	5.99	11.193	
1,002.0	1,002.0	1,002.0	1,002.0	3.4	3.4	-63.86	29.6	-60.2	67.1	60.3	6.72	9.976	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-25.13	29.6	-60.2	66.3	58.9	7.42	8.932	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-26.12	29.6	-60.2	64.0	55.8	8.14	7.862	
1,300.0	1,299.9	1,300.1	1,299.9	4.4	4.4	-27.96	29.6	-60.2	60.1	51.3	8.85	6.792	
1,400.0	1,399.7	1,400.3	1,399.7	4.8	4.8	-30.96	29.6	-60.2	54.8	45.3	9.57	5.732	
1,500.0	1,499.4	1,499.4	1,499.4	5.1	5.1	-35.76	29.6	-60.2	48.3	38.0	10.28	4.698	
1,600.0	1,598.9	1,599.4	1,599.4	5.5	5.5	-42.87	30.0	-59.5	40.3	29.3	10.99	3.664	
1,700.0	1,698.3	1,699.2	1,699.2	5.9	5.9	-54.11	31.5	-57.3	30.6	18.9	11.71	2.618	
1,800.0	1,797.4	1,798.6	1,798.5	6.3	6.2	-77.45	33.9	-53.8	21.0	8.5	12.44	1.687	
1,875.2	1,871.9	1,873.1	1,872.9	6.5	6.5	-112.46	36.4	-50.2	17.4	4.4	12.99	1.337	Level 3, CC, ES, SF
1,900.0	1,896.3	1,897.6	1,897.3	6.6	6.6	-126.14	37.3	-48.8	17.9	4.7	13.17	1.357	Level 3
2,000.0	1,995.0	1,996.0	1,995.3	7.0	6.9	-166.04	41.6	-42.5	28.4	14.6	13.85	2.054	
2,100.0	2,093.3	2,093.7	2,092.6	7.4	7.3	176.92	46.8	-34.8	46.7	32.1	14.54	3.209	
2,202.0	2,193.2	2,207.0	2,191.4	7.9	7.7	169.27	52.5	-26.5	68.9	53.6	15.31	4.501	
2,300.0	2,289.1	2,288.2	2,286.1	8.3	8.0	165.65	57.9	-18.5	91.7	75.7	15.96	5.745	
2,400.0	2,386.9	2,385.3	2,382.7	8.7	8.3	163.43	63.5	-10.4	115.1	98.5	16.68	6.903	
2,500.0	2,484.7	2,482.4	2,479.4	9.2	8.7	161.97	69.0	-2.2	138.7	121.3	17.40	7.970	
2,600.0	2,582.5	2,579.6	2,576.0	9.6	9.0	160.93	74.5	5.9	162.3	144.2	18.13	8.953	
2,700.0	2,680.4	2,676.7	2,672.6	10.0	9.4	160.15	80.1	14.0	186.0	167.1	18.86	9.860	
2,800.0	2,778.2	2,773.8	2,769.3	10.5	9.8	159.55	85.6	22.2	209.7	190.1	19.60	10.699	
2,900.0	2,876.0	2,871.0	2,865.9	11.0	10.1	159.07	91.2	30.3	233.4	213.0	20.33	11.477	
3,000.0	2,973.8	2,968.1	2,962.5	11.4	10.5	158.68	96.7	38.5	257.1	236.0	21.07	12.200	
3,100.0	3,071.6	3,065.2	3,059.2	11.9	10.9	158.36	102.2	46.6	280.8	259.0	21.81	12.872	
3,200.0	3,169.4	3,162.4	3,155.8	12.3	11.2	158.08	107.8	54.8	304.5	282.0	22.56	13.500	
3,300.0	3,267.3	3,259.5	3,252.4	12.8	11.6	157.85	113.3	62.9	328.2	304.9	23.30	14.088	
3,400.0	3,365.1	3,356.6	3,349.1	13.3	12.0	157.65	118.9	71.0	352.0	327.9	24.05	14.638	
3,500.0	3,462.9	3,453.8	3,445.7	13.7	12.4	157.47	124.4	79.2	375.7	350.9	24.79	15.154	
3,579.9	3,541.0	3,531.4	3,522.9	14.1	12.6	157.34	128.8	85.7	394.7	369.3	25.39	15.544	
3,600.0	3,560.7	3,550.9	3,542.4	14.2	12.7	157.34	129.9	87.3	399.4	373.9	25.54	15.638	
3,700.0	3,658.9	3,648.4	3,639.4	14.6	13.1	157.23	135.5	95.5	421.5	395.2	26.29	16.033	
3,800.0	3,757.5	3,746.4	3,736.9	15.1	13.5	157.00	141.1	103.7	441.3	414.2	27.04	16.320	
3,900.0	3,856.6	3,844.8	3,834.8	15.5	13.8	156.66	146.7	111.9	458.7	430.9	27.79	16.508	
4,000.0	3,955.9	3,943.6	3,933.0	15.9	14.2	156.20	152.3	120.2	473.8	445.2	28.53	16.605	
4,100.0	4,055.6	4,042.6	4,031.5	16.3	14.6	155.64	158.0	128.5	486.5	457.2	29.27	16.619	
4,200.0	4,155.4	4,141.9	4,130.3	16.6	15.0	154.97	163.6	136.8	496.9	466.9	30.01	16.558	
4,300.0	4,255.3	4,241.3	4,229.2	17.0	15.4	154.19	169.3	145.2	505.1	474.4	30.75	16.429	
4,379.9	4,335.2	4,320.8	4,308.2	17.2	15.7	114.44	173.8	151.8	510.1	478.7	31.33	16.281	
4,400.0	4,355.3	4,340.8	4,328.1	17.3	15.8	114.25	175.0	153.5	511.1	479.6	31.47	16.240	
4,500.0	4,455.3	4,440.2	4,427.1	17.6	16.1	113.30	180.7	161.8	516.5	484.3	32.20	16.042	
4,600.0	4,555.3	4,539.7	4,526.1	17.9	16.5	112.36	186.3	170.2	522.0	489.1	32.92	15.857	
4,700.0	4,655.3	4,639.2	4,625.0	18.2	16.9	111.44	192.0	178.5	527.7	494.1	33.65	15.684	
4,800.0	4,755.3	4,738.7	4,724.0	18.6	17.3	110.55	197.7	186.9	533.5	499.1	34.37	15.522	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #133H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,838.2	4,823.0	18.9	17.7	109.67	203.4	195.2	539.4	504.3	35.10	15.371	
5,000.0	4,955.3	4,937.7	4,921.9	19.2	18.1	108.81	209.0	203.5	545.5	509.7	35.82	15.229	
5,100.0	5,055.3	5,037.1	5,020.9	19.5	18.4	107.98	214.7	211.9	551.7	515.1	36.54	15.097	
5,200.0	5,155.3	5,136.6	5,119.9	19.9	18.8	107.16	220.4	220.2	558.0	520.7	37.27	14.972	
5,300.0	5,255.3	5,236.1	5,218.9	20.2	19.2	106.35	226.0	228.5	564.4	526.4	37.99	14.856	
5,400.0	5,355.3	5,335.6	5,317.8	20.5	19.6	105.57	231.7	236.9	570.9	532.2	38.71	14.747	
5,500.0	5,455.3	5,435.1	5,416.8	20.8	20.0	104.80	237.4	245.2	577.5	538.0	39.43	14.645	
5,600.0	5,555.3	5,534.6	5,515.8	21.2	20.4	104.05	243.1	253.6	584.2	544.0	40.15	14.549	
5,700.0	5,655.3	5,634.1	5,614.8	21.5	20.8	103.32	248.7	261.9	591.0	550.1	40.87	14.459	
5,800.0	5,755.3	5,733.5	5,713.7	21.8	21.1	102.61	254.4	270.2	597.9	556.3	41.59	14.375	
5,900.0	5,855.3	5,833.0	5,812.7	22.2	21.5	101.91	260.1	278.6	604.9	562.6	42.31	14.296	
6,000.0	5,955.3	5,932.5	5,911.7	22.5	21.9	101.23	265.8	286.9	612.0	569.0	43.03	14.221	
6,100.0	6,055.3	6,032.0	6,010.6	22.8	22.3	100.56	271.4	295.2	619.2	575.4	43.75	14.151	
6,200.0	6,155.3	6,131.5	6,109.6	23.2	22.7	99.91	277.1	303.6	626.4	581.9	44.47	14.086	
6,300.0	6,255.3	6,231.0	6,208.6	23.5	23.1	99.27	282.8	311.9	633.8	588.6	45.19	14.024	
6,400.0	6,355.3	6,330.4	6,307.6	23.9	23.5	98.65	288.5	320.3	641.2	595.3	45.91	13.966	
6,500.0	6,455.3	6,429.9	6,406.5	24.2	23.8	98.04	294.1	328.6	648.6	602.0	46.63	13.911	
6,600.0	6,555.3	6,529.4	6,505.5	24.5	24.2	97.45	299.8	336.9	656.2	608.9	47.35	13.860	
6,700.0	6,655.3	6,628.9	6,604.5	24.9	24.6	96.87	305.5	345.3	663.8	615.8	48.06	13.811	
6,800.0	6,755.3	6,728.4	6,703.5	25.2	25.0	96.30	311.2	353.6	671.5	622.7	48.78	13.766	
6,900.0	6,855.3	6,827.9	6,802.4	25.5	25.4	95.75	316.8	361.9	679.3	629.8	49.50	13.723	
7,000.0	6,955.3	6,927.4	6,901.4	25.9	25.8	95.20	322.5	370.3	687.1	636.9	50.21	13.683	
7,100.0	7,055.3	7,026.8	7,000.4	26.2	26.2	94.67	328.2	378.6	694.9	644.0	50.93	13.645	
7,200.0	7,155.3	7,126.3	7,099.3	26.6	26.6	94.16	333.8	387.0	702.9	651.2	51.65	13.609	
7,300.0	7,255.3	7,225.8	7,198.3	26.9	26.9	93.65	339.5	395.3	710.9	658.5	52.36	13.576	
7,400.0	7,355.3	7,325.3	7,297.3	27.2	27.3	93.15	345.2	403.6	718.9	665.8	53.08	13.544	
7,500.0	7,455.3	7,424.8	7,396.3	27.6	27.7	92.67	350.9	412.0	727.0	673.2	53.80	13.514	
7,600.0	7,555.3	7,524.3	7,495.2	27.9	28.1	92.20	356.5	420.3	735.2	680.6	54.51	13.486	
7,700.0	7,655.3	7,623.8	7,594.2	28.3	28.5	91.73	362.2	428.6	743.4	688.1	55.23	13.460	
7,800.0	7,755.3	7,723.2	7,693.2	28.6	28.9	91.28	367.9	437.0	751.6	695.7	55.94	13.435	
7,900.0	7,855.3	7,833.0	7,802.4	29.0	29.3	90.81	373.9	445.8	759.5	702.8	56.74	13.386	
8,000.0	7,955.3	7,952.3	7,921.4	29.3	29.7	90.46	378.5	452.6	765.2	707.6	57.58	13.289	
8,100.0	8,055.3	8,072.0	8,041.0	29.7	30.2	90.26	381.1	456.4	768.4	710.0	58.39	13.160	
8,200.0	8,155.3	8,186.3	8,155.3	30.0	30.6	90.22	381.6	457.2	769.0	709.9	59.13	13.006	
8,300.0	8,255.3	8,286.3	8,255.3	30.3	30.9	90.22	381.6	457.2	769.0	709.2	59.82	12.855	
8,400.0	8,355.3	8,386.3	8,355.3	30.7	31.2	90.22	381.6	457.2	769.0	708.5	60.52	12.708	
8,500.0	8,455.3	8,486.3	8,455.3	31.0	31.6	90.22	381.6	457.2	769.0	707.8	61.21	12.564	
8,600.0	8,555.3	8,586.3	8,555.3	31.4	31.9	90.22	381.6	457.2	769.0	707.1	61.90	12.423	
8,700.0	8,655.3	8,686.3	8,655.3	31.7	32.2	90.22	381.6	457.2	769.0	706.4	62.60	12.286	
8,800.0	8,755.3	8,786.3	8,755.3	32.1	32.6	90.22	381.6	457.2	769.0	705.7	63.29	12.151	
8,900.0	8,855.3	8,886.3	8,855.3	32.4	32.9	90.22	381.6	457.2	769.0	705.0	63.99	12.019	
9,000.0	8,955.3	8,986.3	8,955.3	32.8	33.3	90.22	381.6	457.2	769.0	704.4	64.68	11.889	
9,100.0	9,055.3	9,086.3	9,055.3	33.1	33.6	90.22	381.6	457.2	769.0	703.7	65.38	11.763	
9,200.0	9,155.3	9,186.3	9,155.3	33.5	33.9	90.22	381.6	457.2	769.0	703.0	66.07	11.639	
9,300.0	9,255.3	9,286.3	9,255.3	33.8	34.3	90.22	381.6	457.2	769.0	702.3	66.77	11.517	
9,400.0	9,355.3	9,386.3	9,355.3	34.2	34.6	90.22	381.6	457.2	769.0	701.6	67.47	11.398	
9,500.0	9,455.3	9,486.3	9,455.3	34.5	35.0	90.22	381.6	457.2	769.0	700.9	68.17	11.282	
9,600.0	9,555.3	9,586.3	9,555.3	34.9	35.3	90.22	381.6	457.2	769.0	700.2	68.87	11.167	
9,700.0	9,655.3	9,686.3	9,655.3	35.2	35.6	90.22	381.6	457.2	769.0	699.5	69.56	11.055	
9,800.0	9,755.3	9,786.3	9,755.3	35.5	36.0	90.22	381.6	457.2	769.0	698.8	70.26	10.945	
9,900.0	9,855.3	9,886.3	9,855.3	35.9	36.3	90.22	381.6	457.2	769.0	698.1	70.96	10.837	
10,000.0	9,955.3	9,986.3	9,955.3	36.2	36.7	90.22	381.6	457.2	769.0	697.4	71.66	10.731	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #133H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
10,100.0	10,055.3	10,086.3	10,055.3	36.6	37.0	90.22	381.6	457.2	769.0	696.7	72.36	10.628	
10,103.5	10,058.8	10,089.8	10,058.8	36.6	37.0	90.22	381.6	457.2	769.0	696.6	72.39	10.624	
10,200.0	10,155.3	10,178.6	10,147.6	36.9	37.3	90.25	381.3	457.3	769.2	696.1	73.03	10.532	
10,300.0	10,255.3	10,250.0	10,218.6	37.3	37.5	90.75	374.5	459.2	772.0	698.4	73.56	10.494	
10,400.0	10,355.3	10,320.1	10,287.0	37.6	37.7	91.84	359.7	463.4	778.6	704.7	73.96	10.528	
10,500.0	10,455.3	10,384.9	10,348.0	38.0	37.9	93.34	339.0	469.3	789.8	715.6	74.15	10.651	
10,600.0	10,555.3	10,444.1	10,401.4	38.3	38.0	95.10	314.3	476.2	806.0	732.0	74.07	10.882	
10,700.0	10,655.3	10,500.0	10,449.1	38.7	38.2	97.04	286.3	484.2	828.1	754.4	73.71	11.235	
10,800.0	10,755.3	10,550.0	10,489.2	39.0	38.3	98.98	257.5	492.3	856.5	783.5	73.00	11.733	
10,900.0	10,855.3	10,586.4	10,516.6	39.4	38.3	100.49	234.5	498.8	891.3	819.5	71.78	12.416	
11,000.0	10,955.3	10,623.3	10,542.8	39.7	38.4	102.08	209.6	505.9	932.4	862.0	70.38	13.248	
11,100.0	11,055.3	10,650.0	10,560.7	40.1	38.4	103.27	190.5	511.3	979.7	911.0	68.62	14.277	
11,200.0	11,155.3	10,684.3	10,582.4	40.4	38.5	104.82	164.9	518.5	1,032.5	965.5	67.01	15.408	
11,300.0	11,255.3	10,700.0	10,591.7	40.8	38.5	105.54	152.8	521.9	1,090.5	1,025.6	64.95	16.792	
11,400.0	11,355.3	10,732.1	10,609.7	41.2	38.5	107.01	127.3	529.2	1,153.0	1,089.6	63.38	18.192	
11,500.0	11,455.3	10,750.0	10,619.2	41.5	38.6	107.84	112.6	533.3	1,219.6	1,158.0	61.57	19.810	
11,600.0	11,555.3	10,770.0	10,629.1	41.9	38.6	108.76	95.9	538.0	1,289.8	1,229.8	59.94	21.519	
11,700.0	11,655.3	10,800.0	10,642.9	42.2	38.7	110.14	70.2	545.3	1,363.3	1,304.6	58.69	23.229	
11,800.0	11,755.3	10,800.0	10,642.9	42.6	38.7	110.14	70.2	545.3	1,439.1	1,382.2	56.91	25.289	
11,900.0	11,855.3	10,800.0	10,642.9	42.9	38.7	110.14	70.2	545.3	1,517.7	1,462.4	55.30	27.446	
12,000.0	11,955.3	10,825.5	10,653.5	43.3	38.7	111.30	47.9	551.6	1,598.0	1,543.7	54.39	29.379	
12,021.7	11,977.0	10,828.0	10,654.4	43.3	38.7	111.42	45.7	552.2	1,615.8	1,561.6	54.15	29.839	
12,050.0	12,005.3	10,831.3	10,655.7	43.4	38.7	-64.69	42.8	553.1	1,638.8	1,585.0	53.83	30.443	
12,100.0	12,055.1	10,850.0	10,662.6	43.6	38.7	-58.09	26.1	557.8	1,679.2	1,625.7	53.51	31.379	
12,150.0	12,104.2	10,850.0	10,662.6	43.7	38.7	-52.90	26.1	557.8	1,718.4	1,665.6	52.85	32.517	
12,200.0	12,152.4	10,850.0	10,662.6	43.9	38.7	-48.36	26.1	557.8	1,756.5	1,704.3	52.20	33.650	
12,250.0	12,199.3	10,850.0	10,662.6	44.0	38.7	-44.42	26.1	557.8	1,793.3	1,741.7	51.58	34.770	
12,300.0	12,244.5	10,869.8	10,669.3	44.1	38.8	-40.84	8.1	562.9	1,828.2	1,776.9	51.32	35.624	
12,350.0	12,287.6	10,879.1	10,672.3	44.2	38.8	-37.95	-0.4	565.3	1,861.3	1,810.4	50.90	36.568	
12,400.0	12,328.4	10,900.0	10,678.3	44.3	38.8	-35.48	-19.6	570.7	1,892.6	1,841.9	50.69	37.338	
12,450.0	12,366.5	10,900.0	10,678.3	44.3	38.8	-33.48	-19.6	570.7	1,921.4	1,871.2	50.19	38.280	
12,500.0	12,401.7	10,900.0	10,678.3	44.4	38.8	-31.78	-19.6	570.7	1,948.0	1,898.3	49.76	39.151	
12,550.0	12,433.6	10,919.9	10,683.4	44.4	38.9	-30.37	-38.1	576.0	1,972.0	1,922.4	49.64	39.731	
12,600.0	12,462.0	10,930.7	10,685.9	44.5	38.9	-29.20	-48.2	578.8	1,993.5	1,944.1	49.44	40.320	
12,650.0	12,486.7	10,950.0	10,689.8	44.5	39.0	-28.29	-66.4	584.0	2,012.4	1,963.0	49.40	40.738	
12,700.0	12,507.6	10,950.0	10,689.8	44.5	39.0	-27.50	-66.4	584.0	2,028.4	1,979.2	49.21	41.219	
12,750.0	12,524.4	10,950.0	10,689.8	44.6	39.0	-26.86	-66.4	584.0	2,041.9	1,992.8	49.11	41.577	
12,800.0	12,537.1	10,975.4	10,694.0	44.6	39.0	-26.52	-90.5	590.8	2,052.0	2,002.7	49.30	41.621	
12,850.0	12,545.5	11,000.0	10,697.0	44.6	39.1	-26.35	-114.0	597.4	2,059.6	2,010.1	49.53	41.579	
12,900.0	12,549.5	11,000.0	10,697.0	44.7	39.1	-26.16	-114.0	597.4	2,063.9	2,014.2	49.66	41.556	
12,921.7	12,550.0	11,000.0	10,697.0	44.7	39.1	-26.12	-114.0	597.4	2,064.9	2,015.2	49.75	41.505	
12,935.2	12,550.0	11,000.0	10,697.0	44.8	39.1	-26.13	-114.0	597.4	2,065.4	2,015.6	49.81	41.465	
13,000.0	12,550.0	11,020.6	10,698.7	44.9	39.2	-26.28	-133.8	603.0	2,068.6	2,018.3	50.25	41.165	
13,100.0	12,550.0	11,050.0	10,699.9	45.1	39.3	-26.49	-162.0	611.0	2,076.6	2,025.6	51.02	40.702	
13,200.0	12,550.0	11,110.3	10,700.0	45.4	39.5	-26.88	-220.1	627.0	2,087.9	2,036.0	51.95	40.191	
13,300.0	12,550.0	11,258.4	10,700.0	45.8	40.1	-27.69	-364.3	661.0	2,098.4	2,045.3	53.05	39.557	
13,400.0	12,550.0	11,409.6	10,700.0	46.2	40.8	-28.31	-513.1	688.0	2,106.6	2,052.4	54.15	38.904	
13,500.0	12,550.0	11,563.3	10,700.0	46.7	41.7	-28.75	-665.5	707.3	2,112.3	2,057.1	55.25	38.231	
13,600.0	12,550.0	11,718.5	10,700.0	47.2	42.7	-29.00	-820.3	718.5	2,115.5	2,059.2	56.33	37.556	
13,700.0	12,550.0	11,858.5	10,700.0	47.8	43.6	-29.05	-960.2	721.5	2,116.2	2,058.8	57.35	36.902	
13,800.0	12,550.0	11,958.5	10,700.0	48.4	44.3	-29.05	-1,060.2	722.2	2,116.1	2,057.8	58.32	36.286	
13,900.0	12,550.0	12,058.5	10,700.0	49.1	45.1	-29.05	-1,160.2	722.8	2,116.1	2,056.8	59.35	35.656	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #133H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
14,000.0	12,550.0	12,158.5	10,700.0	49.8	45.9	-29.04	-1,260.2	723.4	2,116.1	2,055.7	60.43	35.016	
14,100.0	12,550.0	12,258.5	10,700.0	50.6	46.7	-29.04	-1,360.2	724.0	2,116.1	2,054.5	61.57	34.368	
14,200.0	12,550.0	12,358.5	10,700.0	51.4	47.6	-29.04	-1,460.2	724.7	2,116.1	2,053.3	62.76	33.716	
14,300.0	12,550.0	12,458.5	10,700.0	52.2	48.6	-29.04	-1,560.2	725.3	2,116.1	2,052.1	64.00	33.065	
14,400.0	12,550.0	12,558.5	10,700.0	53.1	49.5	-29.04	-1,660.2	725.9	2,116.1	2,050.8	65.28	32.416	
14,500.0	12,550.0	12,658.5	10,700.0	54.0	50.5	-29.04	-1,760.2	726.5	2,116.1	2,049.5	66.60	31.772	
14,600.0	12,550.0	12,758.5	10,700.0	54.9	51.6	-29.04	-1,860.2	727.1	2,116.1	2,048.1	67.96	31.135	
14,700.0	12,550.0	12,858.5	10,700.0	55.9	52.6	-29.04	-1,960.2	727.8	2,116.0	2,046.7	69.36	30.506	
14,800.0	12,550.0	12,958.5	10,700.0	56.9	53.7	-29.04	-2,060.2	728.4	2,116.0	2,045.2	70.80	29.887	
14,900.0	12,550.0	13,058.5	10,700.0	58.0	54.9	-29.04	-2,160.2	729.0	2,116.0	2,043.8	72.27	29.280	
15,000.0	12,550.0	13,158.5	10,700.0	59.0	56.0	-29.04	-2,260.2	729.6	2,116.0	2,042.2	73.77	28.685	
15,100.0	12,550.0	13,258.5	10,700.0	60.1	57.2	-29.04	-2,360.2	730.3	2,116.0	2,040.7	75.30	28.102	
15,200.0	12,550.0	13,358.5	10,700.0	61.3	58.4	-29.04	-2,460.2	730.9	2,116.0	2,039.1	76.85	27.533	
15,300.0	12,550.0	13,458.5	10,700.0	62.4	59.6	-29.04	-2,560.2	731.5	2,116.0	2,037.5	78.43	26.978	
15,400.0	12,550.0	13,558.5	10,700.0	63.6	60.9	-29.04	-2,660.2	732.1	2,116.0	2,035.9	80.04	26.436	
15,500.0	12,550.0	13,658.5	10,700.0	64.8	62.1	-29.04	-2,760.2	732.7	2,116.0	2,034.3	81.67	25.909	
15,600.0	12,550.0	13,758.5	10,700.0	66.0	63.4	-29.04	-2,860.2	733.4	2,115.9	2,032.6	83.32	25.395	
15,700.0	12,550.0	13,858.5	10,700.0	67.2	64.7	-29.04	-2,960.2	734.0	2,115.9	2,030.9	84.99	24.896	
15,800.0	12,550.0	13,958.5	10,700.0	68.4	66.0	-29.03	-3,060.2	734.6	2,115.9	2,029.2	86.68	24.410	
15,900.0	12,550.0	14,058.5	10,700.0	69.7	67.3	-29.03	-3,160.2	735.2	2,115.9	2,027.5	88.39	23.938	
16,000.0	12,550.0	14,158.5	10,700.0	71.0	68.7	-29.03	-3,260.2	735.9	2,115.9	2,025.8	90.11	23.480	
16,100.0	12,550.0	14,258.5	10,700.0	72.3	70.0	-29.03	-3,360.2	736.5	2,115.9	2,024.0	91.86	23.035	
16,200.0	12,550.0	14,358.5	10,700.0	73.6	71.4	-29.03	-3,460.2	737.1	2,115.9	2,022.3	93.61	22.602	
16,300.0	12,550.0	14,458.5	10,700.0	74.9	72.8	-29.03	-3,560.2	737.7	2,115.9	2,020.5	95.38	22.183	
16,400.0	12,550.0	14,558.5	10,700.0	76.2	74.2	-29.03	-3,660.2	738.3	2,115.9	2,018.7	97.17	21.775	
16,500.0	12,550.0	14,658.5	10,700.0	77.6	75.6	-29.03	-3,760.2	739.0	2,115.8	2,016.9	98.97	21.380	
16,600.0	12,550.0	14,758.5	10,700.0	78.9	77.0	-29.03	-3,860.2	739.6	2,115.8	2,015.1	100.77	20.996	
16,700.0	12,550.0	14,858.5	10,700.0	80.3	78.4	-29.03	-3,960.2	740.2	2,115.8	2,013.2	102.60	20.623	
16,800.0	12,550.0	14,958.5	10,700.0	81.7	79.8	-29.03	-4,060.2	740.8	2,115.8	2,011.4	104.43	20.261	
16,900.0	12,550.0	15,058.5	10,700.0	83.1	81.3	-29.03	-4,160.2	741.5	2,115.8	2,009.5	106.27	19.910	
17,000.0	12,550.0	15,158.5	10,700.0	84.5	82.7	-29.03	-4,260.2	742.1	2,115.8	2,007.7	108.12	19.569	
17,100.0	12,550.0	15,258.5	10,700.0	85.9	84.1	-29.03	-4,360.2	742.7	2,115.8	2,005.8	109.98	19.237	
17,200.0	12,550.0	15,358.5	10,700.0	87.3	85.6	-29.03	-4,460.2	743.3	2,115.8	2,003.9	111.85	18.916	
17,300.0	12,550.0	15,458.5	10,700.0	88.7	87.1	-29.03	-4,560.2	743.9	2,115.8	2,002.0	113.73	18.603	
17,400.0	12,550.0	15,558.5	10,700.0	90.1	88.5	-29.03	-4,660.2	744.6	2,115.7	2,000.1	115.62	18.299	
17,500.0	12,550.0	15,658.5	10,700.0	91.6	90.0	-29.03	-4,760.2	745.2	2,115.7	1,998.2	117.51	18.004	
17,600.0	12,550.0	15,758.5	10,700.0	93.0	91.5	-29.03	-4,860.2	745.8	2,115.7	1,996.3	119.41	17.718	
17,700.0	12,550.0	15,858.5	10,700.0	94.5	93.0	-29.02	-4,960.2	746.4	2,115.7	1,994.4	121.32	17.439	
17,800.0	12,550.0	15,958.5	10,700.0	95.9	94.5	-29.02	-5,060.2	747.1	2,115.7	1,992.5	123.24	17.168	
17,900.0	12,550.0	16,058.5	10,700.0	97.4	96.0	-29.02	-5,160.2	747.7	2,115.7	1,990.5	125.16	16.904	
18,000.0	12,550.0	16,158.5	10,700.0	98.9	97.5	-29.02	-5,260.2	748.3	2,115.7	1,988.6	127.08	16.648	
18,100.0	12,550.0	16,258.5	10,700.0	100.4	99.0	-29.02	-5,360.2	748.9	2,115.7	1,986.6	129.02	16.398	
18,200.0	12,550.0	16,358.5	10,700.0	101.8	100.5	-29.02	-5,460.2	749.5	2,115.7	1,984.7	130.96	16.155	
18,300.0	12,550.0	16,458.5	10,700.0	103.3	102.1	-29.02	-5,560.1	750.2	2,115.6	1,982.7	132.90	15.919	
18,400.0	12,550.0	16,558.5	10,700.0	104.8	103.6	-29.02	-5,660.1	750.8	2,115.6	1,980.8	134.85	15.689	
18,500.0	12,550.0	16,658.5	10,700.0	106.3	105.1	-29.02	-5,760.1	751.4	2,115.6	1,978.8	136.80	15.465	
18,600.0	12,550.0	16,758.5	10,700.0	107.8	106.6	-29.02	-5,860.1	752.0	2,115.6	1,976.9	138.76	15.247	
18,700.0	12,550.0	16,858.5	10,700.0	109.3	108.2	-29.02	-5,960.1	752.7	2,115.6	1,974.9	140.72	15.034	
18,800.0	12,550.0	16,958.5	10,700.0	110.8	109.7	-29.02	-6,060.1	753.3	2,115.6	1,972.9	142.69	14.827	
18,900.0	12,550.0	17,058.5	10,700.0	112.3	111.3	-29.02	-6,160.1	753.9	2,115.6	1,970.9	144.66	14.625	
19,000.0	12,550.0	17,158.5	10,700.0	113.9	112.8	-29.02	-6,260.1	754.5	2,115.6	1,968.9	146.63	14.428	
19,100.0	12,550.0	17,258.5	10,700.0	115.4	114.3	-29.02	-6,360.1	755.1	2,115.6	1,966.9	148.61	14.236	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #133H - Wellbore #1 - BLM Plan #2

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
19,200.0	12,550.0	17,358.5	10,700.0	116.9	115.9	-29.02	-6,460.1	755.8	2,115.5	1,965.0	150.59	14.048	
19,300.0	12,550.0	17,458.5	10,700.0	118.4	117.4	-29.02	-6,560.1	756.4	2,115.5	1,963.0	152.58	13.865	
19,400.0	12,550.0	17,558.5	10,700.0	120.0	119.0	-29.02	-6,660.1	757.0	2,115.5	1,961.0	154.57	13.687	
19,500.0	12,550.0	17,658.5	10,700.0	121.5	120.6	-29.01	-6,760.1	757.6	2,115.5	1,959.0	156.56	13.513	
19,600.0	12,550.0	17,758.5	10,700.0	123.0	122.1	-29.01	-6,860.1	758.3	2,115.5	1,956.9	158.55	13.343	
19,700.0	12,550.0	17,858.5	10,700.0	124.6	123.7	-29.01	-6,960.1	758.9	2,115.5	1,954.9	160.55	13.176	
19,800.0	12,550.0	17,958.5	10,700.0	126.1	125.3	-29.01	-7,060.1	759.5	2,115.5	1,952.9	162.55	13.014	
19,900.0	12,550.0	18,058.5	10,700.0	127.7	126.8	-29.01	-7,160.1	760.1	2,115.5	1,950.9	164.55	12.856	
20,000.0	12,550.0	18,158.5	10,700.0	129.2	128.4	-29.01	-7,260.1	760.7	2,115.5	1,948.9	166.56	12.701	
20,100.0	12,550.0	18,258.5	10,700.0	130.8	130.0	-29.01	-7,360.1	761.4	2,115.4	1,946.9	168.57	12.550	
20,200.0	12,550.0	18,358.5	10,700.0	132.3	131.5	-29.01	-7,460.1	762.0	2,115.4	1,944.9	170.58	12.402	
20,300.0	12,550.0	18,458.5	10,700.0	133.9	133.1	-29.01	-7,560.1	762.6	2,115.4	1,942.8	172.59	12.257	
20,400.0	12,550.0	18,558.5	10,700.0	135.5	134.7	-29.01	-7,660.1	763.2	2,115.4	1,940.8	174.61	12.115	
20,500.0	12,550.0	18,658.5	10,700.0	137.0	136.3	-29.01	-7,760.1	763.9	2,115.4	1,938.8	176.62	11.977	
20,600.0	12,550.0	18,758.5	10,700.0	138.6	137.9	-29.01	-7,860.1	764.5	2,115.4	1,936.7	178.64	11.841	
20,700.0	12,550.0	18,858.5	10,700.0	140.1	139.4	-29.01	-7,960.1	765.1	2,115.4	1,934.7	180.67	11.709	
20,800.0	12,550.0	18,958.5	10,700.0	141.7	141.0	-29.01	-8,060.1	765.7	2,115.4	1,932.7	182.69	11.579	
20,900.0	12,550.0	19,058.5	10,700.0	143.3	142.6	-29.01	-8,160.1	766.3	2,115.4	1,930.6	184.71	11.452	
21,000.0	12,550.0	19,158.5	10,700.0	144.9	144.2	-29.01	-8,260.1	767.0	2,115.3	1,928.6	186.74	11.328	
21,100.0	12,550.0	19,258.5	10,700.0	146.4	145.8	-29.01	-8,360.1	767.6	2,115.3	1,926.6	188.77	11.206	
21,200.0	12,550.0	19,358.5	10,700.0	148.0	147.4	-29.01	-8,460.1	768.2	2,115.3	1,924.5	190.80	11.086	
21,300.0	12,550.0	19,458.5	10,700.0	149.6	149.0	-29.01	-8,560.1	768.8	2,115.3	1,922.5	192.83	10.970	
21,400.0	12,550.0	19,558.5	10,700.0	151.2	150.6	-29.00	-8,660.1	769.5	2,115.3	1,920.4	194.87	10.855	
21,500.0	12,550.0	19,658.5	10,700.0	152.7	152.2	-29.00	-8,760.1	770.1	2,115.3	1,918.4	196.90	10.743	
21,600.0	12,550.0	19,758.5	10,700.0	154.3	153.7	-29.00	-8,860.1	770.7	2,115.3	1,916.3	198.94	10.633	
21,700.0	12,550.0	19,858.5	10,700.0	155.9	155.3	-29.00	-8,960.1	771.3	2,115.3	1,914.3	200.98	10.525	
21,800.0	12,550.0	19,958.5	10,700.0	157.5	156.9	-29.00	-9,060.1	771.9	2,115.3	1,912.2	203.02	10.419	
21,900.0	12,550.0	20,058.5	10,700.0	159.1	158.5	-29.00	-9,160.1	772.6	2,115.2	1,910.2	205.06	10.315	
22,000.0	12,550.0	20,158.5	10,700.0	160.7	160.1	-29.00	-9,260.1	773.2	2,115.2	1,908.1	207.10	10.213	
22,100.0	12,550.0	20,258.5	10,700.0	162.2	161.7	-29.00	-9,360.1	773.8	2,115.2	1,906.1	209.15	10.113	
22,200.0	12,550.0	20,358.5	10,700.0	163.8	163.3	-29.00	-9,460.1	774.4	2,115.2	1,904.0	211.19	10.015	
22,300.0	12,550.0	20,458.5	10,700.0	165.4	164.9	-29.00	-9,560.1	775.1	2,115.2	1,902.0	213.24	9.919	
22,400.0	12,550.0	20,558.5	10,700.0	167.0	166.6	-29.00	-9,660.1	775.7	2,115.2	1,899.9	215.29	9.825	
22,500.0	12,550.0	20,658.5	10,700.0	168.6	168.2	-29.00	-9,760.1	776.3	2,115.2	1,897.8	217.34	9.732	
22,600.0	12,550.0	20,758.5	10,700.0	170.2	169.8	-29.00	-9,860.1	776.9	2,115.2	1,895.8	219.39	9.641	
22,700.0	12,550.0	20,858.5	10,700.0	171.8	171.4	-29.00	-9,960.1	777.6	2,115.2	1,893.7	221.44	9.552	
22,727.5	12,550.0	20,886.0	10,700.0	172.2	171.8	-29.00	-9,987.6	777.7	2,115.2	1,893.2	222.00	9.528	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 156-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	3.0	3.0	0.0	0.0	-90.44	-1.3	-170.0	170.1				
100.0	100.0	104.1	104.1	0.1	0.2	-90.27	-0.8	-169.7	169.7	169.4	0.28	598.132	
200.0	200.0	205.0	205.0	0.5	0.4	-89.80	0.6	-168.8	168.8	167.9	0.89	188.784	
300.0	300.0	304.9	304.9	0.8	0.8	-89.27	2.1	-167.5	167.5	165.9	1.61	104.101	
400.0	400.0	404.3	404.3	1.2	1.1	-88.71	3.8	-166.6	166.6	164.3	2.32	71.706	
500.0	500.0	503.9	503.9	1.6	1.5	-88.21	5.2	-165.9	166.0	162.9	3.04	54.616	
600.0	600.0	603.7	603.6	1.9	1.8	-87.75	6.5	-165.4	165.5	161.8	3.76	44.086	
700.0	700.0	703.3	703.2	2.3	2.2	-87.28	7.8	-165.1	165.3	160.8	4.47	36.974	
800.0	800.0	803.4	803.3	2.6	2.5	-87.00	8.7	-164.9	165.1	160.0	5.19	31.845	
900.0	900.0	903.8	903.7	3.0	2.9	-87.02	8.6	-164.6	164.8	158.9	5.89	27.977	
1,002.0	1,002.0	1,005.6	1,005.5	3.4	3.2	-87.48	7.2	-164.3	164.5	157.9	6.60	24.922	
1,100.0	1,100.0	1,103.0	1,102.9	3.7	3.6	-49.57	4.6	-164.2	163.8	156.5	7.28	22.505	
1,200.0	1,200.0	1,202.2	1,202.1	4.1	3.9	-51.38	1.5	-164.7	162.5	154.6	7.97	20.402	
1,300.0	1,299.9	1,302.3	1,302.1	4.4	4.2	-53.67	-1.5	-165.1	160.4	151.7	8.66	18.516	
1,400.0	1,399.7	1,402.9	1,402.6	4.8	4.6	-56.40	-4.0	-165.3	157.3	147.9	9.37	16.790	
1,500.0	1,499.4	1,503.3	1,503.0	5.1	4.9	-59.39	-5.3	-164.9	152.9	142.8	10.08	15.168	
1,600.0	1,598.9	1,603.0	1,602.8	5.5	5.3	-62.93	-6.0	-164.2	147.7	136.9	10.79	13.687	
1,700.0	1,698.3	1,702.1	1,701.8	5.9	5.6	-67.36	-6.8	-163.5	142.4	130.9	11.51	12.374	
1,800.0	1,797.4	1,800.5	1,800.2	6.3	6.0	-72.62	-7.4	-163.2	137.8	125.6	12.24	11.265	
1,900.0	1,896.3	1,899.6	1,899.3	6.6	6.3	-78.94	-8.2	-163.0	134.4	121.4	12.97	10.358	
2,000.0	1,995.0	1,998.7	1,998.4	7.0	6.7	-86.17	-8.6	-162.6	132.0	118.3	13.72	9.623	
2,100.0	2,093.3	2,100.8	2,100.5	7.4	7.0	-94.08	-7.2	-161.7	130.5	116.0	14.48	9.012	
2,202.0	2,193.2	2,203.0	2,202.6	7.9	7.4	-102.28	-3.0	-160.1	129.2	113.9	15.25	8.468	
2,213.0	2,204.0	2,214.0	2,213.6	7.9	7.4	-103.18	-2.4	-159.9	129.1	113.8	15.33	8.419	CC, ES
2,300.0	2,289.1	2,298.2	2,297.7	8.3	7.7	-110.19	1.3	-158.4	130.3	114.3	15.99	8.150	
2,400.0	2,386.9	2,396.2	2,395.5	8.7	8.1	-118.15	5.1	-156.8	134.7	117.9	16.73	8.049	
2,500.0	2,484.7	2,493.7	2,493.0	9.2	8.4	-125.42	8.6	-155.3	141.9	124.4	17.46	8.126	
2,600.0	2,582.5	2,594.3	2,593.5	9.6	8.8	-132.24	12.9	-153.4	150.5	132.4	18.18	8.282	
2,700.0	2,680.4	2,693.4	2,692.4	10.0	9.1	-138.45	18.2	-150.6	159.9	141.0	18.88	8.468	
2,800.0	2,778.2	2,790.2	2,789.1	10.5	9.5	-143.79	23.0	-147.9	171.3	151.7	19.58	8.749	
2,900.0	2,876.0	2,890.9	2,889.6	11.0	9.8	-148.63	28.6	-145.2	183.4	163.2	20.28	9.046	
3,000.0	2,973.8	2,990.0	2,988.5	11.4	10.2	-152.82	35.1	-142.6	195.7	174.7	20.98	9.328	
3,100.0	3,071.6	3,088.2	3,086.4	11.9	10.5	-156.42	41.3	-140.2	209.1	187.4	21.68	9.645	
3,200.0	3,169.4	3,190.2	3,188.1	12.3	10.9	-159.77	48.9	-137.7	222.0	199.7	22.39	9.919	
3,300.0	3,267.3	3,289.3	3,286.8	12.8	11.3	-162.81	57.6	-135.2	234.6	211.5	23.09	10.157	
3,400.0	3,365.1	3,385.0	3,382.1	13.3	11.6	-165.43	65.3	-132.5	248.3	224.5	23.79	10.436	
3,500.0	3,462.9	3,479.5	3,476.3	13.7	12.0	-167.62	71.7	-129.9	263.8	239.3	24.49	10.772	
3,579.9	3,541.0	3,555.0	3,551.8	14.1	12.2	-169.14	75.6	-127.6	277.5	252.5	25.04	11.083	
3,600.0	3,560.7	3,574.9	3,571.6	14.2	12.3	-169.54	76.7	-126.9	281.0	255.8	25.18	11.159	
3,700.0	3,658.9	3,673.7	3,670.1	14.6	12.7	-171.45	82.2	-122.8	297.0	271.1	25.90	11.466	
3,800.0	3,757.5	3,769.4	3,765.6	15.1	13.0	-173.14	87.6	-118.4	310.8	284.2	26.59	11.688	
3,900.0	3,856.6	3,866.5	3,862.5	15.5	13.4	-174.57	91.7	-113.5	323.8	296.5	27.30	11.861	
4,000.0	3,955.9	3,972.4	3,968.1	15.9	13.7	-175.93	97.0	-109.0	333.2	305.2	28.06	11.874	
4,100.0	4,055.6	4,079.3	4,074.8	16.3	14.1	-177.12	104.1	-106.2	338.0	309.2	28.83	11.726	
4,200.0	4,155.4	4,183.7	4,178.8	16.6	14.5	-178.33	112.8	-104.1	338.5	309.0	29.56	11.450	
4,300.0	4,255.3	4,284.8	4,279.4	17.0	14.9	-179.54	122.0	-102.4	335.7	305.4	30.28	11.086	
4,379.9	4,335.2	4,359.1	4,353.4	17.2	15.2	140.42	128.9	-100.4	332.2	301.4	30.83	10.776	
4,400.0	4,355.3	4,377.7	4,372.0	17.3	15.2	140.13	130.5	-99.6	331.3	300.4	30.96	10.700	
4,500.0	4,455.3	4,478.6	4,472.3	17.6	15.6	138.48	139.9	-95.2	327.2	295.5	31.69	10.325	
4,600.0	4,555.3	4,578.8	4,571.9	17.9	16.0	136.79	149.5	-90.9	322.9	290.5	32.41	9.964	
4,700.0	4,655.3	4,679.1	4,671.7	18.2	16.4	135.13	158.9	-87.2	318.7	285.6	33.14	9.618	
4,800.0	4,755.3	4,778.5	4,770.6	18.6	16.7	133.54	168.0	-83.9	314.6	280.8	33.86	9.293	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,878.6	4,870.3	18.9	17.1	131.96	177.0	-80.9	310.7	276.2	34.59	8.984	
5,000.0	4,955.3	4,978.1	4,969.4	19.2	17.5	130.36	185.9	-78.1	307.0	271.7	35.32	8.694	
5,100.0	5,055.3	5,078.1	5,068.9	19.5	17.9	128.81	194.5	-75.5	303.5	267.4	36.05	8.418	
5,200.0	5,155.3	5,178.1	5,168.6	19.9	18.2	127.31	202.9	-73.3	300.0	263.2	36.78	8.157	
5,300.0	5,255.3	5,278.6	5,268.7	20.2	18.6	125.80	211.2	-71.5	296.6	259.0	37.52	7.904	
5,400.0	5,355.3	5,379.5	5,369.3	20.5	19.0	124.23	219.9	-69.8	293.0	254.7	38.26	7.656	
5,500.0	5,455.3	5,480.4	5,469.5	20.8	19.4	122.06	231.2	-67.0	289.1	250.1	39.02	7.409	
5,600.0	5,555.3	5,580.3	5,568.6	21.2	19.8	119.66	243.5	-64.1	285.3	245.6	39.79	7.172	
5,700.0	5,655.3	5,679.2	5,666.7	21.5	20.1	117.24	255.6	-61.2	282.0	241.5	40.55	6.955	
5,800.0	5,755.3	5,778.7	5,765.5	21.8	20.5	114.87	267.2	-58.5	279.3	238.0	41.31	6.761	
5,900.0	5,855.3	5,878.7	5,864.8	22.2	20.9	112.57	278.4	-56.3	276.9	234.8	42.08	6.579	
6,000.0	5,955.3	5,976.3	5,961.7	22.5	21.3	110.23	289.5	-53.9	274.9	232.1	42.84	6.419	
6,100.0	6,055.3	6,075.3	6,059.9	22.8	21.7	107.54	302.0	-50.5	274.1	230.5	43.61	6.286	
6,175.2	6,130.5	6,149.5	6,133.5	23.1	22.0	105.49	311.5	-47.9	273.9	229.7	44.19	6.198	
6,200.0	6,155.3	6,174.0	6,157.7	23.2	22.1	104.81	314.6	-47.0	273.9	229.5	44.38	6.172	
6,300.0	6,255.3	6,273.6	6,256.4	23.5	22.4	102.09	327.1	-43.5	274.4	229.2	45.16	6.076	
6,400.0	6,355.3	6,373.6	6,355.7	23.9	22.8	99.47	339.3	-40.4	275.2	229.3	45.94	5.991	
6,500.0	6,455.3	6,473.2	6,454.6	24.2	23.2	96.99	351.0	-37.6	276.4	229.7	46.70	5.917	
6,600.0	6,555.3	6,572.4	6,553.1	24.5	23.6	94.68	361.9	-34.8	278.0	230.5	47.46	5.857	
6,700.0	6,655.3	6,673.0	6,653.1	24.9	24.0	92.53	372.3	-32.4	279.8	231.6	48.22	5.802	
6,800.0	6,755.3	6,771.1	6,750.9	25.2	24.4	90.96	379.9	-29.9	282.1	233.1	48.94	5.764	
6,900.0	6,855.3	6,871.7	6,851.4	25.5	24.7	90.28	383.2	-27.3	284.6	235.0	49.66	5.731	
7,000.0	6,955.3	6,973.7	6,953.3	25.9	25.1	90.00	384.6	-25.0	286.9	236.5	50.37	5.695	
7,100.0	7,055.3	7,078.5	7,058.1	26.2	25.4	90.02	384.5	-24.3	287.6	236.5	51.09	5.629	
7,200.0	7,155.3	7,179.1	7,158.7	26.6	25.8	90.19	383.6	-24.4	287.5	235.7	51.76	5.554	
7,264.5	7,219.8	7,243.2	7,222.9	26.8	26.0	90.29	383.1	-24.4	287.4	235.2	52.18	5.508	
7,300.0	7,255.3	7,278.3	7,258.0	26.9	26.1	90.35	382.9	-24.4	287.4	235.0	52.42	5.483	
7,400.0	7,355.3	7,377.5	7,357.2	27.2	26.4	90.55	381.9	-24.2	287.7	234.6	53.09	5.420	
7,500.0	7,455.3	7,477.6	7,457.3	27.6	26.7	90.80	380.6	-23.7	288.1	234.4	53.76	5.360	
7,600.0	7,555.3	7,578.0	7,557.6	27.9	27.1	91.08	379.2	-23.5	288.4	234.0	54.43	5.299	
7,700.0	7,655.3	7,678.1	7,657.8	28.3	27.4	91.40	377.6	-23.3	288.6	233.5	55.10	5.238	
7,800.0	7,755.3	7,778.3	7,757.9	28.6	27.7	91.73	375.9	-23.2	288.8	233.0	55.77	5.178	
7,900.0	7,855.3	7,878.3	7,857.9	29.0	28.0	92.04	374.3	-23.1	288.9	232.5	56.45	5.119	
8,000.0	7,955.3	7,979.4	7,958.9	29.3	28.4	92.35	372.7	-23.2	288.9	231.8	57.12	5.058	
8,100.0	8,055.3	8,080.8	8,060.3	29.7	28.7	92.68	371.1	-23.7	288.5	230.7	57.80	4.990	
8,200.0	8,155.3	8,181.8	8,161.3	30.0	29.0	93.02	369.5	-24.7	287.6	229.1	58.48	4.918	
8,300.0	8,255.3	8,283.1	8,262.6	30.3	29.4	93.31	368.1	-26.1	286.3	227.1	59.16	4.840	
8,400.0	8,355.3	8,382.8	8,362.3	30.7	29.7	93.42	367.6	-27.5	284.9	225.0	59.83	4.761	
8,500.0	8,455.3	8,480.9	8,460.4	31.0	30.0	93.37	367.9	-28.5	283.8	223.3	60.52	4.690	
8,600.0	8,555.3	8,579.9	8,559.4	31.4	30.4	93.30	368.3	-29.0	283.3	222.1	61.20	4.629	
8,700.0	8,655.3	8,679.7	8,659.2	31.7	30.7	93.16	369.0	-29.2	283.0	221.1	61.90	4.573	
8,800.0	8,755.3	8,781.8	8,761.3	32.1	31.1	92.79	370.9	-29.8	282.4	219.8	62.61	4.510	
8,900.0	8,855.3	8,884.8	8,864.2	32.4	31.4	92.25	373.6	-31.3	280.9	217.5	63.33	4.435	
9,000.0	8,955.3	8,987.6	8,966.9	32.8	31.8	91.62	376.7	-34.0	278.1	214.1	64.03	4.344	
9,100.0	9,055.3	9,087.9	9,067.2	33.1	32.1	91.56	377.1	-37.2	274.9	210.2	64.72	4.247	
9,200.0	9,155.3	9,188.5	9,167.7	33.5	32.4	91.77	376.3	-40.5	271.7	206.3	65.40	4.154	
9,300.0	9,255.3	9,283.3	9,262.5	33.8	32.8	91.88	375.8	-43.4	268.6	202.5	66.09	4.065	
9,341.6	9,296.9	9,320.7	9,299.9	34.0	32.9	91.82	376.1	-43.7	268.3	201.9	66.36	4.043	
9,400.0	9,355.3	9,377.2	9,356.3	34.2	33.1	91.67	376.8	-43.4	268.5	201.8	66.76	4.023	
9,500.0	9,455.3	9,476.7	9,455.9	34.5	33.4	91.43	377.9	-42.4	269.5	202.1	67.46	3.996	
9,600.0	9,555.3	9,578.7	9,557.8	34.9	33.8	91.33	378.3	-41.8	270.1	202.0	68.17	3.963	
9,700.0	9,655.3	9,679.8	9,659.0	35.2	34.1	91.36	378.2	-41.9	270.0	201.2	68.86	3.921	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 156-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
9,800.0	9,755.3	9,780.3	9,759.4	35.5	34.5	91.39	378.1	-42.3	269.7	200.1	69.55	3.877	
9,884.7	9,840.0	9,863.8	9,843.0	35.8	34.7	91.42	377.9	-42.5	269.4	199.3	70.13	3.842	
9,900.0	9,855.3	9,878.9	9,858.0	35.9	34.8	91.42	378.0	-42.5	269.5	199.2	70.24	3.836	
10,000.0	9,955.3	9,979.3	9,958.4	36.2	35.2	91.33	378.4	-42.4	269.6	198.6	70.94	3.800	
10,100.0	10,055.3	10,080.5	10,059.7	36.6	35.5	91.24	378.8	-42.6	269.3	197.6	71.65	3.759	
10,200.0	10,155.3	10,180.6	10,159.8	36.9	35.8	91.29	378.6	-43.2	268.8	196.4	72.34	3.715	
10,300.0	10,255.3	10,279.9	10,259.0	37.3	36.2	91.52	377.5	-43.6	268.3	195.3	73.02	3.675	
10,324.8	10,280.1	10,304.0	10,283.1	37.4	36.2	91.62	377.0	-43.6	268.3	195.1	73.18	3.666	
10,400.0	10,355.3	10,377.5	10,356.6	37.6	36.5	91.99	375.3	-43.4	268.6	194.9	73.68	3.645	
10,500.0	10,455.3	10,479.1	10,458.1	38.0	36.8	92.63	372.3	-43.2	268.9	194.5	74.37	3.616	
10,600.0	10,555.3	10,580.1	10,559.1	38.3	37.2	93.16	369.8	-43.4	268.8	193.8	75.06	3.582	
10,700.0	10,655.3	10,681.8	10,660.9	38.7	37.5	93.55	368.0	-44.3	268.1	192.4	75.75	3.539	
10,800.0	10,755.3	10,781.6	10,760.6	39.0	37.8	93.90	366.5	-45.3	267.2	190.7	76.44	3.496	
10,886.2	10,841.5	10,865.6	10,844.5	39.3	38.1	94.51	363.6	-46.1	266.6	189.6	77.01	3.462	
10,900.0	10,855.3	10,877.8	10,856.7	39.4	38.2	94.69	362.8	-46.1	266.6	189.5	77.09	3.458	SF
11,000.0	10,955.3	10,964.5	10,942.6	39.7	38.4	96.95	352.1	-44.7	269.6	192.0	77.54	3.476	
11,100.0	11,055.3	11,045.1	11,020.8	40.1	38.7	100.80	332.8	-40.1	279.2	201.7	77.52	3.602	
11,200.0	11,155.3	11,131.9	11,100.8	40.4	38.9	107.03	299.8	-34.9	295.3	218.0	77.27	3.821	
11,300.0	11,255.3	11,195.5	11,155.2	40.8	39.0	112.71	267.3	-31.5	321.0	245.7	75.30	4.263	
11,400.0	11,355.3	11,252.3	11,200.1	41.2	39.1	118.07	232.8	-27.2	359.3	287.0	72.31	4.969	
11,500.0	11,455.3	11,303.8	11,237.5	41.5	39.2	122.98	197.6	-23.6	408.4	339.6	68.87	5.930	
11,600.0	11,555.3	11,347.5	11,266.5	41.9	39.3	127.08	164.9	-21.1	466.9	401.6	65.25	7.155	
11,700.0	11,655.3	11,384.3	11,288.6	42.2	39.4	130.44	135.6	-19.7	532.9	471.2	61.76	8.630	
11,800.0	11,755.3	11,419.0	11,307.5	42.6	39.4	133.53	106.5	-19.1	605.2	546.4	58.82	10.289	
11,900.0	11,855.3	11,419.0	11,307.5	42.9	39.4	133.53	106.5	-19.1	682.9	628.3	54.65	12.496	
12,000.0	11,955.3	11,459.1	11,326.9	43.3	39.5	136.87	71.5	-18.5	763.4	710.0	53.31	14.319	
12,021.7	11,977.0	11,463.1	11,328.8	43.3	39.5	137.19	67.9	-18.4	781.4	728.5	52.85	14.784	
12,050.0	12,005.3	11,468.5	11,331.1	43.4	39.5	-39.58	63.0	-18.3	804.8	752.5	52.26	15.398	
12,100.0	12,055.1	11,478.6	11,335.5	43.6	39.5	-34.83	53.9	-18.1	845.2	793.9	51.24	16.493	
12,150.0	12,104.2	11,515.0	11,349.6	43.7	39.6	-29.98	20.4	-17.0	885.1	833.8	51.32	17.246	
12,200.0	12,152.4	11,515.0	11,349.6	43.9	39.6	-27.39	20.4	-17.0	921.8	872.0	49.83	18.500	
12,250.0	12,199.3	11,515.0	11,349.6	44.0	39.6	-25.19	20.4	-17.0	957.1	908.7	48.40	19.776	
12,300.0	12,244.5	11,515.0	11,349.6	44.1	39.6	-23.30	20.4	-17.0	990.9	943.9	47.05	21.060	
12,350.0	12,287.6	11,532.3	11,355.3	44.2	39.6	-21.45	4.0	-16.3	1,022.5	976.2	46.34	22.066	
12,400.0	12,328.4	11,546.0	11,359.2	44.3	39.7	-19.98	-9.0	-15.7	1,052.3	1,006.7	45.54	23.108	
12,450.0	12,366.5	11,546.0	11,359.2	44.3	39.7	-18.88	-9.0	-15.7	1,079.9	1,035.5	44.43	24.303	
12,500.0	12,401.7	11,572.3	11,365.8	44.4	39.7	-17.78	-34.4	-14.4	1,104.9	1,060.8	44.07	25.072	
12,550.0	12,433.6	11,589.4	11,369.5	44.4	39.7	-16.95	-51.1	-13.4	1,127.4	1,083.8	43.53	25.901	
12,600.0	12,462.0	11,610.0	11,373.5	44.5	39.8	-16.27	-71.3	-12.2	1,147.2	1,104.1	43.12	26.607	
12,650.0	12,486.7	11,643.6	11,379.5	44.5	39.9	-15.73	-104.3	-10.0	1,164.0	1,121.0	43.00	27.072	
12,700.0	12,507.6	11,684.4	11,386.6	44.5	39.9	-15.36	-144.4	-7.0	1,177.1	1,134.1	43.03	27.357	
12,750.0	12,524.4	11,723.0	11,392.8	44.6	40.0	-15.11	-182.4	-5.0	1,186.5	1,143.5	43.03	27.574	
12,800.0	12,537.1	11,762.0	11,398.4	44.6	40.2	-14.95	-221.0	-4.1	1,192.2	1,149.1	43.03	27.705	
12,850.0	12,545.5	11,803.9	11,403.7	44.6	40.3	-14.86	-262.5	-4.5	1,194.0	1,151.0	43.07	27.726	
12,900.0	12,549.5	11,862.9	11,410.6	44.7	40.5	-14.81	-321.1	-7.3	1,191.7	1,148.4	43.29	27.528	
12,921.7	12,550.0	11,888.4	11,413.5	44.7	40.5	-14.81	-346.3	-9.4	1,189.2	1,145.8	43.37	27.418	
12,935.2	12,550.0	11,904.1	11,415.3	44.8	40.6	-14.72	-361.8	-10.9	1,187.4	1,144.0	43.42	27.348	
13,000.0	12,550.0	11,933.1	11,418.1	44.9	40.7	-14.65	-390.7	-12.8	1,179.7	1,136.5	43.23	27.290	
13,100.0	12,550.0	11,989.9	11,422.6	45.1	40.9	-14.59	-447.2	-15.1	1,170.9	1,127.6	43.27	27.063	
13,200.0	12,550.0	12,070.9	11,427.5	45.4	41.2	-14.59	-528.1	-15.7	1,164.6	1,121.0	43.65	26.682	
13,300.0	12,550.0	12,160.8	11,432.2	45.8	41.7	-14.67	-617.9	-14.8	1,159.7	1,115.5	44.19	26.241	
13,400.0	12,550.0	12,216.3	11,434.1	46.2	42.0	-14.71	-673.3	-14.0	1,156.8	1,112.0	44.74	25.856	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
13,416.5	12,550.0	12,224.2	11,434.2	46.3	42.0	-14.71	-681.2	-14.0	1,156.7	1,111.8	44.85	25.792	
13,500.0	12,550.0	12,272.0	11,433.0	46.7	42.3	-14.67	-729.0	-14.1	1,158.3	1,112.9	45.45	25.486	
13,600.0	12,550.0	12,361.5	11,428.5	47.2	42.8	-14.52	-818.3	-15.5	1,162.5	1,116.4	46.10	25.216	
13,700.0	12,550.0	12,531.1	11,425.5	47.8	43.9	-14.30	-987.8	-18.3	1,163.7	1,117.1	46.62	24.962	
13,800.0	12,550.0	12,625.7	11,427.5	48.4	44.5	-14.28	-1,082.4	-18.7	1,161.4	1,114.0	47.41	24.496	
13,900.0	12,550.0	12,723.3	11,428.1	49.1	45.3	-14.16	-1,180.0	-20.6	1,160.3	1,112.1	48.20	24.070	
14,000.0	12,550.0	12,838.1	11,429.5	49.8	46.2	-14.04	-1,294.8	-22.8	1,158.4	1,109.4	49.05	23.618	
14,092.6	12,550.0	12,900.8	11,430.1	50.5	46.7	-13.98	-1,357.4	-23.8	1,157.1	1,107.2	49.87	23.201	
14,100.0	12,550.0	12,905.6	11,430.1	50.6	46.8	-13.98	-1,362.3	-23.9	1,157.1	1,107.2	49.94	23.169	
14,200.0	12,550.0	13,021.6	11,428.9	51.4	47.8	-13.83	-1,478.2	-25.8	1,157.7	1,106.9	50.84	22.773	
14,300.0	12,550.0	13,124.7	11,430.1	52.2	48.7	-13.78	-1,581.3	-26.5	1,156.3	1,104.4	51.83	22.308	
14,400.0	12,550.0	13,232.9	11,431.7	53.1	49.8	-13.73	-1,689.5	-27.1	1,154.5	1,101.6	52.87	21.838	
14,472.7	12,550.0	13,280.9	11,432.0	53.7	50.3	-13.71	-1,737.5	-27.4	1,153.9	1,100.2	53.64	21.513	
14,500.0	12,550.0	13,300.5	11,431.9	54.0	50.4	-13.70	-1,757.1	-27.4	1,154.0	1,100.0	53.93	21.396	
14,600.0	12,550.0	13,425.0	11,431.7	54.9	51.7	-13.67	-1,881.6	-27.2	1,154.1	1,099.0	55.03	20.972	
14,700.0	12,550.0	13,550.5	11,435.5	55.9	53.1	-13.75	-2,007.0	-25.7	1,151.2	1,094.9	56.27	20.460	
14,800.0	12,550.0	13,635.9	11,438.6	56.9	54.0	-13.79	-2,092.3	-25.2	1,147.7	1,090.3	57.45	19.977	
14,900.0	12,550.0	13,708.6	11,438.8	58.0	54.8	-13.70	-2,165.1	-26.5	1,146.8	1,088.2	58.59	19.572	
15,000.0	12,550.0	13,832.6	11,439.3	59.0	56.2	-13.52	-2,289.1	-29.5	1,145.7	1,086.0	59.71	19.187	
15,100.0	12,550.0	13,936.9	11,441.5	60.1	57.5	-13.43	-2,393.3	-31.3	1,143.0	1,082.1	60.90	18.768	
15,200.0	12,550.0	14,023.9	11,443.2	61.3	58.5	-13.42	-2,480.3	-31.2	1,141.1	1,078.9	62.17	18.355	
15,300.0	12,550.0	14,117.8	11,443.8	62.4	59.6	-13.39	-2,574.2	-31.4	1,140.2	1,076.8	63.44	17.974	
15,400.0	12,550.0	14,225.8	11,444.9	63.6	61.0	-13.38	-2,682.2	-31.2	1,139.1	1,074.3	64.74	17.594	
15,500.0	12,550.0	14,350.3	11,447.9	64.8	62.5	-13.39	-2,806.6	-31.0	1,136.7	1,070.6	66.10	17.198	
15,600.0	12,550.0	14,469.2	11,453.6	66.0	64.1	-13.50	-2,925.4	-29.4	1,132.2	1,064.6	67.55	16.760	
15,700.0	12,550.0	14,548.4	11,457.2	67.2	65.1	-13.59	-3,004.5	-27.9	1,128.0	1,059.0	68.96	16.357	
15,800.0	12,550.0	14,631.6	11,460.1	68.4	66.2	-13.73	-3,087.5	-25.2	1,125.2	1,054.8	70.44	15.975	
15,900.0	12,550.0	14,720.8	11,462.4	69.7	67.4	-13.94	-3,176.6	-20.9	1,123.7	1,051.7	72.00	15.608	
15,948.6	12,550.0	14,757.7	11,463.1	70.3	67.9	-14.03	-3,213.4	-19.0	1,123.4	1,050.7	72.76	15.441	
16,000.0	12,550.0	14,791.9	11,463.1	71.0	68.3	-14.09	-3,247.6	-17.7	1,123.8	1,050.3	73.53	15.284	
16,100.0	12,550.0	14,866.3	11,461.0	72.3	69.3	-14.10	-3,322.0	-16.4	1,126.7	1,051.7	74.97	15.028	
16,200.0	12,550.0	14,962.0	11,456.9	73.6	70.6	-14.06	-3,417.6	-15.5	1,130.9	1,054.6	76.38	14.807	
16,300.0	12,550.0	15,072.7	11,452.8	74.9	72.2	-14.01	-3,528.2	-14.8	1,134.5	1,056.7	77.77	14.587	
16,400.0	12,550.0	15,199.7	11,449.9	76.2	73.9	-14.02	-3,655.2	-13.2	1,137.0	1,057.8	79.23	14.350	
16,500.0	12,550.0	15,324.2	11,450.7	77.6	75.7	-14.11	-3,779.6	-10.7	1,136.7	1,055.9	80.79	14.070	
16,600.0	12,550.0	15,435.2	11,453.4	78.9	77.2	-14.19	-3,890.6	-8.9	1,134.5	1,052.1	82.36	13.775	
16,700.0	12,550.0	15,514.4	11,454.9	80.3	78.3	-14.24	-3,969.8	-7.7	1,132.9	1,049.0	83.89	13.505	
16,713.8	12,550.0	15,523.2	11,454.9	80.5	78.5	-14.25	-3,978.6	-7.6	1,132.9	1,048.8	84.10	13.471	
16,800.0	12,550.0	15,577.8	11,454.1	81.7	79.2	-14.24	-4,033.2	-7.3	1,134.1	1,048.7	85.38	13.283	
16,900.0	12,550.0	15,718.6	11,452.9	83.1	81.3	-14.30	-4,173.9	-4.7	1,135.3	1,048.3	86.96	13.055	
16,995.1	12,550.0	15,804.6	11,454.2	84.4	82.5	-14.43	-4,259.8	-1.9	1,134.6	1,046.0	88.53	12.816	
17,000.0	12,550.0	15,807.8	11,454.2	84.5	82.5	-14.43	-4,263.0	-1.8	1,134.6	1,046.0	88.61	12.804	
17,100.0	12,550.0	15,877.0	11,453.2	85.9	83.6	-14.47	-4,332.2	-0.3	1,136.3	1,046.1	90.16	12.603	
17,200.0	12,550.0	15,991.1	11,450.8	87.3	85.2	-14.54	-4,446.2	2.5	1,138.7	1,047.0	91.77	12.408	
17,300.0	12,550.0	16,097.5	11,450.1	88.7	86.8	-14.64	-4,552.6	5.4	1,140.0	1,046.6	93.42	12.202	
17,400.0	12,550.0	16,210.7	11,449.4	90.1	88.4	-14.68	-4,665.8	7.1	1,140.9	1,045.8	95.02	12.006	
17,468.1	12,550.0	16,277.7	11,450.2	91.1	89.4	-14.76	-4,732.7	9.0	1,140.4	1,044.3	96.17	11.858	
17,500.0	12,550.0	16,297.4	11,450.1	91.6	89.7	-14.78	-4,752.5	9.4	1,140.6	1,043.9	96.68	11.797	
17,600.0	12,550.0	16,366.6	11,448.2	93.0	90.7	-14.76	-4,821.6	10.1	1,143.3	1,045.1	98.21	11.642	
17,700.0	12,550.0	16,482.7	11,444.4	94.5	92.5	-14.68	-4,937.7	10.2	1,146.3	1,046.6	99.70	11.498	
17,800.0	12,550.0	16,595.3	11,441.9	95.9	94.1	-14.57	-5,050.3	9.3	1,148.1	1,047.0	101.16	11.349	
17,900.0	12,550.0	16,702.9	11,440.5	97.4	95.7	-14.47	-5,157.8	8.3	1,149.0	1,046.3	102.63	11.196	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
18,000.0	12,550.0	16,793.3	11,438.5	98.9	97.1	-14.22	-5,248.1	4.1	1,149.8	1,045.9	103.91	11.066	
18,100.0	12,550.0	16,934.5	11,436.2	100.4	99.2	-13.76	-5,389.0	-3.9	1,150.0	1,045.0	104.97	10.956	
18,173.1	12,550.0	16,983.4	11,436.1	101.4	99.9	-13.62	-5,437.9	-6.4	1,149.2	1,043.3	105.96	10.846	
18,200.0	12,550.0	17,001.4	11,435.7	101.8	100.2	-13.55	-5,455.8	-7.6	1,149.3	1,043.0	106.30	10.812	
18,300.0	12,550.0	17,127.1	11,433.9	103.3	102.0	-13.15	-5,581.3	-14.5	1,149.4	1,041.9	107.43	10.699	
18,400.0	12,550.0	17,213.4	11,433.4	104.8	103.3	-12.91	-5,667.4	-19.0	1,148.6	1,039.9	108.72	10.564	
18,500.0	12,550.0	17,316.2	11,432.9	106.3	104.9	-12.65	-5,770.1	-23.4	1,148.0	1,038.0	110.01	10.435	
18,516.9	12,550.0	17,327.8	11,432.8	106.6	105.1	-12.63	-5,781.8	-23.8	1,147.9	1,037.7	110.25	10.412	
18,600.0	12,550.0	17,385.3	11,431.7	107.8	105.9	-12.51	-5,839.2	-25.7	1,148.9	1,037.5	111.40	10.313	
18,700.0	12,550.0	17,524.2	11,429.2	109.3	108.0	-12.34	-5,978.1	-27.7	1,150.4	1,037.6	112.80	10.199	
18,800.0	12,550.0	17,681.0	11,437.6	110.8	110.5	-12.74	-6,134.4	-20.3	1,145.7	1,030.9	114.78	9.981	
18,900.0	12,550.0	17,770.9	11,444.1	112.3	111.9	-13.04	-6,223.9	-15.1	1,139.8	1,023.1	116.76	9.762	
19,000.0	12,550.0	17,834.1	11,447.4	113.9	112.9	-13.25	-6,286.9	-11.2	1,136.0	1,017.3	118.67	9.573	
19,049.3	12,550.0	17,861.5	11,448.2	114.6	113.3	-13.35	-6,314.2	-9.1	1,135.5	1,015.9	119.59	9.495	
19,100.0	12,550.0	17,889.0	11,448.4	115.4	113.7	-13.46	-6,341.6	-6.8	1,136.0	1,015.5	120.53	9.425	
19,200.0	12,550.0	17,970.3	11,447.3	116.9	115.0	-13.69	-6,422.7	-1.2	1,138.9	1,016.5	122.41	9.304	
19,300.0	12,550.0	18,070.9	11,444.0	118.4	116.5	-13.78	-6,523.2	2.1	1,142.7	1,018.5	124.14	9.205	
19,400.0	12,550.0	18,196.2	11,443.1	120.0	118.5	-14.03	-6,648.4	8.1	1,144.1	1,018.0	126.14	9.070	
19,500.0	12,550.0	18,252.4	11,441.6	121.5	119.4	-14.09	-6,704.4	10.1	1,147.4	1,019.7	127.75	8.982	
19,600.0	12,550.0	18,337.5	11,436.2	123.0	120.7	-14.04	-6,789.3	11.1	1,153.7	1,024.4	129.25	8.926	
19,700.0	12,550.0	18,444.9	11,429.4	124.6	122.4	-14.01	-6,896.5	12.8	1,160.0	1,029.2	130.86	8.865	
19,800.0	12,550.0	18,559.4	11,423.7	126.1	124.2	-14.04	-7,010.9	15.5	1,165.3	1,032.7	132.57	8.790	
19,900.0	12,550.0	18,651.5	11,419.3	127.7	125.6	-14.07	-7,102.8	17.9	1,170.4	1,036.1	134.22	8.719	
20,000.0	12,550.0	18,778.5	11,414.5	129.2	127.6	-14.15	-7,229.6	21.5	1,174.6	1,038.6	136.06	8.633	
20,100.0	12,550.0	18,915.9	11,414.1	130.8	129.8	-14.44	-7,366.9	28.6	1,176.0	1,037.8	138.21	8.509	
20,125.4	12,550.0	18,950.4	11,414.9	131.2	130.3	-14.54	-7,401.3	30.9	1,175.9	1,037.1	138.80	8.471	
20,200.0	12,550.0	18,991.1	11,414.5	132.3	130.9	-14.59	-7,442.0	32.2	1,176.6	1,036.5	140.07	8.400	
20,300.0	12,550.0	20,300.0	11,412.7	133.9	151.5	-14.53	-7,553.8	32.3	1,178.0	1,026.4	151.60	7.770	
20,400.0	12,550.0	19,225.8	11,414.0	135.5	134.6	-14.56	-7,676.6	33.3	1,176.8	1,033.5	143.37	8.208	
20,461.7	12,550.0	19,275.5	11,414.3	136.4	135.4	-14.58	-7,726.3	33.8	1,176.5	1,032.1	144.41	8.147	
20,500.0	12,550.0	19,306.3	11,414.3	137.0	135.9	-14.58	-7,757.1	34.1	1,176.6	1,031.6	145.05	8.112	
20,600.0	12,550.0	19,405.6	11,413.7	138.6	137.5	-14.59	-7,856.4	35.2	1,177.3	1,030.6	146.73	8.024	
20,700.0	12,550.0	19,494.4	11,412.7	140.1	138.9	-14.60	-7,945.2	36.2	1,178.5	1,030.1	148.38	7.943	
20,800.0	12,550.0	19,599.5	11,411.1	141.7	140.5	-14.59	-8,050.2	37.0	1,180.0	1,030.0	150.03	7.865	
20,900.0	12,550.0	19,690.0	11,410.8	143.3	142.0	-14.69	-8,140.7	40.0	1,181.1	1,029.2	151.86	7.777	
21,000.0	12,550.0	19,766.1	11,409.0	144.9	143.2	-14.70	-8,216.8	41.0	1,183.7	1,030.2	153.46	7.713	
21,100.0	12,550.0	19,928.7	11,406.4	146.4	145.7	-14.41	-8,379.3	36.5	1,183.9	1,029.2	154.73	7.652	
21,178.2	12,550.0	19,992.3	11,406.3	147.7	146.7	-14.31	-8,442.8	34.9	1,183.5	1,027.6	155.86	7.593	
21,200.0	12,550.0	20,010.3	11,406.0	148.0	147.0	-14.27	-8,460.8	34.3	1,183.5	1,027.3	156.15	7.579	
21,300.0	12,550.0	20,104.3	11,404.1	149.6	148.5	-14.05	-8,554.7	30.7	1,184.4	1,027.0	157.42	7.524	
21,400.0	12,550.0	20,217.6	11,402.8	151.2	150.3	-13.83	-8,668.0	27.0	1,184.5	1,025.8	158.70	7.464	
21,500.0	12,550.0	20,317.1	11,402.1	152.7	151.8	-13.62	-8,767.3	23.4	1,184.2	1,024.2	159.99	7.402	
21,543.0	12,550.0	20,358.0	11,401.7	153.4	152.5	-13.52	-8,808.2	21.5	1,184.1	1,023.6	160.51	7.377	
21,600.0	12,550.0	20,405.6	11,401.1	154.3	153.2	-13.42	-8,855.8	20.0	1,184.3	1,023.0	161.28	7.343	
21,700.0	12,550.0	20,485.4	11,399.6	155.9	154.5	-13.36	-8,935.5	19.5	1,185.8	1,023.0	162.78	7.285	
21,800.0	12,550.0	21,800.0	11,396.7	157.5	175.4	-13.24	-9,055.8	18.4	1,187.9	1,013.8	174.15	6.821	
21,900.0	12,550.0	20,742.3	11,399.0	159.1	158.6	-13.26	-9,192.3	19.1	1,185.9	1,020.0	165.94	7.147	
22,000.0	12,550.0	20,842.3	11,401.4	160.7	160.2	-13.27	-9,292.3	19.5	1,183.6	1,015.9	167.61	7.061	
22,100.0	12,550.0	20,946.1	11,403.6	162.2	161.8	-13.27	-9,396.1	19.5	1,181.3	1,012.0	169.25	6.980	
22,200.0	12,550.0	21,058.4	11,407.8	163.8	163.6	-13.29	-9,508.3	19.8	1,177.6	1,006.6	170.92	6.890	
22,300.0	12,550.0	21,136.8	11,410.1	165.4	164.9	-13.30	-9,586.7	19.9	1,174.6	1,002.0	172.64	6.804	
22,366.7	12,550.0	21,181.5	11,410.4	166.5	165.6	-13.27	-9,631.4	19.6	1,174.0	1,000.3	173.70	6.758	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
22,400.0	12,550.0	21,209.0	11,410.1	167.0	166.0	-13.24	-9,658.9	19.2	1,174.1	1,000.0	174.19	6.740	
22,500.0	12,550.0	21,288.3	11,408.1	168.6	167.3	-13.10	-9,738.1	17.2	1,175.8	1,000.2	175.54	6.698	
22,600.0	12,550.0	21,385.6	11,404.7	170.2	168.8	-12.86	-9,835.3	13.6	1,178.2	1,001.5	176.74	6.667	
22,700.0	12,550.0	21,512.9	11,401.8	171.8	170.8	-12.57	-9,962.4	8.9	1,179.5	1,001.6	177.90	6.630	
22,727.5	12,550.0	21,540.4	11,401.5	172.2	171.3	-12.52	-9,989.9	8.1	1,179.6	1,001.3	178.26	6.617	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #217H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 156-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	1.0	1.0	0.0	0.0	-78.32	29.0	-140.2	143.2				
100.0	100.0	101.1	101.1	0.1	0.1	-78.23	29.2	-140.1	143.1	142.9	0.28	518.161	
170.5	170.5	171.6	171.6	0.4	0.3	-78.06	29.6	-140.0	143.1	142.5	0.63	226.331	
200.0	200.0	200.7	200.7	0.5	0.4	-78.02	29.7	-140.0	143.1	142.3	0.87	164.166	
300.0	300.0	301.3	301.3	0.8	0.7	-77.94	30.0	-140.2	143.4	141.8	1.58	90.611	
400.0	400.0	403.2	403.2	1.2	1.1	-77.44	31.0	-139.0	142.5	140.2	2.30	61.892	
500.0	500.0	505.0	505.0	1.6	1.5	-76.51	32.7	-136.4	140.3	137.3	3.03	46.374	
600.0	600.0	606.6	606.5	1.9	1.8	-75.00	35.4	-132.1	136.9	133.1	3.75	36.501	
700.0	700.0	707.3	707.0	2.3	2.2	-73.24	38.2	-126.9	132.6	128.1	4.47	29.665	
800.0	800.0	807.1	806.5	2.6	2.6	-71.39	40.9	-121.4	128.2	123.0	5.19	24.714	
900.0	900.0	906.8	906.0	3.0	2.9	-69.37	43.7	-116.0	124.0	118.1	5.91	20.997	
1,002.0	1,002.0	1,008.2	1,007.3	3.4	3.3	-66.93	47.0	-110.4	120.1	113.5	6.64	18.082	
1,100.0	1,100.0	1,105.6	1,104.4	3.7	3.7	-25.07	51.4	-105.0	116.2	108.9	7.35	15.812	
1,200.0	1,200.0	1,206.1	1,204.7	4.1	4.0	-23.07	54.5	-100.0	110.8	102.8	8.07	13.729	
1,300.0	1,299.9	1,306.5	1,305.0	4.4	4.4	-22.06	55.9	-94.9	103.0	94.2	8.79	11.718	
1,400.0	1,399.7	1,405.3	1,403.6	4.8	4.8	-21.44	57.0	-90.0	93.6	84.1	9.50	9.846	
1,500.0	1,499.4	1,503.6	1,501.9	5.1	5.1	-21.08	58.7	-86.3	83.9	73.7	10.22	8.212	
1,600.0	1,598.9	1,603.5	1,601.7	5.5	5.5	-21.02	60.9	-82.9	73.2	62.3	10.94	6.693	
1,700.0	1,698.3	1,704.0	1,701.9	5.9	5.8	-18.88	64.6	-76.8	59.2	47.6	11.66	5.079	
1,800.0	1,797.4	1,802.9	1,800.2	6.3	6.2	-10.96	70.2	-67.1	42.1	29.7	12.40	3.395	
1,900.0	1,896.3	1,900.8	1,897.2	6.6	6.6	11.15	76.7	-56.0	25.1	11.9	13.18	1.906	
1,979.2	1,974.5	1,978.0	1,973.7	7.0	6.9	55.61	81.8	-47.1	18.1	4.4	13.75	1.317	Level 3, CC, ES, SF
2,000.0	1,995.0	1,998.2	1,993.8	7.0	7.0	70.12	83.1	-44.8	18.7	4.8	13.87	1.349	Level 3
2,100.0	2,093.3	2,095.2	2,089.9	7.4	7.4	113.39	89.5	-33.6	33.7	19.2	14.52	2.320	
2,202.0	2,193.2	2,193.9	2,187.8	7.9	7.8	128.18	96.4	-22.2	57.0	41.7	15.28	3.730	
2,300.0	2,289.1	2,289.1	2,282.1	8.3	8.2	134.86	102.8	-11.7	81.1	65.0	16.03	5.057	
2,400.0	2,386.9	2,386.8	2,379.1	8.7	8.5	138.91	108.9	-1.7	105.4	88.6	16.79	6.277	
2,500.0	2,484.7	2,484.5	2,476.2	9.2	8.9	141.66	114.7	7.4	129.3	111.8	17.55	7.366	
2,600.0	2,582.5	2,583.1	2,574.3	9.6	9.3	143.89	119.8	15.6	152.6	134.3	18.32	8.331	
2,700.0	2,680.4	2,676.8	2,667.6	10.0	9.7	145.45	124.6	23.7	176.5	157.5	19.03	9.276	
2,800.0	2,778.2	2,772.0	2,762.0	10.5	10.0	146.32	130.2	33.7	201.9	182.1	19.76	10.217	
2,900.0	2,876.0	2,869.5	2,858.8	11.0	10.4	146.99	136.0	44.1	227.5	207.0	20.52	11.084	
3,000.0	2,973.8	2,967.7	2,956.4	11.4	10.8	147.60	141.6	54.0	252.6	231.3	21.29	11.863	
3,100.0	3,071.6	3,059.8	3,047.8	11.9	11.2	148.02	146.9	63.8	278.3	256.3	22.00	12.652	
3,200.0	3,169.4	3,153.7	3,140.8	12.3	11.6	148.24	152.6	75.2	305.2	282.5	22.73	13.431	
3,300.0	3,267.3	3,250.4	3,236.6	12.8	12.0	148.42	158.4	87.3	332.5	309.0	23.49	14.154	
3,400.0	3,365.1	3,349.7	3,335.0	13.3	12.4	148.66	164.1	99.0	359.2	335.0	24.28	14.794	
3,500.0	3,462.9	3,447.3	3,431.9	13.7	12.8	148.94	169.3	109.8	385.5	360.4	25.05	15.386	
3,579.9	3,541.0	3,522.5	3,506.5	14.1	13.1	149.24	172.7	118.0	406.5	380.9	25.64	15.857	
3,600.0	3,560.7	3,541.5	3,525.4	14.2	13.1	149.37	173.4	120.1	411.8	386.0	25.78	15.972	
3,700.0	3,658.9	3,637.8	3,621.1	14.6	13.5	149.89	176.8	130.5	437.0	410.4	26.52	16.474	
3,800.0	3,757.5	3,734.2	3,717.0	15.1	13.9	150.29	179.3	140.8	460.1	432.8	27.25	16.880	
3,900.0	3,856.6	3,827.2	3,809.4	15.5	14.3	150.62	180.7	151.0	481.6	453.6	27.94	17.239	
4,000.0	3,955.9	3,922.3	3,903.8	15.9	14.6	150.88	181.0	161.7	501.7	473.0	28.63	17.525	
4,100.0	4,055.6	4,032.2	4,013.1	16.3	15.1	150.87	182.5	173.5	518.6	489.1	29.47	17.597	
4,200.0	4,155.4	4,136.4	4,116.8	16.6	15.5	150.55	185.8	183.5	531.6	501.3	30.24	17.575	
4,300.0	4,255.3	4,235.3	4,215.2	17.0	15.9	150.12	189.1	192.7	541.9	511.0	30.96	17.503	
4,379.9	4,335.2	4,317.5	4,297.0	17.2	16.2	110.61	191.9	200.5	548.8	517.2	31.56	17.388	
4,400.0	4,355.3	4,340.6	4,319.9	17.3	16.3	110.42	193.1	202.6	550.1	518.4	31.73	17.337	
4,500.0	4,455.3	4,442.6	4,421.2	17.6	16.7	109.34	200.8	211.9	556.2	523.7	32.48	17.124	
4,600.0	4,555.3	4,534.8	4,512.4	17.9	17.0	108.10	210.2	221.8	563.2	530.0	33.16	16.986	
4,700.0	4,655.3	4,621.8	4,598.2	18.2	17.4	106.89	219.2	232.6	572.0	538.2	33.77	16.937	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #217H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
4,800.0	4,755.3	4,713.7	4,688.8	18.6	17.8	105.78	227.1	245.6	583.2	548.8	34.43	16.940	
4,900.0	4,855.3	4,812.6	4,786.5	18.9	18.2	104.67	235.1	259.6	594.8	559.6	35.16	16.916	
5,000.0	4,955.3	4,911.8	4,884.4	19.2	18.6	103.62	242.7	273.6	606.7	570.8	35.89	16.902	
5,100.0	5,055.3	5,012.2	4,983.5	19.5	19.1	102.62	250.4	287.5	618.5	581.8	36.64	16.881	
5,200.0	5,155.3	5,114.7	5,084.8	19.9	19.5	101.68	257.9	301.2	630.1	592.7	37.40	16.848	
5,300.0	5,255.3	5,215.8	5,184.8	20.2	19.9	100.81	265.1	314.1	641.3	603.1	38.14	16.812	
5,400.0	5,355.3	5,316.6	5,284.6	20.5	20.4	99.99	272.1	326.7	652.4	613.5	38.88	16.778	
5,500.0	5,455.3	5,414.0	5,381.0	20.8	20.8	99.26	278.6	338.8	663.5	623.9	39.59	16.761	
5,600.0	5,555.3	5,512.4	5,478.5	21.2	21.2	98.58	284.6	351.1	675.0	634.7	40.30	16.750	
5,700.0	5,655.3	5,610.3	5,575.4	21.5	21.6	97.94	290.5	363.5	686.6	645.6	41.00	16.746	
5,800.0	5,755.3	5,711.7	5,675.8	21.8	22.0	97.30	296.5	376.2	698.3	656.6	41.74	16.729	
5,900.0	5,855.3	5,815.7	5,778.9	22.2	22.4	96.69	302.4	388.6	709.5	667.0	42.50	16.693	
6,000.0	5,955.3	5,915.1	5,877.5	22.5	22.8	96.15	307.9	400.2	720.5	677.2	43.22	16.670	
6,100.0	6,055.3	6,013.8	5,975.4	22.8	23.2	95.65	313.0	411.6	731.5	687.6	43.93	16.652	
6,200.0	6,155.3	6,114.0	6,074.8	23.2	23.6	95.17	318.1	423.2	742.5	697.8	44.65	16.629	
6,300.0	6,255.3	6,212.9	6,172.9	23.5	24.0	94.71	323.1	434.5	753.5	708.1	45.36	16.612	
6,400.0	6,355.3	6,311.5	6,270.7	23.9	24.4	94.28	327.9	445.9	764.7	718.6	46.07	16.599	
6,500.0	6,455.3	6,412.3	6,370.8	24.2	24.8	93.88	332.5	457.5	775.8	729.0	46.79	16.581	
6,600.0	6,555.3	6,515.6	6,473.4	24.5	25.3	93.52	336.7	468.9	786.6	739.0	47.54	16.547	
6,700.0	6,655.3	6,617.7	6,574.8	24.9	25.7	93.20	340.3	479.7	797.0	748.7	48.27	16.511	
6,800.0	6,755.3	6,721.5	6,678.0	25.2	26.1	92.92	343.7	490.3	807.0	758.0	49.01	16.465	
6,900.0	6,855.3	6,824.9	6,780.9	25.5	26.5	92.66	346.9	500.2	816.4	766.6	49.75	16.410	
7,000.0	6,955.3	6,924.8	6,880.3	25.9	26.9	92.42	349.9	509.5	825.6	775.1	50.46	16.362	
7,100.0	7,055.3	7,029.0	6,984.1	26.2	27.3	92.21	352.6	519.0	834.6	783.4	51.20	16.301	
7,200.0	7,155.3	7,126.7	7,081.3	26.6	27.6	91.99	355.5	527.6	843.3	791.4	51.89	16.251	
7,300.0	7,255.3	7,225.8	7,179.8	26.9	28.0	91.66	360.0	536.6	852.3	799.7	52.60	16.203	
7,400.0	7,355.3	7,323.4	7,277.0	27.2	28.4	91.35	364.4	545.6	861.3	808.0	53.30	16.161	
7,500.0	7,455.3	7,424.5	7,377.5	27.6	28.8	91.04	368.8	554.9	870.5	816.5	54.02	16.114	
7,600.0	7,555.3	7,519.6	7,472.1	27.9	29.2	90.77	372.9	563.8	879.8	825.1	54.70	16.085	
7,700.0	7,655.3	7,622.3	7,574.3	28.3	29.6	90.49	377.0	573.5	889.2	833.7	55.43	16.041	
7,800.0	7,755.3	7,724.7	7,676.2	28.6	30.0	90.23	381.0	582.8	898.3	842.1	56.16	15.994	
7,900.0	7,855.3	7,829.1	7,780.2	29.0	30.4	90.01	384.5	591.8	906.9	850.0	56.91	15.937	
8,000.0	7,955.3	7,931.4	7,882.0	29.3	30.8	89.81	387.6	600.3	915.2	857.5	57.63	15.879	
8,100.0	8,055.3	8,056.2	8,006.4	29.7	31.2	89.63	390.6	609.4	922.7	864.2	58.49	15.776	
8,200.0	8,155.3	8,178.4	8,128.6	30.0	31.7	89.63	390.6	614.1	926.4	867.1	59.28	15.628	
8,300.0	8,255.3	8,283.8	8,233.9	30.3	32.0	89.66	390.1	617.0	929.1	869.1	59.99	15.487	
8,400.0	8,355.3	8,387.8	8,337.9	30.7	32.4	89.68	389.9	619.3	931.3	870.6	60.70	15.343	
8,500.0	8,455.3	8,497.1	8,447.2	31.0	32.7	89.68	389.8	620.9	932.8	871.4	61.42	15.187	
8,600.0	8,555.3	8,607.2	8,557.3	31.4	33.1	89.68	389.8	621.4	933.2	871.1	62.13	15.021	
8,700.0	8,655.3	8,721.9	8,672.0	31.7	33.4	89.68	389.8	620.4	932.4	869.6	62.81	14.844	
8,800.0	8,755.3	8,827.2	8,777.3	32.1	33.7	89.66	390.1	618.2	930.3	866.8	63.48	14.655	
8,900.0	8,855.3	8,924.7	8,874.8	32.4	34.0	89.65	390.3	616.1	928.1	864.0	64.14	14.470	
9,000.0	8,955.3	9,024.9	8,974.9	32.8	34.3	89.66	390.1	614.1	926.2	861.3	64.81	14.291	
9,100.0	9,055.3	9,121.3	9,071.3	33.1	34.6	89.68	389.7	612.3	924.3	858.8	65.47	14.118	
9,200.0	9,155.3	9,223.7	9,173.7	33.5	34.9	89.70	389.5	610.6	922.6	856.5	66.14	13.950	
9,300.0	9,255.3	9,322.4	9,272.4	33.8	35.2	89.71	389.3	608.8	920.8	854.0	66.80	13.783	
9,400.0	9,355.3	9,422.3	9,372.3	34.2	35.5	89.72	389.2	607.0	919.0	851.6	67.47	13.621	
9,500.0	9,455.3	9,523.2	9,473.2	34.5	35.8	89.79	388.1	605.2	917.2	849.1	68.14	13.461	
9,600.0	9,555.3	9,624.6	9,574.5	34.9	36.1	89.95	385.4	603.3	915.4	846.6	68.81	13.303	
9,700.0	9,655.3	9,729.3	9,679.1	35.2	36.4	90.18	381.8	600.9	913.1	843.6	69.48	13.142	
9,800.0	9,755.3	9,829.5	9,779.2	35.5	36.7	90.35	379.1	598.4	910.6	840.4	70.15	12.981	
9,900.0	9,855.3	9,930.9	9,880.5	35.9	37.0	90.45	377.5	595.8	908.0	837.2	70.81	12.822	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #217H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
10,000.0	9,955.3	10,032.2	9,981.8	36.2	37.3	90.53	376.3	593.0	905.2	833.8	71.48	12.663	
10,100.0	10,055.3	10,134.3	10,083.9	36.6	37.6	90.63	374.7	590.0	902.3	830.2	72.15	12.505	
10,200.0	10,155.3	10,228.5	10,178.0	36.9	37.9	90.71	373.4	587.2	899.4	826.5	72.83	12.349	
10,300.0	10,255.3	10,313.0	10,262.5	37.3	38.2	90.67	374.1	585.8	897.7	824.2	73.50	12.214	
10,333.4	10,288.7	10,340.2	10,289.7	37.4	38.3	90.64	374.7	585.7	897.6	823.9	73.72	12.176	
10,400.0	10,355.3	10,397.3	10,346.8	37.6	38.4	90.54	376.2	586.1	898.0	823.9	74.16	12.109	
10,500.0	10,455.3	10,487.2	10,436.7	38.0	38.8	90.38	378.7	587.5	899.6	824.8	74.83	12.021	
10,600.0	10,555.3	10,574.8	10,524.2	38.3	39.1	90.29	380.0	590.1	902.6	827.1	75.49	11.956	
10,700.0	10,655.3	10,675.4	10,624.8	38.7	39.4	90.27	380.3	593.8	906.2	830.0	76.20	11.892	
10,800.0	10,755.3	10,782.9	10,732.2	39.0	39.8	90.29	380.0	597.0	909.2	832.2	76.93	11.818	
10,900.0	10,855.3	10,887.2	10,836.4	39.4	40.2	90.31	379.7	599.5	911.6	834.0	77.65	11.740	
11,000.0	10,955.3	10,992.8	10,942.0	39.7	40.5	90.35	379.1	601.5	913.5	835.1	78.37	11.656	
11,100.0	11,055.3	11,099.2	11,048.4	40.1	40.9	90.43	377.7	602.8	914.7	835.6	79.08	11.567	
11,200.0	11,155.3	11,195.4	11,144.6	40.4	41.2	90.59	375.1	603.6	915.6	835.8	79.76	11.480	
11,300.0	11,255.3	11,334.4	11,282.6	40.8	41.6	91.51	360.5	603.2	915.7	835.2	80.48	11.377	
11,400.0	11,355.3	11,415.0	11,359.7	41.2	41.8	92.94	337.8	601.2	914.3	833.2	81.12	11.270	
11,421.5	11,376.8	11,434.3	11,377.8	41.2	41.8	93.38	330.7	600.8	914.2	833.0	81.25	11.252	
11,500.0	11,455.3	11,503.6	11,440.7	41.5	42.0	95.20	301.8	599.1	914.9	833.1	81.72	11.195	
11,600.0	11,555.3	11,561.3	11,491.2	41.9	42.1	96.94	273.8	598.2	919.1	837.0	82.12	11.192	
11,700.0	11,655.3	11,612.6	11,534.9	42.2	42.2	98.59	247.1	599.0	929.1	846.9	82.25	11.297	
11,800.0	11,755.3	11,657.5	11,571.8	42.6	42.3	100.12	221.7	601.0	945.4	863.4	82.05	11.523	
11,900.0	11,855.3	11,703.0	11,607.9	42.9	42.4	101.74	194.2	604.3	968.2	886.6	81.59	11.866	
12,000.0	11,955.3	11,734.0	11,631.2	43.3	42.4	102.91	174.0	607.1	997.2	916.6	80.64	12.367	
12,021.7	11,977.0	11,750.1	11,642.8	43.3	42.4	103.55	162.8	608.5	1,004.3	923.8	80.56	12.466	
12,050.0	12,005.3	11,762.5	11,651.4	43.4	42.4	-74.88	153.9	609.6	1,013.8	933.5	80.29	12.627	
12,100.0	12,055.1	11,784.5	11,666.1	43.6	42.5	-72.33	137.8	611.4	1,030.9	951.1	79.76	12.925	
12,150.0	12,104.2	11,808.5	11,681.4	43.7	42.5	-69.79	119.3	613.2	1,048.0	968.8	79.22	13.229	
12,200.0	12,152.4	11,836.6	11,698.7	43.9	42.5	-67.27	97.3	615.3	1,064.8	986.1	78.72	13.526	
12,250.0	12,199.3	11,865.5	11,715.9	44.0	42.6	-64.94	74.2	617.5	1,081.1	1,002.8	78.23	13.818	
12,300.0	12,244.5	11,895.9	11,733.3	44.1	42.6	-62.80	49.3	619.7	1,096.5	1,018.7	77.77	14.098	
12,350.0	12,287.6	11,953.6	11,764.5	44.2	42.7	-60.37	0.9	622.6	1,110.4	1,032.6	77.81	14.271	
12,400.0	12,328.4	11,991.1	11,783.7	44.3	42.7	-58.65	-31.2	623.5	1,122.3	1,044.8	77.48	14.485	
12,450.0	12,366.5	12,020.0	11,797.6	44.3	42.7	-57.30	-56.6	623.7	1,132.6	1,055.6	77.02	14.706	
12,500.0	12,401.7	12,057.5	11,813.5	44.4	42.8	-55.98	-90.6	623.0	1,141.4	1,064.7	76.68	14.884	
12,550.0	12,433.6	12,083.0	11,822.6	44.4	42.8	-55.00	-114.3	621.6	1,148.5	1,072.4	76.18	15.077	
12,600.0	12,462.0	12,083.0	11,822.6	44.5	42.8	-54.47	-114.3	621.6	1,155.0	1,079.5	75.41	15.316	
12,650.0	12,486.7	12,126.6	11,835.0	44.5	42.8	-53.56	-156.0	618.5	1,159.0	1,083.8	75.20	15.411	
12,700.0	12,507.6	12,146.3	11,839.3	44.5	42.9	-53.09	-175.2	617.1	1,162.3	1,087.5	74.79	15.541	
12,750.0	12,524.4	12,178.0	11,844.3	44.6	42.9	-52.64	-206.4	614.7	1,164.5	1,090.0	74.54	15.623	
12,800.0	12,537.1	12,178.0	11,844.3	44.6	42.9	-52.59	-206.4	614.7	1,165.2	1,091.0	74.20	15.703	
12,850.0	12,545.5	12,203.8	11,846.7	44.6	42.9	-52.49	-232.0	612.7	1,164.5	1,090.4	74.11	15.714	
12,900.0	12,549.5	12,222.3	11,847.6	44.7	43.0	-52.58	-250.5	611.4	1,162.7	1,088.6	74.10	15.691	
12,921.7	12,550.0	12,242.0	11,847.8	44.7	43.0	-52.64	-270.1	610.2	1,161.6	1,087.5	74.14	15.667	
12,935.2	12,550.0	12,242.0	11,847.8	44.8	43.0	-52.63	-270.1	610.2	1,160.7	1,086.5	74.16	15.651	
13,000.0	12,550.0	12,282.2	11,847.3	44.9	43.1	-52.52	-310.3	607.7	1,157.6	1,083.2	74.31	15.577	
13,100.0	12,550.0	12,385.1	11,848.0	45.1	43.4	-52.40	-413.0	603.3	1,153.2	1,078.5	74.74	15.429	
13,200.0	12,550.0	12,481.6	11,850.5	45.4	43.8	-52.38	-509.4	600.0	1,148.4	1,073.1	75.33	15.246	
13,300.0	12,550.0	12,545.8	11,851.5	45.8	44.0	-52.37	-573.6	599.0	1,145.8	1,069.8	75.94	15.087	
13,373.4	12,550.0	12,606.4	11,851.5	46.1	44.3	-52.36	-634.2	599.1	1,145.5	1,069.0	76.49	14.976	
13,400.0	12,550.0	12,630.2	11,851.3	46.2	44.4	-52.35	-658.0	599.1	1,145.5	1,068.8	76.69	14.938	
13,500.0	12,550.0	12,721.7	11,850.2	46.7	44.9	-52.31	-749.5	599.7	1,146.1	1,068.6	77.51	14.786	
13,600.0	12,550.0	12,821.9	11,849.9	47.2	45.5	-52.33	-849.6	601.4	1,147.2	1,068.7	78.49	14.617	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #217H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
13,700.0	12,550.0	12,918.6	11,850.1	47.8	46.1	-52.38	-946.4	603.5	1,148.3	1,068.7	79.56	14.432	
13,800.0	12,550.0	13,015.6	11,849.8	48.4	46.7	-52.42	-1,043.4	605.6	1,149.7	1,069.0	80.71	14.244	
13,900.0	12,550.0	13,108.8	11,848.2	49.1	47.4	-52.38	-1,136.5	607.0	1,151.4	1,069.6	81.88	14.063	
14,000.0	12,550.0	13,197.4	11,846.6	49.8	48.1	-52.37	-1,225.1	609.3	1,154.0	1,070.9	83.12	13.883	
14,100.0	12,550.0	13,299.9	11,846.1	50.6	48.9	-52.46	-1,327.5	613.6	1,157.2	1,072.6	84.55	13.687	
14,200.0	12,550.0	13,395.5	11,846.1	51.4	49.7	-52.56	-1,422.9	617.8	1,160.1	1,074.1	86.04	13.484	
14,300.0	12,550.0	13,523.8	11,847.2	52.2	50.8	-52.73	-1,551.2	622.8	1,162.2	1,074.5	87.75	13.244	
14,400.0	12,550.0	13,619.4	11,848.5	53.1	51.7	-52.84	-1,646.7	625.5	1,163.1	1,073.7	89.39	13.012	
14,500.0	12,550.0	13,703.5	11,849.1	54.0	52.5	-52.94	-1,730.7	628.4	1,165.0	1,074.0	91.02	12.799	
14,600.0	12,550.0	13,787.3	11,848.4	54.9	53.4	-53.00	-1,814.5	631.9	1,168.3	1,075.6	92.68	12.605	
14,700.0	12,550.0	13,874.5	11,846.4	55.9	54.3	-53.02	-1,901.6	635.9	1,172.8	1,078.4	94.38	12.426	
14,800.0	12,550.0	14,058.8	11,845.0	56.9	56.2	-53.09	-2,085.7	641.4	1,175.9	1,079.3	96.56	12.178	
14,900.0	12,550.0	14,176.0	11,852.8	58.0	57.5	-53.43	-2,202.6	643.2	1,172.6	1,073.8	98.75	11.874	
15,000.0	12,550.0	14,275.1	11,860.4	59.0	58.6	-53.77	-2,301.5	645.2	1,169.1	1,068.2	100.94	11.583	
15,100.0	12,550.0	14,361.0	11,866.8	60.1	59.6	-54.06	-2,387.1	647.0	1,165.9	1,062.8	103.08	11.310	
15,200.0	12,550.0	14,464.9	11,873.9	61.3	60.9	-54.42	-2,490.7	650.4	1,164.0	1,058.6	105.40	11.044	
15,300.0	12,550.0	14,550.0	11,878.2	62.4	61.9	-54.60	-2,575.7	651.1	1,161.4	1,053.9	107.53	10.801	
15,374.1	12,550.0	14,609.0	11,879.6	63.3	62.6	-54.66	-2,634.6	651.7	1,160.7	1,051.6	109.05	10.643	
15,400.0	12,550.0	14,627.3	11,879.7	63.6	62.8	-54.67	-2,652.9	652.0	1,160.8	1,051.2	109.56	10.595	
15,500.0	12,550.0	14,710.5	11,878.3	64.8	63.8	-54.63	-2,736.1	653.1	1,162.3	1,050.7	111.54	10.421	
15,600.0	12,550.0	14,801.5	11,876.1	66.0	64.9	-54.58	-2,827.1	654.9	1,164.8	1,051.2	113.56	10.257	
15,700.0	12,550.0	14,895.9	11,873.3	67.2	66.1	-54.51	-2,921.4	657.2	1,167.9	1,052.3	115.62	10.101	
15,800.0	12,550.0	15,000.6	11,869.7	68.4	67.5	-54.41	-3,026.1	659.5	1,171.2	1,053.5	117.74	9.947	
15,900.0	12,550.0	15,093.5	11,865.6	69.7	68.7	-54.27	-3,118.8	660.7	1,174.3	1,054.5	119.76	9.805	
16,000.0	12,550.0	15,249.9	11,858.3	71.0	70.7	-53.90	-3,275.0	658.8	1,175.6	1,053.6	121.92	9.642	
16,100.0	12,550.0	15,383.1	11,855.2	72.3	72.4	-53.60	-3,408.1	653.7	1,173.5	1,049.5	123.96	9.467	
16,200.0	12,550.0	15,519.2	11,853.7	73.6	74.2	-53.23	-3,543.8	643.9	1,167.8	1,042.0	125.88	9.277	
16,300.0	12,550.0	15,642.8	11,856.8	74.9	75.8	-53.03	-3,666.9	633.6	1,159.0	1,031.1	127.92	9.060	
16,400.0	12,550.0	15,714.0	11,860.1	76.2	76.7	-53.01	-3,737.9	629.2	1,150.9	1,020.7	130.19	8.840	
16,500.0	12,550.0	15,774.8	11,862.3	77.6	77.6	-53.02	-3,798.7	627.2	1,145.7	1,013.3	132.45	8.650	
16,600.0	12,550.0	15,839.1	11,863.2	78.9	78.4	-53.05	-3,862.9	627.2	1,144.1	1,009.4	134.67	8.496	
16,608.6	12,550.0	15,845.4	11,863.3	79.0	78.5	-53.05	-3,869.2	627.2	1,144.1	1,009.2	134.87	8.483	
16,700.0	12,550.0	15,916.0	11,863.7	80.3	79.5	-53.11	-3,939.8	628.9	1,145.0	1,008.1	136.96	8.360	
16,800.0	12,550.0	16,013.6	11,864.3	81.7	80.9	-53.22	-4,037.3	632.4	1,147.0	1,007.5	139.45	8.225	
16,900.0	12,550.0	16,115.2	11,864.8	83.1	82.3	-53.32	-4,138.9	636.0	1,149.0	1,007.0	141.98	8.093	
17,000.0	12,550.0	16,222.7	11,866.6	84.5	83.9	-53.49	-4,246.3	640.1	1,150.6	1,005.9	144.65	7.954	
17,100.0	12,550.0	16,322.1	11,870.6	85.9	85.3	-53.78	-4,345.4	645.0	1,151.7	1,004.2	147.44	7.811	
17,200.0	12,550.0	16,407.3	11,872.5	87.3	86.5	-53.95	-4,430.6	648.8	1,153.5	1,003.5	150.00	7.690	
17,300.0	12,550.0	16,486.2	11,872.2	88.7	87.7	-54.04	-4,509.3	652.6	1,157.1	1,004.7	152.40	7.592	
17,400.0	12,550.0	16,582.3	11,870.9	90.1	89.1	-54.13	-4,605.3	658.1	1,161.9	1,007.0	154.96	7.498	
17,500.0	12,550.0	16,706.9	11,870.6	91.6	90.9	-54.24	-4,729.8	663.3	1,164.7	1,006.9	157.81	7.380	
17,600.0	12,550.0	16,797.5	11,870.2	93.0	92.2	-54.32	-4,820.3	667.1	1,167.9	1,007.6	160.34	7.284	
17,700.0	12,550.0	16,894.4	11,870.0	94.5	93.6	-54.43	-4,917.1	671.8	1,171.4	1,008.4	162.98	7.187	
17,800.0	12,550.0	16,993.2	11,869.4	95.9	95.1	-54.53	-5,015.8	676.7	1,175.3	1,009.7	165.64	7.096	
17,900.0	12,550.0	17,107.2	11,867.0	97.4	96.8	-54.51	-5,129.7	680.4	1,178.6	1,010.3	168.28	7.004	
18,000.0	12,550.0	17,203.7	11,864.0	98.9	98.2	-54.42	-5,226.1	681.8	1,181.1	1,010.4	170.66	6.921	
18,100.0	12,550.0	17,358.2	11,859.3	100.4	100.5	-54.21	-5,380.5	682.1	1,182.9	1,009.7	173.25	6.828	
18,198.7	12,550.0	17,436.8	11,859.3	101.8	101.7	-54.19	-5,459.1	681.7	1,182.0	1,006.4	175.65	6.730	
18,200.0	12,550.0	17,437.7	11,859.3	101.8	101.7	-54.19	-5,460.0	681.7	1,182.0	1,006.4	175.68	6.728	
18,300.0	12,550.0	17,512.0	11,857.2	103.3	102.8	-54.09	-5,534.3	681.6	1,183.1	1,005.2	177.93	6.649	
18,400.0	12,550.0	17,594.2	11,851.7	104.8	104.0	-53.84	-5,616.3	681.1	1,186.0	1,006.1	179.97	6.590	
18,500.0	12,550.0	17,700.6	11,842.2	106.3	105.6	-53.41	-5,722.3	679.6	1,189.7	1,007.7	181.93	6.539	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #217H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
18,600.0	12,550.0	17,804.5	11,834.0	107.8	107.2	-53.03	-5,825.8	678.1	1,192.7	1,008.8	183.94	6.484	
18,700.0	12,550.0	17,879.4	11,827.2	109.3	108.3	-52.73	-5,900.4	677.2	1,196.8	1,011.0	185.77	6.442	
18,800.0	12,550.0	18,064.6	11,815.4	110.8	111.1	-52.17	-6,085.0	674.5	1,199.7	1,011.7	188.00	6.381	
18,891.1	12,550.0	18,131.0	11,815.8	112.2	112.1	-52.16	-6,151.5	673.9	1,198.3	1,008.1	190.21	6.300	
18,900.0	12,550.0	18,136.3	11,815.6	112.3	112.2	-52.14	-6,156.7	673.7	1,198.3	1,007.9	190.40	6.294	
19,000.0	12,550.0	18,263.2	11,811.5	113.9	114.1	-51.87	-6,283.5	670.5	1,197.8	1,005.2	192.60	6.219	
19,100.0	12,550.0	18,359.4	11,807.6	115.4	115.6	-51.57	-6,379.5	666.0	1,196.2	1,001.6	194.63	6.146	
19,200.0	12,550.0	18,484.2	11,803.4	116.9	117.4	-51.19	-6,504.0	659.3	1,193.6	997.0	196.54	6.073	
19,300.0	12,550.0	18,626.1	11,804.1	118.4	119.6	-50.96	-6,645.7	651.7	1,188.8	990.2	198.60	5.986	
19,400.0	12,550.0	18,718.8	11,805.8	120.0	121.0	-50.81	-6,738.1	645.5	1,181.9	981.0	200.90	5.883	
19,500.0	12,550.0	18,813.8	11,806.7	121.5	122.4	-50.62	-6,832.9	638.8	1,175.4	972.3	203.10	5.787	
19,600.0	12,550.0	18,904.5	11,807.6	123.0	123.8	-50.47	-6,923.5	633.4	1,169.6	964.2	205.39	5.695	
19,700.0	12,550.0	18,998.3	11,808.9	124.6	125.2	-50.36	-7,017.1	628.9	1,164.6	956.8	207.74	5.606	
19,800.0	12,550.0	19,064.7	11,808.9	126.1	126.2	-50.25	-7,083.4	625.9	1,160.8	950.7	210.07	5.526	
19,848.0	12,550.0	19,090.1	11,808.2	126.9	126.6	-50.20	-7,108.8	625.2	1,160.3	949.2	211.10	5.496	
19,900.0	12,550.0	19,124.0	11,806.6	127.7	127.1	-50.11	-7,142.7	624.6	1,160.9	948.7	212.14	5.472	
20,000.0	12,550.0	19,236.7	11,801.8	129.2	128.9	-49.87	-7,255.2	623.4	1,162.3	948.0	214.31	5.424	
20,100.0	12,550.0	19,331.2	11,798.9	130.8	130.3	-49.70	-7,349.8	622.1	1,162.8	946.3	216.49	5.371	
20,200.0	12,550.0	19,408.0	11,795.3	132.3	131.5	-49.54	-7,426.4	621.9	1,165.0	946.5	218.52	5.331	
20,300.0	12,550.0	19,476.0	11,791.0	133.9	132.6	-49.39	-7,494.3	622.8	1,169.6	949.2	220.39	5.307	
20,400.0	12,550.0	19,563.9	11,784.4	135.5	134.0	-49.20	-7,581.9	625.1	1,176.0	953.6	222.37	5.289	
20,500.0	12,550.0	19,657.2	11,777.8	137.0	135.4	-49.06	-7,674.9	628.6	1,182.9	958.4	224.50	5.269	
20,600.0	12,550.0	19,743.9	11,773.0	138.6	136.8	-49.03	-7,761.3	633.8	1,190.6	963.9	226.77	5.251	
20,700.0	12,550.0	19,855.9	11,767.6	140.1	138.6	-49.07	-7,872.9	642.3	1,199.1	969.4	229.66	5.221	
20,800.0	12,550.0	20,052.2	11,761.0	141.7	141.7	-48.98	-8,068.9	648.0	1,203.6	970.6	233.02	5.165	
20,900.0	12,550.0	20,187.6	11,762.0	143.3	143.8	-48.90	-8,204.3	645.1	1,200.9	965.4	235.46	5.100	
21,000.0	12,550.0	20,289.5	11,764.1	144.9	145.4	-48.86	-8,306.1	642.3	1,197.0	959.0	237.94	5.031	
21,100.0	12,550.0	20,373.3	11,766.3	146.4	146.7	-48.89	-8,389.9	641.1	1,193.7	953.1	240.58	4.962	
21,189.5	12,550.0	20,433.6	11,768.5	147.8	147.6	-49.00	-8,450.1	642.5	1,192.6	949.5	243.05	4.907	
21,200.0	12,550.0	20,440.7	11,768.8	148.0	147.8	-49.02	-8,457.2	642.8	1,192.6	949.3	243.35	4.901	
21,300.0	12,550.0	20,491.8	11,770.8	149.6	148.6	-49.19	-8,508.2	646.3	1,194.8	949.0	245.88	4.859	
21,400.0	12,550.0	20,548.0	11,771.9	151.2	149.5	-49.41	-8,564.0	652.7	1,201.5	953.2	248.30	4.839	
21,500.0	12,550.0	20,615.6	11,771.2	152.7	150.6	-49.65	-8,631.0	661.4	1,211.3	960.6	250.75	4.831	
21,600.0	12,550.0	20,748.0	11,767.0	154.3	152.7	-49.91	-8,762.5	675.9	1,221.4	966.7	254.73	4.795	
21,700.0	12,550.0	20,872.0	11,759.0	155.9	154.7	-49.78	-8,886.0	681.8	1,228.8	971.4	257.45	4.773	
21,800.0	12,550.0	20,977.0	11,754.6	157.5	156.3	-49.73	-8,990.9	686.0	1,234.0	974.0	260.03	4.746	
21,900.0	12,550.0	21,073.7	11,753.2	159.1	157.9	-49.88	-9,087.3	693.2	1,240.2	977.2	262.96	4.716	
22,000.0	12,550.0	21,162.6	11,751.9	160.7	159.3	-50.00	-9,176.0	699.5	1,246.1	980.3	265.71	4.689	
22,100.0	12,550.0	21,332.8	11,750.6	162.2	162.0	-50.26	-9,345.6	711.0	1,252.1	982.2	269.89	4.639	
22,200.0	12,550.0	21,453.8	11,749.4	163.8	164.0	-50.20	-9,466.6	711.0	1,252.2	979.7	272.48	4.596	
22,300.0	12,550.0	21,576.7	11,747.6	165.4	165.9	-50.03	-9,589.5	708.3	1,251.0	976.3	274.73	4.554	
22,400.0	12,550.0	21,686.1	11,747.5	167.0	167.6	-49.91	-9,698.9	704.9	1,248.2	971.2	277.01	4.506	
22,500.0	12,550.0	21,798.3	11,746.5	168.6	169.4	-49.69	-9,810.9	699.6	1,244.7	965.7	279.03	4.461	
22,600.0	12,550.0	21,908.4	11,745.9	170.2	171.1	-49.45	-9,920.7	693.0	1,239.9	959.0	280.96	4.413	
22,700.0	12,550.0	22,004.9	11,745.9	171.8	172.6	-49.28	-10,017.1	687.7	1,235.3	952.2	283.10	4.363	
22,727.5	12,550.0	22,000.0	11,745.9	172.2	172.5	-49.28	-10,012.2	688.0	1,234.4	950.6	283.89	4.348	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #223H - Wellbore #1 - Actual — **Offset Site Error:** 0.0 usft

Survey Program: 156-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	1.0	1.0	0.0	0.0	-80.41	28.8	-170.3	172.7				
100.0	100.0	100.3	100.3	0.1	0.1	-80.33	29.0	-170.4	172.9	172.6	0.28	625.529	
200.0	200.0	199.4	199.4	0.5	0.4	-80.07	29.9	-170.9	173.5	172.7	0.87	198.907	
300.0	300.0	298.4	298.4	0.8	0.7	-79.69	31.3	-172.0	174.8	173.2	1.59	110.143	
400.0	400.0	398.1	398.0	1.2	1.1	-79.08	33.4	-173.2	176.4	174.1	2.30	76.617	
500.0	500.0	497.8	497.6	1.6	1.5	-77.96	37.2	-174.3	178.2	175.2	3.02	59.013	
600.0	600.0	598.5	598.2	1.9	1.8	-76.65	41.6	-175.1	180.0	176.3	3.74	48.121	
700.0	700.0	698.9	698.5	2.3	2.2	-75.35	45.9	-175.5	181.4	176.9	4.46	40.663	
800.0	800.0	799.2	798.8	2.6	2.5	-74.07	50.1	-175.7	182.7	177.5	5.18	35.261	
900.0	900.0	900.3	899.8	3.0	2.9	-72.75	54.4	-175.3	183.6	177.7	5.90	31.093	
1,002.0	1,002.0	1,002.4	1,001.8	3.4	3.3	-71.39	58.8	-174.6	184.3	177.6	6.64	27.757	
1,100.0	1,100.0	1,100.6	1,099.9	3.7	3.6	-31.30	62.6	-173.9	184.1	176.8	7.34	25.081	
1,200.0	1,200.0	1,200.6	1,199.8	4.1	4.0	-30.66	66.0	-173.3	182.5	174.5	8.06	22.655	
1,300.0	1,299.9	1,300.6	1,299.8	4.4	4.4	-30.29	69.4	-172.7	179.4	170.7	8.77	20.453	
1,400.0	1,399.7	1,401.1	1,400.2	4.8	4.7	-30.15	72.9	-171.9	174.6	165.2	9.49	18.401	
1,500.0	1,499.4	1,501.8	1,500.9	5.1	5.1	-30.51	75.8	-170.8	167.9	157.7	10.21	16.445	
1,600.0	1,598.9	1,601.6	1,600.7	5.5	5.4	-31.62	77.4	-169.7	159.2	148.3	10.92	14.575	
1,700.0	1,698.3	1,700.6	1,699.7	5.9	5.8	-33.36	78.6	-168.8	149.2	137.6	11.63	12.827	
1,800.0	1,797.4	1,799.2	1,798.3	6.3	6.1	-35.96	79.5	-168.5	138.4	126.0	12.35	11.205	
1,900.0	1,896.3	1,897.9	1,897.0	6.6	6.5	-39.57	80.3	-168.5	126.9	113.8	13.07	9.705	
2,000.0	1,995.0	1,996.8	1,995.8	7.0	6.8	-44.55	81.0	-168.6	114.8	101.0	13.81	8.314	
2,100.0	2,093.3	2,095.3	2,094.4	7.4	7.2	-51.39	81.6	-168.5	102.5	87.9	14.56	7.041	
2,202.0	2,193.2	2,195.2	2,194.3	7.9	7.5	-61.20	81.9	-168.5	90.9	75.6	15.34	5.927	
2,300.0	2,289.1	2,291.2	2,290.2	8.3	7.9	-73.40	82.0	-168.4	82.8	66.7	16.12	5.136	
2,400.0	2,386.9	2,389.0	2,388.0	8.7	8.2	-87.53	82.2	-168.4	79.1	62.2	16.93	4.675	
2,419.8	2,406.3	2,408.4	2,407.4	8.8	8.3	-90.41	82.2	-168.4	79.0	61.9	17.08	4.626	CC, ES
2,500.0	2,484.7	2,486.9	2,485.9	9.2	8.6	-101.93	82.5	-168.4	80.7	63.0	17.70	4.558	
2,600.0	2,582.5	2,584.5	2,583.6	9.6	8.9	-115.00	82.7	-168.5	87.3	68.9	18.43	4.738	
2,700.0	2,680.4	2,682.3	2,681.4	10.0	9.2	-125.87	82.8	-168.6	98.0	78.9	19.10	5.133	
2,800.0	2,778.2	2,780.0	2,779.0	10.5	9.6	-134.42	82.7	-168.6	111.8	92.0	19.75	5.657	
2,900.0	2,876.0	2,877.9	2,876.9	11.0	9.9	-141.01	82.6	-168.8	127.4	107.0	20.41	6.241	
3,000.0	2,973.8	2,975.6	2,974.7	11.4	10.2	-146.02	82.5	-169.1	144.3	123.2	21.08	6.846	
3,100.0	3,071.6	3,073.1	3,072.2	11.9	10.6	-149.94	82.2	-169.6	162.3	140.5	21.75	7.461	
3,200.0	3,169.4	3,171.1	3,170.1	12.3	10.9	-153.08	81.9	-170.0	180.9	158.4	22.43	8.064	
3,300.0	3,267.3	3,269.0	3,268.0	12.8	11.2	-155.67	81.7	-170.3	199.9	176.7	23.11	8.646	
3,400.0	3,365.1	3,366.6	3,365.6	13.3	11.6	-157.82	81.5	-170.6	219.1	195.3	23.80	9.207	
3,500.0	3,462.9	3,463.4	3,462.4	13.7	11.9	-159.63	81.1	-170.6	239.0	214.5	24.48	9.762	
3,579.9	3,541.0	3,540.5	3,539.5	14.1	12.1	-160.95	80.5	-170.2	255.3	230.3	25.02	10.204	
3,600.0	3,560.7	3,560.0	3,559.1	14.2	12.2	-161.29	80.4	-170.1	259.4	234.2	25.16	10.311	
3,700.0	3,658.9	3,657.1	3,656.2	14.6	12.5	-162.71	79.5	-169.3	278.6	252.8	25.84	10.783	
3,800.0	3,757.5	3,753.1	3,752.1	15.1	12.9	-163.83	78.3	-168.1	296.0	269.5	26.50	11.169	
3,900.0	3,856.6	3,848.8	3,847.8	15.5	13.2	-164.75	76.2	-166.3	312.0	284.9	27.16	11.489	
4,000.0	3,955.9	3,946.7	3,945.7	15.9	13.5	-165.53	73.7	-163.8	326.2	298.4	27.84	11.719	
4,100.0	4,055.6	4,048.7	4,047.6	16.3	13.9	-166.22	71.3	-161.0	337.9	309.3	28.56	11.831	
4,200.0	4,155.4	4,153.4	4,152.2	16.6	14.2	-166.78	70.4	-158.7	345.5	316.2	29.30	11.790	
4,300.0	4,255.3	4,253.8	4,252.6	17.0	14.6	-167.14	70.1	-157.0	349.8	319.8	30.00	11.660	
4,379.9	4,335.2	4,333.0	4,331.8	17.2	14.8	153.63	69.7	-155.7	351.5	321.0	30.55	11.509	
4,400.0	4,355.3	4,353.0	4,351.8	17.3	14.9	153.59	69.6	-155.4	351.8	321.1	30.68	11.466	
4,500.0	4,455.3	4,452.9	4,451.7	17.6	15.3	153.40	68.9	-153.8	353.1	321.8	31.37	11.257	
4,600.0	4,555.3	4,553.5	4,552.2	17.9	15.6	153.20	68.3	-152.1	354.4	322.3	32.06	11.051	
4,700.0	4,655.3	4,653.8	4,652.5	18.2	16.0	152.98	68.0	-150.4	355.5	322.7	32.76	10.851	
4,800.0	4,755.3	4,756.3	4,755.0	18.6	16.3	152.65	68.2	-148.2	356.2	322.8	33.47	10.642	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #223H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
4,900.0	4,855.3	4,858.7	4,857.3	18.9	16.7	151.86	70.5	-143.9	356.3	322.1	34.19	10.421	
5,000.0	4,955.3	4,962.7	4,960.9	19.2	17.1	150.42	75.5	-136.4	355.5	320.6	34.90	10.184	
5,100.0	5,055.3	5,069.0	5,066.4	19.5	17.4	148.47	83.5	-127.1	353.4	317.8	35.63	9.917	
5,200.0	5,155.3	5,173.2	5,169.8	19.9	17.8	146.41	93.4	-118.4	349.9	313.6	36.35	9.626	
5,300.0	5,255.3	5,272.8	5,268.6	20.2	18.2	144.37	103.5	-110.3	346.1	309.1	37.05	9.342	
5,400.0	5,355.3	5,370.8	5,365.8	20.5	18.5	142.37	113.1	-102.5	343.0	305.3	37.74	9.088	
5,500.0	5,455.3	5,469.6	5,463.9	20.8	18.9	140.44	122.2	-95.0	340.5	302.1	38.45	8.857	
5,600.0	5,555.3	5,569.8	5,563.5	21.2	19.3	138.56	130.9	-87.9	338.5	299.3	39.16	8.642	
5,700.0	5,655.3	5,671.8	5,664.7	21.5	19.7	136.43	141.1	-80.3	336.1	296.2	39.89	8.425	
5,800.0	5,755.3	5,771.7	5,763.7	21.8	20.0	134.22	152.0	-72.8	333.6	293.0	40.62	8.214	
5,900.0	5,855.3	5,869.7	5,861.0	22.2	20.4	132.13	162.0	-65.8	331.8	290.5	41.34	8.027	
6,000.0	5,955.3	5,968.9	5,959.4	22.5	20.8	130.12	171.5	-59.0	330.7	288.7	42.06	7.863	
6,100.0	6,055.3	6,068.0	6,057.7	22.8	21.1	127.86	182.1	-51.3	330.0	287.2	42.79	7.711	
6,146.5	6,101.8	6,113.7	6,102.8	23.0	21.3	126.66	187.7	-47.2	329.9	286.7	43.13	7.648	
6,200.0	6,155.3	6,165.8	6,154.2	23.2	21.5	125.20	194.4	-42.2	330.0	286.5	43.52	7.583	
6,300.0	6,255.3	6,263.6	6,250.6	23.5	21.9	122.33	207.5	-32.0	331.2	287.0	44.26	7.485	
6,400.0	6,355.3	6,361.3	6,347.0	23.9	22.3	119.57	220.1	-21.9	333.5	288.5	44.99	7.413	
6,500.0	6,455.3	6,459.4	6,443.8	24.2	22.7	116.93	232.2	-11.8	336.7	291.0	45.72	7.365	
6,600.0	6,555.3	6,557.7	6,540.9	24.5	23.0	114.32	244.4	-1.5	340.9	294.4	46.46	7.336	
6,700.0	6,655.3	6,655.9	6,637.7	24.9	23.4	111.77	256.5	8.8	345.8	298.6	47.20	7.327	
6,800.0	6,755.3	6,753.8	6,734.4	25.2	23.8	109.34	268.4	19.3	351.6	303.7	47.93	7.336	
6,900.0	6,855.3	6,852.0	6,831.2	25.5	24.2	106.99	280.2	29.9	358.3	309.6	48.67	7.362	
7,000.0	6,955.3	6,950.4	6,928.3	25.9	24.6	104.76	291.7	40.6	365.6	316.2	49.40	7.401	
7,100.0	7,055.3	7,049.1	7,025.8	26.2	25.0	102.69	302.8	51.3	373.5	323.4	50.14	7.450	
7,200.0	7,155.3	7,147.9	7,123.6	26.6	25.4	100.77	313.5	61.9	381.9	331.0	50.87	7.507	
7,300.0	7,255.3	7,246.6	7,221.1	26.9	25.8	98.98	323.9	72.5	390.7	339.1	51.60	7.571	
7,400.0	7,355.3	7,345.4	7,318.8	27.2	26.2	97.31	333.9	83.0	399.9	347.6	52.33	7.642	
7,500.0	7,455.3	7,447.2	7,419.6	27.6	26.6	95.89	342.8	93.5	409.1	356.0	53.10	7.705	
7,600.0	7,555.3	7,553.1	7,525.0	27.9	27.0	94.86	349.3	102.9	417.4	363.5	53.92	7.742	
7,700.0	7,655.3	7,660.1	7,631.7	28.3	27.4	94.25	353.3	110.2	423.9	369.2	54.72	7.747	
7,800.0	7,755.3	7,762.1	7,733.4	28.6	27.7	93.87	355.7	116.0	429.4	373.9	55.45	7.744	
7,900.0	7,855.3	7,862.4	7,833.6	29.0	28.1	93.58	357.5	121.4	434.7	378.5	56.16	7.740	
8,000.0	7,955.3	7,963.1	7,934.2	29.3	28.5	93.35	359.0	126.7	439.8	383.0	56.87	7.734	
8,100.0	8,055.3	8,064.6	8,035.5	29.7	28.8	93.13	360.3	131.7	444.7	387.1	57.59	7.722	
8,200.0	8,155.3	8,169.8	8,140.6	30.0	29.2	92.95	361.5	136.2	448.9	390.6	58.34	7.695	
8,300.0	8,255.3	8,275.9	8,246.6	30.3	29.6	92.81	362.5	139.2	451.7	392.6	59.09	7.645	
8,400.0	8,355.3	8,375.7	8,346.4	30.7	29.9	92.71	363.2	141.4	453.9	394.1	59.79	7.592	
8,500.0	8,455.3	8,494.5	8,465.2	31.0	30.3	92.61	364.0	141.2	453.6	393.0	60.55	7.491	
8,600.0	8,555.3	8,595.9	8,566.6	31.4	30.7	92.51	364.9	138.9	451.3	390.1	61.24	7.369	
8,700.0	8,655.3	8,694.2	8,664.9	31.7	31.0	92.32	366.4	137.0	449.3	387.4	61.93	7.255	
8,800.0	8,755.3	8,796.7	8,767.3	32.1	31.3	92.07	368.5	134.9	447.2	384.6	62.63	7.141	
8,900.0	8,855.3	8,894.5	8,865.1	32.4	31.7	91.86	370.2	132.5	444.7	381.3	63.32	7.022	
9,000.0	8,955.3	8,992.6	8,963.1	32.8	32.0	91.74	371.2	131.2	443.3	379.3	64.01	6.925	
9,100.0	9,055.3	9,096.8	9,067.3	33.1	32.3	91.70	371.5	129.0	441.2	376.5	64.70	6.819	
9,200.0	9,155.3	9,190.7	9,161.2	33.5	32.7	91.72	371.4	126.9	439.0	373.6	65.38	6.715	
9,300.0	9,255.3	9,286.4	9,256.9	33.8	33.0	91.73	371.4	126.7	438.7	372.7	66.05	6.642	
9,400.0	9,355.3	9,390.0	9,360.5	34.2	33.3	91.67	371.8	126.2	438.3	371.5	66.76	6.565	
9,500.0	9,455.3	9,491.0	9,461.5	34.5	33.7	91.66	372.0	125.0	437.1	369.6	67.45	6.480	
9,600.0	9,555.3	9,591.4	9,561.9	34.9	34.0	91.83	370.7	123.7	435.9	367.7	68.13	6.397	
9,700.0	9,655.3	9,691.1	9,661.5	35.2	34.3	92.07	368.9	122.4	434.6	365.8	68.81	6.316	
9,800.0	9,755.3	9,793.8	9,764.2	35.5	34.7	92.28	367.4	120.9	433.1	363.6	69.50	6.232	
9,900.0	9,855.3	9,892.2	9,862.5	35.9	35.0	92.51	365.7	119.2	431.5	361.3	70.18	6.148	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #223H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
10,000.0	9,955.3	9,992.3	9,962.6	36.2	35.3	92.76	363.9	117.6	430.0	359.2	70.86	6.069	
10,100.0	10,055.3	10,094.0	10,064.3	36.6	35.6	93.04	361.9	115.8	428.4	356.8	71.55	5.987	
10,200.0	10,155.3	10,192.7	10,162.9	36.9	36.0	93.36	359.6	114.0	426.7	354.5	72.23	5.908	
10,300.0	10,255.3	10,292.4	10,262.7	37.3	36.3	93.65	357.5	112.4	425.2	352.3	72.91	5.831	
10,400.0	10,355.3	10,392.0	10,362.2	37.6	36.6	93.96	355.3	110.7	423.6	350.0	73.59	5.756	
10,500.0	10,455.3	10,488.7	10,458.9	38.0	36.9	94.24	353.3	109.7	422.7	348.4	74.27	5.691	
10,600.0	10,555.3	10,588.3	10,558.4	38.3	37.3	94.50	351.5	109.1	422.2	347.3	74.95	5.633	
10,700.0	10,655.3	10,690.3	10,660.5	38.7	37.6	94.74	349.8	108.1	421.4	345.8	75.65	5.571	
10,800.0	10,755.3	10,791.8	10,761.9	39.0	37.9	94.92	348.6	106.8	420.3	343.9	76.34	5.505	
10,900.0	10,855.3	10,893.1	10,863.3	39.4	38.3	95.06	347.7	105.3	418.8	341.8	77.03	5.437	
11,000.0	10,955.3	10,993.4	10,963.4	39.7	38.6	95.24	346.5	103.4	417.0	339.3	77.72	5.365	
11,100.0	11,055.3	11,092.3	11,062.4	40.1	39.0	95.47	345.0	101.7	415.4	337.0	78.41	5.298	
11,200.0	11,155.3	11,192.0	11,162.0	40.4	39.3	95.77	343.0	100.1	414.1	335.0	79.10	5.235	
11,300.0	11,255.3	11,290.1	11,260.1	40.8	39.6	96.07	341.0	98.6	412.8	333.0	79.79	5.174	
11,400.0	11,355.3	11,389.5	11,359.4	41.2	39.9	96.38	338.8	97.7	412.1	331.6	80.47	5.121	
11,500.0	11,455.3	11,487.8	11,457.7	41.5	40.3	96.73	336.4	96.8	411.4	330.3	81.16	5.070	
11,600.0	11,555.3	11,588.6	11,558.5	41.9	40.6	97.12	333.7	96.1	411.1	329.3	81.85	5.023	
11,700.0	11,655.3	11,690.3	11,660.1	42.2	41.0	97.49	331.1	95.0	410.4	327.8	82.55	4.971	
11,800.0	11,755.3	11,788.5	11,758.3	42.6	41.3	97.83	328.8	93.9	409.6	326.4	83.23	4.921	
11,900.0	11,855.3	11,887.9	11,857.7	42.9	41.6	98.19	326.3	93.2	409.2	325.3	83.92	4.876	
11,988.5	11,943.8	11,975.0	11,944.8	43.2	41.9	98.52	324.0	92.5	408.9	324.4	84.53	4.838	
12,000.0	11,955.3	11,985.9	11,955.7	43.3	42.0	98.57	323.7	92.5	408.9	324.3	84.60	4.833	
12,021.7	11,977.0	12,006.5	11,976.2	43.3	42.0	98.66	323.1	92.5	409.0	324.2	84.75	4.826	
12,050.0	12,005.3	12,033.3	12,003.1	43.4	42.1	-81.20	322.1	92.5	409.0	324.1	84.93	4.816	
12,100.0	12,055.1	12,080.7	12,050.3	43.6	42.3	-81.57	320.2	92.7	408.9	323.7	85.23	4.797	
12,111.0	12,065.9	12,091.0	12,060.7	43.6	42.3	-81.72	319.8	92.8	408.8	323.5	85.30	4.793	
12,150.0	12,104.2	12,114.0	12,083.6	43.7	42.4	-82.10	318.3	93.4	409.1	323.7	85.38	4.792	
12,200.0	12,152.4	12,151.8	12,121.2	43.9	42.5	-82.88	314.8	95.3	410.6	325.1	85.52	4.801	
12,250.0	12,199.3	12,187.2	12,156.2	44.0	42.6	-83.78	310.6	98.3	413.4	327.9	85.58	4.831	
12,300.0	12,244.5	12,224.9	12,193.3	44.1	42.8	-84.93	305.1	102.4	417.6	331.9	85.68	4.874	
12,350.0	12,287.6	12,264.5	12,231.9	44.2	42.9	-86.28	298.0	107.4	422.9	337.1	85.84	4.927	
12,400.0	12,328.4	12,300.8	12,266.7	44.3	43.0	-87.37	289.0	112.6	429.6	343.6	85.95	4.998	
12,450.0	12,366.5	12,343.3	12,304.8	44.3	43.1	-88.14	271.7	119.6	437.5	351.3	86.19	5.076	
12,500.0	12,401.7	12,382.8	12,336.7	44.4	43.2	-88.22	249.6	126.7	446.3	360.0	86.33	5.170	
12,550.0	12,433.6	12,419.4	12,363.0	44.4	43.2	-87.85	225.3	134.1	456.2	369.8	86.40	5.281	
12,600.0	12,462.0	12,455.4	12,386.4	44.5	43.3	-87.31	199.2	142.3	467.4	380.9	86.47	5.405	
12,650.0	12,486.7	12,492.3	12,408.6	44.5	43.3	-86.78	171.2	151.6	479.7	393.1	86.61	5.539	
12,700.0	12,507.6	12,523.4	12,426.4	44.5	43.4	-86.19	147.2	160.1	493.1	406.4	86.73	5.686	
12,750.0	12,524.4	12,580.7	12,457.4	44.6	43.4	-86.55	102.0	176.8	507.3	420.1	87.26	5.814	
12,800.0	12,537.1	12,630.9	12,483.0	44.6	43.4	-86.92	61.0	190.3	520.5	432.9	87.67	5.938	
12,850.0	12,545.5	12,682.0	12,507.8	44.6	43.6	-87.60	18.3	203.7	533.6	445.5	88.05	6.060	
12,900.0	12,549.5	12,735.2	12,532.2	44.7	43.7	-88.58	-27.0	217.0	546.4	458.0	88.40	6.181	
12,921.7	12,550.0	12,758.3	12,542.3	44.7	43.8	-89.07	-47.0	222.6	551.9	463.4	88.52	6.235	
12,935.2	12,550.0	12,772.7	12,548.4	44.8	43.9	-89.73	-59.6	226.0	555.3	466.7	88.58	6.269	
13,000.0	12,550.0	12,832.1	12,569.2	44.9	44.1	-91.90	-113.3	240.2	571.8	483.0	88.81	6.439	
13,100.0	12,550.0	12,964.7	12,600.8	45.1	44.5	-94.90	-238.4	270.5	596.3	507.1	89.23	6.683	
13,200.0	12,550.0	13,189.2	12,620.1	45.4	45.4	-96.56	-460.0	292.7	605.8	515.8	90.03	6.729	
13,300.0	12,550.0	13,292.8	12,624.8	45.8	45.8	-97.00	-563.5	292.8	605.7	515.0	90.73	6.676	
13,342.5	12,550.0	13,334.9	12,625.3	46.0	46.0	-97.05	-605.6	292.9	605.7	514.6	91.07	6.651	
13,400.0	12,550.0	13,375.2	12,625.5	46.2	46.2	-97.07	-645.8	293.8	606.6	515.1	91.52	6.628	
13,500.0	12,550.0	13,447.3	12,626.3	46.7	46.6	-97.10	-717.8	297.8	611.6	519.2	92.36	6.622	
13,600.0	12,550.0	13,516.9	12,627.3	47.2	47.0	-97.11	-787.0	305.0	621.4	528.1	93.24	6.664	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #223H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
13,700.0	12,550.0	13,607.1	12,628.9	47.8	47.5	-97.13	-876.5	317.1	634.3	539.9	94.33	6.724	
13,800.0	12,550.0	13,710.9	12,631.1	48.4	48.2	-97.17	-979.2	331.4	647.6	552.0	95.61	6.773	
13,900.0	12,550.0	13,832.2	12,633.3	49.1	49.1	-97.22	-1,099.7	345.2	658.4	561.3	97.13	6.779	
14,000.0	12,550.0	13,957.9	12,636.3	49.8	50.1	-97.37	-1,224.9	356.1	666.9	568.1	98.74	6.754	
14,100.0	12,550.0	14,080.6	12,639.3	50.6	51.1	-97.58	-1,347.5	360.9	670.3	569.9	100.40	6.676	
14,200.0	12,550.0	14,159.0	12,641.4	51.4	51.7	-97.72	-1,425.7	364.1	674.1	572.2	101.85	6.618	
14,300.0	12,550.0	14,273.4	12,641.3	52.2	52.7	-97.66	-1,539.9	369.9	678.5	574.8	103.67	6.544	
14,400.0	12,550.0	14,458.0	12,645.8	53.1	54.4	-98.12	-1,724.3	363.4	674.0	568.2	105.74	6.374	
14,500.0	12,550.0	14,534.7	12,647.8	54.0	55.1	-98.36	-1,800.7	358.1	666.7	559.2	107.46	6.204	
14,585.6	12,550.0	14,582.0	12,648.3	54.8	55.5	-98.43	-1,848.0	356.6	663.9	555.0	108.88	6.098	
14,600.0	12,550.0	14,593.4	12,648.6	54.9	55.6	-98.46	-1,859.4	356.6	663.9	554.8	109.13	6.084	
14,700.0	12,550.0	14,669.2	12,650.0	55.9	56.4	-98.57	-1,935.1	358.1	665.6	554.8	110.87	6.004	
14,800.0	12,550.0	14,759.7	12,651.7	56.9	57.4	-98.65	-2,025.5	363.3	671.0	558.2	112.79	5.949	
14,900.0	12,550.0	14,863.9	12,653.5	58.0	58.5	-98.73	-2,129.5	369.8	676.8	561.9	114.92	5.889	
15,000.0	12,550.0	14,985.6	12,657.0	59.0	59.8	-98.99	-2,251.1	372.9	678.8	561.6	117.22	5.791	
15,100.0	12,550.0	15,078.3	12,658.3	60.1	60.9	-99.06	-2,343.7	375.9	681.6	562.3	119.33	5.712	
15,200.0	12,550.0	15,201.9	12,659.2	61.3	62.3	-99.12	-2,467.3	378.2	683.0	561.3	121.76	5.609	
15,300.0	12,550.0	15,321.3	12,660.1	62.4	63.6	-99.23	-2,586.6	376.1	680.8	556.6	124.14	5.484	
15,350.4	12,550.0	15,347.5	12,660.1	63.0	63.9	-99.23	-2,612.8	376.1	680.1	555.0	125.15	5.434	
15,400.0	12,550.0	15,378.9	12,660.3	63.6	64.3	-99.25	-2,644.2	376.7	680.8	554.6	126.13	5.397	
15,500.0	12,550.0	15,537.9	12,660.2	64.8	66.2	-99.27	-2,803.1	375.2	679.3	550.4	128.89	5.270	
15,600.0	12,550.0	15,639.3	12,662.6	66.0	67.4	-99.55	-2,904.3	369.8	673.8	542.6	131.21	5.135	
15,700.0	12,550.0	15,732.5	12,660.6	67.2	68.6	-99.47	-2,997.3	364.3	667.1	533.5	133.64	4.992	
15,800.0	12,550.0	15,809.3	12,662.5	68.4	69.5	-99.67	-3,074.1	362.0	663.8	527.9	135.94	4.883	
15,886.7	12,550.0	15,884.3	12,663.4	69.5	70.5	-99.76	-3,149.0	361.7	663.0	525.0	137.98	4.805	
15,900.0	12,550.0	15,895.2	12,663.3	69.7	70.6	-99.76	-3,159.9	361.8	663.0	524.7	138.30	4.794	
16,000.0	12,550.0	15,978.4	12,662.7	71.0	71.7	-99.68	-3,243.1	363.9	664.8	524.1	140.67	4.726	
16,100.0	12,550.0	16,086.9	12,661.2	72.3	73.1	-99.52	-3,351.5	367.2	667.0	523.5	143.40	4.651	
16,200.0	12,550.0	16,183.7	12,660.5	73.6	74.4	-99.43	-3,448.3	369.5	668.5	522.5	145.99	4.579	
16,300.0	12,550.0	16,270.3	12,659.8	74.9	75.5	-99.33	-3,534.8	373.3	672.0	523.5	148.47	4.526	
16,400.0	12,550.0	16,392.4	12,660.0	76.2	77.2	-99.32	-3,656.8	375.9	673.3	521.9	151.42	4.446	
16,500.0	12,550.0	16,495.3	12,660.8	77.6	78.6	-99.37	-3,759.7	377.8	674.6	520.5	154.11	4.377	
16,600.0	12,550.0	16,614.2	12,658.2	78.9	80.2	-99.17	-3,878.6	377.4	673.3	516.3	157.03	4.288	
16,671.3	12,550.0	16,669.5	12,657.2	79.9	80.9	-99.10	-3,933.9	376.9	672.0	513.1	158.86	4.230	
16,700.0	12,550.0	16,687.5	12,656.8	80.3	81.2	-99.06	-3,951.9	377.2	672.2	512.7	159.54	4.214	
16,800.0	12,550.0	16,755.9	12,655.4	81.7	82.1	-98.90	-4,020.2	380.8	676.4	514.6	161.82	4.180	
16,900.0	12,550.0	16,842.9	12,654.0	83.1	83.4	-98.70	-4,106.9	388.1	683.8	519.4	164.38	4.160	
17,000.0	12,550.0	16,963.0	12,652.7	84.5	85.1	-98.48	-4,226.5	397.6	690.8	523.2	167.68	4.120	
17,100.0	12,550.0	17,135.9	12,650.2	85.9	87.5	-98.27	-4,399.3	398.4	690.2	519.0	171.24	4.031	
17,200.0	12,550.0	17,217.1	12,649.4	87.3	88.6	-98.25	-4,480.5	396.1	686.6	512.6	174.00	3.946	
17,300.0	12,550.0	17,449.0	12,644.1	88.7	91.7	-98.25	-4,709.0	361.0	665.8	490.9	174.89	3.807	
17,400.0	12,550.0	17,495.9	12,643.0	90.1	92.4	-98.26	-4,755.1	352.8	647.6	468.6	178.99	3.618	
17,500.0	12,550.0	17,545.6	12,642.6	91.6	93.1	-98.28	-4,804.6	348.1	637.2	454.8	182.38	3.494	
17,600.0	12,550.0	17,608.0	12,642.7	93.0	94.0	-98.32	-4,867.0	347.1	634.5	449.4	185.12	3.427	
17,604.5	12,550.0	17,608.0	12,642.7	93.1	94.0	-98.32	-4,867.0	347.1	634.5	449.3	185.20	3.426	
17,700.0	12,550.0	17,700.0	12,642.5	94.5	95.3	-98.27	-4,950.8	349.8	636.7	448.7	187.95	3.387	
17,800.0	12,550.0	17,830.0	12,639.5	95.9	97.2	-98.06	-5,088.8	345.4	631.4	440.3	191.11	3.304	
17,869.4	12,550.0	17,873.2	12,638.5	97.0	97.8	-97.98	-5,131.9	344.9	630.0	437.0	192.99	3.264	
17,900.0	12,550.0	17,892.0	12,638.0	97.4	98.1	-97.94	-5,150.7	345.2	630.2	436.5	193.74	3.253	
18,000.0	12,550.0	17,957.5	12,636.9	98.9	99.1	-97.80	-5,216.1	348.8	634.8	438.9	195.96	3.240	
18,100.0	12,550.0	18,121.4	12,634.3	100.4	101.5	-97.51	-5,379.7	354.9	638.0	437.9	200.07	3.189	
18,200.0	12,550.0	18,226.2	12,633.3	101.8	103.0	-97.45	-5,484.5	352.8	635.3	432.3	203.05	3.129	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #223H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 156-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
18,300.0	12,550.0	18,342.5	12,632.8	103.3	104.7	-97.47	-5,600.7	348.1	630.5	424.5	205.96	3.061	
18,400.0	12,550.0	18,462.1	12,631.6	104.8	106.5	-97.47	-5,720.0	339.8	622.9	414.2	208.71	2.985	
18,500.0	12,550.0	18,529.2	12,630.4	106.3	107.5	-97.41	-5,787.0	336.0	616.4	404.5	211.91	2.909	
18,600.0	12,550.0	18,613.0	12,628.6	107.8	108.7	-97.26	-5,870.7	335.0	614.2	399.4	214.87	2.859	
18,700.0	12,550.0	18,708.2	12,626.5	109.3	110.1	-97.07	-5,965.9	335.1	613.4	395.5	217.90	2.815	
18,800.0	12,550.0	18,853.6	12,625.1	110.8	112.3	-97.00	-6,111.3	331.2	610.3	389.4	220.87	2.763	
18,900.0	12,550.0	18,964.1	12,622.7	112.3	113.9	-96.89	-6,221.2	321.3	600.4	376.7	223.71	2.684	
19,000.0	12,550.0	19,041.5	12,621.2	113.9	115.1	-96.82	-6,298.4	315.7	592.4	365.4	227.02	2.610	
19,100.0	12,550.0	19,110.9	12,620.2	115.4	116.1	-96.74	-6,367.8	313.9	589.0	359.0	230.03	2.561	
19,200.0	12,550.0	19,211.5	12,619.3	116.9	117.7	-96.67	-6,468.4	314.2	588.6	355.5	233.10	2.525	
19,300.0	12,550.0	19,318.1	12,618.1	118.4	119.3	-96.57	-6,574.9	313.4	587.1	350.8	236.22	2.485	
19,400.0	12,550.0	19,415.8	12,616.2	120.0	120.8	-96.40	-6,672.6	312.2	585.0	345.7	239.31	2.445	
19,441.1	12,550.0	19,447.0	12,615.5	120.6	121.3	-96.33	-6,703.8	312.3	584.7	344.2	240.50	2.431	
19,500.0	12,550.0	19,491.8	12,614.2	121.5	121.9	-96.21	-6,748.6	313.2	585.4	343.3	242.11	2.418	
19,600.0	12,550.0	19,573.6	12,612.2	123.0	123.2	-95.97	-6,830.3	317.3	589.4	344.6	244.79	2.408	
19,700.0	12,550.0	19,678.8	12,610.3	124.6	124.8	-95.72	-6,935.2	324.1	595.0	346.9	248.11	2.398	
19,800.0	12,550.0	19,805.6	12,606.9	126.1	126.8	-95.37	-7,061.9	328.3	597.5	345.6	251.87	2.372	
19,900.0	12,550.0	19,913.5	12,604.7	127.7	128.5	-95.16	-7,169.8	329.2	597.5	342.4	255.10	2.342	
20,000.0	12,550.0	20,012.2	12,603.5	129.2	130.0	-95.06	-7,268.5	327.9	595.4	337.2	258.20	2.306	
20,023.1	12,550.0	20,029.5	12,603.4	129.6	130.3	-95.05	-7,285.8	327.9	595.3	336.4	258.86	2.300	
20,100.0	12,550.0	20,090.9	12,603.3	130.8	131.2	-95.03	-7,347.1	329.3	596.5	335.5	260.98	2.286	
20,200.0	12,550.0	20,185.0	12,601.7	132.3	132.7	-94.85	-7,441.1	333.1	599.7	335.7	264.01	2.272	
20,300.0	12,550.0	20,285.8	12,598.9	133.9	134.3	-94.56	-7,541.8	337.4	603.1	335.9	267.23	2.257	
20,400.0	12,550.0	20,379.6	12,597.0	135.5	135.7	-94.35	-7,635.5	341.8	606.9	336.7	270.24	2.246	
20,500.0	12,550.0	20,470.2	12,599.2	137.0	137.2	-94.52	-7,725.9	347.2	612.5	339.4	273.02	2.243	
20,600.0	12,550.0	20,567.8	12,600.4	138.6	138.7	-94.59	-7,823.3	352.9	617.8	341.7	276.05	2.238	
20,700.0	12,550.0	20,642.0	12,600.0	140.1	139.9	-94.51	-7,897.0	360.6	627.1	349.1	278.06	2.255	
20,800.0	12,550.0	20,880.2	12,597.2	141.7	143.6	-94.18	-8,134.0	372.3	637.6	355.0	282.61	2.256	
20,900.0	12,550.0	20,991.0	12,595.8	143.3	145.3	-94.16	-8,243.7	356.7	622.5	337.3	285.24	2.182	
21,000.0	12,550.0	21,061.4	12,595.7	144.9	146.4	-94.20	-8,313.8	350.1	612.3	323.0	289.28	2.117	
21,100.0	12,550.0	21,145.2	12,595.2	146.4	147.6	-94.19	-8,397.5	344.8	605.4	312.7	292.69	2.068	
21,200.0	12,550.0	21,236.2	12,593.9	148.0	149.1	-94.10	-8,488.4	341.0	600.4	304.5	295.93	2.029	
21,270.0	12,550.0	21,280.4	12,593.7	149.1	149.8	-94.09	-8,532.6	340.2	598.7	300.7	298.06	2.009	
21,300.0	12,550.0	21,306.0	12,593.9	149.6	150.2	-94.11	-8,558.1	340.7	599.1	300.2	298.94	2.004	
21,400.0	12,550.0	21,395.6	12,594.3	151.2	151.6	-94.13	-8,647.7	343.7	601.7	299.8	301.89	1.993	
21,500.0	12,550.0	21,513.5	12,592.3	152.7	153.4	-93.93	-8,765.6	345.4	602.3	296.9	305.40	1.972	
21,528.5	12,550.0	21,539.0	12,591.7	153.2	153.8	-93.87	-8,791.1	345.5	602.3	296.0	306.28	1.966	
21,600.0	12,550.0	21,602.8	12,590.6	154.3	154.8	-93.77	-8,854.8	346.4	602.7	294.3	308.45	1.954	
21,700.0	12,550.0	21,690.7	12,589.0	155.9	156.2	-93.60	-8,942.7	349.1	605.0	293.6	311.39	1.943	
21,800.0	12,550.0	21,784.6	12,587.2	157.5	157.7	-93.41	-9,036.4	353.5	608.9	294.5	314.43	1.937	
21,900.0	12,550.0	21,930.7	12,584.6	159.1	160.0	-93.17	-9,182.5	355.2	609.3	291.0	318.30	1.914	
22,000.0	12,550.0	22,049.5	12,582.9	160.7	161.9	-93.04	-9,301.1	349.8	603.9	282.7	321.26	1.880	
22,100.0	12,550.0	22,136.0	12,582.0	162.2	163.3	-92.97	-9,387.6	345.5	598.4	273.8	324.62	1.843	
22,200.0	12,550.0	22,219.8	12,581.2	163.8	164.6	-92.91	-9,471.3	343.8	595.6	267.8	327.83	1.817	
22,300.0	12,550.0	22,321.9	12,582.2	165.4	166.2	-93.01	-9,573.4	343.3	594.6	263.6	330.98	1.796	
22,400.0	12,550.0	22,426.1	12,582.4	167.0	167.8	-93.04	-9,677.6	341.5	592.2	258.0	334.15	1.772	
22,500.0	12,550.0	22,537.2	12,582.7	168.6	169.6	-93.09	-9,788.6	338.5	588.9	251.6	337.24	1.746	
22,600.0	12,550.0	22,647.4	12,582.5	170.2	171.3	-93.10	-9,898.7	333.2	583.4	243.2	340.23	1.715	
22,700.0	12,550.0	22,745.2	12,582.9	171.8	172.8	-93.18	-9,996.3	328.0	577.5	234.1	343.41	1.682	
22,727.5	12,550.0	22,764.0	12,583.1	172.2	173.1	-93.20	-10,015.1	327.0	576.0	231.5	344.41	1.672	SF

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #243H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
0.0	0.0	1.0	-1.0	0.0	0.0	89.59	0.4	60.0	60.0				
100.0	100.0	101.0	99.0	0.1	0.1	89.59	0.4	60.0	60.0	59.8	0.26	230.941	
200.0	200.0	201.0	199.0	0.5	0.5	89.59	0.4	60.0	60.0	59.0	0.98	61.443	
300.0	300.0	301.0	299.0	0.8	0.8	89.59	0.4	60.0	60.0	58.3	1.69	35.435	
400.0	400.0	401.0	399.0	1.2	1.2	89.59	0.4	60.0	60.0	57.6	2.41	24.897	
500.0	500.0	501.0	499.0	1.6	1.6	89.59	0.4	60.0	60.0	56.9	3.13	19.190	
600.0	600.0	601.0	599.0	1.9	1.9	89.59	0.4	60.0	60.0	56.2	3.84	15.611	
700.0	700.0	701.0	699.0	2.3	2.3	89.59	0.4	60.0	60.0	55.5	4.56	13.158	
800.0	800.0	801.0	799.0	2.6	2.6	89.59	0.4	60.0	60.0	54.7	5.28	11.371	
900.0	900.0	901.0	899.0	3.0	3.0	89.59	0.4	60.0	60.0	54.0	6.00	10.011	
1,002.0	1,002.0	1,001.0	1,001.0	3.4	3.4	89.59	0.4	60.0	60.0	53.3	6.72	8.932	CC
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	129.24	0.4	60.0	60.5	53.1	7.43	8.152	ES
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	131.07	0.4	60.0	62.2	54.1	8.14	7.642	
1,300.0	1,299.9	1,301.1	1,298.9	4.4	4.4	133.92	0.4	60.0	65.1	56.3	8.86	7.356	
1,400.0	1,399.7	1,401.3	1,398.7	4.8	4.8	137.50	0.4	60.0	69.5	59.9	9.57	7.261	
1,500.0	1,499.4	1,501.6	1,498.4	5.1	5.2	141.47	0.4	60.0	75.4	65.2	10.29	7.333	
1,600.0	1,598.9	1,602.1	1,597.9	5.5	5.5	145.52	0.4	60.0	83.1	72.1	11.01	7.553	
1,700.0	1,698.3	1,702.7	1,697.3	5.9	5.9	149.42	0.4	60.0	92.7	80.9	11.73	7.903	
1,800.0	1,797.4	1,803.6	1,796.4	6.3	6.2	153.01	0.4	60.0	104.1	91.7	12.45	8.363	
1,900.0	1,896.3	1,904.7	1,895.3	6.6	6.6	156.21	0.4	60.0	117.5	104.3	13.17	8.918	
2,000.0	1,995.0	1,994.0	1,994.0	7.0	6.9	159.02	0.4	60.0	132.7	118.9	13.85	9.582	
2,100.0	2,093.3	2,090.3	2,090.3	7.4	7.3	161.26	0.4	60.7	150.5	135.9	14.55	10.345	
2,202.0	2,193.2	2,187.6	2,187.6	7.9	7.6	162.89	0.4	63.1	171.9	156.6	15.24	11.278	
2,300.0	2,289.1	2,282.7	2,282.6	8.3	7.9	164.09	0.4	66.4	194.2	178.3	15.92	12.198	
2,400.0	2,386.9	2,380.0	2,379.8	8.7	8.3	165.06	0.4	69.8	217.0	200.4	16.62	13.061	
2,500.0	2,484.7	2,477.3	2,477.1	9.2	8.6	165.84	0.4	73.2	239.9	222.6	17.32	13.855	
2,600.0	2,582.5	2,574.6	2,574.3	9.6	8.9	166.49	0.4	76.6	262.8	244.8	18.02	14.587	
2,700.0	2,680.4	2,671.9	2,671.5	10.0	9.3	167.04	0.4	80.0	285.8	267.1	18.72	15.264	
2,800.0	2,778.2	2,772.2	2,771.8	10.5	9.6	167.57	0.4	83.0	308.4	289.0	19.45	15.857	
2,900.0	2,876.0	2,874.2	2,873.8	11.0	10.0	168.23	0.4	84.4	329.8	309.6	20.19	16.333	
3,000.0	2,973.8	2,973.2	2,972.8	11.4	10.3	168.92	0.4	84.4	350.2	329.3	20.91	16.745	
3,100.0	3,071.6	3,071.0	3,070.6	11.9	10.7	169.54	0.4	84.4	370.7	349.0	21.63	17.134	
3,200.0	3,169.4	3,168.8	3,168.4	12.3	11.0	170.09	0.4	84.4	391.1	368.8	22.35	17.498	
3,300.0	3,267.3	3,266.6	3,266.3	12.8	11.4	170.59	0.4	84.4	411.7	388.6	23.07	17.841	
3,400.0	3,365.1	3,364.5	3,364.1	13.3	11.7	171.04	0.4	84.4	432.2	408.4	23.79	18.164	
3,500.0	3,462.9	3,462.3	3,461.9	13.7	12.1	171.45	0.4	84.4	452.7	428.2	24.52	18.468	
3,579.9	3,541.0	3,540.4	3,540.0	14.1	12.4	171.75	0.4	84.4	469.2	444.1	25.09	18.699	
3,600.0	3,560.7	3,560.1	3,559.7	14.2	12.4	171.83	0.4	84.4	473.3	448.0	25.24	18.753	
3,700.0	3,658.9	3,658.3	3,657.9	14.6	12.8	172.19	0.4	84.4	492.1	466.1	25.96	18.957	
3,800.0	3,757.5	3,756.9	3,756.5	15.1	13.1	172.47	0.4	84.4	508.4	481.7	26.68	19.055	
3,900.0	3,856.6	3,855.9	3,855.6	15.5	13.5	172.70	0.4	84.4	522.1	494.7	27.40	19.054	
4,000.0	3,955.9	3,955.3	3,954.9	15.9	13.8	172.87	0.4	84.4	533.2	505.1	28.12	18.964	
4,100.0	4,055.6	4,054.9	4,054.6	16.3	14.2	173.00	0.4	84.4	541.8	512.9	28.83	18.790	
4,200.0	4,155.4	4,154.8	4,154.4	16.6	14.6	173.09	0.4	84.4	547.7	518.2	29.55	18.538	
4,300.0	4,255.3	4,254.7	4,254.3	17.0	14.9	173.13	0.4	84.4	551.1	520.9	30.26	18.215	
4,379.9	4,335.2	4,334.6	4,334.2	17.2	15.2	134.11	0.4	84.4	552.0	521.1	30.82	17.909	
4,400.0	4,355.3	4,354.7	4,354.3	17.3	15.3	134.11	0.4	84.4	552.0	521.0	30.96	17.828	
4,500.0	4,455.3	4,454.7	4,454.3	17.6	15.6	134.11	0.4	84.4	552.0	520.3	31.66	17.432	
4,600.0	4,555.3	4,554.7	4,554.3	17.9	16.0	134.11	0.4	84.4	552.0	519.6	32.37	17.054	
4,700.0	4,655.3	4,654.7	4,654.3	18.2	16.3	134.11	0.4	84.4	552.0	518.9	33.07	16.691	
4,800.0	4,755.3	4,754.7	4,754.3	18.6	16.7	134.11	0.4	84.4	552.0	518.2	33.77	16.343	
4,900.0	4,855.3	4,854.7	4,854.3	18.9	17.1	134.11	0.4	84.4	552.0	517.5	34.48	16.009	

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

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #243H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
5,000.0	4,955.3	4,954.7	4,954.3	19.2	17.4	134.11	0.4	84.4	552.0	516.8	35.18	15.688	
5,100.0	5,055.3	5,054.7	5,054.3	19.5	17.8	134.11	0.4	84.4	552.0	516.1	35.89	15.380	
5,200.0	5,155.3	5,154.7	5,154.3	19.9	18.1	134.11	0.4	84.4	552.0	515.4	36.59	15.083	
5,300.0	5,255.3	5,254.7	5,254.3	20.2	18.5	134.11	0.4	84.4	552.0	514.7	37.30	14.797	
5,400.0	5,355.3	5,354.7	5,354.3	20.5	18.8	134.11	0.4	84.4	552.0	513.9	38.01	14.522	
5,500.0	5,455.3	5,454.7	5,454.3	20.8	19.2	134.11	0.4	84.4	552.0	513.2	38.72	14.257	
5,600.0	5,555.3	5,554.7	5,554.3	21.2	19.6	134.11	0.4	84.4	552.0	512.5	39.42	14.001	
5,700.0	5,655.3	5,654.7	5,654.3	21.5	19.9	134.11	0.4	84.4	552.0	511.8	40.13	13.754	
5,800.0	5,755.3	5,754.7	5,754.3	21.8	20.3	134.11	0.4	84.4	552.0	511.1	40.84	13.515	
5,900.0	5,855.3	5,854.7	5,854.3	22.2	20.6	134.11	0.4	84.4	552.0	510.4	41.55	13.285	
6,000.0	5,955.3	5,954.7	5,954.3	22.5	21.0	134.11	0.4	84.4	552.0	509.7	42.26	13.062	
6,100.0	6,055.3	6,054.7	6,054.3	22.8	21.4	134.11	0.4	84.4	552.0	509.0	42.97	12.847	
6,200.0	6,155.3	6,154.7	6,154.3	23.2	21.7	134.11	0.4	84.4	552.0	508.3	43.67	12.638	
6,300.0	6,255.3	6,254.7	6,254.3	23.5	22.1	134.11	0.4	84.4	552.0	507.6	44.38	12.436	
6,400.0	6,355.3	6,354.7	6,354.3	23.9	22.4	134.11	0.4	84.4	552.0	506.9	45.09	12.240	
6,500.0	6,455.3	6,454.7	6,454.3	24.2	22.8	134.11	0.4	84.4	552.0	506.2	45.80	12.050	
6,600.0	6,555.3	6,554.7	6,554.3	24.5	23.1	134.11	0.4	84.4	552.0	505.4	46.51	11.866	
6,700.0	6,655.3	6,654.7	6,654.3	24.9	23.5	134.11	0.4	84.4	552.0	504.7	47.22	11.688	
6,800.0	6,755.3	6,754.7	6,754.3	25.2	23.9	134.11	0.4	84.4	552.0	504.0	47.94	11.515	
6,900.0	6,855.3	6,854.7	6,854.3	25.5	24.2	134.11	0.4	84.4	552.0	503.3	48.65	11.346	
7,000.0	6,955.3	6,954.7	6,954.3	25.9	24.6	134.11	0.4	84.4	552.0	502.6	49.36	11.183	
7,100.0	7,055.3	7,054.7	7,054.3	26.2	24.9	134.11	0.4	84.4	552.0	501.9	50.07	11.024	
7,200.0	7,155.3	7,154.7	7,154.3	26.6	25.3	134.11	0.4	84.4	552.0	501.2	50.78	10.870	
7,300.0	7,255.3	7,254.7	7,254.3	26.9	25.7	134.11	0.4	84.4	552.0	500.5	51.49	10.720	
7,400.0	7,355.3	7,354.7	7,354.3	27.2	26.0	134.11	0.4	84.4	552.0	499.8	52.20	10.573	
7,500.0	7,455.3	7,454.7	7,454.3	27.6	26.4	134.11	0.4	84.4	552.0	499.0	52.91	10.431	
7,600.0	7,555.3	7,554.7	7,554.3	27.9	26.7	134.11	0.4	84.4	552.0	498.3	53.63	10.293	
7,700.0	7,655.3	7,654.7	7,654.3	28.3	27.1	134.11	0.4	84.4	552.0	497.6	54.34	10.158	
7,800.0	7,755.3	7,754.7	7,754.3	28.6	27.4	134.11	0.4	84.4	552.0	496.9	55.05	10.026	
7,900.0	7,855.3	7,854.7	7,854.3	29.0	27.8	134.11	0.4	84.4	552.0	496.2	55.76	9.898	
8,000.0	7,955.3	7,954.7	7,954.3	29.3	28.2	134.11	0.4	84.4	552.0	495.5	56.47	9.773	
8,100.0	8,055.3	8,054.7	8,054.3	29.7	28.5	134.11	0.4	84.4	552.0	494.8	57.19	9.652	
8,200.0	8,155.3	8,154.7	8,154.3	30.0	28.9	134.11	0.4	84.4	552.0	494.1	57.90	9.533	
8,300.0	8,255.3	8,254.7	8,254.3	30.3	29.2	134.11	0.4	84.4	552.0	493.3	58.61	9.417	
8,400.0	8,355.3	8,354.7	8,354.3	30.7	29.6	134.11	0.4	84.4	552.0	492.6	59.33	9.304	
8,500.0	8,455.3	8,454.7	8,454.3	31.0	30.0	134.11	0.4	84.4	552.0	491.9	60.04	9.193	
8,600.0	8,555.3	8,554.7	8,554.3	31.4	30.3	134.11	0.4	84.4	552.0	491.2	60.75	9.085	
8,700.0	8,655.3	8,654.7	8,654.3	31.7	30.7	134.11	0.4	84.4	552.0	490.5	61.46	8.980	
8,800.0	8,755.3	8,754.7	8,754.3	32.1	31.0	134.11	0.4	84.4	552.0	489.8	62.18	8.877	
8,900.0	8,855.3	8,854.7	8,854.3	32.4	31.4	134.11	0.4	84.4	552.0	489.1	62.89	8.776	
9,000.0	8,955.3	8,954.7	8,954.3	32.8	31.7	134.11	0.4	84.4	552.0	488.4	63.60	8.678	
9,100.0	9,055.3	9,054.7	9,054.3	33.1	32.1	134.11	0.4	84.4	552.0	487.6	64.32	8.582	
9,200.0	9,155.3	9,154.7	9,154.3	33.5	32.5	134.11	0.4	84.4	552.0	486.9	65.03	8.488	
9,300.0	9,255.3	9,254.7	9,254.3	33.8	32.8	134.11	0.4	84.4	552.0	486.2	65.74	8.395	
9,400.0	9,355.3	9,354.7	9,354.3	34.2	33.2	134.11	0.4	84.4	552.0	485.5	66.46	8.305	
9,500.0	9,455.3	9,454.7	9,454.3	34.5	33.5	134.11	0.4	84.4	552.0	484.8	67.17	8.217	
9,600.0	9,555.3	9,554.7	9,554.3	34.9	33.9	134.11	0.4	84.4	552.0	484.1	67.89	8.131	
9,700.0	9,655.3	9,654.7	9,654.3	35.2	34.3	134.11	0.4	84.4	552.0	483.4	68.60	8.046	
9,800.0	9,755.3	9,754.7	9,754.3	35.5	34.6	134.11	0.4	84.4	552.0	482.6	69.31	7.963	
9,900.0	9,855.3	9,854.7	9,854.3	35.9	35.0	134.11	0.4	84.4	552.0	481.9	70.03	7.882	
10,000.0	9,955.3	9,955.1	9,954.7	36.2	35.3	134.10	0.5	84.5	551.9	481.2	70.74	7.802	
10,100.0	10,055.3	10,056.4	10,056.0	36.6	35.7	133.95	1.7	85.4	551.7	480.3	71.46	7.721	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #243H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
10,200.0	10,155.3	10,157.6	10,157.2	36.9	36.0	133.61	4.3	87.3	551.3	479.1	72.18	7.638	
10,300.0	10,255.3	10,258.7	10,258.1	37.3	36.4	133.09	8.4	90.3	550.7	477.8	72.90	7.554	
10,400.0	10,355.3	10,359.6	10,358.8	37.6	36.8	132.39	13.9	94.3	549.9	476.3	73.62	7.470	
10,500.0	10,455.3	10,460.2	10,459.0	38.0	37.1	131.50	20.8	99.4	549.1	474.8	74.33	7.387	
10,600.0	10,555.3	10,560.5	10,558.8	38.3	37.5	130.43	29.0	105.4	548.3	473.2	75.05	7.305	
10,700.0	10,655.3	10,660.3	10,657.9	38.7	37.8	129.19	38.7	112.5	547.5	471.8	75.76	7.227	
10,800.0	10,755.3	10,759.8	10,756.4	39.0	38.2	127.76	49.7	120.6	547.0	470.5	76.47	7.153	
10,893.5	10,848.8	10,852.3	10,847.8	39.4	38.5	126.27	61.1	129.0	546.8	469.7	77.14	7.088	
10,900.0	10,855.3	10,858.7	10,854.1	39.4	38.5	126.16	62.0	129.6	546.8	469.6	77.18	7.084	
11,000.0	10,955.3	10,957.0	10,951.0	39.7	38.9	124.40	75.5	139.6	547.1	469.2	77.89	7.024	
11,100.0	11,055.3	11,054.8	11,047.0	40.1	39.3	122.48	90.4	150.4	548.0	469.4	78.59	6.973	
11,200.0	11,155.3	11,152.2	11,142.4	40.4	39.6	120.41	106.4	162.2	549.8	470.5	79.29	6.934	
11,300.0	11,255.3	11,250.0	11,238.1	40.8	40.0	118.31	122.8	174.2	552.3	472.4	80.00	6.905	
11,400.0	11,355.3	11,347.8	11,333.7	41.2	40.3	116.23	139.2	186.2	555.7	475.0	80.70	6.886	
11,500.0	11,455.3	11,445.6	11,429.4	41.5	40.7	114.18	155.5	198.3	559.7	478.3	81.40	6.877	
11,600.0	11,555.3	11,543.4	11,525.1	41.9	41.1	112.16	171.9	210.3	564.6	482.5	82.10	6.876	
11,700.0	11,655.3	11,641.2	11,620.8	42.2	41.4	110.17	188.3	222.3	570.1	487.3	82.80	6.885	
11,800.0	11,755.3	11,739.1	11,716.4	42.6	41.8	108.23	204.7	234.4	576.3	492.8	83.50	6.902	
11,900.0	11,855.3	11,836.9	11,812.1	42.9	42.2	106.32	221.1	246.4	583.2	499.0	84.20	6.926	
12,000.0	11,955.3	11,934.7	11,907.8	43.3	42.5	104.46	237.5	258.4	590.8	505.9	84.90	6.958	
12,021.7	11,977.0	11,955.9	11,928.6	43.3	42.6	104.07	241.1	261.0	592.5	507.4	85.05	6.966	
12,050.0	12,005.3	11,983.5	11,955.5	43.4	42.7	-76.20	245.7	264.4	594.6	509.4	85.24	6.976	
12,100.0	12,055.1	12,031.4	12,002.4	43.6	42.9	-77.18	253.7	270.3	597.8	512.2	85.56	6.987	
12,150.0	12,104.2	12,078.0	12,047.9	43.7	43.1	-78.52	261.5	276.1	600.4	514.6	85.85	6.993	
12,200.0	12,152.4	12,122.9	12,091.9	43.9	43.3	-80.15	269.1	281.6	602.8	516.7	86.12	7.000	
12,250.0	12,199.3	12,165.8	12,133.9	44.0	43.4	-81.97	276.3	286.9	605.4	519.1	86.37	7.010	
12,300.0	12,244.5	12,206.5	12,173.6	44.1	43.6	-83.88	283.1	291.9	608.6	522.1	86.59	7.029	
12,350.0	12,287.6	12,244.4	12,210.8	44.2	43.7	-85.76	289.5	296.5	612.9	526.2	86.78	7.064	
12,400.0	12,328.4	12,279.5	12,245.1	44.3	43.9	-87.50	295.3	300.8	618.8	531.8	86.94	7.118	
12,450.0	12,366.5	12,311.3	12,276.2	44.3	44.0	-88.98	300.7	304.8	626.6	539.5	87.07	7.196	
12,500.0	12,401.7	12,339.8	12,304.0	44.4	44.1	-90.08	305.4	308.3	636.7	549.5	87.18	7.303	
12,550.0	12,433.6	12,364.5	12,328.2	44.4	44.2	-90.73	309.6	311.3	649.4	562.1	87.26	7.442	
12,600.0	12,462.0	12,385.5	12,348.7	44.5	44.3	-90.82	313.1	313.9	664.9	577.6	87.32	7.614	
12,650.0	12,486.7	12,404.1	12,367.0	44.5	44.4	-90.43	316.2	316.2	683.2	595.8	87.40	7.817	
12,700.0	12,507.6	12,419.5	12,382.1	44.5	44.4	-89.46	318.7	318.0	704.3	616.8	87.48	8.051	
12,750.0	12,524.4	12,430.2	12,392.6	44.6	44.5	-87.72	320.5	319.3	728.0	640.4	87.53	8.316	
12,800.0	12,537.1	12,436.0	12,398.2	44.6	44.5	-85.20	321.4	320.0	754.0	666.4	87.55	8.611	
12,850.0	12,545.5	12,436.5	12,398.7	44.6	44.5	-81.89	321.5	320.0	782.0	694.4	87.54	8.933	
12,900.0	12,549.5	12,431.6	12,393.9	44.7	44.5	-77.83	320.7	319.4	811.6	724.1	87.49	9.276	
12,921.7	12,550.0	12,427.7	12,390.1	44.7	44.4	-75.86	320.1	319.0	824.9	737.4	87.46	9.431	
12,935.2	12,550.0	12,425.0	12,387.4	44.8	44.4	-75.68	319.6	318.7	833.2	745.8	87.44	9.529	
13,000.0	12,550.0	12,411.6	12,374.3	44.9	44.4	-74.53	317.4	317.1	874.8	787.5	87.34	10.017	
13,100.0	12,550.0	12,390.7	12,353.8	45.1	44.3	-72.76	314.0	314.5	943.9	856.7	87.22	10.822	
13,200.0	12,550.0	12,374.0	12,337.5	45.4	44.2	-71.35	311.2	312.5	1,017.8	930.6	87.20	11.672	
13,300.0	12,550.0	12,357.3	12,321.2	45.8	44.2	-69.96	308.4	310.4	1,095.7	1,008.5	87.20	12.564	
13,400.0	12,550.0	12,340.6	12,304.9	46.2	44.1	-68.59	305.6	308.4	1,176.6	1,089.4	87.21	13.491	
13,500.0	12,550.0	12,324.0	12,288.6	46.7	44.0	-67.23	302.8	306.3	1,260.1	1,172.8	87.22	14.446	
13,600.0	12,550.0	14,768.0	13,723.0	47.2	50.9	-153.03	-862.9	290.9	1,317.2	1,254.6	62.63	21.032	
13,700.0	12,550.0	14,868.0	13,723.0	47.8	51.5	-153.03	-962.9	291.5	1,317.2	1,253.9	63.37	20.785	
13,800.0	12,550.0	14,968.0	13,723.0	48.4	52.0	-153.03	-1,062.9	292.1	1,317.2	1,253.0	64.18	20.525	
13,900.0	12,550.0	15,068.0	13,723.0	49.1	52.6	-153.03	-1,162.9	292.7	1,317.2	1,252.2	65.03	20.255	
14,000.0	12,550.0	15,168.0	13,723.0	49.8	53.3	-153.03	-1,262.9	293.3	1,317.2	1,251.3	65.94	19.976	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Offset Design Boros - Boros Federal #243H - Wellbore #1 - BLM Plan #2

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 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)	Highside Toolface (°)	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
14,100.0	12,550.0	15,268.0	13,723.0	50.6	54.0	-153.04	-1,362.9	294.0	1,317.2	1,250.3	66.90	19.689	
14,200.0	12,550.0	15,368.0	13,723.0	51.4	54.7	-153.04	-1,462.9	294.6	1,317.2	1,249.3	67.91	19.397	
14,300.0	12,550.0	15,468.0	13,723.0	52.2	55.5	-153.04	-1,562.9	295.2	1,317.2	1,248.2	68.96	19.101	
14,400.0	12,550.0	15,568.0	13,723.0	53.1	56.3	-153.04	-1,662.9	295.8	1,317.2	1,247.1	70.06	18.801	
14,500.0	12,550.0	15,668.0	13,723.0	54.0	57.2	-153.04	-1,762.9	296.5	1,317.2	1,246.0	71.20	18.500	
14,600.0	12,550.0	15,768.0	13,723.0	54.9	58.1	-153.04	-1,862.9	297.1	1,317.1	1,244.8	72.37	18.199	
14,700.0	12,550.0	15,868.0	13,723.0	55.9	59.0	-153.04	-1,962.9	297.7	1,317.1	1,243.5	73.59	17.898	
14,800.0	12,550.0	15,968.0	13,723.0	56.9	59.9	-153.04	-2,062.9	298.3	1,317.1	1,242.3	74.84	17.598	
14,900.0	12,550.0	16,068.0	13,723.0	58.0	60.9	-153.04	-2,162.9	299.0	1,317.1	1,241.0	76.13	17.300	
15,000.0	12,550.0	16,168.0	13,723.0	59.0	61.9	-153.04	-2,262.9	299.6	1,317.1	1,239.7	77.45	17.005	
15,100.0	12,550.0	16,268.0	13,723.0	60.1	63.0	-153.04	-2,362.9	300.2	1,317.1	1,238.3	78.80	16.714	
15,200.0	12,550.0	16,368.0	13,723.0	61.3	64.0	-153.04	-2,462.9	300.8	1,317.1	1,236.9	80.18	16.426	
15,300.0	12,550.0	16,468.0	13,723.0	62.4	65.1	-153.05	-2,562.9	301.5	1,317.1	1,235.5	81.59	16.142	
15,400.0	12,550.0	16,568.0	13,723.0	63.6	66.2	-153.05	-2,662.9	302.1	1,317.1	1,234.0	83.03	15.863	
15,500.0	12,550.0	16,668.0	13,723.0	64.8	67.3	-153.05	-2,762.9	302.7	1,317.1	1,232.6	84.49	15.588	
15,600.0	12,550.0	16,768.0	13,723.0	66.0	68.5	-153.05	-2,862.9	303.3	1,317.0	1,231.1	85.97	15.319	
15,700.0	12,550.0	16,868.0	13,723.0	67.2	69.7	-153.05	-2,962.9	303.9	1,317.0	1,229.6	87.48	15.055	
15,800.0	12,550.0	16,968.0	13,723.0	68.4	70.9	-153.05	-3,062.9	304.6	1,317.0	1,228.0	89.01	14.797	
15,900.0	12,550.0	17,068.0	13,723.0	69.7	72.1	-153.05	-3,162.9	305.2	1,317.0	1,226.5	90.56	14.543	
16,000.0	12,550.0	17,168.0	13,723.0	71.0	73.3	-153.05	-3,262.9	305.8	1,317.0	1,224.9	92.13	14.296	
16,100.0	12,550.0	17,268.0	13,723.0	72.3	74.5	-153.05	-3,362.8	306.4	1,317.0	1,223.3	93.71	14.053	
16,200.0	12,550.0	17,368.0	13,723.0	73.6	75.8	-153.05	-3,462.8	307.1	1,317.0	1,221.7	95.32	13.817	
16,300.0	12,550.0	17,468.0	13,723.0	74.9	77.1	-153.05	-3,562.8	307.7	1,317.0	1,220.0	96.94	13.586	
16,400.0	12,550.0	17,568.0	13,723.0	76.2	78.4	-153.06	-3,662.8	308.3	1,317.0	1,218.4	98.58	13.360	
16,500.0	12,550.0	17,668.0	13,723.0	77.6	79.7	-153.06	-3,762.8	308.9	1,317.0	1,216.7	100.23	13.140	
16,600.0	12,550.0	17,768.0	13,723.0	78.9	81.0	-153.06	-3,862.8	309.6	1,316.9	1,215.1	101.89	12.925	
16,700.0	12,550.0	17,868.0	13,723.0	80.3	82.3	-153.06	-3,962.8	310.2	1,316.9	1,213.4	103.57	12.715	
16,800.0	12,550.0	17,968.0	13,723.0	81.7	83.7	-153.06	-4,062.8	310.8	1,316.9	1,211.7	105.27	12.510	
16,900.0	12,550.0	18,068.0	13,723.0	83.1	85.0	-153.06	-4,162.8	311.4	1,316.9	1,209.9	106.97	12.311	
17,000.0	12,550.0	18,168.0	13,723.0	84.5	86.4	-153.06	-4,262.8	312.1	1,316.9	1,208.2	108.69	12.116	
17,100.0	12,550.0	18,268.0	13,723.0	85.9	87.7	-153.06	-4,362.8	312.7	1,316.9	1,206.5	110.42	11.927	
17,200.0	12,550.0	18,368.0	13,723.0	87.3	89.1	-153.06	-4,462.8	313.3	1,316.9	1,204.7	112.16	11.742	
17,300.0	12,550.0	18,468.0	13,723.0	88.7	90.5	-153.06	-4,562.8	313.9	1,316.9	1,203.0	113.90	11.561	
17,400.0	12,550.0	18,568.0	13,723.0	90.1	91.9	-153.06	-4,662.8	314.5	1,316.9	1,201.2	115.66	11.385	
17,500.0	12,550.0	18,668.0	13,723.0	91.6	93.3	-153.06	-4,762.8	315.2	1,316.9	1,199.4	117.43	11.214	
17,600.0	12,550.0	18,768.0	13,723.0	93.0	94.7	-153.07	-4,862.8	315.8	1,316.8	1,197.6	119.21	11.047	
17,700.0	12,550.0	18,868.0	13,723.0	94.5	96.1	-153.07	-4,962.8	316.4	1,316.8	1,195.8	120.99	10.884	
17,800.0	12,550.0	18,968.0	13,723.0	95.9	97.6	-153.07	-5,062.8	317.0	1,316.8	1,194.0	122.79	10.724	
17,900.0	12,550.0	19,068.0	13,723.0	97.4	99.0	-153.07	-5,162.8	317.7	1,316.8	1,192.2	124.59	10.569	
18,000.0	12,550.0	19,168.0	13,723.0	98.9	100.5	-153.07	-5,262.8	318.3	1,316.8	1,190.4	126.40	10.418	
18,100.0	12,550.0	19,268.0	13,723.0	100.4	101.9	-153.07	-5,362.8	318.9	1,316.8	1,188.6	128.21	10.270	
18,200.0	12,550.0	19,368.0	13,723.0	101.8	103.4	-153.07	-5,462.8	319.5	1,316.8	1,186.8	130.04	10.126	
18,300.0	12,550.0	19,468.0	13,723.0	103.3	104.8	-153.07	-5,562.8	320.2	1,316.8	1,184.9	131.86	9.986	
18,400.0	12,550.0	19,568.0	13,723.0	104.8	106.3	-153.07	-5,662.8	320.8	1,316.8	1,183.1	133.70	9.849	
18,500.0	12,550.0	19,668.0	13,723.0	106.3	107.8	-153.07	-5,762.8	321.4	1,316.8	1,181.2	135.54	9.715	
18,600.0	12,550.0	19,768.0	13,723.0	107.8	109.2	-153.07	-5,862.8	322.0	1,316.8	1,179.4	137.39	9.584	
18,700.0	12,550.0	19,868.0	13,723.0	109.3	110.7	-153.07	-5,962.8	322.6	1,316.7	1,177.5	139.24	9.457	
18,800.0	12,550.0	19,968.0	13,723.0	110.8	112.2	-153.08	-6,062.8	323.3	1,316.7	1,175.6	141.10	9.332	
18,900.0	12,550.0	20,068.0	13,723.0	112.3	113.7	-153.08	-6,162.8	323.9	1,316.7	1,173.8	142.96	9.210	
19,000.0	12,550.0	20,168.0	13,723.0	113.9	115.2	-153.08	-6,262.8	324.5	1,316.7	1,171.9	144.83	9.091	
19,100.0	12,550.0	20,268.0	13,723.0	115.4	116.7	-153.08	-6,362.8	325.1	1,316.7	1,170.0	146.70	8.975	
19,200.0	12,550.0	20,368.0	13,723.0	116.9	118.2	-153.08	-6,462.8	325.8	1,316.7	1,168.1	148.58	8.862	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

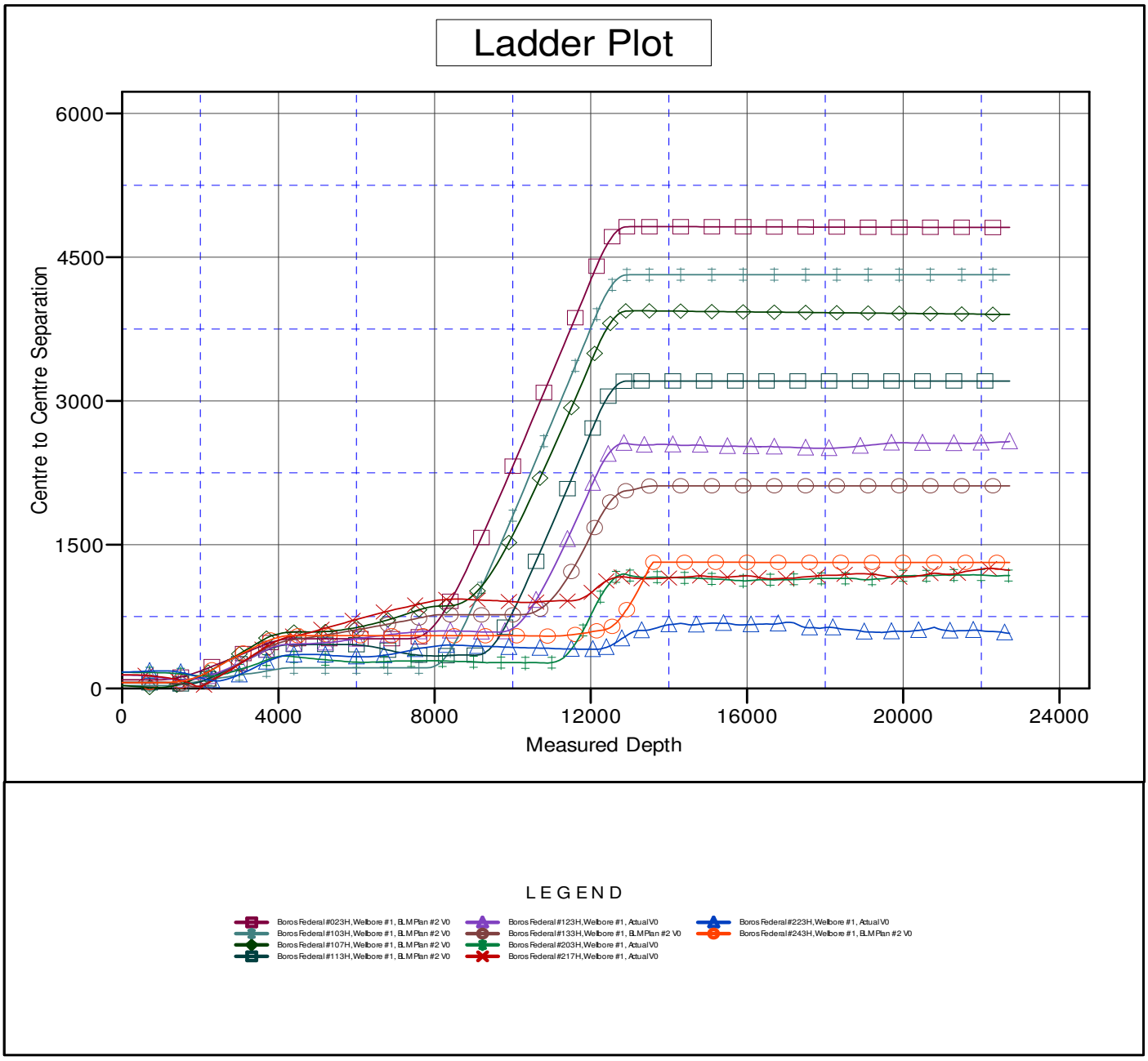
Offset Design Boros - Boros Federal #243H - Wellbore #1 - BLM Plan #2 — **Offset Site Error:** 0.0 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 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)	Highside Toolface (°)	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
19,300.0	12,550.0	20,468.0	13,723.0	118.4	119.7	-153.08	-6,562.8	326.4	1,316.7	1,166.2	150.46	8.751	
19,400.0	12,550.0	20,568.0	13,723.0	120.0	121.2	-153.08	-6,662.8	327.0	1,316.7	1,164.3	152.35	8.642	
19,500.0	12,550.0	20,668.0	13,723.0	121.5	122.7	-153.08	-6,762.8	327.6	1,316.7	1,162.4	154.24	8.537	
19,600.0	12,550.0	20,768.0	13,723.0	123.0	124.2	-153.08	-6,862.8	328.3	1,316.7	1,160.5	156.13	8.433	
19,700.0	12,550.0	20,868.0	13,723.0	124.6	125.8	-153.08	-6,962.8	328.9	1,316.6	1,158.6	158.03	8.332	
19,800.0	12,550.0	20,968.0	13,723.0	126.1	127.3	-153.08	-7,062.8	329.5	1,316.6	1,156.7	159.93	8.232	
19,900.0	12,550.0	21,068.0	13,723.0	127.7	128.8	-153.08	-7,162.8	330.1	1,316.6	1,154.8	161.84	8.136	
20,000.0	12,550.0	21,168.0	13,723.0	129.2	130.4	-153.09	-7,262.8	330.8	1,316.6	1,152.9	163.74	8.041	
20,100.0	12,550.0	21,268.0	13,723.0	130.8	131.9	-153.09	-7,362.8	331.4	1,316.6	1,150.9	165.66	7.948	
20,200.0	12,550.0	21,368.0	13,723.0	132.3	133.4	-153.09	-7,462.8	332.0	1,316.6	1,149.0	167.57	7.857	
20,300.0	12,550.0	21,468.0	13,723.0	133.9	135.0	-153.09	-7,562.8	332.6	1,316.6	1,147.1	169.49	7.768	
20,400.0	12,550.0	21,568.0	13,723.0	135.5	136.5	-153.09	-7,662.8	333.2	1,316.6	1,145.2	171.41	7.681	
20,500.0	12,550.0	21,668.0	13,723.0	137.0	138.1	-153.09	-7,762.8	333.9	1,316.6	1,143.2	173.33	7.596	
20,600.0	12,550.0	21,768.0	13,723.0	138.6	139.6	-153.09	-7,862.8	334.5	1,316.6	1,141.3	175.26	7.512	
20,700.0	12,550.0	21,868.0	13,723.0	140.1	141.2	-153.09	-7,962.8	335.1	1,316.5	1,139.4	177.19	7.430	
20,800.0	12,550.0	21,968.0	13,723.0	141.7	142.7	-153.09	-8,062.8	335.7	1,316.5	1,137.4	179.12	7.350	
20,900.0	12,550.0	22,068.0	13,723.0	143.3	144.3	-153.09	-8,162.8	336.4	1,316.5	1,135.5	181.05	7.272	
21,000.0	12,550.0	22,168.0	13,723.0	144.9	145.8	-153.09	-8,262.8	337.0	1,316.5	1,133.5	182.99	7.195	
21,100.0	12,550.0	22,268.0	13,723.0	146.4	147.4	-153.09	-8,362.8	337.6	1,316.5	1,131.6	184.92	7.119	
21,200.0	12,550.0	22,368.0	13,723.0	148.0	148.9	-153.10	-8,462.7	338.2	1,316.5	1,129.6	186.86	7.045	
21,300.0	12,550.0	22,468.0	13,723.0	149.6	150.5	-153.10	-8,562.7	338.9	1,316.5	1,127.7	188.81	6.973	
21,400.0	12,550.0	22,568.0	13,723.0	151.2	152.1	-153.10	-8,662.7	339.5	1,316.5	1,125.7	190.75	6.902	
21,500.0	12,550.0	22,668.0	13,723.0	152.7	153.6	-153.10	-8,762.7	340.1	1,316.5	1,123.8	192.70	6.832	
21,600.0	12,550.0	22,768.0	13,723.0	154.3	155.2	-153.10	-8,862.7	340.7	1,316.5	1,121.8	194.65	6.763	
21,700.0	12,550.0	22,868.0	13,723.0	155.9	156.8	-153.10	-8,962.7	341.4	1,316.4	1,119.8	196.60	6.696	
21,800.0	12,550.0	22,968.0	13,723.0	157.5	158.3	-153.10	-9,062.7	342.0	1,316.4	1,117.9	198.55	6.630	
21,900.0	12,550.0	23,068.0	13,723.0	159.1	159.9	-153.10	-9,162.7	342.6	1,316.4	1,115.9	200.50	6.566	
22,000.0	12,550.0	23,168.0	13,723.0	160.7	161.5	-153.10	-9,262.7	343.2	1,316.4	1,114.0	202.46	6.502	
22,100.0	12,550.0	23,268.0	13,723.0	162.2	163.1	-153.10	-9,362.7	343.8	1,316.4	1,112.0	204.42	6.440	
22,200.0	12,550.0	23,368.0	13,723.0	163.8	164.6	-153.10	-9,462.7	344.5	1,316.4	1,110.0	206.38	6.379	
22,300.0	12,550.0	23,468.0	13,723.0	165.4	166.2	-153.10	-9,562.7	345.1	1,316.4	1,108.1	208.34	6.318	
22,400.0	12,550.0	23,568.0	13,723.0	167.0	167.8	-153.11	-9,662.7	345.7	1,316.4	1,106.1	210.30	6.259	
22,500.0	12,550.0	23,668.0	13,723.0	168.6	169.4	-153.11	-9,762.7	346.3	1,316.4	1,104.1	212.27	6.202	
22,600.0	12,550.0	23,768.0	13,723.0	170.2	171.0	-153.11	-9,862.7	347.0	1,316.4	1,102.1	214.23	6.145	
22,700.0	12,550.0	23,868.0	13,723.0	171.8	172.6	-153.11	-9,962.7	347.6	1,316.4	1,100.2	216.20	6.089	
22,727.5	12,550.0	23,895.5	13,723.0	172.2	173.0	-153.11	-9,990.2	347.8	1,316.3	1,099.6	216.74	6.073	SF

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

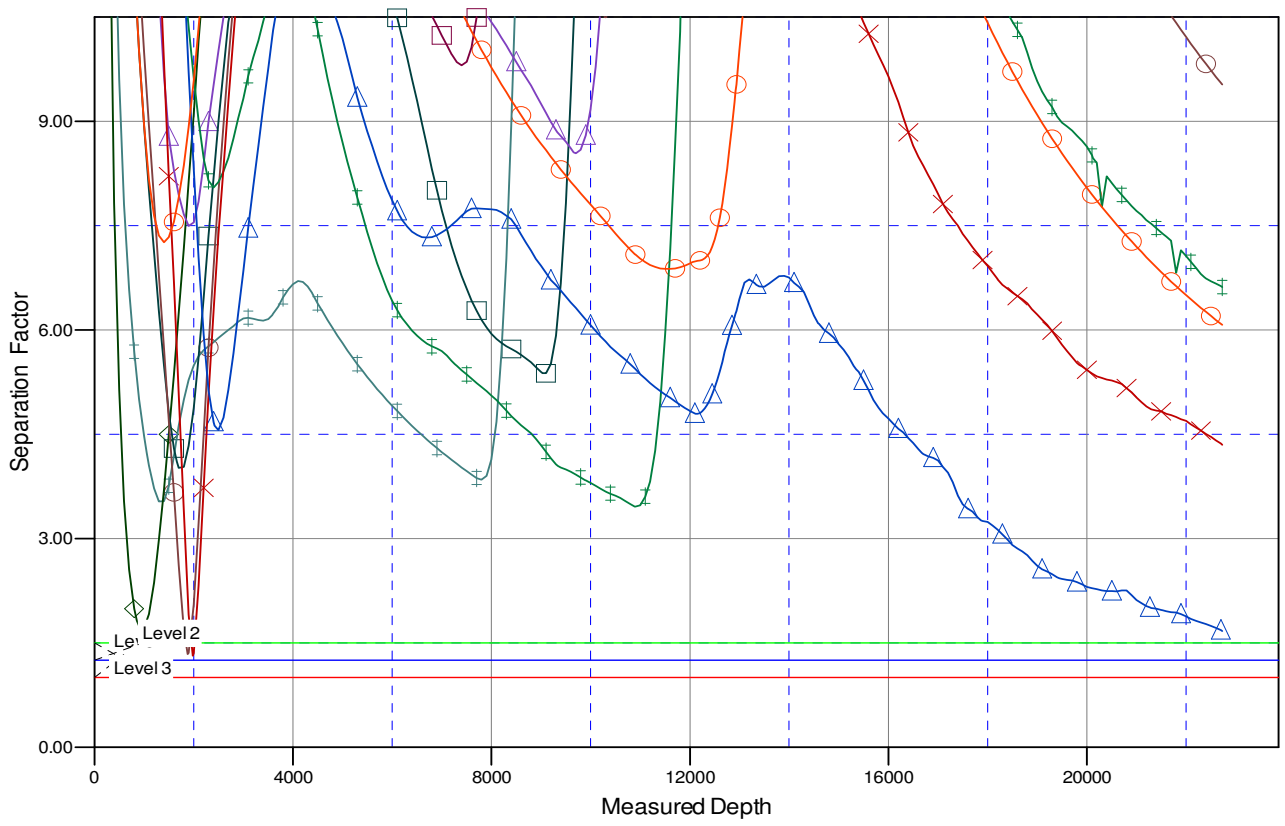
Reference Depths are relative to KB @ 3253.5usft	Coordinates are relative to: Boros Federal #227H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W	Grid Convergence at Surface is: 0.30°



Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Boros Federal #227H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3253.5usft
Reference Site:	Boros	**MD Reference:**	KB @ 3253.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Boros Federal #227H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.14 Server
Reference Design:	BLM Plan #2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3253.5usft	Coordinates are relative to: Boros Federal #227H
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: 0.30°

Separation Factor Plot



LEGEND

Boros Federal #023H, Wellbore #1, BLM Plan #2 V0
Boros Federal #103H, Wellbore #1, BLM Plan #2 V0
Boros Federal #107H, Wellbore #1, BLM Plan #2 V0
Boros Federal #113H, Wellbore #1, BLM Plan #2 V0
Boros Federal #123H, Wellbore #1, Actual V0
Boros Federal #133H, Wellbore #1, BLM Plan #2 V0
Boros Federal #203H, Wellbore #1, Actual V0
Boros Federal #217H, Wellbore #1, Actual V0
Boros Federal #223H, Wellbore #1, Actual V0
Boros Federal #243H, Wellbore #1, BLM Plan #2 V0