Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 perfonned 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 detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 421 FSL / 1658 FEL / TWSP: 23S / RANGE: 33E / SECTION: 7 / LAT: 32.3131809 / LONG: -103.608289 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 104 FSL / 1600 FEL / TWSP: 23S / RANGE: 33E / SECTION: 7 / LAT: 32.3123129 / LONG: -103.6081014 (TVD: 7219 feet, MD: 7242 feet)

PPP: NWSE / 1320 FSL / 1834 FEL / TWSP: 23S / RANGE: 33E / SECTION: 7 / LAT: 32.315731 / LONG: -103.6088709 (TVD: 7219 feet, MD: 7242 feet)

BHL: LOT 2 / 60 FNL / 1834 FEL / TWSP: 23S / RANGE: 33E / SECTION: 6 / LAT: 32.3408959 / LONG: -103.6089639 (TVD: 8724 feet, MD: 18863 feet)

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

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name

[4]Property Code	[5]Property Name	[6]Well Number
	RODNEY ROBINSON FED COM	023H
[7]OGRID No.	**[8]Operator Name**	**[9]Elevation**
	MATADOR PRODUCTION COMPANY	3718'

[10]Surface Location

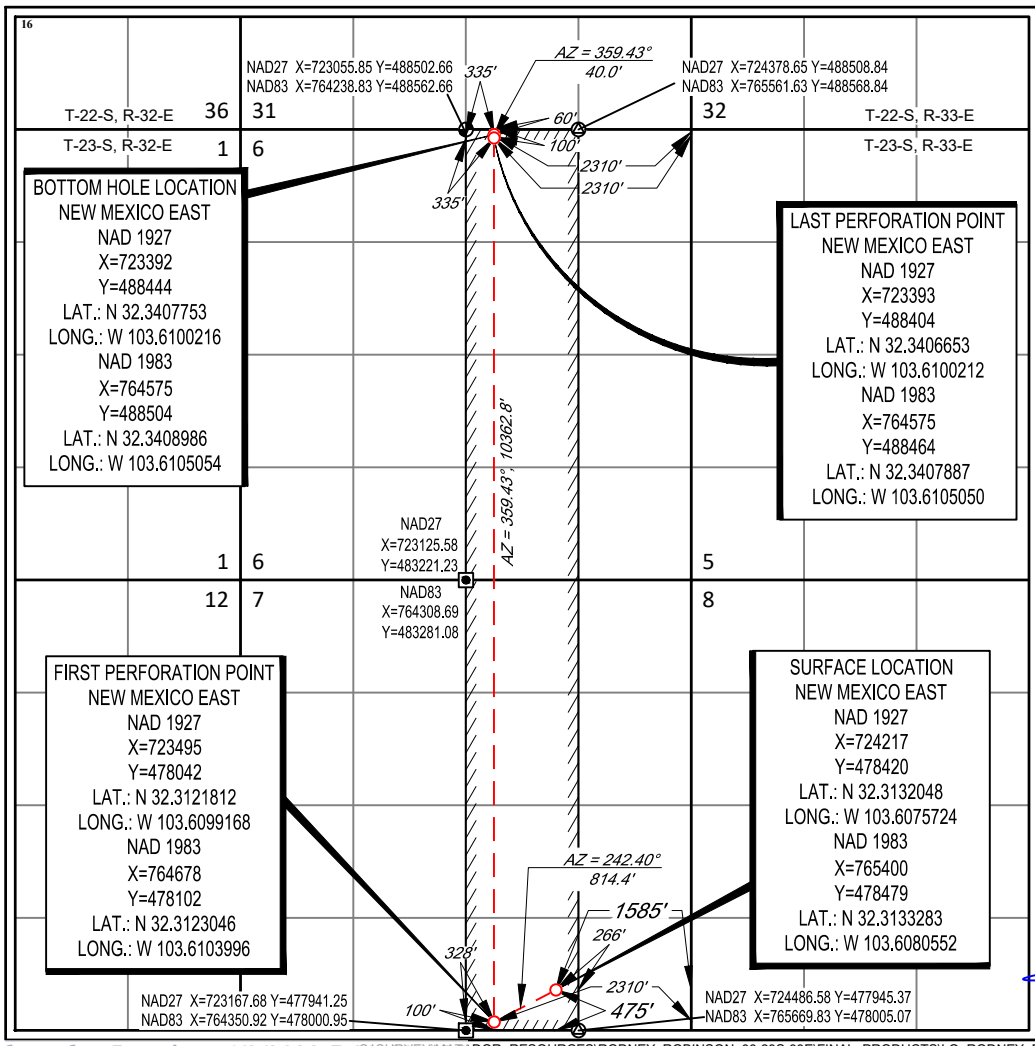
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	7	23-S	33-E	–	475'	SOUTH	1585'	EAST	LEA

[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
2	6	23-S	33-E	–	60'	NORTH	2310'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320.04			

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



[17]OPERATOR CERTIFICATION

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

Signature Date

Printed Name

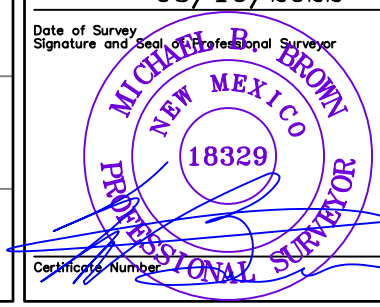
E-mail Address

[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.

03/16/2022

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

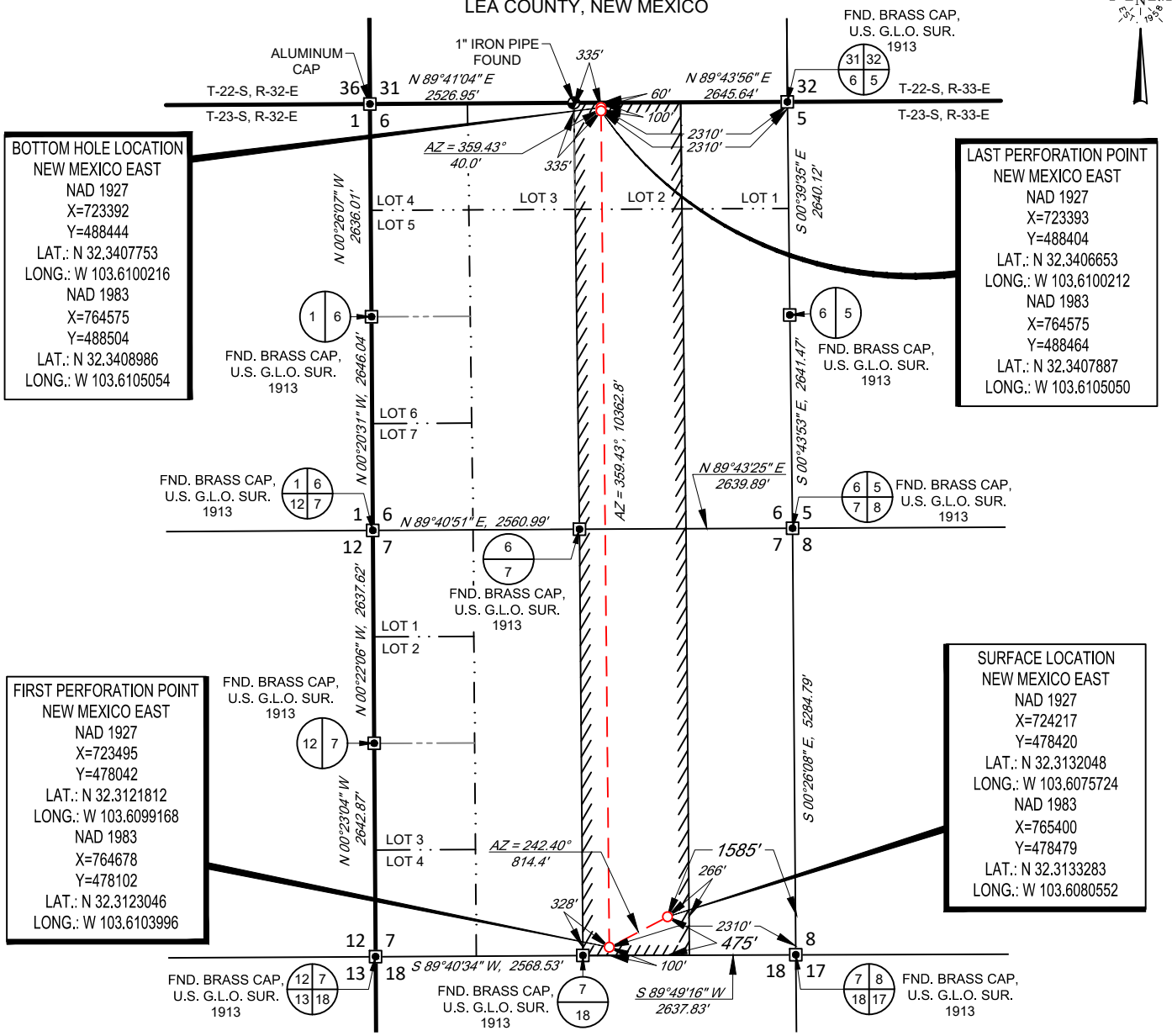
G:\SURVEY\MATADOR_RESOURCES\RODNEY_ROBINSON_06-23S-33E\FINAL_PRODUCTS\LO_RODNEY_ROBINSON_FED_COM_023H_REV8.DWG 3/23/2022 7:35:31 AM adisabella

SCALE: 1" = 2000'

0' 1000' 2000'

Matador PRODUCTION COMPANY

SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 023H

SECTION 7 TWP 23-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 475' FSL & 1585' FEL

DISTANCE & DIRECTION

FROM INT. OF CR 21. & NM-128, GO WEST ON NM-128 ±3.3 MILES,THENCE NORTH (RIGHT) ON CR 2-A ±4.2 MILES, THENCE WEST (LEFT) ON J-2/XI RD. ±2.8 MILES, THENCE CONTINUE NORTH (RIGHT) ON J-2/XI RD. ±1.4 MILES, THENCE NORTHWEST (LEFT) ON A LEASE RD. ±0.4 MILES, THENCE NORTHEAST (RIGHT) ON A LEASE RD. ±0.7 MILES, THENCE SOUTHEAST (RIGHT) ON A PROPOSED RD. ±148 FEET TO A POINT ±399 FEET NORTHEAST OF THE LOCATION.

MICHAEL B. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
March 18, 2022

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

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

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

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

S:\SURVEY\MATADOR_RESOURCES\RODNEY_ROBINSON_06-23S-33E\FINAL_PRODUCTS\LO_RODNEY_ROBINSON_FED_COM_023H_REV8.DWG 3/23/2022 7:35:32 AM adisabella

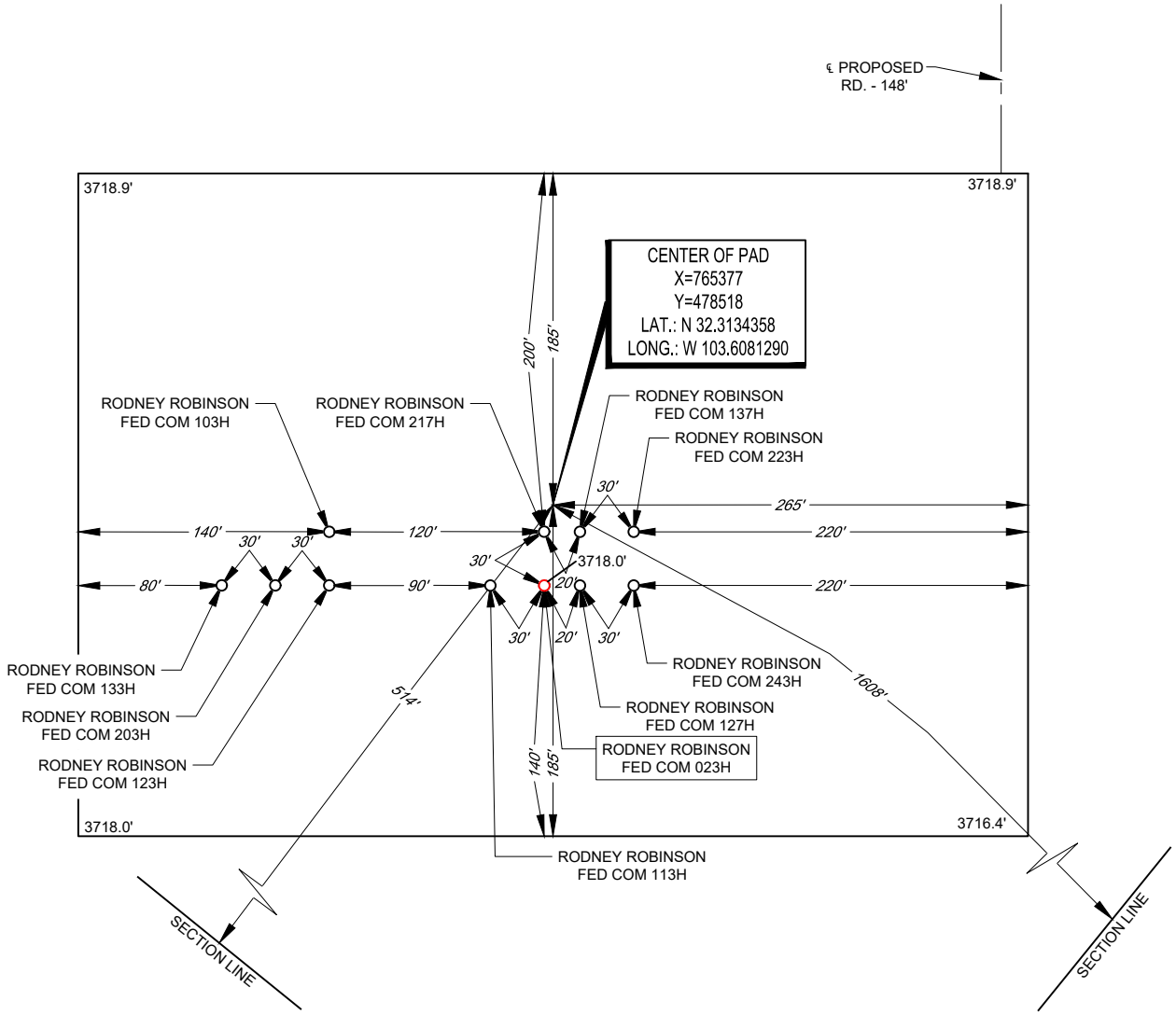
Matador PRODUCTION COMPANY

LEGEND

RANGE LINE
SECTION LINE
PROPOSED ROAD

SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

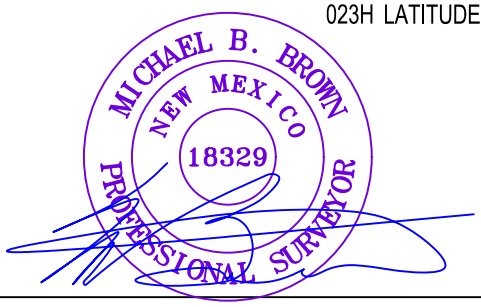
DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 023H

023H LATITUDE N 32.3133283 023H LONGITUDE W 103.6080552

CENTER OF PAD IS 514' FSL & 1608' FEL



Michael Blake Brown, P.S. No. 18329

SCALE: 1" = 100'

0' 50' 100'

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

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

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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Rodney Robinson Fed Com 023H
SHL: 475' FSL & 1585' FEL Section 7
BHL: 60' FNL & 2310' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3718

Drilling Operation Plan

Proposed Drilling Depth: 20780' MD / 10600' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type Oil

Geologic Name of Surface Formatio Quaternary Deposits

KOP Lat/Long (NAD83): 32.3407935 N / -103.6144319 W
TD Lat/Long (NAD83): 32.3122006 N / -103.6144334 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,359	1,359	599	Anhydrite	Barren
Salado (Top of Salt)	1,958	1,958	1,636	Salt	Barren
Castile	3,594	3,594	1,418	Salt	Barren
Bell Canyon	5,012	5,012	1,005	Sandstone	Oil/Natural Gas
Cherry Canyon	6,017	6,017	1,106	Sandstone	Oil/Natural Gas
Brushy Canyon	7,123	7,123	1,740	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,863	8,863	1,001	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,864	9,864	359	Sandstone	Oil/Natural Gas
KOP	10,080	10,028	-	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,239	10,223	-	Carbonate	Oil/Natural Gas
TD	20,780	10,600	-	Carbonate	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring 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 78

3. Pressure Control

Equipment
A 12,000' 5,000-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 5M BOPE system will be installed. Test pressures will be 250 psi low and 5,000 psi high with the annular preventer being tested to 250 psi low and 2500 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 5M 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.

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 - 1384	0 - 1384	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9980	0 - 9980	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 20780	0 - 10600	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
- Request the option to deepen the Intermediate 1 casing set depth to 80° in curve, no changes in pipe grade or weight is neccesary.

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.

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 (ft)	Class	Blend
Surface	Lead	700	1.72	1202	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	1084	C	5% NaCl + LCM
Intermediate 1	Lead	710	3.66	2604	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	8980	A/C	5% NaCl + LCM
Production	Tail	750	1.35	1011	13.2	10%	9780	A/C	Fluid Loss + Dispersant + Retarder

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 - 1384	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1384 - 9980	8.7 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	9980 - 20780	8.8 - 9.4	40-60	<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

Drill Plan

No abnormal pressure or temperature is expected. Bottom hole pressure is 5181 psi. Maximum anticipated surface pressure is 2849 psi. Expected bottom hole temperature is 150 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 an "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H2S safety package on all wells, attached is an "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 equipment being used.

Casing Table Specification Sheet

Rodney Robinson Fed Com 023H
SHL: 475' FSL & 1585' FEL Section 7
BHL: 60' FNL & 2310' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3718

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 - 1384	0 - 1384	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 9980	0 - 9980	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 20780	0 - 10600	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Matador Production Company

Antelope Ridge
Rodney Robinson
Rodney Robinson Fed Com #023H

Wellbore #1
BLM Plan #1

Anticollision Report

29 March, 2022

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference BLM Plan #1

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 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 3/29/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,780.8	BLM Plan #1 (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
Rodney Robinson						
Rodney Robinson Fed Com #103H - Wellbore #1 - Wellb	3,533.8	3,522.1	65.3	41.2	2.709	CC
Rodney Robinson Fed Com #103H - Wellbore #1 - Wellb	4,500.0	4,488.9	69.4	37.9	2.205	ES
Rodney Robinson Fed Com #103H - Wellbore #1 - Wellb	4,600.0	4,588.0	70.9	38.6	2.195	SF
Rodney Robinson Fed Com #113H - Wellbore #1 - Actua	808.1	808.1	25.0	19.9	4.835	CC
Rodney Robinson Fed Com #113H - Wellbore #1 - Actua	1,400.0	1,400.0	28.4	18.9	3.012	ES
Rodney Robinson Fed Com #113H - Wellbore #1 - Actua	20,587.0	20,164.0	732.4	394.1	2.165	SF
Rodney Robinson Fed Com #123H - Wellbore #1 - Actua	0.0	0.0	120.0			
Rodney Robinson Fed Com #123H - Wellbore #1 - Actua	1,800.0	1,800.6	127.4	114.9	10.214	ES
Rodney Robinson Fed Com #123H - Wellbore #1 - Actua	20,780.8	21,228.1	637.2	347.4	2.199	SF
Rodney Robinson Fed Com #133H - Wellbore #1 - Actua	8,147.4	8,123.1	93.3	34.9	1.597	CC
Rodney Robinson Fed Com #133H - Wellbore #1 - Actua	8,200.0	8,175.9	93.6	34.8	1.591	ES, SF
Rodney Robinson Fed Com #203H - Wellbore #1 - Actua	1,011.2	1,011.3	143.5	136.9	21.625	CC
Rodney Robinson Fed Com #203H - Wellbore #1 - Actua	1,400.0	1,399.6	144.1	134.7	15.377	ES
Rodney Robinson Fed Com #203H - Wellbore #1 - Actua	4,000.0	3,981.2	199.1	171.1	7.108	SF
Rodney Robinson Fed Com #217H - Wellbore #1 - BLM	2,420.7	2,421.6	29.4	12.6	1.749	CC
Rodney Robinson Fed Com #217H - Wellbore #1 - BLM	10,080.8	10,082.8	83.8	8.8	1.117	Level 2, ES, SF

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 23-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	-112.94	-48.2	-113.9	123.7				
100.0	100.0	101.3	101.3	0.1	0.1	-112.88	-48.1	-113.9	123.6	123.4	0.26	469.632	
200.0	200.0	201.4	201.4	0.5	0.4	-112.71	-47.6	-113.7	123.3	122.4	0.86	144.114	
300.0	300.0	301.2	301.2	0.8	0.7	-113.06	-48.2	-113.2	123.1	121.5	1.56	78.779	
400.0	400.0	401.9	401.8	1.2	1.1	-113.53	-49.0	-112.5	122.8	120.5	2.27	53.980	
500.0	500.0	501.5	501.4	1.6	1.4	-112.91	-47.6	-112.5	122.2	119.2	2.98	41.000	
600.0	600.0	602.2	602.2	1.9	1.8	-111.76	-45.0	-112.9	121.5	117.8	3.69	32.890	
700.0	700.0	701.9	701.7	2.3	2.1	-110.36	-42.0	-113.2	120.8	116.4	4.41	27.397	
800.0	800.0	804.2	804.0	2.6	2.5	-108.82	-38.4	-112.7	119.1	114.0	5.14	23.184	
900.0	900.0	904.5	904.3	3.0	2.9	-107.99	-35.9	-110.7	116.4	110.6	5.86	19.881	
1,000.0	1,000.0	1,004.3	1,004.1	3.4	3.2	-107.99	-35.1	-108.0	113.6	107.1	6.57	17.309	
1,100.0	1,100.0	1,103.8	1,103.5	3.7	3.6	-108.41	-35.1	-105.4	111.1	103.9	7.27	15.283	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 23-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
1,200.0	1,200.0	1,202.7	1,202.4	4.1	3.9	-109.46	-36.4	-103.1	109.3	101.3	7.97	13.709	
1,300.0	1,300.0	1,301.6	1,301.2	4.4	4.3	-110.44	-38.0	-101.8	108.7	100.0	8.68	12.524	
1,339.6	1,339.6	1,341.0	1,340.6	4.6	4.4	-110.89	-38.7	-101.5	108.6	99.7	8.95	12.130	
1,400.0	1,400.0	1,400.8	1,400.4	4.8	4.6	-111.54	-39.9	-101.2	108.8	99.4	9.38	11.601	
1,500.0	1,500.0	1,500.3	1,499.9	5.1	4.9	-112.37	-41.7	-101.3	109.6	99.5	10.08	10.873	
1,600.0	1,600.0	1,599.5	1,599.1	5.5	5.3	-113.00	-43.3	-102.1	110.9	100.1	10.78	10.289	
1,700.0	1,700.0	1,699.8	1,699.4	5.9	5.6	-113.63	-45.1	-103.0	112.5	101.0	11.48	9.795	
1,800.0	1,800.0	1,800.3	1,799.9	6.2	6.0	-114.24	-46.7	-103.7	113.7	101.5	12.19	9.326	
1,900.0	1,900.0	1,900.4	1,900.0	6.6	6.3	-114.81	-48.1	-104.0	114.6	101.7	12.90	8.885	
2,000.0	2,000.0	2,000.2	1,999.7	6.9	6.7	-115.36	-49.5	-104.5	115.7	102.1	13.61	8.499	
2,100.0	2,100.0	2,100.2	2,099.7	7.3	7.0	-115.99	-51.2	-105.0	116.8	102.5	14.32	8.154	
2,160.2	2,160.2	2,160.4	2,160.0	7.5	7.2	-116.36	-52.1	-105.2	117.4	102.7	14.75	7.961	
2,200.0	2,200.0	2,200.3	2,199.8	7.7	7.4	-0.87	-52.7	-105.4	117.7	102.7	15.03	7.831	
2,300.0	2,300.0	2,300.4	2,299.9	8.0	7.7	-1.55	-54.4	-105.6	117.1	101.4	15.72	7.451	
2,400.0	2,399.9	2,400.7	2,400.1	8.3	8.1	-2.19	-55.8	-105.8	114.6	98.2	16.41	6.983	
2,500.0	2,499.8	2,500.6	2,500.0	8.7	8.5	-2.78	-56.9	-105.9	110.2	93.1	17.10	6.443	
2,600.0	2,599.6	2,600.4	2,599.9	9.0	8.8	-3.61	-58.3	-106.0	104.1	86.3	17.80	5.850	
2,700.0	2,699.2	2,697.5	2,697.0	9.3	9.2	-4.52	-59.8	-106.7	97.0	78.5	18.47	5.252	
2,800.0	2,798.7	2,794.5	2,793.8	9.7	9.5	-5.04	-62.4	-110.9	91.8	72.7	19.13	4.801	
2,900.0	2,897.9	2,893.7	2,892.7	10.1	9.9	-5.62	-65.8	-117.0	86.9	67.1	19.81	4.386	
2,960.2	2,957.6	2,953.1	2,952.1	10.3	10.1	-6.06	-67.9	-120.8	83.3	63.0	20.21	4.118	
3,000.0	2,997.0	2,992.2	2,991.0	10.4	10.2	-6.26	-69.4	-123.7	81.0	60.5	20.48	3.956	
3,100.0	3,096.0	3,090.8	3,089.1	10.8	10.6	-6.46	-73.3	-132.3	76.7	55.6	21.14	3.629	
3,200.0	3,195.1	3,190.4	3,188.1	11.2	10.9	-6.55	-77.8	-142.1	73.6	51.8	21.82	3.372	
3,300.0	3,294.1	3,290.3	3,287.4	11.5	11.3	-6.69	-82.4	-152.1	70.6	48.1	22.52	3.136	
3,400.0	3,393.1	3,390.2	3,386.8	11.9	11.7	-6.90	-87.1	-162.0	67.7	44.4	23.23	2.913	
3,500.0	3,492.1	3,489.1	3,485.0	12.3	12.1	-7.14	-92.1	-172.5	65.5	41.6	23.89	2.742	
3,533.8	3,525.6	3,522.1	3,517.6	12.4	12.3	-7.21	-94.1	-176.4	65.3	41.2	24.10	2.709	CC
3,600.0	3,591.2	3,586.7	3,581.5	12.7	12.6	-7.33	-98.5	-185.1	66.1	41.6	24.49	2.699	
3,700.0	3,690.2	3,686.5	3,679.9	13.1	13.0	-8.21	-106.8	-199.2	68.8	43.6	25.19	2.730	
3,800.0	3,789.2	3,787.7	3,780.0	13.4	13.5	-10.21	-115.9	-211.8	70.4	44.4	25.97	2.711	
3,900.0	3,888.3	3,887.9	3,879.0	13.8	13.9	-12.60	-124.8	-223.3	71.2	44.5	26.69	2.669	
4,000.0	3,987.3	3,988.1	3,978.3	14.2	14.4	-15.33	-133.9	-234.2	71.9	44.4	27.43	2.620	
4,100.0	4,086.3	4,088.6	4,077.9	14.6	14.9	-18.52	-143.0	-244.2	72.1	43.9	28.19	2.556	
4,200.0	4,185.3	4,189.4	4,177.8	15.0	15.4	-22.68	-152.4	-252.8	71.7	42.7	28.98	2.473	
4,300.0	4,284.4	4,289.8	4,277.6	15.4	15.8	-28.48	-162.0	-258.9	70.4	40.6	29.79	2.362	
4,400.0	4,383.4	4,389.6	4,376.8	15.8	16.3	-34.34	-171.1	-265.0	69.5	38.8	30.62	2.268	
4,459.0	4,441.9	4,448.4	4,435.2	16.0	16.5	-37.48	-176.3	-268.9	69.2	38.1	31.12	2.224	
4,500.0	4,482.4	4,488.9	4,475.5	16.2	16.7	-39.49	-179.9	-271.9	69.4	37.9	31.46	2.205	ES
4,600.0	4,581.4	4,588.0	4,573.8	16.6	17.2	-44.22	-189.5	-279.5	70.9	38.6	32.31	2.195	SF
4,700.0	4,680.5	4,687.9	4,672.9	17.0	17.6	-49.28	-200.0	-286.8	73.6	40.3	33.24	2.213	
4,800.0	4,779.5	4,787.5	4,771.7	17.4	18.1	-53.24	-209.9	-294.8	76.4	42.3	34.15	2.238	
4,900.0	4,878.5	4,887.9	4,871.1	17.8	18.6	-55.81	-219.7	-304.5	79.6	44.5	35.07	2.270	
5,000.0	4,977.6	4,988.0	4,970.2	18.2	19.1	-57.13	-228.7	-315.6	82.3	46.4	35.95	2.289	
5,100.0	5,076.6	5,088.3	5,069.5	18.6	19.6	-58.39	-237.4	-326.6	84.8	47.9	36.85	2.300	
5,200.0	5,175.6	5,188.7	5,169.1	19.0	20.1	-60.31	-245.8	-336.5	86.8	49.0	37.77	2.297	
5,300.0	5,274.6	5,287.9	5,267.2	19.4	20.6	-61.22	-254.1	-347.7	89.1	50.5	38.65	2.306	
5,400.0	5,373.7	5,387.0	5,364.8	19.9	21.2	-59.74	-263.2	-362.6	92.4	53.0	39.42	2.344	
5,500.0	5,472.7	5,487.0	5,463.0	20.3	21.8	-57.64	-272.5	-378.9	96.1	55.9	40.18	2.391	
5,600.0	5,571.7	5,587.0	5,561.4	20.7	22.4	-56.12	-281.8	-394.4	99.7	58.7	40.96	2.433	
5,700.0	5,670.7	5,687.1	5,659.9	21.1	22.9	-55.06	-291.1	-409.3	103.3	61.5	41.76	2.473	
5,800.0	5,769.8	5,787.3	5,758.7	21.5	23.5	-54.33	-300.3	-423.8	106.7	64.1	42.58	2.505	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 23-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
5,900.0	5,868.8	5,887.6	5,857.6	21.9	24.1	-53.98	-309.2	-437.5	109.7	66.3	43.42	2.527	
6,000.0	5,967.8	5,987.8	5,956.6	22.3	24.6	-53.95	-318.0	-450.6	112.6	68.3	44.28	2.542	
6,100.0	6,066.8	6,087.7	6,055.3	22.7	25.2	-54.32	-326.8	-462.9	115.3	70.1	45.16	2.553	
6,200.0	6,165.9	6,187.7	6,154.2	23.1	25.7	-54.93	-335.8	-474.6	118.0	72.0	46.06	2.563	
6,300.0	6,264.9	6,287.4	6,252.9	23.6	26.2	-55.92	-344.9	-485.5	120.8	73.9	46.99	2.572	
6,400.0	6,363.9	6,387.3	6,351.8	24.0	26.8	-57.14	-354.3	-495.9	123.9	75.9	47.95	2.583	
6,500.0	6,463.0	6,487.3	6,450.9	24.4	27.3	-58.59	-363.7	-505.6	126.9	78.0	48.94	2.594	
6,600.0	6,562.0	6,587.3	6,550.1	24.8	27.8	-60.19	-373.1	-514.8	130.0	80.0	49.94	2.603	
6,700.0	6,661.0	6,688.5	6,650.5	25.2	28.3	-62.01	-382.1	-523.5	132.6	81.6	50.99	2.601	
6,800.0	6,760.0	6,789.3	6,750.6	25.6	28.8	-64.07	-390.3	-531.4	134.6	82.5	52.05	2.585	
6,900.0	6,859.1	6,888.8	6,849.5	26.0	29.3	-66.16	-398.2	-538.9	136.6	83.5	53.10	2.572	
7,000.0	6,958.1	6,988.8	6,948.9	26.5	29.8	-68.32	-406.1	-546.2	138.7	84.5	54.16	2.561	
7,100.0	7,057.1	7,089.2	7,048.8	26.9	30.2	-70.55	-414.0	-553.1	141.0	85.8	55.23	2.553	
7,200.0	7,156.1	7,192.0	7,151.3	27.3	30.7	-73.88	-420.2	-557.8	142.2	85.8	56.39	2.521	
7,300.0	7,255.2	7,294.8	7,254.0	27.7	31.0	-78.72	-423.4	-559.0	141.6	84.0	57.58	2.460	
7,400.0	7,354.2	7,394.9	7,354.1	28.1	31.3	-84.48	-424.1	-558.5	140.3	81.6	58.72	2.390	
7,429.4	7,383.3	7,423.8	7,383.0	28.2	31.4	-86.16	-424.2	-558.3	140.3	81.2	59.04	2.376	
7,500.0	7,453.2	7,494.0	7,453.2	28.5	31.6	-90.19	-424.8	-557.9	140.6	80.8	59.75	2.353	
7,600.0	7,552.2	7,593.7	7,552.9	29.0	31.9	-95.83	-425.2	-557.6	141.8	81.2	60.65	2.338	
7,700.0	7,651.3	7,692.8	7,652.0	29.4	32.2	-101.25	-425.4	-557.6	144.1	82.7	61.43	2.345	
7,800.0	7,750.3	7,792.2	7,751.4	29.8	32.5	-106.42	-425.7	-557.8	147.6	85.5	62.11	2.377	
7,900.0	7,849.3	7,890.9	7,850.1	30.2	32.8	-111.22	-426.0	-558.1	152.1	89.4	62.68	2.427	
8,000.0	7,948.4	7,989.7	7,948.8	30.6	33.1	-115.72	-426.5	-558.2	158.0	94.8	63.18	2.500	
8,047.5	7,995.4	8,036.9	7,996.1	30.8	33.2	-117.77	-426.7	-558.2	161.1	97.7	63.39	2.541	
8,100.0	8,047.4	8,089.2	8,048.4	31.0	33.4	-119.91	-426.9	-558.3	164.5	100.9	63.63	2.586	
8,200.0	8,146.8	8,188.1	8,147.3	31.4	33.7	-123.15	-427.2	-558.3	170.5	106.5	64.08	2.661	
8,300.0	8,246.4	8,288.3	8,247.5	31.8	34.0	-125.48	-427.5	-558.4	175.5	111.0	64.59	2.718	
8,400.0	8,346.2	8,388.6	8,347.8	32.2	34.3	-127.04	-427.6	-558.6	178.9	113.8	65.13	2.747	
8,500.0	8,446.2	8,488.1	8,447.3	32.5	34.6	-127.84	-427.8	-558.8	180.9	115.2	65.72	2.753	
8,580.8	8,527.0	8,569.7	8,528.9	32.8	34.8	115.74	-426.3	-558.4	181.2	115.0	66.17	2.739	
8,600.0	8,546.2	8,589.0	8,548.2	32.9	34.9	115.50	-425.6	-558.1	181.1	114.9	66.26	2.733	
8,700.0	8,646.2	8,689.7	8,648.7	33.2	35.1	113.70	-420.1	-556.4	180.4	113.7	66.68	2.706	
8,800.0	8,746.2	8,790.6	8,749.2	33.5	35.4	111.16	-412.3	-554.3	179.4	112.4	67.02	2.677	
8,900.0	8,846.2	8,891.6	8,849.8	33.8	35.7	108.27	-403.4	-552.5	178.1	110.8	67.31	2.646	
8,985.0	8,931.2	8,974.8	8,932.2	34.1	35.9	104.60	-392.2	-550.2	177.1	109.7	67.35	2.629	
9,000.0	8,946.2	8,988.7	8,945.6	34.1	35.9	103.49	-388.9	-549.3	177.2	109.9	67.28	2.633	
9,100.0	9,046.2	9,080.2	9,030.7	34.5	36.0	92.93	-356.8	-540.7	181.9	115.8	66.08	2.752	
9,200.0	9,146.2	9,167.4	9,105.8	34.8	36.2	79.75	-313.3	-532.3	196.8	133.1	63.67	3.091	
9,300.0	9,246.2	9,242.9	9,164.8	35.1	36.3	67.28	-266.5	-528.0	225.5	165.6	59.89	3.765	
9,400.0	9,346.2	9,306.8	9,210.7	35.4	36.3	57.29	-222.1	-526.2	269.3	213.8	55.52	4.851	
9,500.0	9,446.2	9,359.7	9,245.7	35.7	36.4	49.82	-182.4	-526.0	325.8	274.6	51.21	6.362	
9,600.0	9,546.2	9,404.7	9,272.9	36.1	36.5	44.15	-146.6	-526.6	392.0	344.5	47.46	8.260	
9,700.0	9,646.2	9,445.1	9,295.7	36.4	36.5	39.66	-113.3	-527.4	464.9	420.4	44.52	10.444	
9,800.0	9,746.2	9,489.0	9,318.8	36.7	36.6	35.43	-76.0	-528.4	542.8	500.0	42.81	12.679	
9,900.0	9,846.2	9,514.0	9,331.2	37.0	36.7	33.29	-54.3	-529.0	624.0	583.6	40.34	15.469	
10,000.0	9,946.2	9,544.4	9,345.6	37.3	36.7	30.92	-27.5	-529.9	707.9	669.0	38.89	18.202	
10,080.8	10,027.0	9,566.9	9,355.8	37.6	36.8	29.32	-7.5	-530.6	777.2	739.3	37.90	20.508	
10,100.0	10,046.2	9,583.0	9,362.8	37.7	36.9	27.35	7.0	-531.1	793.8	755.4	38.32	20.712	
10,150.0	10,096.0	9,583.0	9,362.8	37.8	36.9	24.06	7.0	-531.1	835.5	798.6	36.86	22.664	
10,200.0	10,145.3	9,603.5	9,371.5	38.0	37.0	20.74	25.5	-531.8	875.5	839.0	36.50	23.989	
10,250.0	10,193.7	9,621.4	9,378.8	38.1	37.0	18.29	41.9	-532.3	913.5	877.7	35.89	25.455	
10,300.0	10,240.9	9,640.6	9,386.4	38.2	37.1	16.36	59.5	-532.8	949.4	914.1	35.26	26.921	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 23-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
10,350.0	10,286.4	9,660.9	9,394.2	38.3	37.2	14.84	78.3	-533.2	982.8	948.2	34.63	28.382	
10,400.0	10,329.9	9,677.0	9,400.1	38.4	37.3	13.67	93.2	-533.5	1,013.7	980.0	33.74	30.041	
10,450.0	10,371.1	9,705.4	9,410.1	38.5	37.5	12.63	119.8	-533.9	1,041.9	1,008.5	33.38	31.210	
10,500.0	10,409.8	9,729.2	9,418.0	38.6	37.7	11.85	142.2	-534.0	1,067.3	1,034.5	32.78	32.562	
10,550.0	10,445.5	9,753.7	9,425.8	38.6	37.9	11.23	165.5	-534.1	1,089.7	1,057.5	32.18	33.867	
10,600.0	10,478.0	9,771.0	9,431.1	38.7	38.1	10.76	181.9	-534.0	1,109.2	1,077.9	31.29	35.448	
10,650.0	10,507.1	9,801.4	9,439.7	38.7	38.4	10.36	211.1	-533.8	1,125.5	1,094.6	30.92	36.400	
10,700.0	10,532.5	9,825.0	9,445.8	38.7	38.6	10.07	233.8	-533.8	1,138.8	1,108.5	30.31	37.572	
10,750.0	10,554.1	9,866.0	9,455.2	38.7	39.1	9.83	273.8	-533.9	1,149.3	1,119.0	30.31	37.922	
10,800.0	10,571.7	9,866.0	9,455.2	38.7	39.1	9.72	273.8	-533.9	1,156.2	1,127.1	29.04	39.818	
10,850.0	10,585.1	9,894.1	9,460.6	38.7	39.5	9.64	301.3	-534.0	1,160.1	1,131.4	28.72	40.390	
10,900.0	10,594.3	9,916.0	9,464.3	38.7	39.8	9.63	323.0	-534.1	1,161.0	1,132.7	28.31	41.003	
10,950.0	10,599.1	9,938.0	9,467.4	38.7	40.1	9.68	344.7	-534.1	1,158.8	1,130.8	28.00	41.379	
10,980.8	10,600.0	9,961.0	9,470.2	38.7	40.4	9.77	367.6	-534.1	1,156.0	1,127.9	28.05	41.208	
11,000.0	10,600.0	9,961.0	9,470.2	38.7	40.4	9.77	367.6	-534.1	1,153.8	1,126.0	27.82	41.477	
11,100.0	10,600.0	10,006.1	9,474.0	38.9	41.1	9.83	412.5	-533.9	1,145.7	1,118.0	27.74	41.298	
11,200.0	10,600.0	10,055.0	9,475.7	39.1	41.9	9.89	461.4	-533.5	1,142.3	1,114.2	28.11	40.635	
11,300.0	10,600.0	10,149.9	9,476.6	39.5	43.5	9.91	556.2	-534.1	1,141.5	1,112.5	28.92	39.470	
11,400.0	10,600.0	10,286.1	9,481.9	40.0	46.1	9.77	692.2	-539.3	1,136.4	1,106.4	30.03	37.839	
11,500.0	10,600.0	10,346.9	9,483.0	40.5	47.3	9.72	753.0	-540.9	1,134.2	1,103.5	30.71	36.936	
11,556.4	10,600.0	10,396.7	9,483.1	40.9	48.4	9.69	802.8	-542.1	1,134.1	1,102.8	31.24	36.297	
11,600.0	10,600.0	10,436.4	9,482.9	41.1	49.2	9.66	842.4	-543.1	1,134.2	1,102.5	31.66	35.818	
11,700.0	10,600.0	10,553.6	9,483.1	41.8	51.8	9.55	959.6	-546.5	1,133.6	1,100.8	32.80	34.559	
11,800.0	10,600.0	10,691.9	9,486.0	42.5	55.0	9.51	1,097.9	-549.2	1,131.7	1,097.4	34.26	33.028	
11,900.0	10,600.0	10,793.3	9,491.0	43.3	57.5	9.47	1,199.1	-551.8	1,126.6	1,091.1	35.47	31.765	
12,000.0	10,600.0	10,897.9	9,495.5	44.1	60.0	9.35	1,303.5	-556.0	1,121.8	1,085.1	36.70	30.565	
12,100.0	10,600.0	10,968.2	9,498.0	44.9	61.8	9.28	1,373.7	-558.4	1,117.9	1,080.3	37.66	29.689	
12,200.0	10,600.0	11,047.0	9,499.1	45.8	63.8	9.32	1,452.5	-558.6	1,116.6	1,077.8	38.82	28.761	
12,300.0	10,600.0	11,159.1	9,499.9	46.8	66.7	9.36	1,564.6	-559.1	1,116.1	1,075.8	40.28	27.709	
12,400.0	10,600.0	11,251.0	9,501.5	47.8	69.2	9.41	1,656.4	-559.3	1,114.5	1,072.9	41.62	26.780	
12,500.0	10,600.0	11,372.2	9,503.3	48.8	72.4	9.38	1,777.6	-561.4	1,113.0	1,069.8	43.18	25.779	
12,600.0	10,600.0	11,475.5	9,506.4	49.8	75.2	9.26	1,880.8	-565.3	1,109.5	1,065.0	44.55	24.903	
12,700.0	10,600.0	11,548.0	9,507.2	50.9	77.2	9.23	1,953.3	-566.7	1,108.1	1,062.3	45.74	24.224	
12,707.1	10,600.0	11,548.0	9,507.2	51.0	77.2	9.23	1,953.3	-566.7	1,108.1	1,062.3	45.79	24.197	
12,800.0	10,600.0	11,631.7	9,506.7	52.0	79.5	9.24	2,036.9	-567.2	1,108.7	1,061.6	47.09	23.545	
12,900.0	10,600.0	11,734.6	9,505.9	53.1	82.3	9.22	2,139.9	-568.5	1,109.5	1,060.9	48.57	22.842	
13,000.0	10,600.0	11,847.8	9,506.0	54.3	85.5	9.22	2,253.1	-569.6	1,109.4	1,059.2	50.16	22.114	
13,092.0	10,600.0	11,932.9	9,506.5	55.4	87.9	9.20	2,338.2	-571.0	1,108.7	1,057.2	51.48	21.537	
13,100.0	10,600.0	11,937.7	9,506.5	55.5	88.0	9.20	2,342.9	-571.1	1,108.7	1,057.1	51.57	21.497	
13,200.0	10,600.0	11,997.2	9,505.2	56.7	89.7	9.18	2,402.4	-571.7	1,110.8	1,058.0	52.81	21.033	
13,300.0	10,600.0	12,068.6	9,501.4	57.9	91.8	9.17	2,473.7	-572.0	1,116.1	1,062.0	54.17	20.604	
13,400.0	10,600.0	12,171.5	9,494.2	59.2	94.7	9.12	2,576.3	-572.9	1,123.1	1,067.4	55.67	20.175	
13,500.0	10,600.0	12,388.3	9,492.1	60.5	100.9	9.33	2,793.1	-570.5	1,124.7	1,066.4	58.28	19.299	
13,600.0	10,600.0	12,492.5	9,497.4	61.8	103.9	9.50	2,897.1	-569.0	1,120.1	1,060.0	60.06	18.649	
13,700.0	10,600.0	12,558.3	9,499.6	63.1	105.8	9.57	2,962.8	-568.7	1,117.1	1,055.7	61.41	18.190	
13,800.0	10,600.0	12,659.8	9,500.8	64.4	108.8	9.60	3,064.4	-569.3	1,116.0	1,052.9	63.05	17.699	
13,900.0	10,600.0	12,757.7	9,502.1	65.7	111.6	9.53	3,162.2	-571.9	1,114.4	1,049.8	64.56	17.260	
14,000.0	10,600.0	12,842.7	9,502.4	67.1	114.1	9.42	3,247.1	-575.0	1,113.6	1,047.7	65.92	16.893	
14,006.2	10,600.0	12,848.0	9,502.4	67.2	114.3	9.41	3,252.4	-575.2	1,113.6	1,047.6	66.00	16.872	
14,100.0	10,600.0	12,936.2	9,501.8	68.4	116.9	9.32	3,340.6	-577.7	1,113.9	1,046.5	67.37	16.534	
14,200.0	10,600.0	13,018.5	9,500.9	69.8	119.3	9.32	3,422.8	-578.4	1,115.1	1,046.2	68.83	16.199	
14,300.0	10,600.0	13,151.0	9,499.4	71.2	123.2	9.29	3,555.3	-580.0	1,116.3	1,045.6	70.69	15.791	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 usft

Survey Program: 23-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
14,400.0	10,600.0	13,244.6	9,499.6	72.6	125.9	9.26	3,649.0	-581.6	1,115.9	1,043.7	72.23	15.450	
14,500.0	10,600.0	13,365.5	9,501.8	74.0	129.5	9.28	3,769.8	-582.8	1,114.1	1,040.0	74.06	15.042	
14,600.0	10,600.0	13,480.8	9,504.3	75.5	132.9	9.35	3,885.0	-583.0	1,112.2	1,036.2	75.92	14.649	
14,700.0	10,600.0	13,601.6	9,510.4	76.9	136.5	9.46	4,005.7	-583.0	1,107.2	1,029.3	77.89	14.215	
14,800.0	10,600.0	13,667.7	9,513.3	78.3	138.5	9.50	4,071.7	-583.3	1,103.1	1,023.8	79.31	13.910	
14,900.0	10,600.0	13,749.0	9,514.0	79.8	140.9	9.52	4,153.0	-583.9	1,102.2	1,021.4	80.83	13.637	
15,000.0	10,600.0	13,855.7	9,514.7	81.2	144.1	9.40	4,259.7	-587.4	1,101.2	1,018.8	82.38	13.367	
15,100.0	10,600.0	13,957.7	9,515.5	82.7	147.1	9.23	4,361.5	-591.8	1,099.8	1,016.0	83.81	13.124	
15,200.0	10,600.0	14,086.5	9,518.9	84.2	150.9	9.33	4,490.3	-591.7	1,097.5	1,011.7	85.86	12.783	
15,299.7	10,600.0	14,142.1	9,520.4	85.6	152.6	9.50	4,545.8	-589.3	1,095.6	1,008.2	87.39	12.536	
15,300.0	10,600.0	14,142.3	9,520.4	85.6	152.6	9.50	4,546.0	-589.3	1,095.6	1,008.2	87.40	12.535	
15,400.0	10,600.0	14,209.8	9,519.7	87.1	154.6	9.67	4,613.4	-586.4	1,097.4	1,008.3	89.04	12.324	
15,500.0	10,600.0	14,304.3	9,516.9	88.6	157.5	9.83	4,707.9	-583.8	1,100.9	1,010.0	90.93	12.108	
15,600.0	10,600.0	14,415.7	9,514.2	90.1	160.8	9.93	4,819.2	-582.4	1,103.6	1,010.7	92.90	11.880	
15,700.0	10,600.0	14,515.9	9,511.9	91.6	163.8	9.97	4,919.4	-582.4	1,106.1	1,011.4	94.65	11.686	
15,800.0	10,600.0	14,612.7	9,509.3	93.1	166.7	9.90	5,016.2	-584.2	1,108.6	1,012.4	96.19	11.524	
15,900.0	10,600.0	14,715.7	9,506.2	94.6	169.8	9.79	5,119.1	-586.9	1,111.3	1,013.6	97.73	11.371	
16,000.0	10,600.0	14,815.2	9,503.7	96.2	172.8	9.72	5,218.4	-588.9	1,113.6	1,014.4	99.28	11.217	
16,100.0	10,600.0	14,916.7	9,501.7	97.7	175.9	9.89	5,319.9	-586.2	1,116.1	1,014.8	101.30	11.018	
16,200.0	10,600.0	15,016.6	9,499.9	99.2	178.9	10.03	5,419.8	-584.0	1,118.5	1,015.2	103.28	10.829	
16,300.0	10,600.0	15,151.3	9,500.3	100.7	182.9	10.08	5,554.4	-584.4	1,118.0	1,012.6	105.42	10.605	
16,323.7	10,600.0	15,166.8	9,500.3	101.1	183.4	10.08	5,569.9	-584.5	1,117.9	1,012.2	105.76	10.570	
16,400.0	10,600.0	15,214.0	9,499.9	102.3	184.8	10.11	5,617.2	-584.3	1,118.8	1,012.0	106.84	10.472	
16,500.0	10,600.0	15,268.8	9,497.8	103.8	186.5	10.18	5,671.9	-583.1	1,123.3	1,015.2	108.17	10.385	
16,600.0	10,600.0	16,600.0	9,491.3	105.3	226.6	10.39	5,774.7	-578.9	1,130.4	1,008.6	121.77	9.283	
16,700.0	10,600.0	15,497.1	9,487.0	106.9	193.4	10.63	5,899.7	-574.4	1,134.4	1,021.4	112.91	10.046	
16,800.0	10,600.0	15,638.0	9,486.5	108.4	197.6	10.75	6,040.6	-573.4	1,134.4	1,019.1	115.34	9.835	
16,900.0	10,600.0	15,730.7	9,484.9	110.0	200.4	10.76	6,133.3	-573.8	1,136.1	1,019.0	117.04	9.707	
17,000.0	10,600.0	15,833.3	9,484.3	111.5	203.5	10.68	6,235.8	-576.3	1,136.4	1,017.8	118.63	9.579	
17,100.0	10,600.0	15,905.5	9,482.8	113.1	205.7	10.63	6,308.0	-577.7	1,138.4	1,018.4	119.96	9.490	
17,200.0	10,600.0	15,971.8	9,479.5	114.7	207.7	10.60	6,374.2	-578.3	1,143.3	1,022.0	121.23	9.431	
17,300.0	10,600.0	16,075.5	9,472.8	116.2	210.9	10.57	6,477.7	-578.6	1,149.7	1,026.8	122.95	9.351	
17,400.0	10,600.0	16,234.3	9,468.9	117.8	215.7	10.59	6,636.4	-579.1	1,151.8	1,026.3	125.41	9.184	
17,500.0	10,600.0	16,328.2	9,468.3	119.3	218.6	10.67	6,730.4	-578.3	1,152.8	1,025.5	127.30	9.056	
17,600.0	10,600.0	16,459.1	9,467.9	120.9	222.5	10.67	6,861.3	-579.6	1,153.1	1,023.8	129.34	8.916	
17,651.6	10,600.0	16,495.8	9,467.8	121.7	223.6	10.64	6,897.9	-580.4	1,153.0	1,023.0	130.04	8.867	
17,700.0	10,600.0	16,537.3	9,467.5	122.5	224.9	10.61	6,939.4	-581.5	1,153.2	1,022.4	130.73	8.821	
17,800.0	10,600.0	16,624.8	9,466.3	124.1	227.6	10.54	7,026.9	-583.5	1,154.3	1,022.1	132.18	8.733	
17,900.0	10,600.0	16,756.6	9,465.6	125.6	231.6	10.45	7,158.6	-586.7	1,154.6	1,020.6	133.99	8.617	
18,000.0	10,600.0	16,860.8	9,467.0	127.2	234.7	10.35	7,262.7	-589.9	1,152.9	1,017.4	135.52	8.507	
18,085.6	10,600.0	16,929.9	9,467.2	128.6	236.8	10.26	7,331.8	-592.4	1,152.2	1,015.6	136.63	8.433	
18,100.0	10,600.0	16,940.1	9,467.2	128.8	237.1	10.25	7,342.0	-592.8	1,152.2	1,015.4	136.81	8.422	
18,200.0	10,600.0	17,014.9	9,465.7	130.4	239.4	10.17	7,416.7	-594.8	1,153.8	1,015.8	138.08	8.356	
18,300.0	10,600.0	17,119.8	9,463.1	132.0	242.6	9.99	7,521.5	-599.1	1,155.7	1,016.3	139.40	8.291	
18,400.0	10,600.0	17,193.0	9,460.0	133.5	244.8	9.85	7,594.6	-602.2	1,159.2	1,018.7	140.43	8.254	
18,500.0	10,600.0	17,340.0	9,454.5	135.1	249.3	9.54	7,741.3	-609.0	1,162.6	1,020.7	141.86	8.195	
18,600.0	10,600.0	17,482.3	9,457.3	136.7	253.6	9.58	7,883.6	-610.1	1,160.5	1,016.5	144.02	8.058	
18,680.3	10,600.0	17,525.1	9,458.0	138.0	254.9	9.62	7,926.4	-609.9	1,159.3	1,014.1	145.21	7.984	
18,700.0	10,600.0	17,536.4	9,458.0	138.3	255.3	9.63	7,937.7	-609.8	1,159.4	1,013.9	145.50	7.968	
18,800.0	10,600.0	17,616.9	9,456.4	139.9	257.7	9.70	8,018.1	-608.9	1,161.5	1,014.3	147.21	7.890	
18,900.0	10,600.0	17,720.3	9,454.1	141.5	260.9	9.65	8,121.5	-610.5	1,163.6	1,014.8	148.84	7.818	
19,000.0	10,600.0	17,817.4	9,451.6	143.1	263.8	9.55	8,218.6	-613.0	1,165.9	1,015.6	150.26	7.759	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #103H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.0 usft

Survey Program: 23-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
19,100.0	10,600.0	17,970.5	9,451.0	144.7	268.5	9.61	8,371.6	-613.3	1,166.6	1,014.0	152.62	7.644	
19,200.0	10,600.0	18,087.5	9,455.2	146.3	272.1	9.69	8,488.6	-613.5	1,163.1	1,008.4	154.70	7.519	
19,300.0	10,600.0	18,176.4	9,458.2	147.9	274.8	9.71	8,577.4	-614.4	1,159.9	1,003.5	156.42	7.415	
19,400.0	10,600.0	18,271.0	9,460.1	149.5	277.7	9.67	8,671.9	-616.6	1,157.7	999.7	157.99	7.327	
19,500.0	10,600.0	18,362.4	9,461.8	151.1	280.4	9.57	8,763.3	-619.8	1,155.4	996.0	159.37	7.250	
19,566.6	10,600.0	18,412.1	9,462.2	152.2	282.0	9.60	8,813.0	-619.9	1,154.9	994.5	160.44	7.198	
19,600.0	10,600.0	18,437.4	9,462.3	152.7	282.7	9.63	8,838.3	-619.5	1,155.0	994.0	161.04	7.172	
19,700.0	10,600.0	18,514.4	9,461.2	154.3	285.1	9.69	8,915.2	-618.7	1,156.7	994.0	162.72	7.109	
19,800.0	10,600.0	18,634.7	9,458.3	155.9	288.8	9.68	9,035.5	-619.8	1,159.3	994.6	164.62	7.042	
19,900.0	10,600.0	18,762.9	9,460.4	157.5	292.7	9.72	9,163.6	-620.5	1,157.4	990.6	166.74	6.941	
20,000.0	10,600.0	18,862.6	9,461.7	159.1	295.7	9.76	9,263.4	-620.9	1,156.2	987.6	168.60	6.857	
20,100.0	10,600.0	18,995.1	9,465.3	160.7	299.7	9.75	9,395.8	-623.0	1,153.5	982.9	170.50	6.765	
20,200.0	10,600.0	19,051.1	9,466.3	162.3	301.5	9.76	9,451.8	-623.5	1,151.4	979.4	171.99	6.694	
20,215.8	10,600.0	19,061.1	9,466.3	162.6	301.8	9.77	9,461.8	-623.5	1,151.3	979.1	172.23	6.685	
20,300.0	10,600.0	19,143.1	9,466.1	163.9	304.3	9.81	9,543.8	-623.4	1,151.7	977.9	173.80	6.627	
20,400.0	10,600.0	19,246.7	9,466.0	165.6	307.4	9.77	9,647.4	-625.2	1,151.7	976.2	175.45	6.564	
20,500.0	10,600.0	19,346.9	9,465.7	167.2	310.5	9.64	9,747.5	-628.7	1,151.5	974.8	176.76	6.515	
20,600.0	10,600.0	19,472.4	9,466.3	168.8	314.3	9.34	9,872.7	-636.3	1,150.2	972.6	177.66	6.474	
20,700.0	10,600.0	19,566.3	9,467.4	170.4	317.2	9.04	9,966.4	-643.4	1,148.1	969.7	178.38	6.436	
20,780.8	10,600.0	19,642.7	9,467.7	171.7	319.5	8.79	10,042.6	-649.4	1,146.9	968.0	178.90	6.411	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #113H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 188-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	-126.77	-17.9	-24.0	29.9				
100.0	100.0	100.2	100.2	0.1	0.2	-126.23	-17.5	-23.9	29.6	29.3	0.28	104.068	
200.0	200.0	200.4	200.3	0.5	0.3	-124.54	-16.3	-23.6	28.7	27.9	0.80	36.103	
300.0	300.0	300.3	300.3	0.8	0.7	-121.47	-14.5	-23.6	27.7	26.1	1.54	18.011	
400.0	400.0	400.4	400.3	1.2	1.1	-117.65	-12.3	-23.5	26.5	24.3	2.26	11.747	
500.0	500.0	500.2	500.2	1.6	1.4	-114.62	-10.7	-23.3	25.6	22.6	2.97	8.614	
572.0	572.0	572.1	572.0	1.8	1.7	-112.55	-9.7	-23.4	25.4	21.9	3.49	7.278	
600.0	600.0	600.0	600.0	1.9	1.8	-111.59	-9.4	-23.6	25.4	21.7	3.69	6.889	
700.0	700.0	700.2	700.1	2.3	2.1	-108.87	-8.2	-23.9	25.3	20.9	4.41	5.737	
800.0	800.0	800.1	800.0	2.6	2.5	-106.27	-7.0	-24.0	25.1	19.9	5.12	4.890	
808.1	808.1	808.1	808.1	2.7	2.5	-106.06	-6.9	-24.1	25.0	19.9	5.18	4.835	CC
900.0	900.0	900.0	899.9	3.0	2.8	-103.58	-5.9	-24.6	25.3	19.5	5.84	4.336	
1,000.0	1,000.0	1,000.0	999.9	3.4	3.2	-99.78	-4.4	-25.4	25.7	19.2	6.56	3.926	
1,100.0	1,100.0	1,100.0	1,099.8	3.7	3.6	-95.90	-2.7	-26.2	26.3	19.0	7.27	3.616	
1,200.0	1,200.0	1,199.9	1,199.8	4.1	3.9	-93.72	-1.8	-26.9	27.0	19.0	7.99	3.374	
1,300.0	1,300.0	1,299.9	1,299.8	4.4	4.3	-91.73	-0.8	-27.7	27.7	19.0	8.70	3.180	
1,400.0	1,400.0	1,400.0	1,399.8	4.8	4.6	-90.11	-0.1	-28.4	28.4	18.9	9.42	3.012	ES
1,500.0	1,500.0	1,499.8	1,499.6	5.1	5.0	-89.06	0.5	-29.2	29.2	19.1	10.13	2.885	
1,600.0	1,600.0	1,599.3	1,599.2	5.5	5.3	-88.11	1.0	-31.2	31.3	20.4	10.83	2.884	
1,700.0	1,700.0	1,699.2	1,699.0	5.9	5.7	-87.33	1.6	-34.0	34.1	22.6	11.54	2.954	
1,800.0	1,800.0	1,799.3	1,799.0	6.2	6.0	-86.68	2.1	-36.9	36.9	24.7	12.25	3.014	
1,900.0	1,900.0	1,899.6	1,899.3	6.6	6.4	-89.52	0.3	-39.0	39.0	26.0	12.95	3.008	
2,000.0	2,000.0	1,998.7	1,998.3	6.9	6.7	-96.29	-4.6	-41.6	41.9	28.3	13.64	3.074	
2,100.0	2,100.0	2,097.7	2,096.9	7.3	7.1	-103.94	-11.4	-45.8	47.3	33.0	14.31	3.305	
2,160.2	2,160.2	2,157.1	2,156.0	7.5	7.3	-109.07	-16.8	-48.7	51.7	37.0	14.72	3.512	
2,200.0	2,200.0	2,196.5	2,195.1	7.7	7.4	3.12	-21.1	-50.6	54.9	40.0	14.98	3.668	
2,300.0	2,300.0	2,295.4	2,293.2	8.0	7.8	-4.79	-32.7	-55.7	63.2	47.6	15.63	4.046	
2,400.0	2,399.9	2,394.7	2,391.6	8.3	8.2	-11.06	-44.6	-61.1	71.2	54.9	16.28	4.373	
2,500.0	2,499.8	2,494.2	2,490.2	8.7	8.6	-16.27	-56.5	-66.8	78.3	61.4	16.95	4.619	
2,600.0	2,599.6	2,593.8	2,589.0	9.0	9.0	-21.06	-68.4	-72.3	84.3	66.7	17.63	4.781	
2,700.0	2,699.2	2,693.3	2,687.6	9.3	9.5	-25.75	-80.4	-77.7	89.2	70.9	18.31	4.873	
2,800.0	2,798.7	2,792.6	2,786.1	9.7	9.9	-30.31	-92.5	-83.5	93.4	74.4	18.99	4.919	
2,900.0	2,897.9	2,892.0	2,884.5	10.1	10.4	-34.82	-104.7	-89.7	97.0	77.4	19.68	4.931	
2,960.2	2,957.6	2,951.9	2,943.8	10.3	10.7	-37.68	-112.1	-93.5	98.9	78.8	20.11	4.920	
3,000.0	2,997.0	2,991.6	2,983.1	10.4	10.8	-39.59	-117.0	-96.0	100.1	79.8	20.40	4.910	
3,100.0	3,096.0	3,090.7	3,081.2	10.8	11.3	-44.54	-129.7	-101.6	103.9	82.8	21.12	4.919	
3,200.0	3,195.1	3,188.9	3,178.3	11.2	11.8	-50.11	-143.7	-105.5	109.3	87.4	21.85	5.002	
3,300.0	3,294.1	3,287.7	3,275.9	11.5	12.3	-55.66	-158.7	-108.5	116.5	93.9	22.62	5.151	
3,400.0	3,393.1	3,389.5	3,376.6	11.9	12.8	-60.05	-173.3	-113.0	123.9	100.4	23.49	5.273	
3,500.0	3,492.1	3,489.7	3,475.8	12.3	13.3	-63.02	-186.0	-119.2	130.3	105.9	24.32	5.355	
3,600.0	3,591.2	3,589.4	3,574.5	12.7	13.8	-65.65	-198.4	-125.6	136.7	111.5	25.16	5.433	
3,700.0	3,690.2	3,689.2	3,673.3	13.1	14.3	-68.08	-210.8	-131.8	143.4	117.4	26.01	5.512	
3,800.0	3,789.2	3,789.7	3,772.9	13.4	14.8	-70.28	-222.8	-138.3	149.8	122.9	26.89	5.571	
3,900.0	3,888.3	3,889.4	3,871.7	13.8	15.3	-72.29	-234.4	-144.7	156.1	128.4	27.76	5.623	
4,000.0	3,987.3	3,989.2	3,970.7	14.2	15.8	-74.18	-246.1	-151.0	162.7	134.1	28.64	5.680	
4,100.0	4,086.3	4,088.1	4,068.7	14.6	16.3	-76.05	-257.3	-156.9	169.2	139.6	29.52	5.730	
4,200.0	4,185.3	4,184.2	4,163.9	15.0	16.8	-77.98	-269.6	-161.4	177.5	147.1	30.36	5.847	
4,300.0	4,284.4	4,281.4	4,260.2	15.4	17.3	-80.42	-282.9	-163.6	187.5	156.3	31.22	6.007	
4,400.0	4,383.4	4,378.9	4,356.7	15.8	17.8	-83.24	-296.4	-163.5	198.9	166.8	32.09	6.196	
4,500.0	4,482.4	4,478.0	4,454.8	16.2	18.3	-85.65	-310.7	-163.6	211.1	178.1	33.00	6.397	
4,600.0	4,581.4	4,578.6	4,554.3	16.6	18.8	-87.57	-325.1	-164.9	223.0	189.1	33.93	6.573	
4,700.0	4,680.5	4,677.2	4,651.9	17.0	19.3	-88.87	-339.4	-167.8	234.7	199.9	34.82	6.741	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #113H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 188-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	4,779.5	4,779.3	4,752.8	17.4	19.9	-89.97	-354.5	-171.3	246.5	210.7	35.78	6.890	
4,900.0	4,878.5	4,886.9	4,859.2	17.8	20.5	-90.61	-368.9	-177.8	256.0	219.2	36.80	6.957	
5,000.0	4,977.6	4,989.3	4,960.6	18.2	21.0	-91.03	-380.8	-185.6	263.1	225.4	37.74	6.973	
5,100.0	5,076.6	5,090.6	5,061.0	18.6	21.5	-91.61	-391.5	-193.0	269.6	230.9	38.67	6.973	
5,200.0	5,175.6	5,191.2	5,161.0	19.0	22.0	-92.37	-401.3	-199.5	275.7	236.1	39.59	6.963	
5,300.0	5,274.6	5,291.8	5,260.9	19.4	22.5	-93.23	-410.6	-205.7	281.6	241.0	40.51	6.950	
5,400.0	5,373.7	5,394.0	5,362.8	19.9	23.0	-94.51	-418.3	-210.4	286.8	245.3	41.45	6.919	
5,500.0	5,472.7	5,495.7	5,464.2	20.3	23.4	-96.09	-424.5	-213.8	291.6	249.3	42.36	6.884	
5,600.0	5,571.7	5,600.0	5,568.4	20.7	23.8	-98.16	-428.4	-215.8	295.4	252.1	43.28	6.826	
5,700.0	5,670.7	5,700.5	5,668.8	21.1	24.1	-100.48	-429.9	-217.0	298.3	254.1	44.16	6.755	
5,800.0	5,769.8	5,798.9	5,767.3	21.5	24.4	-102.69	-431.7	-218.0	301.9	256.9	45.01	6.708	
5,900.0	5,868.8	5,900.7	5,869.1	21.9	24.7	-104.99	-433.1	-218.9	305.8	259.9	45.86	6.669	
6,000.0	5,967.8	6,002.4	5,970.8	22.3	25.0	-107.51	-432.7	-219.3	309.1	262.5	46.67	6.624	
6,100.0	6,066.8	6,101.9	6,070.2	22.7	25.3	-110.02	-431.6	-219.7	312.6	265.1	47.45	6.588	
6,200.0	6,165.9	6,200.5	6,168.9	23.1	25.6	-112.45	-430.5	-220.1	316.6	268.4	48.20	6.568	
6,300.0	6,264.9	6,299.8	6,268.2	23.6	25.9	-114.83	-429.4	-220.5	321.3	272.3	48.93	6.565	
6,400.0	6,363.9	6,398.4	6,366.7	24.0	26.1	-117.12	-428.4	-220.8	326.4	276.8	49.65	6.575	
6,500.0	6,463.0	6,498.6	6,466.9	24.4	26.4	-119.38	-427.2	-221.3	332.1	281.7	50.35	6.595	
6,600.0	6,562.0	6,597.5	6,565.8	24.8	26.7	-121.54	-425.9	-221.8	338.0	287.0	51.03	6.623	
6,700.0	6,661.0	6,697.3	6,665.6	25.2	27.0	-123.61	-424.8	-222.5	344.3	292.6	51.71	6.659	
6,800.0	6,760.0	6,796.1	6,764.4	25.6	27.3	-125.56	-423.7	-223.4	351.0	298.6	52.37	6.701	
6,900.0	6,859.1	6,894.6	6,862.8	26.0	27.6	-127.36	-423.2	-224.3	358.2	305.1	53.03	6.754	
7,000.0	6,958.1	6,994.5	6,962.8	26.5	27.9	-129.03	-423.0	-225.5	365.7	312.0	53.70	6.810	
7,100.0	7,057.1	7,095.3	7,063.6	26.9	28.2	-130.65	-422.7	-227.1	373.1	318.7	54.36	6.863	
7,200.0	7,156.1	7,194.2	7,162.5	27.3	28.5	-132.20	-422.2	-228.7	380.6	325.6	55.01	6.919	
7,300.0	7,255.2	7,288.8	7,257.0	27.7	28.8	-133.63	-421.8	-230.0	388.8	333.2	55.62	6.990	
7,400.0	7,354.2	7,379.9	7,348.2	28.1	29.1	-135.02	-421.6	-229.2	399.3	343.1	56.18	7.107	
7,500.0	7,453.2	7,476.8	7,445.0	28.5	29.4	-136.44	-421.7	-227.3	411.2	354.4	56.76	7.244	
7,600.0	7,552.2	7,577.0	7,545.2	29.0	29.6	-137.78	-422.0	-225.5	423.2	365.9	57.39	7.375	
7,700.0	7,651.3	7,676.7	7,644.9	29.4	29.9	-139.03	-422.4	-224.0	435.3	377.2	58.01	7.503	
7,800.0	7,750.3	7,775.5	7,743.7	29.8	30.2	-140.17	-422.9	-222.6	447.3	388.7	58.63	7.629	
7,900.0	7,849.3	7,874.5	7,842.7	30.2	30.5	-141.26	-423.4	-221.2	459.6	400.4	59.26	7.757	
8,000.0	7,948.4	7,974.2	7,942.3	30.6	30.8	-142.33	-423.6	-219.9	472.0	412.1	59.89	7.881	
8,047.5	7,995.4	8,021.4	7,989.6	30.8	31.0	-142.82	-423.7	-219.3	477.8	417.7	60.18	7.940	
8,100.0	8,047.4	8,073.4	8,041.5	31.0	31.1	-143.37	-423.8	-218.7	484.1	423.5	60.51	8.000	
8,200.0	8,146.8	8,174.0	8,142.2	31.4	31.4	-144.25	-424.0	-217.6	494.3	433.1	61.15	8.082	
8,300.0	8,246.4	8,274.7	8,242.9	31.8	31.7	-144.89	-424.3	-216.8	502.1	440.3	61.80	8.125	
8,400.0	8,346.2	8,376.5	8,344.6	32.2	32.1	-145.32	-424.5	-216.3	507.6	445.1	62.47	8.126	
8,500.0	8,446.2	8,475.4	8,443.5	32.5	32.4	-145.56	-424.6	-215.9	510.8	447.7	63.11	8.094	
8,580.8	8,527.0	8,557.9	8,526.0	32.8	32.6	98.67	-424.7	-215.6	511.8	448.2	63.65	8.042	
8,600.0	8,546.2	8,577.4	8,545.6	32.9	32.7	98.67	-424.7	-215.6	511.9	448.1	63.77	8.026	
8,700.0	8,646.2	8,677.0	8,645.2	33.2	33.0	98.69	-424.9	-215.4	512.1	447.7	64.42	7.949	
8,800.0	8,746.2	8,778.6	8,746.8	33.5	33.3	98.71	-425.1	-215.4	512.1	447.0	65.09	7.868	
8,900.0	8,846.2	8,879.2	8,847.4	33.8	33.6	98.74	-425.4	-215.6	512.0	446.2	65.76	7.786	
9,000.0	8,946.2	8,981.3	8,949.4	34.1	34.0	98.82	-426.0	-216.1	511.5	445.1	66.44	7.699	
9,100.0	9,046.2	9,083.2	9,051.3	34.5	34.3	98.94	-426.9	-217.1	510.7	443.6	67.14	7.607	
9,200.0	9,146.2	9,184.3	9,152.4	34.8	34.7	99.08	-428.0	-218.5	509.6	441.7	67.83	7.513	
9,300.0	9,246.2	9,285.6	9,253.7	35.1	35.0	99.24	-429.2	-220.0	508.2	439.7	68.52	7.417	
9,400.0	9,346.2	9,383.9	9,352.0	35.4	35.4	99.37	-430.1	-221.6	506.8	437.6	69.19	7.324	
9,500.0	9,446.2	9,483.6	9,451.7	35.7	35.7	99.54	-431.4	-222.9	505.8	435.9	69.88	7.238	
9,600.0	9,546.2	9,580.2	9,548.2	36.1	36.0	99.42	-430.3	-223.4	505.0	434.5	70.51	7.162	
9,627.3	9,573.5	9,605.5	9,573.5	36.1	36.1	99.25	-428.8	-223.2	504.9	434.3	70.65	7.147	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #113H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 188-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
9,700.0	9,646.2	9,671.6	9,639.0	36.4	36.3	98.31	-420.6	-221.5	505.4	434.4	70.97	7.121	
9,800.0	9,746.2	9,780.6	9,743.8	36.7	36.6	94.99	-391.7	-217.3	506.2	434.8	71.39	7.090	
9,900.0	9,846.2	9,875.7	9,828.9	37.0	36.8	90.24	-349.7	-214.1	507.8	436.3	71.51	7.100	
10,000.0	9,946.2	9,934.1	9,877.2	37.3	36.9	86.56	-316.9	-210.9	516.2	445.3	70.92	7.279	
10,080.8	10,027.0	9,978.1	9,911.0	37.6	37.0	83.51	-289.0	-207.3	530.5	460.6	69.87	7.592	
10,100.0	10,046.2	9,988.2	9,918.4	37.7	37.0	82.91	-282.2	-206.3	534.8	465.3	69.55	7.689	
10,150.0	10,096.0	10,014.2	9,936.8	37.8	37.1	79.84	-264.0	-203.8	547.6	478.9	68.62	7.979	
10,200.0	10,145.3	10,039.8	9,953.8	38.0	37.2	76.76	-245.1	-201.2	561.9	494.4	67.56	8.318	
10,250.0	10,193.7	10,070.4	9,972.9	38.1	37.3	73.41	-221.3	-197.9	577.6	511.0	66.58	8.675	
10,300.0	10,240.9	10,108.7	9,994.9	38.2	37.4	69.79	-190.2	-194.6	593.4	527.6	65.79	9.020	
10,350.0	10,286.4	10,146.0	10,014.4	38.3	37.6	66.43	-158.5	-192.4	609.0	544.1	64.92	9.380	
10,400.0	10,329.9	10,179.7	10,030.4	38.4	37.8	63.46	-128.8	-191.0	624.2	560.2	63.97	9.757	
10,450.0	10,371.1	10,213.2	10,045.0	38.5	37.9	60.78	-98.7	-189.9	638.9	575.8	63.04	10.134	
10,500.0	10,409.8	10,243.0	10,057.0	38.6	38.1	58.48	-71.5	-189.2	652.8	590.8	62.05	10.521	
10,550.0	10,445.5	10,277.2	10,069.0	38.6	38.3	56.27	-39.4	-188.9	665.9	604.7	61.26	10.871	
10,600.0	10,478.0	10,307.6	10,078.0	38.7	38.5	54.37	-10.4	-189.0	678.1	617.7	60.40	11.226	
10,650.0	10,507.1	10,338.0	10,085.3	38.7	38.8	52.67	19.1	-189.5	689.2	629.6	59.60	11.563	
10,700.0	10,532.5	10,371.9	10,092.0	38.7	39.1	51.10	52.3	-190.5	699.1	640.1	59.00	11.848	
10,750.0	10,554.1	10,406.4	10,097.5	38.7	39.4	49.79	86.3	-191.7	707.3	648.8	58.52	12.086	
10,800.0	10,571.7	10,432.0	10,100.8	38.7	39.6	48.86	111.7	-192.7	714.0	655.9	58.07	12.296	
10,850.0	10,585.1	10,469.4	10,104.0	38.7	40.0	47.98	148.9	-194.3	719.0	661.0	57.93	12.412	
10,900.0	10,594.3	10,499.1	10,105.1	38.7	40.3	47.40	178.6	-195.8	722.5	664.7	57.84	12.492	
10,950.0	10,599.1	10,533.8	10,104.8	38.7	40.7	46.98	213.2	-197.5	724.5	666.6	57.93	12.507	
10,980.8	10,600.0	10,584.1	10,104.6	38.7	41.3	46.78	263.4	-200.4	724.1	665.9	58.27	12.426	
11,000.0	10,600.0	10,615.3	10,105.3	38.7	41.7	46.73	294.5	-202.5	723.1	664.5	58.55	12.349	
11,100.0	10,600.0	10,727.3	10,109.5	38.9	43.3	46.59	406.1	-210.6	715.9	656.1	59.87	11.959	
11,200.0	10,600.0	10,825.5	10,113.4	39.1	44.9	46.46	504.0	-218.0	708.4	647.2	61.24	11.568	
11,300.0	10,600.0	10,924.1	10,118.2	39.5	46.7	46.35	602.1	-226.0	700.0	637.2	62.78	11.149	
11,400.0	10,600.0	10,994.0	10,119.6	40.0	48.0	46.26	671.9	-229.7	695.2	631.1	64.01	10.860	
11,483.7	10,600.0	11,055.3	10,119.1	40.5	49.2	46.17	733.2	-231.4	694.3	629.2	65.17	10.655	
11,500.0	10,600.0	11,069.1	10,118.9	40.5	49.5	46.14	747.0	-231.7	694.3	628.9	65.41	10.615	
11,600.0	10,600.0	11,165.4	10,116.7	41.1	51.5	45.95	843.3	-233.8	695.1	628.0	67.17	10.349	
11,700.0	10,600.0	11,290.6	10,115.2	41.8	54.2	45.66	968.4	-238.6	693.8	624.4	69.45	9.990	
11,800.0	10,600.0	11,382.4	10,113.7	42.5	56.3	45.35	1,060.0	-243.3	692.0	620.8	71.22	9.717	
11,900.0	10,600.0	11,491.0	10,113.3	43.3	58.9	45.08	1,168.5	-248.5	689.5	616.1	73.44	9.390	
12,000.0	10,600.0	11,590.7	10,114.3	44.1	61.3	44.98	1,268.2	-252.2	686.8	611.1	75.74	9.069	
12,100.0	10,600.0	11,688.3	10,115.1	44.9	63.7	44.85	1,365.6	-256.2	684.1	606.1	78.02	8.768	
12,200.0	10,600.0	11,780.9	10,114.8	45.8	66.0	44.66	1,458.2	-259.9	682.2	602.0	80.20	8.506	
12,300.0	10,600.0	11,895.3	10,117.7	46.8	69.0	44.85	1,572.5	-260.9	680.6	597.2	83.37	8.163	
12,400.0	10,600.0	11,993.7	10,121.9	47.8	71.5	45.04	1,670.8	-262.8	676.9	590.6	86.27	7.846	
12,500.0	10,600.0	12,080.4	10,124.2	48.8	73.8	45.15	1,757.4	-264.2	674.6	585.8	88.85	7.593	
12,556.0	10,600.0	12,128.1	10,124.9	49.4	75.1	45.21	1,805.1	-264.4	674.3	584.0	90.29	7.468	
12,600.0	10,600.0	12,165.6	10,125.0	49.8	76.1	45.23	1,842.6	-264.4	674.5	583.1	91.39	7.381	
12,700.0	10,600.0	12,264.0	10,123.9	50.9	78.8	45.23	1,941.0	-264.4	676.0	581.8	94.19	7.176	
12,800.0	10,600.0	12,409.7	10,126.8	52.0	82.7	45.34	2,086.6	-266.9	674.2	575.8	98.38	6.853	
12,900.0	10,600.0	12,512.8	10,133.1	53.1	85.6	45.51	2,189.4	-271.4	667.5	565.8	101.66	6.566	
13,000.0	10,600.0	12,591.4	10,135.8	54.3	87.8	45.58	2,267.9	-273.9	663.4	559.1	104.23	6.364	
13,100.0	10,600.0	12,687.7	10,138.3	55.5	90.5	45.60	2,364.2	-277.0	660.1	552.9	107.20	6.157	
13,142.4	10,600.0	12,715.0	10,138.5	56.0	91.2	45.61	2,391.4	-277.4	659.6	551.5	108.09	6.102	
13,200.0	10,600.0	12,752.0	10,138.2	56.7	92.3	45.61	2,428.5	-277.3	660.5	551.2	109.25	6.046	
13,300.0	10,600.0	12,877.2	10,136.8	57.9	95.8	45.61	2,553.7	-277.2	662.1	549.0	113.07	5.856	
13,400.0	10,600.0	12,984.5	10,137.3	59.2	98.8	45.57	2,660.9	-279.5	661.0	544.6	116.32	5.682	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #113H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 188-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
13,500.0	10,600.0	13,086.6	10,138.6	60.5	101.8	45.52	2,762.9	-282.6	658.6	539.2	119.43	5.514	
13,582.7	10,600.0	13,155.4	10,140.5	61.5	103.7	45.66	2,831.7	-282.8	657.5	535.6	121.89	5.394	
13,600.0	10,600.0	13,166.7	10,140.7	61.8	104.1	45.69	2,843.1	-282.7	657.6	535.2	122.31	5.376	
13,700.0	10,600.0	13,235.0	10,139.6	63.1	106.0	45.78	2,911.3	-280.9	661.1	536.5	124.57	5.307	
13,800.0	10,600.0	13,364.4	10,138.9	64.4	109.7	46.05	3,040.6	-276.9	664.4	535.2	129.25	5.141	
13,900.0	10,600.0	13,462.2	10,140.3	65.7	112.6	46.30	3,138.3	-275.1	665.4	532.5	132.87	5.008	
14,000.0	10,600.0	13,557.3	10,138.7	67.1	115.3	46.30	3,233.4	-274.3	667.9	531.9	135.98	4.912	
14,100.0	10,600.0	13,672.6	10,136.2	68.4	118.7	46.12	3,348.7	-275.9	669.1	529.7	139.40	4.800	
14,200.0	10,600.0	13,780.4	10,136.0	69.8	121.8	46.04	3,456.5	-278.1	668.5	525.7	142.78	4.682	
14,300.0	10,600.0	13,879.4	10,137.7	71.2	124.7	46.15	3,555.4	-279.0	667.3	521.1	146.27	4.563	
14,341.5	10,600.0	13,914.6	10,137.9	71.8	125.8	46.16	3,590.6	-279.4	667.1	519.6	147.48	4.523	
14,400.0	10,600.0	13,959.9	10,137.2	72.6	127.1	46.11	3,636.0	-279.9	667.7	518.8	148.90	4.484	
14,500.0	10,600.0	14,066.0	10,134.0	74.0	130.2	45.93	3,742.0	-280.8	670.0	518.0	152.03	4.407	
14,600.0	10,600.0	14,195.7	10,136.1	75.5	134.1	46.07	3,871.7	-282.0	668.9	512.4	156.52	4.273	
14,659.8	10,600.0	14,232.9	10,136.3	76.3	135.2	46.07	3,908.9	-282.4	668.3	510.4	157.90	4.233	
14,700.0	10,600.0	14,263.3	10,135.9	76.9	136.1	46.04	3,939.2	-282.8	668.6	509.8	158.87	4.209	
14,800.0	10,600.0	14,361.2	10,133.4	78.3	139.0	45.89	4,037.1	-283.8	670.5	508.6	161.81	4.143	
14,900.0	10,600.0	14,493.3	10,134.9	79.8	142.9	45.84	4,169.1	-287.4	667.9	501.9	166.04	4.023	
14,970.4	10,600.0	14,543.7	10,136.0	80.8	144.4	45.91	4,219.5	-287.9	666.9	498.9	167.99	3.970	
15,000.0	10,600.0	14,567.2	10,136.2	81.2	145.1	45.95	4,243.0	-287.7	667.0	498.1	168.89	3.949	
15,100.0	10,600.0	14,654.5	10,135.9	82.7	147.7	46.04	4,330.3	-286.7	668.9	496.8	172.03	3.888	
15,200.0	10,600.0	14,740.9	10,133.3	84.2	150.2	46.01	4,416.6	-285.4	672.7	497.9	174.82	3.848	
15,300.0	10,600.0	14,846.3	10,128.4	85.6	153.4	45.84	4,522.0	-284.1	677.5	499.5	178.03	3.806	
15,396.7	10,600.0	14,970.2	10,129.0	87.1	157.1	45.82	4,645.7	-286.4	675.8	493.6	182.22	3.709	
15,400.0	10,600.0	14,972.0	10,129.0	87.1	157.1	45.82	4,647.6	-286.5	675.8	493.5	182.28	3.707	
15,500.0	10,600.0	15,026.9	10,128.1	88.6	158.8	45.87	4,702.4	-285.1	679.4	495.3	184.05	3.691	
15,600.0	10,600.0	15,147.3	10,123.3	90.1	162.4	45.88	4,822.7	-281.3	685.3	496.9	188.36	3.638	
15,700.0	10,600.0	15,275.6	10,119.3	91.6	166.2	45.52	4,950.8	-284.6	686.1	494.2	191.83	3.576	
15,764.5	10,600.0	15,338.6	10,116.1	92.6	168.1	45.13	5,013.6	-288.6	685.9	492.9	192.94	3.555	
15,800.0	10,600.0	15,370.8	10,114.4	93.1	169.1	44.93	5,045.7	-290.5	686.0	492.4	193.51	3.545	
15,900.0	10,600.0	15,468.1	10,109.9	94.6	172.0	44.48	5,142.8	-294.8	686.8	491.3	195.55	3.512	
16,000.0	10,600.0	15,552.9	10,106.9	96.2	174.5	44.24	5,227.5	-296.8	688.5	490.8	197.69	3.483	
16,100.0	10,600.0	15,692.9	10,101.7	97.7	178.7	43.83	5,367.4	-299.9	691.0	489.8	201.16	3.435	
16,175.3	10,600.0	15,749.9	10,100.9	98.8	180.5	43.69	5,424.3	-302.0	690.2	487.5	202.76	3.404	
16,200.0	10,600.0	15,770.1	10,100.4	99.2	181.1	43.64	5,444.5	-302.6	690.3	487.0	203.29	3.396	
16,300.0	10,600.0	15,855.6	10,097.3	100.7	183.6	43.40	5,530.0	-304.5	692.0	486.6	205.41	3.369	
16,400.0	10,600.0	15,949.0	10,092.3	102.3	186.5	43.07	5,623.1	-306.2	695.4	487.9	207.49	3.351	
16,500.0	10,600.0	16,041.9	10,085.8	103.8	189.3	42.62	5,715.8	-308.5	699.6	490.5	209.12	3.345	
16,600.0	10,600.0	16,188.6	10,083.2	105.3	193.7	42.31	5,862.3	-312.7	698.9	485.9	213.05	3.281	
16,634.4	10,600.0	16,209.6	10,083.5	105.9	194.3	42.33	5,883.3	-312.9	698.6	484.7	213.86	3.267	
16,700.0	10,600.0	16,251.0	10,083.1	106.9	195.6	42.35	5,924.7	-312.6	699.8	484.6	215.23	3.251	
16,800.0	10,600.0	16,356.1	10,080.2	108.4	198.7	42.30	6,029.7	-311.7	703.1	484.5	218.58	3.217	
16,900.0	10,600.0	16,465.3	10,077.9	110.0	202.0	42.20	6,138.9	-312.5	704.7	482.9	221.87	3.176	
17,000.0	10,600.0	16,564.1	10,074.5	111.5	205.0	41.97	6,237.6	-314.1	706.9	482.5	224.37	3.151	
17,100.0	10,600.0	16,680.7	10,072.4	113.1	208.6	41.69	6,354.1	-318.1	706.6	479.4	227.22	3.110	
17,200.0	10,600.0	16,786.6	10,071.9	114.7	211.8	41.55	6,460.0	-321.1	705.7	475.5	230.17	3.066	
17,300.0	10,600.0	16,882.5	10,071.7	116.2	214.7	41.38	6,555.8	-324.6	704.1	471.4	232.73	3.025	
17,362.2	10,600.0	16,937.7	10,070.7	117.2	216.3	41.23	6,611.0	-326.7	703.8	469.7	234.04	3.007	
17,400.0	10,600.0	16,970.9	10,070.1	117.8	217.3	41.16	6,644.2	-327.6	703.9	469.0	234.87	2.997	
17,500.0	10,600.0	17,073.1	10,068.1	119.3	220.4	41.00	6,746.3	-329.5	704.8	467.2	237.62	2.966	
17,600.0	10,600.0	17,191.6	10,066.9	120.9	224.0	40.76	6,864.7	-333.6	703.9	463.5	240.48	2.927	
17,695.4	10,600.0	17,271.1	10,067.0	122.4	226.4	40.68	6,944.2	-335.7	702.8	460.0	242.86	2.894	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #113H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 188-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
17,700.0	10,600.0	17,274.9	10,067.0	122.5	226.6	40.68	6,948.0	-335.7	702.9	459.9	242.99	2.892	
17,800.0	10,600.0	17,356.6	10,066.6	124.1	229.0	40.74	7,029.7	-335.3	704.2	458.4	245.81	2.865	
17,900.0	10,600.0	17,473.9	10,064.4	125.6	232.6	40.70	7,147.0	-335.2	706.5	457.0	249.52	2.831	
18,000.0	10,600.0	17,576.2	10,063.8	127.2	235.7	40.63	7,249.3	-336.7	706.5	454.0	252.59	2.797	
18,003.1	10,600.0	17,579.4	10,063.8	127.3	235.8	40.63	7,252.4	-336.8	706.5	453.9	252.68	2.796	
18,100.0	10,600.0	17,648.4	10,062.5	128.8	237.9	40.62	7,321.4	-336.6	708.6	453.8	254.76	2.781	
18,200.0	10,600.0	17,759.2	10,060.8	130.4	241.3	40.77	7,432.2	-333.8	712.2	453.1	259.05	2.749	
18,300.0	10,600.0	17,849.5	10,059.2	132.0	244.0	40.84	7,522.4	-332.2	715.2	453.0	262.21	2.728	
18,400.0	10,600.0	17,935.1	10,056.0	133.5	246.6	40.81	7,608.0	-330.7	719.9	455.2	264.70	2.720	
18,500.0	10,600.0	18,067.7	10,053.6	135.1	250.6	40.86	7,740.5	-329.2	722.5	453.0	269.50	2.681	
18,600.0	10,600.0	18,164.6	10,051.4	136.7	253.6	40.82	7,837.4	-328.9	725.0	452.4	272.51	2.660	
18,700.0	10,600.0	18,291.2	10,054.1	138.3	257.4	40.95	7,964.0	-330.3	722.9	445.8	277.11	2.609	
18,800.0	10,600.0	18,377.2	10,054.9	139.9	260.0	40.95	8,049.9	-331.8	721.7	441.7	280.02	2.577	
18,806.7	10,600.0	18,382.8	10,054.9	140.0	260.2	40.94	8,055.5	-331.9	721.7	441.5	280.19	2.576	
18,900.0	10,600.0	18,461.3	10,053.4	141.5	262.6	40.83	8,134.0	-333.2	722.6	440.4	282.27	2.560	
19,000.0	10,600.0	18,547.4	10,051.0	143.1	265.2	40.79	8,220.1	-332.8	725.7	440.9	284.78	2.548	
19,100.0	10,600.0	18,664.4	10,047.6	144.7	268.8	40.80	8,337.0	-330.9	729.7	441.0	288.77	2.527	
19,200.0	10,600.0	18,775.9	10,048.6	146.3	272.2	40.93	8,448.5	-330.6	729.8	436.8	293.03	2.491	
19,300.0	10,600.0	18,878.8	10,049.2	147.9	275.3	40.99	8,551.4	-331.2	729.7	433.1	296.65	2.460	
19,400.0	10,600.0	18,977.6	10,048.9	149.5	278.3	40.93	8,650.2	-332.9	729.4	429.8	299.62	2.434	
19,500.0	10,600.0	19,091.3	10,050.2	151.1	281.8	40.98	8,763.9	-334.4	728.3	424.8	303.49	2.400	
19,600.0	10,600.0	19,190.4	10,053.1	152.7	284.8	41.10	8,862.9	-335.8	725.8	418.5	307.35	2.362	
19,652.0	10,600.0	19,228.4	10,053.9	153.5	285.9	41.16	8,900.8	-335.8	725.3	416.4	308.99	2.348	
19,700.0	10,600.0	19,265.0	10,054.3	154.3	287.1	41.24	8,937.5	-335.2	725.8	415.2	310.55	2.337	
19,800.0	10,600.0	19,353.8	10,054.1	155.9	289.8	41.41	9,026.3	-333.0	728.2	414.0	314.26	2.317	
19,900.0	10,600.0	19,438.9	10,052.3	157.5	292.4	41.51	9,111.3	-330.6	732.3	415.0	317.32	2.308	
20,000.0	10,600.0	19,570.4	10,050.6	159.1	296.4	41.66	9,242.7	-327.9	735.3	412.6	322.71	2.279	
20,100.0	10,600.0	19,666.5	10,050.9	160.7	299.3	41.78	9,338.8	-327.0	736.3	409.8	326.49	2.255	
20,200.0	10,600.0	19,757.2	10,049.0	162.3	302.1	41.72	9,429.5	-327.2	738.4	409.2	329.20	2.243	
20,300.0	10,600.0	19,873.8	10,044.9	163.9	305.6	41.48	9,546.0	-328.8	741.0	409.1	331.91	2.232	
20,400.0	10,600.0	20,002.0	10,045.4	165.6	309.5	41.29	9,674.1	-333.9	738.5	403.6	334.89	2.205	
20,500.0	10,600.0	20,102.5	10,046.0	167.2	312.6	41.05	9,774.4	-339.6	735.0	398.0	336.97	2.181	
20,587.0	10,600.0	20,164.0	10,046.0	168.6	314.5	40.85	9,835.8	-343.4	732.4	394.1	338.28	2.165	SF
20,600.0	10,600.0	20,164.0	10,046.0	168.8	314.5	40.85	9,835.8	-343.4	732.5	394.2	338.27	2.166	
20,700.0	10,600.0	20,164.0	10,046.0	170.4	314.5	40.85	9,835.8	-343.4	741.1	406.1	334.93	2.213	
20,780.8	10,600.0	20,164.0	10,046.0	171.7	314.5	40.85	9,835.8	-343.4	757.6	429.3	328.35	2.307	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 50-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	-126.96	-72.1	-95.9	120.0				
100.0	100.0	99.4	99.4	0.1	0.2	-127.23	-72.8	-95.8	120.3	119.9	0.35	348.405	
200.0	200.0	199.5	199.5	0.5	0.6	-127.27	-73.1	-96.0	120.7	119.6	1.06	114.015	
300.0	300.0	299.4	299.3	0.8	0.9	-127.24	-73.3	-96.5	121.2	119.4	1.77	68.323	
400.0	400.0	398.8	398.8	1.2	1.3	-127.23	-73.7	-97.0	121.9	119.4	2.49	48.974	
500.0	500.0	498.5	498.5	1.6	1.6	-127.27	-74.5	-97.9	123.0	119.8	3.20	38.383	
600.0	600.0	598.4	598.4	1.9	2.0	-127.36	-75.4	-98.8	124.3	120.4	3.92	31.712	
700.0	700.0	698.8	698.8	2.3	2.4	-127.45	-76.5	-99.8	125.7	121.1	4.64	27.105	
800.0	800.0	799.2	799.1	2.6	2.7	-127.55	-77.1	-100.3	126.6	121.2	5.36	23.625	
900.0	900.0	899.1	899.1	3.0	3.1	-127.68	-77.8	-100.7	127.2	121.2	6.07	20.952	
1,000.0	1,000.0	998.5	998.4	3.4	3.4	-127.90	-78.7	-101.1	128.2	121.4	6.79	18.883	
1,100.0	1,100.0	1,098.3	1,098.2	3.7	3.8	-128.23	-80.1	-101.7	129.4	121.9	7.50	17.251	
1,200.0	1,200.0	1,198.2	1,198.1	4.1	4.2	-128.57	-81.6	-102.3	130.9	122.7	8.22	15.923	
1,300.0	1,300.0	1,297.9	1,297.8	4.4	4.5	-128.96	-83.3	-103.0	132.5	123.6	8.93	14.831	
1,400.0	1,400.0	1,399.3	1,399.2	4.8	4.9	-129.99	-85.9	-102.4	133.6	124.0	9.65	13.847	
1,500.0	1,500.0	1,504.1	1,503.8	5.1	5.2	-132.33	-89.3	-98.0	132.7	122.3	10.37	12.799	
1,600.0	1,600.0	1,603.6	1,603.1	5.5	5.6	-135.45	-92.6	-91.2	130.0	118.9	11.07	11.743	
1,700.0	1,700.0	1,702.6	1,701.9	5.9	5.9	-137.89	-95.0	-85.9	128.1	116.3	11.77	10.883	
1,796.2	1,796.2	1,797.2	1,796.4	6.2	6.2	-139.11	-96.3	-83.4	127.4	114.9	12.45	10.235	
1,800.0	1,800.0	1,800.6	1,799.8	6.2	6.3	-139.14	-96.3	-83.3	127.4	114.9	12.47	10.214 ES	
1,900.0	1,900.0	1,896.0	1,895.2	6.6	6.6	-139.28	-98.0	-84.4	129.4	116.3	13.16	9.834	
2,000.0	2,000.0	1,992.7	1,991.7	6.9	6.9	-138.95	-101.2	-88.1	134.4	120.6	13.85	9.706	
2,100.0	2,100.0	2,089.5	2,088.3	7.3	7.3	-138.82	-106.2	-92.9	141.6	127.1	14.53	9.743	
2,160.2	2,160.2	2,147.1	2,145.7	7.5	7.5	-138.88	-110.2	-96.2	147.1	132.1	14.94	9.846	
2,200.0	2,200.0	2,185.6	2,184.0	7.7	7.6	-23.25	-113.4	-98.7	151.0	135.8	15.20	9.937	
2,300.0	2,300.0	2,284.3	2,282.0	8.0	8.0	-23.53	-121.8	-105.6	160.6	144.8	15.88	10.118	
2,400.0	2,399.9	2,384.6	2,381.7	8.3	8.4	-24.00	-130.2	-112.7	168.6	152.0	16.57	10.170	
2,500.0	2,499.8	2,484.5	2,481.0	8.7	8.8	-24.75	-138.6	-119.4	174.8	157.5	17.27	10.119	
2,600.0	2,599.6	2,584.7	2,580.7	9.0	9.1	-25.62	-146.8	-126.2	179.3	161.3	17.97	9.975	
2,700.0	2,699.2	2,682.8	2,678.2	9.3	9.5	-26.74	-155.0	-132.8	182.3	163.7	18.65	9.777	
2,800.0	2,798.7	2,778.1	2,772.7	9.7	9.9	-28.14	-164.7	-140.0	186.0	166.7	19.29	9.640	
2,900.0	2,897.9	2,873.1	2,866.7	10.1	10.2	-29.83	-176.6	-148.3	190.7	170.8	19.92	9.574	
2,960.2	2,957.6	2,931.0	2,923.7	10.3	10.5	-30.94	-184.7	-153.9	194.1	173.7	20.31	9.555	
3,000.0	2,997.0	2,971.3	2,963.3	10.4	10.6	-31.74	-190.4	-157.9	196.2	175.6	20.61	9.524	
3,100.0	3,096.0	3,072.4	3,063.0	10.8	11.1	-33.68	-204.5	-167.5	201.4	180.0	21.35	9.433	
3,200.0	3,195.1	3,172.9	3,162.2	11.2	11.5	-35.59	-218.0	-176.5	206.1	184.0	22.09	9.333	
3,300.0	3,294.1	3,273.4	3,261.4	11.5	11.9	-37.36	-231.1	-185.5	210.7	187.9	22.83	9.231	
3,400.0	3,393.1	3,373.7	3,360.6	11.9	12.3	-39.18	-244.1	-193.9	215.2	191.6	23.57	9.128	
3,500.0	3,492.1	3,474.3	3,460.0	12.3	12.7	-40.91	-256.8	-202.3	219.5	195.1	24.32	9.023	
3,600.0	3,591.2	3,575.2	3,559.8	12.7	13.1	-42.70	-269.3	-210.1	223.5	198.4	25.08	8.910	
3,700.0	3,690.2	3,675.9	3,659.5	13.1	13.5	-44.40	-281.2	-217.8	227.2	201.4	25.85	8.791	
3,800.0	3,789.2	3,779.2	3,761.9	13.4	14.0	-46.16	-292.6	-225.1	230.1	203.5	26.64	8.637	
3,900.0	3,888.3	3,873.4	3,855.2	13.8	14.3	-47.69	-303.5	-232.0	233.9	206.5	27.33	8.556	
4,000.0	3,987.3	3,971.1	3,951.8	14.2	14.7	-49.00	-316.0	-240.5	239.3	211.2	28.07	8.526	
4,100.0	4,086.3	4,073.9	4,053.5	14.6	15.2	-50.40	-328.8	-249.0	244.5	215.6	28.88	8.464	
4,200.0	4,185.3	4,174.2	4,152.7	15.0	15.6	-51.95	-340.6	-256.0	248.8	219.2	29.66	8.389	
4,300.0	4,284.4	4,271.1	4,248.7	15.4	16.0	-53.59	-352.9	-262.1	254.1	223.7	30.41	8.358	
4,400.0	4,383.4	4,370.7	4,347.2	15.8	16.4	-55.65	-366.5	-266.5	260.3	229.1	31.19	8.345	
4,500.0	4,482.4	4,472.9	4,448.5	16.2	16.8	-57.57	-379.5	-271.3	266.0	234.0	32.02	8.307	
4,600.0	4,581.4	4,574.1	4,548.8	16.6	17.2	-59.27	-391.6	-276.6	271.1	238.3	32.84	8.256	
4,700.0	4,680.5	4,679.5	4,653.5	17.0	17.7	-61.13	-403.2	-281.3	275.5	241.8	33.70	8.176	
4,800.0	4,779.5	4,781.8	4,755.2	17.4	18.1	-62.55	-412.0	-287.4	277.9	243.4	34.52	8.050	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 50-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	4,878.5	4,885.4	4,858.3	17.8	18.5	-64.06	-420.4	-293.1	279.8	244.5	35.35	7.916	
5,000.0	4,977.6	4,992.3	4,964.6	18.2	18.9	-65.04	-426.9	-301.7	279.8	243.6	36.18	7.734	
5,100.0	5,076.6	5,096.7	5,068.7	18.6	19.3	-66.24	-430.9	-309.0	277.8	240.8	36.99	7.510	
5,200.0	5,175.6	5,196.0	5,167.9	19.0	19.6	-67.87	-434.1	-313.8	275.3	237.5	37.79	7.283	
5,300.0	5,274.6	5,298.7	5,270.4	19.4	20.0	-69.74	-436.8	-318.0	272.6	234.0	38.61	7.060	
5,400.0	5,373.7	5,402.9	5,374.6	19.9	20.4	-72.20	-437.4	-320.1	268.3	228.9	39.41	6.807	
5,500.0	5,472.7	5,502.1	5,473.8	20.3	20.7	-74.95	-437.0	-320.6	263.9	223.6	40.23	6.559	
5,600.0	5,571.7	5,600.9	5,572.6	20.7	21.0	-77.73	-436.8	-321.4	260.2	219.1	41.05	6.339	
5,700.0	5,670.7	5,700.7	5,672.4	21.1	21.3	-80.57	-436.6	-322.3	257.1	215.2	41.87	6.141	
5,800.0	5,769.8	5,799.3	5,771.0	21.5	21.6	-83.43	-436.2	-323.3	254.4	211.8	42.68	5.961	
5,900.0	5,868.8	5,898.8	5,870.5	21.9	22.0	-86.37	-436.1	-324.1	252.8	209.3	43.50	5.812	
6,000.0	5,967.8	5,998.1	5,969.8	22.3	22.3	-89.25	-435.8	-325.5	251.4	207.1	44.30	5.675	
6,100.0	6,066.8	6,097.5	6,069.2	22.7	22.6	-92.22	-435.5	-326.6	250.8	205.7	45.10	5.561	
6,152.6	6,119.0	6,149.6	6,121.3	22.9	22.8	-93.82	-435.2	-327.1	250.7	205.2	45.51	5.508	
6,200.0	6,165.9	6,196.4	6,168.0	23.1	23.0	-95.25	-434.9	-327.5	250.8	204.9	45.88	5.465	
6,300.0	6,264.9	6,295.5	6,267.1	23.6	23.3	-98.24	-434.5	-328.4	251.6	204.9	46.66	5.392	
6,400.0	6,363.9	6,393.6	6,365.3	24.0	23.6	-101.19	-434.2	-329.3	253.2	205.8	47.42	5.339	
6,500.0	6,463.0	6,492.8	6,464.5	24.4	23.9	-104.19	-433.9	-329.7	255.7	207.5	48.16	5.310	
6,600.0	6,562.0	6,590.8	6,562.4	24.8	24.3	-107.15	-433.5	-329.9	259.1	210.2	48.88	5.301	
6,700.0	6,661.0	6,691.3	6,662.9	25.2	24.6	-110.04	-433.2	-330.2	263.1	213.5	49.60	5.305	
6,800.0	6,760.0	6,791.5	6,763.1	25.6	24.9	-112.84	-432.6	-331.0	267.3	216.9	50.31	5.313	
6,900.0	6,859.1	6,889.3	6,860.9	26.0	25.3	-115.45	-432.2	-331.8	272.1	221.1	51.00	5.336	
7,000.0	6,958.1	6,989.4	6,961.0	26.5	25.6	-117.91	-432.2	-332.8	277.6	225.9	51.70	5.370	
7,100.0	7,057.1	7,090.2	7,061.8	26.9	25.9	-120.26	-432.0	-334.5	282.9	230.5	52.40	5.400	
7,200.0	7,156.1	7,188.1	7,159.7	27.3	26.3	-122.52	-431.5	-335.9	288.8	235.7	53.07	5.441	
7,300.0	7,255.2	7,286.3	7,257.9	27.7	26.6	-124.69	-431.3	-336.9	295.5	241.7	53.74	5.499	
7,400.0	7,354.2	7,384.9	7,356.5	28.1	27.0	-126.73	-431.4	-338.0	302.8	248.4	54.41	5.565	
7,500.0	7,453.2	7,483.2	7,454.8	28.5	27.3	-128.61	-431.8	-338.9	310.7	255.6	55.08	5.641	
7,600.0	7,552.2	7,582.7	7,554.2	29.0	27.6	-130.43	-432.2	-339.6	319.1	263.4	55.75	5.724	
7,700.0	7,651.3	7,682.8	7,654.4	29.4	28.0	-132.24	-432.2	-340.5	327.6	271.1	56.42	5.805	
7,800.0	7,750.3	7,781.8	7,753.4	29.8	28.3	-133.88	-432.4	-341.6	336.1	279.0	57.09	5.887	
7,900.0	7,849.3	7,880.9	7,852.5	30.2	28.7	-135.43	-432.7	-342.6	345.1	287.3	57.76	5.974	
8,000.0	7,948.4	7,981.0	7,952.5	30.6	29.0	-136.90	-433.1	-343.8	354.1	295.7	58.44	6.060	
8,047.5	7,995.4	8,027.3	7,998.8	30.8	29.2	-137.57	-433.2	-344.4	358.4	299.7	58.75	6.101	
8,100.0	8,047.4	8,076.9	8,048.5	31.0	29.4	-138.33	-433.0	-344.7	363.3	304.2	59.07	6.151	
8,200.0	8,146.8	8,174.0	8,145.6	31.4	29.7	-139.66	-432.3	-344.4	371.9	312.2	59.68	6.232	
8,300.0	8,246.4	8,273.6	8,245.2	31.8	30.0	-140.67	-431.8	-343.9	378.9	318.6	60.32	6.282	
8,400.0	8,346.2	8,374.0	8,345.5	32.2	30.3	-141.36	-431.4	-343.5	383.9	322.9	60.97	6.296	
8,500.0	8,446.2	8,473.7	8,445.3	32.5	30.6	-141.78	-430.9	-343.2	386.8	325.1	61.62	6.276	
8,580.8	8,527.0	8,554.0	8,525.5	32.8	30.9	102.34	-430.4	-342.9	387.7	325.5	62.14	6.239	
8,600.0	8,546.2	8,573.1	8,544.6	32.9	30.9	102.32	-430.3	-342.8	387.8	325.5	62.26	6.228	
8,700.0	8,646.2	8,673.2	8,644.8	33.2	31.3	102.24	-429.9	-342.3	388.2	325.2	62.91	6.170	
8,800.0	8,746.2	8,774.4	8,745.9	33.5	31.6	102.16	-429.4	-342.0	388.4	324.8	63.57	6.109	
8,900.0	8,846.2	8,875.3	8,846.9	33.8	31.9	102.13	-429.2	-342.0	388.3	324.0	64.24	6.044	
9,000.0	8,946.2	8,975.4	8,946.9	34.1	32.3	102.16	-429.3	-342.2	388.1	323.2	64.92	5.978	
9,100.0	9,046.2	9,075.5	9,047.1	34.5	32.6	102.18	-429.4	-342.4	387.9	322.3	65.60	5.913	
9,200.0	9,146.2	9,177.6	9,149.2	34.8	33.0	102.22	-429.6	-342.9	387.5	321.2	66.30	5.844	
9,300.0	9,246.2	9,279.0	9,250.6	35.1	33.3	102.28	-429.7	-344.1	386.4	319.4	67.00	5.767	
9,400.0	9,346.2	9,378.8	9,350.4	35.4	33.7	102.38	-430.2	-345.3	385.3	317.6	67.68	5.693	
9,500.0	9,446.2	9,481.6	9,453.1	35.7	34.1	102.62	-431.4	-347.0	384.0	315.6	68.40	5.614	
9,600.0	9,546.2	9,581.0	9,552.4	36.1	34.4	102.83	-432.4	-349.1	382.1	313.0	69.09	5.530	
9,700.0	9,646.2	9,675.7	9,647.1	36.4	34.7	102.88	-432.5	-350.2	381.0	311.3	69.72	5.465	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 50-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	9,746.2	9,777.7	9,749.2	36.7	35.1	102.82	-432.1	-350.3	380.8	310.4	70.41	5.408	
9,900.0	9,846.2	9,877.6	9,849.1	37.0	35.4	102.73	-431.3	-351.0	379.9	308.8	71.07	5.346	
10,000.0	9,946.2	9,978.0	9,949.5	37.3	35.7	102.61	-430.3	-351.7	379.1	307.4	71.74	5.284	
10,080.8	10,027.0	10,058.7	10,030.2	37.6	36.0	102.55	-429.8	-352.2	378.4	306.1	72.28	5.235	
10,100.0	10,046.2	10,077.9	10,049.4	37.7	36.1	103.17	-429.7	-352.4	378.3	305.9	72.41	5.225	
10,102.6	10,048.7	10,080.6	10,052.0	37.7	36.1	103.18	-429.7	-352.4	378.3	305.9	72.43	5.223	
10,150.0	10,096.0	10,128.9	10,100.4	37.8	36.3	103.69	-429.5	-352.9	378.7	305.9	72.78	5.204	
10,200.0	10,145.3	10,179.1	10,150.5	38.0	36.4	104.76	-429.4	-353.5	380.1	307.0	73.15	5.196	
10,250.0	10,193.7	10,227.2	10,198.6	38.1	36.6	106.25	-429.4	-354.2	382.9	309.3	73.53	5.207	
10,300.0	10,240.9	10,274.0	10,245.4	38.2	36.8	108.08	-429.5	-354.8	387.4	313.5	73.91	5.241	
10,350.0	10,286.4	10,319.4	10,290.8	38.3	36.9	110.12	-429.7	-355.4	394.1	319.8	74.29	5.305	
10,400.0	10,329.9	10,362.9	10,334.3	38.4	37.1	112.20	-430.0	-356.1	403.5	328.9	74.66	5.404	
10,450.0	10,371.1	10,404.3	10,375.7	38.5	37.2	114.19	-430.2	-356.7	415.9	340.9	75.01	5.545	
10,500.0	10,409.8	10,445.3	10,416.7	38.6	37.4	116.09	-430.3	-357.3	431.7	356.4	75.34	5.731	
10,550.0	10,445.5	10,491.2	10,462.6	38.6	37.5	118.08	-428.0	-357.2	450.6	375.0	75.62	5.958	
10,600.0	10,478.0	10,545.4	10,516.3	38.7	37.7	120.29	-421.2	-355.8	472.0	396.3	75.78	6.229	
10,650.0	10,507.1	10,626.3	10,594.4	38.7	37.9	123.71	-400.8	-352.0	494.3	419.0	75.36	6.559	
10,700.0	10,532.5	10,733.0	10,690.1	38.7	38.2	127.28	-354.6	-344.7	515.2	441.5	73.68	6.993	
10,750.0	10,554.1	10,837.1	10,770.6	38.7	38.3	128.98	-290.1	-333.2	533.9	462.3	71.56	7.460	
10,800.0	10,571.7	10,923.6	10,824.0	38.7	38.5	128.83	-223.8	-318.7	550.3	480.1	70.17	7.841	
10,850.0	10,585.1	10,973.1	10,850.6	38.7	38.5	127.88	-183.3	-308.4	568.1	498.1	69.99	8.116	
10,900.0	10,594.3	11,029.9	10,879.1	38.7	38.6	126.95	-136.0	-295.5	588.0	518.4	69.56	8.454	
10,950.0	10,599.1	11,095.4	10,911.5	38.7	38.7	126.48	-80.6	-282.1	609.2	540.4	68.73	8.863	
10,980.8	10,600.0	11,161.5	10,942.1	38.7	38.9	127.01	-23.1	-270.9	622.1	554.6	67.54	9.211	
11,000.0	10,600.0	11,000.0	10,941.3	38.7	38.5	126.98	-23.3	-271.4	629.5	562.0	67.47	9.330	
11,100.0	10,600.0	11,481.0	11,033.8	38.9	39.8	132.08	280.1	-247.4	651.0	587.3	63.69	10.222	
11,200.0	10,600.0	11,611.0	11,045.4	39.1	40.2	132.61	409.5	-244.8	659.1	595.1	64.03	10.295	
11,300.0	10,600.0	11,752.3	11,045.7	39.5	40.8	132.34	550.7	-241.2	661.9	596.6	65.22	10.148	
11,400.0	10,600.0	11,855.6	11,044.0	40.0	41.4	132.19	654.0	-241.6	661.3	595.0	66.26	9.979	
11,500.0	10,600.0	11,955.2	11,041.7	40.5	42.0	131.96	753.6	-241.2	660.7	593.2	67.43	9.798	
11,600.0	10,600.0	12,057.9	11,038.4	41.1	42.6	131.64	856.2	-240.4	659.8	591.0	68.78	9.593	
11,700.0	10,600.0	12,157.1	11,034.5	41.8	43.3	131.27	955.3	-239.4	658.7	588.5	70.23	9.380	
11,800.0	10,600.0	12,260.6	11,032.1	42.5	44.1	131.07	1,058.8	-239.6	657.8	586.1	71.69	9.175	
11,900.0	10,600.0	12,363.5	11,030.0	43.3	44.9	130.97	1,161.7	-241.3	656.0	582.9	73.16	8.967	
12,000.0	10,600.0	12,469.5	11,030.8	44.1	45.8	131.24	1,267.5	-246.1	653.8	579.3	74.47	8.779	
12,100.0	10,600.0	12,569.4	11,030.6	44.9	46.7	131.44	1,367.4	-250.8	650.9	575.1	75.82	8.586	
12,200.0	10,600.0	12,657.2	11,031.3	45.8	47.5	131.65	1,455.0	-254.5	649.1	572.0	77.01	8.428	
12,300.0	10,600.0	12,759.4	11,032.9	46.8	48.4	131.91	1,557.2	-258.1	648.2	569.7	78.46	8.261	
12,400.0	10,600.0	12,867.2	11,032.7	47.8	49.5	132.05	1,665.0	-261.7	646.3	566.2	80.15	8.064	
12,500.0	10,600.0	12,965.2	11,031.6	48.8	50.5	132.11	1,762.9	-264.9	643.8	562.1	81.79	7.872	
12,568.2	10,600.0	13,019.7	11,031.7	49.5	51.1	132.17	1,817.3	-266.3	643.1	560.4	82.70	7.777	
12,600.0	10,600.0	13,047.0	11,032.2	49.8	51.4	132.22	1,844.6	-266.9	643.3	560.2	83.13	7.739	
12,700.0	10,600.0	13,152.1	11,034.0	50.9	52.6	132.39	1,949.7	-268.8	643.8	558.9	84.89	7.584	
12,800.0	10,600.0	13,258.4	11,034.0	52.0	53.8	132.43	2,056.0	-270.6	643.3	556.5	86.83	7.409	
12,900.0	10,600.0	13,358.1	11,032.0	53.1	54.9	132.33	2,155.6	-272.0	641.6	552.8	88.81	7.225	
12,929.6	10,600.0	13,381.2	11,032.0	53.5	55.2	132.34	2,178.7	-272.4	641.5	552.3	89.24	7.188	
13,000.0	10,600.0	13,438.5	11,033.6	54.3	55.9	132.48	2,236.0	-273.5	642.3	552.1	90.19	7.121	
13,100.0	10,600.0	13,534.7	11,037.6	55.5	57.0	132.76	2,332.2	-274.9	644.8	553.0	91.81	7.023	
13,200.0	10,600.0	13,642.4	11,041.3	56.7	58.3	133.03	2,439.7	-276.4	646.8	553.1	93.72	6.902	
13,300.0	10,600.0	13,745.4	11,043.1	57.9	59.6	133.16	2,542.7	-277.7	647.8	552.1	95.68	6.771	
13,400.0	10,600.0	13,839.9	11,044.6	59.2	60.8	133.23	2,637.2	-278.3	649.2	551.7	97.52	6.657	
13,500.0	10,600.0	13,936.6	11,046.8	60.5	62.0	133.32	2,733.8	-278.4	651.4	552.0	99.42	6.552	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 50-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
13,600.0	10,600.0	14,035.8	11,049.3	61.8	63.3	133.44	2,833.0	-278.6	653.7	552.4	101.38	6.449	
13,700.0	10,600.0	14,133.1	11,051.6	63.1	64.6	133.49	2,930.3	-278.1	656.4	553.0	103.37	6.350	
13,800.0	10,600.0	14,233.7	11,053.6	64.4	65.9	133.49	3,030.9	-276.9	659.3	553.8	105.53	6.248	
13,900.0	10,600.0	14,332.8	11,055.1	65.7	67.3	133.45	3,130.0	-275.6	662.0	554.3	107.71	6.147	
14,000.0	10,600.0	14,448.9	11,056.1	67.1	68.8	133.37	3,246.0	-274.4	664.2	553.8	110.38	6.018	
14,100.0	10,600.0	14,558.2	11,055.2	68.4	70.3	133.29	3,355.4	-275.1	663.9	551.0	112.90	5.880	
14,195.5	10,600.0	14,647.5	11,054.3	69.8	71.6	133.22	3,444.7	-275.7	663.4	548.5	114.96	5.771	
14,200.0	10,600.0	14,651.8	11,054.3	69.8	71.6	133.22	3,449.0	-275.7	663.4	548.4	115.06	5.766	
14,300.0	10,600.0	14,748.6	11,052.9	71.2	73.0	133.03	3,545.7	-275.0	663.8	546.3	117.45	5.651	
14,400.0	10,600.0	14,852.1	11,051.9	72.6	74.4	132.90	3,649.2	-274.8	664.0	544.0	119.96	5.535	
14,411.8	10,600.0	14,863.8	11,051.9	72.8	74.6	132.89	3,661.0	-274.8	664.0	543.7	120.24	5.522	
14,500.0	10,600.0	14,953.1	11,050.5	74.0	75.8	132.74	3,750.3	-274.5	664.0	541.5	122.47	5.421	
14,600.0	10,600.0	15,056.2	11,049.7	75.5	77.3	132.68	3,853.3	-275.6	663.4	538.4	124.92	5.310	
14,700.0	10,600.0	15,153.0	11,049.4	76.9	78.7	132.67	3,950.1	-276.6	663.1	535.9	127.16	5.215	
14,793.6	10,600.0	15,245.6	11,048.2	78.2	80.0	132.55	4,042.7	-276.7	662.9	533.4	129.48	5.120	
14,800.0	10,600.0	15,251.7	11,048.2	78.3	80.1	132.54	4,048.8	-276.7	662.9	533.3	129.63	5.114	
14,900.0	10,600.0	15,347.2	11,049.3	79.8	81.5	132.64	4,144.2	-278.1	663.4	531.7	131.73	5.036	
15,000.0	10,600.0	15,446.1	11,050.5	81.2	82.9	132.71	4,243.2	-279.0	664.2	530.3	133.96	4.959	
15,100.0	10,600.0	15,544.3	11,050.2	82.7	84.4	132.60	4,341.3	-278.4	665.2	528.8	136.42	4.876	
15,200.0	10,600.0	15,649.0	11,048.5	84.2	85.9	132.30	4,446.1	-276.3	666.4	527.0	139.34	4.782	
15,300.0	10,600.0	15,749.6	11,045.9	85.6	87.4	132.00	4,546.6	-274.8	666.5	524.3	142.18	4.688	
15,400.0	10,600.0	15,886.2	11,039.6	87.1	89.4	131.50	4,683.0	-274.5	664.4	518.3	146.12	4.547	
15,500.0	10,600.0	15,963.5	11,037.7	88.6	90.6	131.48	4,760.2	-277.0	661.0	512.9	148.11	4.463	
15,600.0	10,600.0	16,056.0	11,038.7	90.1	92.0	131.67	4,852.6	-280.1	660.0	509.9	150.09	4.397	
15,634.5	10,600.0	16,087.1	11,039.3	90.6	92.4	131.75	4,883.7	-281.1	659.9	509.1	150.73	4.378	
15,700.0	10,600.0	16,145.5	11,040.9	91.6	93.3	131.91	4,942.1	-282.7	660.2	508.3	151.89	4.347	
15,800.0	10,600.0	16,245.4	11,043.9	93.1	94.8	132.16	5,041.9	-284.7	661.4	507.4	153.96	4.296	
15,900.0	10,600.0	16,339.4	11,045.8	94.6	96.2	132.27	5,135.9	-285.5	662.9	506.9	156.05	4.248	
16,000.0	10,600.0	16,470.4	11,045.4	96.2	98.2	132.32	5,266.9	-288.0	661.8	502.6	159.26	4.156	
16,100.0	10,600.0	16,564.1	11,043.7	97.7	99.7	132.28	5,360.5	-290.3	659.5	497.9	161.62	4.081	
16,200.0	10,600.0	16,668.8	11,041.5	99.2	101.3	132.15	5,465.2	-291.3	658.2	493.8	164.43	4.003	
16,300.0	10,600.0	16,788.4	11,035.8	100.7	103.1	131.89	5,584.6	-294.4	653.8	486.0	167.73	3.898	
16,400.0	10,600.0	16,875.1	11,031.1	102.3	104.4	131.66	5,671.2	-296.7	648.9	478.6	170.34	3.810	
16,500.0	10,600.0	16,966.2	11,029.6	103.8	105.8	131.65	5,762.2	-299.1	646.6	473.9	172.66	3.745	
16,600.0	10,600.0	17,058.7	11,027.4	105.3	107.3	131.51	5,854.6	-300.1	644.9	469.7	175.22	3.681	
16,646.9	10,600.0	17,100.0	11,026.6	106.1	107.9	131.43	5,895.9	-300.1	644.7	468.3	176.38	3.655	
16,700.0	10,600.0	17,147.5	11,025.9	106.9	108.6	131.33	5,943.5	-299.7	644.9	467.2	177.73	3.629	
16,800.0	10,600.0	17,257.1	11,024.2	108.4	110.3	131.06	6,053.0	-298.0	645.8	464.8	181.00	3.568	
16,900.0	10,600.0	17,364.7	11,021.9	110.0	112.0	130.92	6,160.6	-299.3	644.2	460.3	183.98	3.502	
17,000.0	10,600.0	17,462.8	11,019.6	111.5	113.5	130.78	6,258.7	-300.5	642.6	455.8	186.73	3.441	
17,100.0	10,600.0	17,558.6	11,016.3	113.1	115.0	130.48	6,354.4	-300.2	641.4	451.6	189.72	3.381	
17,200.0	10,600.0	17,657.5	11,011.4	114.7	116.5	129.95	6,453.1	-297.9	640.6	447.4	193.20	3.316	
17,300.0	10,600.0	17,763.1	11,006.2	116.2	118.2	129.44	6,558.6	-296.1	639.6	442.7	196.87	3.249	
17,400.0	10,600.0	17,863.5	11,002.7	117.8	119.8	129.13	6,658.9	-296.0	638.2	438.1	200.05	3.190	
17,500.0	10,600.0	17,965.9	11,000.1	119.3	121.4	128.98	6,761.3	-297.5	636.3	433.3	203.00	3.134	
17,600.0	10,600.0	18,059.0	10,998.1	120.9	122.8	128.82	6,854.4	-298.3	635.0	429.3	205.73	3.087	
17,700.0	10,600.0	18,158.0	11,002.0	122.5	124.4	129.33	6,953.1	-303.4	634.3	426.9	207.36	3.059	
17,800.0	10,600.0	18,255.5	11,008.6	124.1	125.9	130.16	7,050.1	-310.6	633.7	425.4	208.29	3.042	
17,811.2	10,600.0	18,265.6	11,009.2	124.2	126.1	130.22	7,060.2	-311.2	633.7	425.3	208.41	3.040	
17,900.0	10,600.0	18,345.7	11,012.2	125.6	127.3	130.54	7,140.2	-313.8	634.3	424.5	209.81	3.023	
18,000.0	10,600.0	18,441.9	11,015.6	127.2	128.9	130.79	7,236.3	-315.0	636.4	424.6	211.77	3.005	
18,100.0	10,600.0	18,551.3	11,016.4	128.8	130.6	130.82	7,345.7	-315.7	637.1	422.5	214.59	2.969	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #123H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 50-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	10,600.0	18,660.3	11,016.2	130.4	132.3	130.75	7,454.6	-315.9	637.6	420.0	217.59	2.930	
18,300.0	10,600.0	18,765.8	11,011.7	132.0	134.0	130.37	7,560.1	-315.7	635.7	414.6	221.13	2.875	
18,400.0	10,600.0	18,878.6	11,006.0	133.5	135.8	129.91	7,672.7	-315.6	633.4	408.4	224.99	2.815	
18,500.0	10,600.0	18,972.7	11,002.7	135.1	137.3	129.76	7,766.7	-318.0	629.9	402.1	227.81	2.765	
18,600.0	10,600.0	19,059.2	11,000.7	136.7	138.6	129.65	7,853.2	-319.2	628.1	397.7	230.36	2.727	
18,638.8	10,600.0	19,093.8	11,000.5	137.3	139.2	129.63	7,887.8	-319.5	628.0	396.7	231.30	2.715	
18,700.0	10,600.0	19,150.1	11,000.3	138.3	140.1	129.59	7,944.1	-319.6	628.2	395.4	232.84	2.698	
18,800.0	10,600.0	19,251.6	11,001.0	139.9	141.7	129.61	8,045.6	-320.2	629.0	393.6	235.48	2.671	
18,900.0	10,600.0	19,359.1	11,002.8	141.5	143.4	129.82	8,153.0	-322.8	629.0	391.1	237.87	2.644	
19,000.0	10,600.0	19,467.2	11,002.5	143.1	145.1	129.89	8,261.1	-325.4	627.7	387.2	240.55	2.609	
19,100.0	10,600.0	19,558.0	11,001.3	144.7	146.6	129.81	8,351.9	-326.4	626.7	383.6	243.13	2.578	
19,200.0	10,600.0	19,656.0	10,998.8	146.3	148.1	129.54	8,449.8	-325.7	626.4	380.1	246.34	2.543	
19,289.5	10,600.0	19,745.1	10,996.9	147.7	149.6	129.32	8,538.9	-325.1	626.3	377.1	249.21	2.513	
19,300.0	10,600.0	19,754.8	10,996.7	147.9	149.7	129.30	8,548.6	-325.1	626.3	376.8	249.51	2.510	
19,400.0	10,600.0	19,857.2	10,994.9	149.5	151.4	129.07	8,651.0	-324.3	626.6	373.8	252.79	2.479	
19,500.0	10,600.0	19,966.5	10,994.1	151.1	153.1	129.12	8,760.2	-327.2	624.7	369.2	255.57	2.445	
19,600.0	10,600.0	20,059.5	10,994.7	152.7	154.6	129.26	8,853.2	-329.9	623.7	366.0	257.72	2.420	
19,700.0	10,600.0	20,157.0	10,996.1	154.3	156.2	129.47	8,950.7	-332.7	623.2	363.3	259.81	2.399	
19,756.1	10,600.0	20,211.3	10,997.1	155.2	157.0	129.60	9,004.9	-334.2	623.1	362.1	260.94	2.388	
19,800.0	10,600.0	20,252.8	10,997.9	155.9	157.7	129.68	9,046.4	-335.1	623.2	361.3	261.82	2.380	
19,900.0	10,600.0	20,347.1	10,999.4	157.5	159.2	129.80	9,140.7	-336.3	624.0	360.0	263.98	2.364	
20,000.0	10,600.0	20,441.3	10,999.9	159.1	160.7	129.73	9,234.9	-335.4	625.8	359.2	266.61	2.347	
20,100.0	10,600.0	20,552.5	10,999.8	160.7	162.5	129.56	9,346.1	-333.7	627.7	357.7	270.09	2.324	
20,170.9	10,600.0	20,626.2	10,999.8	161.9	163.7	129.56	9,419.8	-334.5	627.6	355.6	272.06	2.307	
20,200.0	10,600.0	20,653.4	11,000.1	162.3	164.1	129.61	9,447.0	-335.1	627.7	355.0	272.66	2.302	
20,300.0	10,600.0	20,746.9	11,002.6	163.9	165.6	129.84	9,540.4	-337.0	628.5	354.0	274.50	2.290	
20,400.0	10,600.0	20,841.1	11,005.5	165.6	167.1	130.06	9,634.5	-338.2	630.3	353.9	276.37	2.281	
20,500.0	10,600.0	20,942.0	11,008.3	167.2	168.8	130.21	9,735.4	-338.5	632.6	354.0	278.65	2.270	
20,600.0	10,600.0	21,045.3	11,008.3	168.8	170.4	130.06	9,838.7	-337.0	634.5	352.6	281.84	2.251	
20,700.0	10,600.0	21,145.8	11,004.7	170.4	172.0	129.53	9,939.1	-333.0	636.0	350.1	285.94	2.224	
20,780.8	10,600.0	21,228.1	11,000.2	171.7	173.3	128.91	10,021.1	-328.6	637.2	347.4	289.79	2.199	SF

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #133H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 181-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	-126.96	-108.2	-143.8	180.0				
100.0	100.0	100.5	100.5	0.1	0.2	-126.98	-108.3	-143.9	180.1	179.8	0.28	641.641	
200.0	200.0	200.1	200.1	0.5	0.3	-127.01	-108.7	-144.2	180.5	179.7	0.83	217.830	
300.0	300.0	300.1	300.1	0.8	0.7	-127.01	-109.0	-144.6	181.0	179.5	1.54	117.196	
400.0	400.0	399.9	399.9	1.2	1.1	-126.98	-109.2	-145.1	181.6	179.3	2.26	80.325	
500.0	500.0	499.7	499.7	1.6	1.4	-126.96	-109.6	-145.6	182.3	179.3	2.98	61.225	
600.0	600.0	599.9	599.9	1.9	1.8	-126.93	-109.9	-146.2	182.9	179.2	3.69	49.511	
700.0	700.0	700.1	700.1	2.3	2.1	-126.89	-110.1	-146.7	183.4	179.0	4.41	41.583	
800.0	800.0	800.4	800.4	2.6	2.5	-126.82	-110.2	-147.1	183.8	178.7	5.13	35.856	
900.0	900.0	900.5	900.5	3.0	2.8	-126.76	-110.2	-147.5	184.1	178.3	5.84	31.516	
1,000.0	1,000.0	1,000.3	1,000.3	3.4	3.2	-126.67	-110.2	-147.9	184.4	177.9	6.56	28.130	
1,100.0	1,100.0	1,100.1	1,100.1	3.7	3.6	-126.58	-110.2	-148.5	184.9	177.6	7.27	25.422	
1,200.0	1,200.0	1,199.7	1,199.6	4.1	3.9	-126.50	-110.3	-149.1	185.5	177.5	7.99	23.224	
1,300.0	1,300.0	1,299.6	1,299.6	4.4	4.3	-126.45	-110.7	-149.8	186.3	177.6	8.70	21.405	
1,400.0	1,400.0	1,399.7	1,399.7	4.8	4.6	-126.45	-111.1	-150.4	187.0	177.6	9.42	19.852	
1,500.0	1,500.0	1,496.7	1,496.7	5.1	5.0	-126.36	-111.6	-151.5	188.2	178.1	10.12	18.594	
1,600.0	1,600.0	1,592.3	1,592.2	5.5	5.3	-125.79	-112.0	-155.3	191.7	180.8	10.82	17.719	
1,700.0	1,700.0	1,689.9	1,689.6	5.9	5.7	-124.88	-112.5	-161.4	197.0	185.5	11.52	17.104	
1,800.0	1,800.0	1,788.5	1,787.9	6.2	6.0	-124.12	-113.7	-167.8	203.1	190.9	12.23	16.614	
1,900.0	1,900.0	1,886.2	1,885.5	6.6	6.4	-123.53	-115.7	-174.6	210.0	197.1	12.93	16.244	
2,000.0	2,000.0	1,983.6	1,982.6	6.9	6.8	-123.13	-118.7	-181.9	218.0	204.3	13.63	15.993	
2,100.0	2,100.0	2,082.3	2,080.8	7.3	7.1	-122.87	-122.6	-189.6	226.7	212.4	14.34	15.814	
2,160.2	2,160.2	2,141.8	2,140.0	7.5	7.3	-122.76	-125.1	-194.4	232.1	217.4	14.76	15.724	
2,200.0	2,200.0	2,181.1	2,179.3	7.7	7.5	-6.98	-126.8	-197.6	235.6	220.6	15.04	15.668	
2,300.0	2,300.0	2,281.1	2,278.8	8.0	7.9	-6.85	-131.2	-205.7	243.3	227.5	15.73	15.463	
2,400.0	2,399.9	2,381.3	2,378.6	8.3	8.2	-6.70	-135.2	-213.8	249.0	232.6	16.43	15.158	
2,500.0	2,499.8	2,479.3	2,476.2	8.7	8.6	-6.61	-139.3	-222.1	253.4	236.3	17.11	14.807	
2,600.0	2,599.6	2,577.5	2,573.8	9.0	9.0	-6.66	-144.2	-230.8	256.7	238.9	17.80	14.427	
2,700.0	2,699.2	2,676.7	2,672.5	9.3	9.4	-6.78	-149.4	-239.8	258.8	240.3	18.49	13.998	
2,800.0	2,798.7	2,776.1	2,771.3	9.7	9.7	-6.95	-154.9	-249.2	259.5	240.3	19.19	13.522	
2,900.0	2,897.9	2,876.3	2,870.9	10.1	10.1	-7.19	-160.5	-258.6	258.4	238.5	19.90	12.988	
2,960.2	2,957.6	2,936.6	2,930.8	10.3	10.4	-7.39	-163.9	-264.1	257.0	236.6	20.33	12.642	
3,000.0	2,997.0	2,976.5	2,970.5	10.4	10.5	-7.54	-166.2	-267.8	255.7	235.1	20.61	12.409	
3,100.0	3,096.0	3,077.0	3,070.4	10.8	10.9	-7.94	-172.0	-276.7	252.6	231.2	21.32	11.844	
3,200.0	3,195.1	3,177.6	3,170.5	11.2	11.3	-8.38	-177.8	-285.5	249.2	227.1	22.04	11.305	
3,300.0	3,294.1	3,278.4	3,270.8	11.5	11.7	-8.84	-183.4	-293.9	245.5	222.7	22.76	10.783	
3,400.0	3,393.1	3,378.9	3,370.8	11.9	12.1	-9.31	-188.8	-302.1	241.5	218.0	23.48	10.281	
3,500.0	3,492.1	3,479.1	3,470.5	12.3	12.5	-9.69	-193.8	-310.4	237.3	213.1	24.20	9.804	
3,600.0	3,591.2	3,579.2	3,570.2	12.7	12.9	-9.99	-198.4	-318.8	233.0	208.1	24.92	9.351	
3,700.0	3,690.2	3,679.4	3,669.9	13.1	13.2	-10.26	-202.8	-327.2	228.7	203.1	25.64	8.918	
3,800.0	3,789.2	3,780.5	3,770.6	13.4	13.6	-10.52	-207.0	-335.5	224.1	197.7	26.37	8.496	
3,900.0	3,888.3	3,882.0	3,871.7	13.8	14.0	-10.85	-210.9	-343.2	218.8	191.6	27.11	8.070	
4,000.0	3,987.3	3,978.8	3,968.1	14.2	14.4	-11.06	-214.5	-350.9	213.7	185.9	27.81	7.685	
4,100.0	4,086.3	4,075.2	4,064.0	14.6	14.8	-10.95	-218.0	-360.6	210.3	181.8	28.49	7.380	
4,200.0	4,185.3	4,178.3	4,166.4	15.0	15.2	-10.85	-222.0	-371.1	207.0	177.8	29.25	7.079	
4,300.0	4,284.4	4,281.7	4,269.5	15.4	15.6	-11.31	-226.5	-379.0	202.1	172.1	30.00	6.736	
4,400.0	4,383.4	4,382.3	4,369.7	15.8	15.9	-12.13	-231.2	-385.2	196.2	165.4	30.73	6.383	
4,500.0	4,482.4	4,482.8	4,470.0	16.2	16.3	-13.21	-236.2	-390.6	189.8	158.3	31.46	6.032	
4,600.0	4,581.4	4,582.6	4,569.5	16.6	16.7	-14.50	-241.3	-395.5	183.3	151.1	32.19	5.694	
4,700.0	4,680.5	4,681.6	4,668.2	17.0	17.1	-15.95	-246.7	-400.2	177.0	144.1	32.92	5.376	
4,800.0	4,779.5	4,779.1	4,765.5	17.4	17.4	-17.12	-251.8	-406.3	171.7	138.1	33.64	5.104	
4,900.0	4,878.5	4,876.8	4,862.7	17.8	17.8	-17.80	-256.5	-414.3	167.8	133.4	34.36	4.883	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #133H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 181-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	4,977.6	4,974.4	4,959.5	18.2	18.2	-17.37	-259.8	-425.7	165.2	130.2	35.06	4.714	
5,100.0	5,076.6	5,073.4	5,057.5	18.6	18.6	-15.78	-261.6	-440.2	164.0	128.3	35.76	4.587	
5,200.0	5,175.6	5,174.4	5,157.4	19.0	19.0	-14.21	-263.3	-454.7	162.6	126.1	36.49	4.457	
5,300.0	5,274.6	5,275.0	5,257.1	19.4	19.4	-12.89	-265.3	-468.2	160.7	123.5	37.22	4.318	
5,400.0	5,373.7	5,375.5	5,356.7	19.9	19.8	-11.74	-267.5	-481.0	158.5	120.6	37.94	4.177	
5,500.0	5,472.7	5,475.3	5,455.8	20.3	20.2	-10.74	-269.9	-493.4	156.2	117.5	38.67	4.039	
5,600.0	5,571.7	5,575.0	5,554.7	20.7	20.6	-9.89	-272.9	-505.5	154.0	114.7	39.39	3.911	
5,700.0	5,670.7	5,674.4	5,653.3	21.1	21.0	-9.22	-276.4	-517.5	152.2	112.1	40.10	3.795	
5,800.0	5,769.8	5,773.8	5,751.9	21.5	21.4	-8.87	-280.8	-529.4	150.8	110.0	40.82	3.694	
5,900.0	5,868.8	5,874.3	5,851.6	21.9	21.8	-8.79	-285.9	-541.0	149.4	107.9	41.57	3.595	
6,000.0	5,967.8	5,974.9	5,951.5	22.3	22.2	-8.96	-291.4	-551.9	147.6	105.3	42.31	3.489	
6,100.0	6,066.8	6,076.0	6,051.9	22.7	22.6	-9.36	-296.9	-562.0	145.3	102.2	43.06	3.373	
6,200.0	6,165.9	6,177.0	6,152.3	23.1	23.0	-9.95	-302.4	-571.3	142.2	98.3	43.82	3.244	
6,300.0	6,264.9	6,277.6	6,252.4	23.6	23.4	-10.71	-307.8	-579.8	138.5	93.9	44.57	3.107	
6,400.0	6,363.9	6,378.2	6,352.5	24.0	23.8	-11.62	-313.1	-587.8	134.3	89.0	45.32	2.964	
6,500.0	6,463.0	6,478.8	6,452.7	24.4	24.2	-12.70	-318.3	-595.2	129.6	83.6	46.07	2.814	
6,600.0	6,562.0	6,579.1	6,552.7	24.8	24.6	-13.91	-323.2	-602.1	124.5	77.7	46.83	2.659	
6,700.0	6,661.0	6,679.2	6,652.4	25.2	25.0	-15.01	-327.6	-609.1	119.2	71.6	47.58	2.504	
6,800.0	6,760.0	6,778.6	6,751.5	25.6	25.4	-15.91	-331.5	-616.4	113.8	65.5	48.33	2.355	
6,900.0	6,859.1	6,877.6	6,850.0	26.0	25.7	-16.50	-335.3	-624.7	109.2	60.1	49.07	2.226	
7,000.0	6,958.1	6,975.8	6,947.7	26.5	26.1	-16.64	-339.1	-634.3	105.7	55.9	49.80	2.122	
7,100.0	7,057.1	7,073.6	7,044.7	26.9	26.5	-16.08	-343.2	-646.1	104.1	53.6	50.48	2.063	
7,125.2	7,082.1	7,098.3	7,069.1	27.0	26.6	-15.83	-344.3	-649.5	104.0	53.4	50.64	2.055	
7,200.0	7,156.1	7,173.2	7,143.2	27.3	26.9	-14.93	-347.6	-659.9	104.1	52.9	51.18	2.034	
7,300.0	7,255.2	7,273.5	7,242.4	27.7	27.4	-13.69	-351.8	-673.8	103.9	52.0	51.89	2.002	
7,400.0	7,354.2	7,373.7	7,341.7	28.1	27.8	-12.68	-356.2	-687.2	103.5	50.9	52.62	1.967	
7,500.0	7,453.2	7,473.9	7,441.0	28.5	28.2	-12.52	-361.7	-699.5	102.9	49.5	53.36	1.928	
7,600.0	7,552.2	7,574.1	7,540.4	29.0	28.6	-12.95	-367.8	-710.9	102.0	47.9	54.12	1.886	
7,700.0	7,651.3	7,674.3	7,639.8	29.4	29.0	-13.59	-374.1	-722.0	101.0	46.1	54.88	1.841	
7,800.0	7,750.3	7,774.8	7,739.5	29.8	29.4	-14.33	-380.3	-732.7	99.6	44.0	55.65	1.790	
7,900.0	7,849.3	7,875.3	7,839.3	30.2	29.8	-15.08	-386.1	-743.0	97.7	41.3	56.42	1.732	
8,000.0	7,948.4	7,975.4	7,938.8	30.6	30.2	-16.42	-392.4	-752.4	95.5	38.3	57.20	1.670	
8,047.5	7,995.4	8,023.0	7,986.0	30.8	30.4	-17.38	-395.7	-756.5	94.4	36.8	57.59	1.640	
8,100.0	8,047.4	8,075.6	8,038.3	31.0	30.6	-18.58	-399.6	-760.8	93.6	35.5	58.02	1.612	
8,147.4	8,094.5	8,123.1	8,085.6	31.2	30.8	-19.59	-403.0	-764.6	93.3	34.9	58.41	1.597	CC
8,200.0	8,146.8	8,175.9	8,138.0	31.4	31.0	-20.57	-406.8	-768.7	93.6	34.8	58.84	1.591	ES, SF
8,300.0	8,246.4	8,276.2	8,237.8	31.8	31.4	-21.97	-413.7	-776.4	95.8	36.2	59.63	1.607	
8,400.0	8,346.2	8,376.5	8,337.6	32.2	31.8	-22.83	-420.5	-783.6	100.1	39.7	60.40	1.657	
8,500.0	8,446.2	8,477.2	8,437.9	32.5	32.2	-23.28	-427.1	-790.2	106.2	45.1	61.13	1.738	
8,580.8	8,527.0	8,559.0	8,519.4	32.8	32.5	-139.51	-432.6	-794.2	112.1	50.4	61.73	1.816	
8,600.0	8,546.2	8,578.3	8,538.7	32.9	32.6	-139.65	-433.9	-794.9	113.6	51.7	61.86	1.836	
8,700.0	8,646.2	8,680.3	8,640.4	33.2	32.9	-140.65	-440.4	-797.7	120.2	57.6	62.59	1.921	
8,800.0	8,746.2	8,782.9	8,742.8	33.5	33.3	-141.33	-445.0	-799.5	124.8	61.5	63.28	1.972	
8,900.0	8,846.2	8,884.8	8,844.7	33.8	33.6	-141.77	-447.6	-800.4	127.4	63.5	63.94	1.993	
9,000.0	8,946.2	8,986.5	8,946.4	34.1	34.0	-142.11	-449.1	-800.6	128.7	64.1	64.59	1.992	
9,100.0	9,046.2	9,086.7	9,046.6	34.5	34.3	-142.40	-449.9	-800.4	129.2	63.9	65.27	1.979	
9,200.0	9,146.2	9,186.7	9,146.6	34.8	34.6	-142.66	-450.6	-800.2	129.6	63.7	65.95	1.965	
9,300.0	9,246.2	9,287.0	9,246.9	35.1	34.9	-142.83	-451.1	-800.1	129.9	63.3	66.63	1.950	
9,400.0	9,346.2	9,387.3	9,347.3	35.4	35.3	-142.88	-451.2	-800.1	130.0	62.7	67.30	1.931	
9,500.0	9,446.2	9,487.9	9,447.8	35.7	35.6	-142.87	-451.0	-799.9	129.7	61.7	67.96	1.909	
9,600.0	9,546.2	9,588.4	9,548.3	36.1	35.9	-142.86	-450.4	-799.5	129.0	60.4	68.60	1.880	
9,700.0	9,646.2	9,688.7	9,648.6	36.4	36.2	-142.95	-449.7	-798.7	128.0	58.7	69.26	1.848	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #133H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 181-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	9,746.2	9,788.8	9,748.7	36.7	36.5	-143.22	-449.1	-797.5	126.8	56.9	69.92	1.813	
9,900.0	9,846.2	9,888.6	9,848.5	37.0	36.8	-143.81	-449.0	-795.8	125.6	55.0	70.62	1.779	
10,000.0	9,946.2	9,988.2	9,948.0	37.3	37.1	-144.71	-449.4	-793.7	124.7	53.4	71.34	1.748	
10,080.8	10,027.0	10,068.4	10,028.3	37.6	37.4	-145.45	-450.0	-792.1	124.4	52.4	71.93	1.729	
10,082.2	10,028.4	10,069.8	10,029.6	37.6	37.4	-144.89	-450.0	-792.1	124.4	52.4	71.94	1.729	
10,100.0	10,046.2	10,087.4	10,047.3	37.7	37.4	-145.12	-450.2	-791.8	124.6	52.5	72.08	1.729	
10,150.0	10,096.0	10,137.0	10,096.9	37.8	37.6	-146.35	-450.8	-791.0	127.8	55.3	72.50	1.763	
10,200.0	10,145.3	10,187.0	10,146.8	38.0	37.7	-148.23	-451.1	-790.4	134.7	61.7	72.94	1.846	
10,250.0	10,193.7	10,236.1	10,195.9	38.1	37.9	-150.43	-451.0	-790.0	145.2	71.8	73.41	1.978	
10,300.0	10,240.9	10,284.3	10,244.1	38.2	38.0	-152.72	-450.5	-789.7	159.4	85.6	73.88	2.158	
10,350.0	10,286.4	10,331.1	10,290.9	38.3	38.2	-154.88	-449.7	-789.7	177.5	103.2	74.34	2.388	
10,400.0	10,329.9	10,374.4	10,334.2	38.4	38.3	-156.77	-448.9	-789.6	199.6	124.8	74.81	2.668	
10,450.0	10,371.1	10,415.8	10,375.6	38.5	38.4	-158.40	-448.3	-789.4	225.7	150.4	75.24	2.999	
10,500.0	10,409.8	10,454.5	10,414.3	38.6	38.6	-159.69	-447.7	-789.3	255.5	179.9	75.63	3.379	
10,550.0	10,445.5	10,490.3	10,450.1	38.6	38.7	-160.58	-447.3	-789.1	288.9	212.9	75.97	3.803	
10,600.0	10,478.0	10,523.1	10,482.8	38.7	38.8	-161.06	-446.9	-789.0	325.5	249.2	76.26	4.268	
10,650.0	10,507.1	10,552.5	10,512.2	38.7	38.9	-161.08	-446.6	-788.9	365.0	288.5	76.51	4.770	
10,700.0	10,532.5	10,578.2	10,538.0	38.7	39.0	-160.52	-446.3	-788.9	407.1	330.3	76.72	5.306	
10,750.0	10,554.1	10,600.2	10,560.0	38.7	39.0	-159.19	-446.1	-788.8	451.3	374.4	76.90	5.869	
10,800.0	10,571.7	10,617.6	10,577.4	38.7	39.1	-156.59	-445.9	-788.8	497.4	420.4	77.04	6.457	
10,850.0	10,585.1	10,630.9	10,590.7	38.7	39.1	-151.77	-445.8	-788.8	545.1	467.9	77.15	7.065	
10,900.0	10,594.3	10,640.1	10,599.9	38.7	39.1	-142.11	-445.7	-788.7	593.8	516.5	77.23	7.688	
10,950.0	10,599.1	10,645.1	10,604.8	38.7	39.2	-119.88	-445.7	-788.7	643.2	565.9	77.29	8.321	
10,980.8	10,600.0	10,646.1	10,605.8	38.7	39.2	-94.11	-445.7	-788.7	673.8	596.5	77.32	8.715	
11,000.0	10,600.0	10,646.2	10,606.0	38.7	39.2	-94.21	-445.7	-788.7	692.9	615.6	77.33	8.960	
11,100.0	10,600.0	10,646.9	10,606.6	38.9	39.2	-94.76	-445.6	-788.7	792.5	715.1	77.39	10.240	
11,200.0	10,600.0	10,647.5	10,607.3	39.1	39.2	-95.31	-445.6	-788.7	892.1	814.7	77.43	11.521	
11,300.0	10,600.0	10,648.1	10,607.9	39.5	39.2	-95.84	-445.6	-788.7	991.9	914.4	77.47	12.803	
11,400.0	10,600.0	10,648.8	10,608.5	40.0	39.2	-96.36	-445.6	-788.7	1,091.6	1,014.1	77.51	14.084	
11,500.0	10,600.0	10,649.4	10,609.2	40.5	39.2	-96.87	-445.6	-788.7	1,191.5	1,113.9	77.54	15.366	
11,600.0	10,600.0	10,650.0	10,609.8	41.1	39.2	-97.38	-445.6	-788.7	1,291.3	1,213.7	77.57	16.647	
11,700.0	10,600.0	10,650.6	10,610.4	41.8	39.2	-97.88	-445.6	-788.7	1,391.2	1,313.6	77.60	17.928	
11,800.0	10,600.0	10,651.2	10,611.0	42.5	39.2	-98.37	-445.6	-788.7	1,491.1	1,413.4	77.62	19.209	
11,900.0	10,600.0	10,651.8	10,611.5	43.3	39.2	-98.85	-445.6	-788.7	1,591.0	1,513.3	77.65	20.489	
12,000.0	10,600.0	13,656.3	12,222.2	44.1	49.8	-176.78	1,237.6	-828.5	1,623.8	1,583.5	40.29	40.299	
12,100.0	10,600.0	13,752.9	12,222.7	44.9	50.6	-176.79	1,334.2	-829.3	1,624.3	1,583.0	41.26	39.365	
12,200.0	10,600.0	13,959.6	12,216.7	45.8	52.4	-177.18	1,540.5	-819.9	1,620.6	1,577.2	43.37	37.363	
12,300.0	10,600.0	14,006.5	12,214.5	46.8	52.9	-177.26	1,587.3	-818.0	1,616.0	1,572.1	43.86	36.843	
12,367.4	10,600.0	14,030.3	12,214.2	47.4	53.1	-177.28	1,611.1	-817.6	1,615.0	1,570.8	44.20	36.542	
12,400.0	10,600.0	14,041.8	12,214.3	47.8	53.2	-177.29	1,622.6	-817.5	1,615.3	1,570.9	44.39	36.390	
12,500.0	10,600.0	12,500.0	12,216.1	48.8	43.6	-177.32	1,723.4	-817.8	1,617.0	1,580.2	36.89	43.834	
12,546.6	10,600.0	14,209.5	12,216.0	49.3	54.9	-177.36	1,790.2	-817.3	1,616.8	1,570.5	46.22	34.982	
12,600.0	10,600.0	14,238.4	12,216.2	49.8	55.1	-177.37	1,819.1	-817.1	1,617.2	1,570.5	46.63	34.682	
12,700.0	10,600.0	14,346.3	12,218.4	50.9	56.3	-177.41	1,927.0	-817.2	1,619.2	1,571.3	47.86	33.828	
12,800.0	10,600.0	14,488.0	12,217.8	52.0	57.8	-177.45	2,068.7	-817.6	1,618.7	1,569.2	49.45	32.736	
12,900.0	10,600.0	14,583.2	12,216.1	53.1	58.8	-177.42	2,163.9	-819.4	1,616.9	1,566.3	50.61	31.949	
12,976.0	10,600.0	14,639.0	12,215.7	54.0	59.5	-177.37	2,219.6	-821.2	1,616.4	1,565.1	51.34	31.484	
13,000.0	10,600.0	14,639.0	12,215.7	54.3	59.5	-177.37	2,219.6	-821.2	1,616.6	1,565.2	51.42	31.439	
13,100.0	10,600.0	14,708.7	12,216.8	55.5	60.2	-177.35	2,289.3	-822.6	1,618.5	1,566.1	52.42	30.878	
13,200.0	10,600.0	14,800.7	12,220.8	56.7	61.3	-177.43	2,381.2	-821.4	1,622.6	1,569.0	53.62	30.260	
13,300.0	10,600.0	14,908.8	12,224.6	57.9	62.6	-177.50	2,489.2	-820.5	1,626.1	1,571.1	54.97	29.581	
13,400.0	10,600.0	15,159.3	12,219.1	59.2	65.6	-177.77	2,739.4	-815.2	1,622.2	1,564.3	57.86	28.038	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #133H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 181-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
13,500.0	10,600.0	15,208.0	12,216.9	60.5	66.2	-177.87	2,788.0	-812.8	1,617.6	1,559.1	58.57	27.617	
13,600.0	10,600.0	15,270.9	12,215.7	61.8	67.0	-177.95	2,850.8	-811.0	1,615.8	1,556.2	59.51	27.152	
13,615.3	10,600.0	15,279.2	12,215.7	62.0	67.1	-177.96	2,859.1	-811.0	1,615.7	1,556.1	59.64	27.092	
13,700.0	10,600.0	15,330.9	12,216.3	63.1	67.7	-177.96	2,910.8	-811.4	1,616.7	1,556.2	60.44	26.749	
13,800.0	10,600.0	15,397.0	12,218.2	64.4	68.6	-177.91	2,976.9	-813.6	1,619.7	1,558.2	61.46	26.355	
13,900.0	10,600.0	13,900.0	12,223.1	65.7	49.3	-177.72	3,125.1	-820.6	1,623.5	1,571.0	52.47	30.939	
14,000.0	10,600.0	15,715.9	12,218.4	67.1	72.8	-177.77	3,295.3	-820.7	1,619.5	1,554.1	65.38	24.769	
14,100.0	10,600.0	15,775.0	12,217.4	68.4	73.5	-177.78	3,354.4	-820.9	1,617.6	1,551.3	66.31	24.397	
14,200.0	10,600.0	15,912.0	12,214.2	69.8	75.4	-177.74	3,491.3	-823.4	1,615.2	1,547.1	68.09	23.720	
14,300.0	10,600.0	15,995.8	12,212.0	71.2	76.5	-177.65	3,575.0	-826.5	1,612.6	1,543.4	69.29	23.273	
14,400.0	10,600.0	16,075.9	12,210.9	72.6	77.6	-177.57	3,655.1	-829.5	1,611.4	1,540.9	70.47	22.867	
14,500.0	10,600.0	16,172.0	12,210.3	74.0	79.0	-177.48	3,751.1	-832.9	1,610.9	1,539.0	71.83	22.427	
14,600.0	10,600.0	16,278.4	12,209.4	75.5	80.4	-177.36	3,857.4	-837.4	1,610.2	1,536.9	73.30	21.966	
14,700.0	10,600.0	16,380.9	12,208.1	76.9	81.9	-177.17	3,959.7	-843.7	1,609.2	1,534.4	74.75	21.529	
14,800.0	10,600.0	16,469.7	12,207.3	78.3	83.1	-177.11	4,048.5	-846.1	1,608.4	1,532.4	76.05	21.150	
14,822.8	10,600.0	16,487.5	12,207.3	78.7	83.4	-177.11	4,066.3	-846.4	1,608.4	1,532.0	76.32	21.074	
14,900.0	10,600.0	16,571.7	12,207.5	79.8	84.6	-177.08	4,150.4	-848.0	1,608.6	1,531.1	77.50	20.755	
15,000.0	10,600.0	16,678.7	12,205.9	81.2	86.1	-176.99	4,257.4	-851.7	1,607.2	1,528.2	79.02	20.339	
15,048.7	10,600.0	16,713.5	12,205.7	81.9	86.6	-176.95	4,292.1	-853.2	1,607.0	1,527.4	79.57	20.196	
15,100.0	10,600.0	16,756.7	12,205.7	82.7	87.2	-176.90	4,335.2	-855.0	1,607.1	1,526.9	80.22	20.033	
15,200.0	10,600.0	16,860.4	12,206.3	84.2	88.7	-176.80	4,438.9	-858.8	1,607.9	1,526.1	81.72	19.676	
15,300.0	10,600.0	16,995.4	12,205.0	85.6	90.7	-176.67	4,573.8	-863.8	1,607.0	1,523.5	83.56	19.231	
15,400.0	10,600.0	17,080.5	12,203.5	87.1	91.9	-176.55	4,658.8	-867.7	1,605.5	1,520.6	84.86	18.918	
15,500.0	10,600.0	17,176.3	12,202.7	88.6	93.3	-176.51	4,754.5	-869.9	1,604.7	1,518.5	86.29	18.598	
15,600.0	10,600.0	17,317.6	12,200.2	90.1	95.4	-176.64	4,895.8	-867.6	1,602.8	1,514.6	88.20	18.173	
15,700.0	10,600.0	17,417.5	12,196.6	91.6	96.9	-176.66	4,995.6	-867.6	1,599.2	1,509.5	89.67	17.835	
15,800.0	10,600.0	17,501.5	12,194.5	93.1	98.1	-176.63	5,079.6	-869.2	1,596.7	1,505.7	90.97	17.552	
15,900.0	10,600.0	17,609.2	12,191.4	94.6	99.7	-176.69	5,187.3	-868.5	1,593.7	1,501.2	92.53	17.224	
16,000.0	10,600.0	17,694.9	12,189.7	96.2	101.0	-176.72	5,272.9	-868.4	1,591.6	1,497.8	93.85	16.960	
16,100.0	10,600.0	17,794.5	12,187.4	97.7	102.5	-176.62	5,372.4	-872.0	1,589.5	1,494.1	95.33	16.673	
16,200.0	10,600.0	18,026.7	12,174.2	99.2	106.0	-176.76	5,604.0	-869.6	1,583.9	1,485.7	98.19	16.131	
16,300.0	10,600.0	18,110.1	12,166.1	100.7	107.2	-176.83	5,687.1	-868.2	1,574.1	1,474.6	99.50	15.820	
16,400.0	10,600.0	18,171.6	12,161.1	102.3	108.2	-176.86	5,748.4	-867.6	1,566.0	1,465.4	100.59	15.568	
16,500.0	10,600.0	18,234.0	12,158.1	103.8	109.1	-176.83	5,810.6	-868.8	1,560.9	1,459.2	101.68	15.351	
16,600.0	10,600.0	18,300.0	12,156.4	105.3	110.1	-176.82	5,876.6	-869.7	1,558.1	1,455.3	102.81	15.156	
16,700.0	10,600.0	18,389.7	12,155.0	106.9	111.5	-176.94	5,966.2	-867.3	1,556.4	1,452.2	104.18	14.940	
16,800.0	10,600.0	18,507.3	12,153.2	108.4	113.2	-177.18	6,083.7	-861.9	1,554.7	1,448.8	105.86	14.686	
16,900.0	10,600.0	18,724.6	12,137.2	110.0	116.5	-177.64	6,300.0	-850.9	1,545.5	1,436.9	108.55	14.237	
17,000.0	10,600.0	18,801.0	12,129.9	111.5	117.7	-177.74	6,376.1	-848.5	1,535.8	1,426.0	109.82	13.985	
17,100.0	10,600.0	18,855.0	12,125.9	113.1	118.5	-177.79	6,430.0	-847.6	1,528.5	1,417.6	110.85	13.789	
17,200.0	10,600.0	18,915.7	12,123.6	114.7	119.4	-177.82	6,490.6	-847.4	1,524.4	1,412.5	111.92	13.621	
17,300.0	10,600.0	19,045.2	12,118.5	116.2	121.4	-177.83	6,619.9	-848.2	1,520.5	1,406.7	113.75	13.367	
17,400.0	10,600.0	19,137.1	12,113.6	117.8	122.9	-177.79	6,711.8	-849.9	1,515.3	1,400.1	115.17	13.157	
17,500.0	10,600.0	19,216.8	12,110.6	119.3	124.1	-177.74	6,791.4	-852.0	1,511.6	1,395.1	116.45	12.980	
17,600.0	10,600.0	19,331.6	12,106.9	120.9	125.9	-177.70	6,906.1	-854.0	1,508.5	1,390.3	118.13	12.770	
17,700.0	10,600.0	19,477.8	12,098.4	122.5	128.1	-177.85	7,052.0	-851.3	1,502.4	1,382.3	120.12	12.508	
17,800.0	10,600.0	19,553.1	12,093.7	124.1	129.3	-177.97	7,127.1	-848.5	1,496.0	1,374.6	121.38	12.325	
17,900.0	10,600.0	19,642.1	12,089.3	125.6	130.7	-178.15	7,215.9	-844.7	1,490.8	1,368.1	122.78	12.143	
18,000.0	10,600.0	19,731.5	12,085.4	127.2	132.1	-178.32	7,305.1	-841.0	1,486.3	1,362.2	124.18	11.969	
18,100.0	10,600.0	19,834.5	12,081.2	128.8	133.7	-178.43	7,408.0	-838.9	1,482.2	1,356.5	125.73	11.789	
18,200.0	10,600.0	19,935.5	12,076.9	130.4	135.2	-178.52	7,509.0	-837.6	1,477.8	1,350.5	127.26	11.612	
18,300.0	10,600.0	19,995.3	12,075.0	132.0	136.2	-178.57	7,568.7	-836.9	1,474.7	1,346.4	128.32	11.493	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #133H - Wellbore #1 - Actual Surveys

Offset Site Error: 0.0 usft

Survey Program: 181-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
18,400.0	10,600.0	20,127.0	12,070.4	133.5	138.2	-178.56	7,700.2	-838.3	1,470.9	1,340.7	130.21	11.297	
18,500.0	10,600.0	20,183.0	12,067.5	135.1	139.1	-178.53	7,756.2	-839.5	1,467.1	1,335.9	131.20	11.182	
18,518.0	10,600.0	20,188.7	12,067.5	135.4	139.2	-178.53	7,761.8	-839.7	1,467.0	1,335.7	131.31	11.172	
18,600.0	10,600.0	20,221.0	12,068.2	136.7	139.7	-178.47	7,794.1	-841.6	1,468.6	1,336.7	131.87	11.137	
18,700.0	10,600.0	20,447.4	12,069.0	138.3	143.3	-178.06	8,019.9	-854.2	1,470.8	1,335.8	134.98	10.896	
18,800.0	10,600.0	20,519.6	12,066.0	139.9	144.5	-177.97	8,091.9	-857.3	1,466.7	1,330.5	136.21	10.768	
18,900.0	10,600.0	20,613.6	12,062.9	141.5	146.0	-177.81	8,185.8	-862.1	1,463.6	1,325.9	137.68	10.630	
19,000.0	10,600.0	20,705.7	12,060.3	143.1	147.4	-177.73	8,277.8	-865.0	1,460.9	1,321.8	139.13	10.501	
19,100.0	10,600.0	20,781.6	12,059.2	144.7	148.6	-177.74	8,353.7	-865.4	1,459.4	1,319.0	140.37	10.397	
19,200.0	10,600.0	20,873.8	12,058.9	146.3	150.1	-177.74	8,445.9	-866.4	1,459.0	1,317.2	141.80	10.289	
19,256.1	10,600.0	20,927.6	12,058.8	147.2	150.9	-177.70	8,499.6	-867.9	1,459.0	1,316.3	142.64	10.229	
19,300.0	10,600.0	20,969.8	12,058.8	147.9	151.6	-177.66	8,541.8	-869.3	1,459.0	1,315.7	143.29	10.182	
19,400.0	10,600.0	21,076.9	12,058.5	149.5	153.3	-177.53	8,648.8	-873.7	1,458.9	1,313.9	144.94	10.066	
19,407.0	10,600.0	21,084.4	12,058.5	149.6	153.4	-177.52	8,656.3	-874.1	1,458.9	1,313.8	145.05	10.057	
19,500.0	10,600.0	21,141.6	12,059.1	151.1	154.3	-177.49	8,713.5	-875.4	1,459.8	1,313.8	146.01	9.998	
19,600.0	10,600.0	21,299.2	12,059.9	152.7	156.8	-177.61	8,871.1	-873.9	1,460.5	1,312.2	148.27	9.850	
19,700.0	10,600.0	21,434.9	12,055.9	154.3	159.0	-177.71	9,006.7	-872.4	1,457.5	1,307.3	150.19	9.704	
19,800.0	10,600.0	21,548.9	12,050.4	155.9	160.8	-177.75	9,120.6	-872.4	1,452.6	1,300.7	151.86	9.565	
19,900.0	10,600.0	21,620.6	12,047.3	157.5	161.9	-177.75	9,192.2	-872.9	1,448.3	1,295.2	153.10	9.459	
20,000.0	10,600.0	21,780.4	12,036.7	159.1	164.5	-177.77	9,351.6	-873.6	1,440.8	1,285.6	155.19	9.284	
20,100.0	10,600.0	21,849.7	12,032.5	160.7	165.6	-177.76	9,420.7	-874.3	1,434.7	1,278.2	156.46	9.169	
20,200.0	10,600.0	21,989.9	12,023.7	162.3	167.8	-177.85	9,560.6	-873.2	1,428.5	1,270.2	158.32	9.023	
20,300.0	10,600.0	22,066.6	12,017.6	163.9	169.0	-177.96	9,637.1	-871.0	1,420.6	1,260.9	159.66	8.897	
20,400.0	10,600.0	22,128.5	12,014.5	165.6	170.0	-178.01	9,698.9	-870.2	1,415.4	1,254.6	160.84	8.801	
20,500.0	10,600.0	22,205.0	12,012.4	167.2	171.3	-178.08	9,775.4	-869.3	1,412.5	1,250.4	162.11	8.714	
20,600.0	10,600.0	22,275.0	12,011.7	168.8	172.4	-178.13	9,845.4	-868.7	1,411.5	1,248.2	163.26	8.645	
20,700.0	10,600.0	22,417.8	12,009.6	170.4	174.6	-178.21	9,988.1	-867.9	1,410.0	1,244.6	165.33	8.528	
20,761.7	10,600.0	22,435.0	12,009.0	171.4	174.9	-178.23	10,005.3	-867.8	1,408.7	1,243.0	165.73	8.500	
20,780.8	10,600.0	22,435.0	12,009.0	171.7	174.9	-178.23	10,005.3	-867.8	1,408.8	1,243.1	165.75	8.500	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 181-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	-126.97	-90.2	-119.9	150.1				
100.0	100.0	100.4	100.4	0.1	0.2	-127.02	-90.3	-119.7	149.9	149.6	0.28	534.301	
200.0	200.0	200.8	200.8	0.5	0.3	-127.18	-90.4	-119.1	149.5	148.7	0.83	179.758	
300.0	300.0	301.0	301.0	0.8	0.7	-127.37	-90.4	-118.4	148.9	147.4	1.55	96.110	
400.0	400.0	401.9	401.9	1.2	1.1	-127.62	-90.4	-117.2	148.0	145.7	2.27	65.170	
500.0	500.0	503.1	503.1	1.6	1.4	-128.16	-90.4	-115.0	146.3	143.3	3.00	48.854	
600.0	600.0	601.6	601.5	1.9	1.8	-128.65	-90.5	-113.1	144.8	141.1	3.70	39.103	
700.0	700.0	700.5	700.5	2.3	2.1	-128.90	-90.5	-112.2	144.2	139.8	4.42	32.648	
800.0	800.0	800.5	800.4	2.6	2.5	-129.03	-90.6	-111.8	143.9	138.8	5.13	28.030	
900.0	900.0	900.4	900.3	3.0	2.9	-129.12	-90.6	-111.4	143.6	137.8	5.85	24.559	
1,000.0	1,000.0	1,000.1	1,000.0	3.4	3.2	-129.20	-90.7	-111.2	143.5	136.9	6.56	21.888	
1,011.2	1,011.2	1,011.3	1,011.2	3.4	3.2	-129.20	-90.7	-111.2	143.5	136.9	6.64	21.625	CC
1,100.0	1,100.0	1,099.9	1,099.9	3.7	3.6	-129.26	-90.8	-111.2	143.6	136.3	7.26	19.765	
1,200.0	1,200.0	1,199.9	1,199.9	4.1	3.9	-129.31	-91.0	-111.1	143.7	135.7	7.97	18.025	
1,300.0	1,300.0	1,299.7	1,299.7	4.4	4.2	-129.37	-91.2	-111.2	143.8	135.1	8.67	16.576	
1,400.0	1,400.0	1,399.6	1,399.5	4.8	4.6	-129.37	-91.4	-111.4	144.1	134.7	9.37	15.377	ES
1,500.0	1,500.0	1,497.6	1,497.5	5.1	4.9	-129.49	-92.1	-111.8	144.9	134.8	10.06	14.397	
1,600.0	1,600.0	1,594.5	1,594.4	5.5	5.3	-130.25	-95.3	-112.6	147.6	136.9	10.75	13.729	
1,700.0	1,700.0	1,693.5	1,693.2	5.9	5.6	-131.49	-100.6	-113.7	152.0	140.5	11.46	13.267	
1,800.0	1,800.0	1,793.4	1,792.9	6.2	6.0	-132.72	-106.1	-114.8	156.5	144.3	12.17	12.861	
1,900.0	1,900.0	1,892.6	1,892.0	6.6	6.3	-134.00	-111.8	-115.8	161.2	148.3	12.88	12.519	
2,000.0	2,000.0	1,991.5	1,990.7	6.9	6.7	-135.52	-118.6	-116.4	166.5	152.9	13.58	12.255	
2,100.0	2,100.0	2,091.2	2,090.1	7.3	7.0	-137.23	-126.2	-116.7	172.2	157.9	14.30	12.040	
2,160.2	2,160.2	2,151.3	2,150.0	7.5	7.3	-138.28	-130.9	-116.7	175.6	160.9	14.73	11.923	
2,200.0	2,200.0	2,191.0	2,189.6	7.7	7.4	-23.27	-134.0	-116.6	177.8	162.8	15.01	11.847	
2,300.0	2,300.0	2,290.6	2,288.9	8.0	7.8	-25.28	-142.3	-116.0	182.4	166.7	15.70	11.614	
2,400.0	2,399.9	2,390.1	2,388.0	8.3	8.1	-27.66	-151.0	-114.9	185.7	169.3	16.39	11.325	
2,500.0	2,499.8	2,489.0	2,486.4	8.7	8.5	-30.26	-160.0	-113.8	188.0	171.0	17.09	11.006	
2,600.0	2,599.6	2,588.4	2,585.4	9.0	8.9	-33.05	-169.2	-113.0	189.7	171.9	17.78	10.666	
2,700.0	2,699.2	2,689.6	2,686.1	9.3	9.3	-36.28	-178.4	-111.5	189.8	171.3	18.50	10.263	
2,800.0	2,798.7	2,789.8	2,785.9	9.7	9.6	-39.99	-187.0	-109.2	188.4	169.2	19.20	9.812	
2,900.0	2,897.9	2,888.6	2,884.4	10.1	10.0	-43.72	-195.0	-107.9	186.5	166.6	19.90	9.371	
2,960.2	2,957.6	2,948.2	2,943.8	10.3	10.2	-45.94	-199.6	-107.9	185.2	164.9	20.32	9.111	
3,000.0	2,997.0	2,987.9	2,983.4	10.4	10.4	-47.41	-202.7	-108.1	184.3	163.7	20.61	8.944	
3,100.0	3,096.0	3,087.4	3,082.7	10.8	10.7	-51.16	-210.1	-108.5	182.6	161.3	21.32	8.563	
3,200.0	3,195.1	3,186.9	3,181.9	11.2	11.1	-54.95	-217.4	-109.0	181.5	159.4	22.04	8.234	
3,287.6	3,281.8	3,273.8	3,268.6	11.5	11.4	-58.33	-223.8	-109.2	181.2	158.5	22.68	7.990	
3,300.0	3,294.1	3,286.1	3,280.9	11.5	11.5	-58.81	-224.7	-109.3	181.2	158.4	22.77	7.958	
3,400.0	3,393.1	3,385.8	3,380.2	11.9	11.9	-62.72	-231.9	-109.4	181.6	158.1	23.50	7.729	
3,500.0	3,492.1	3,485.7	3,479.9	12.3	12.2	-66.64	-238.8	-109.5	182.6	158.4	24.25	7.532	
3,600.0	3,591.2	3,584.9	3,578.9	12.7	12.6	-70.50	-245.4	-109.5	184.2	159.2	24.99	7.370	
3,700.0	3,690.2	3,683.9	3,677.7	13.1	13.0	-74.29	-252.1	-109.4	186.7	160.9	25.74	7.253	
3,800.0	3,789.2	3,783.1	3,776.6	13.4	13.3	-77.96	-258.9	-109.4	190.1	163.6	26.49	7.174	
3,900.0	3,888.3	3,882.3	3,875.6	13.8	13.7	-81.41	-265.7	-109.6	194.2	167.0	27.25	7.126	
4,000.0	3,987.3	3,981.2	3,974.2	14.2	14.1	-84.68	-272.6	-109.8	199.1	171.1	28.01	7.108	SF
4,100.0	4,086.3	4,080.0	4,072.8	14.6	14.5	-87.84	-279.7	-109.8	204.8	176.1	28.77	7.119	
4,200.0	4,185.3	4,177.3	4,169.8	15.0	14.8	-90.99	-286.7	-108.8	211.7	182.2	29.52	7.172	
4,300.0	4,284.4	4,274.2	4,266.4	15.4	15.2	-94.24	-293.9	-106.3	220.2	189.9	30.26	7.275	
4,400.0	4,383.4	4,372.8	4,364.7	15.8	15.6	-97.37	-301.5	-103.3	229.8	198.8	31.02	7.408	
4,500.0	4,482.4	4,471.4	4,463.0	16.2	15.9	-100.14	-309.4	-100.6	240.1	208.4	31.78	7.556	
4,600.0	4,581.4	4,565.1	4,556.3	16.6	16.3	-102.64	-317.5	-97.0	252.1	219.7	32.47	7.764	
4,700.0	4,680.5	4,659.8	4,650.3	17.0	16.7	-105.12	-326.4	-91.7	266.4	233.2	33.17	8.032	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 181-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	4,779.5	4,763.8	4,753.8	17.4	17.1	-107.59	-335.8	-86.1	280.7	246.7	34.01	8.254	
4,900.0	4,878.5	4,870.0	4,859.6	17.8	17.5	-109.79	-343.9	-82.3	293.2	258.4	34.85	8.414	
5,000.0	4,977.6	4,980.4	4,969.8	18.2	17.9	-111.91	-349.9	-81.0	302.8	267.1	35.69	8.482	
5,100.0	5,076.6	5,085.0	5,074.4	18.6	18.2	-113.87	-353.0	-82.0	309.4	273.0	36.47	8.484	
5,200.0	5,175.6	5,185.2	5,174.6	19.0	18.6	-115.83	-354.8	-82.9	315.8	278.6	37.22	8.486	
5,300.0	5,274.6	5,284.9	5,274.2	19.4	18.9	-117.85	-355.9	-83.4	322.4	284.4	37.96	8.492	
5,400.0	5,373.7	5,384.3	5,373.7	19.9	19.3	-119.83	-356.6	-83.9	329.2	290.5	38.70	8.507	
5,500.0	5,472.7	5,483.5	5,472.8	20.3	19.6	-121.76	-357.2	-84.3	336.4	296.9	39.43	8.530	
5,600.0	5,571.7	5,582.6	5,571.9	20.7	20.0	-123.60	-357.8	-84.7	343.9	303.7	40.16	8.563	
5,700.0	5,670.7	5,682.3	5,671.7	21.1	20.3	-125.39	-358.3	-85.2	351.6	310.8	40.88	8.601	
5,800.0	5,769.8	5,782.1	5,771.4	21.5	20.7	-127.11	-358.6	-85.8	359.6	318.0	41.60	8.643	
5,900.0	5,868.8	5,881.6	5,870.9	21.9	21.0	-128.76	-358.8	-86.4	367.7	325.3	42.31	8.689	
6,000.0	5,967.8	5,981.0	5,970.3	22.3	21.3	-130.37	-358.8	-87.1	375.9	332.9	43.02	8.739	
6,100.0	6,066.8	6,079.8	6,069.1	22.7	21.6	-131.91	-358.7	-87.7	384.5	340.8	43.72	8.796	
6,200.0	6,165.9	6,178.7	6,168.0	23.1	22.0	-133.39	-358.6	-88.3	393.5	349.1	44.42	8.859	
6,300.0	6,264.9	6,278.1	6,267.4	23.6	22.3	-134.81	-358.5	-88.8	402.6	357.5	45.11	8.925	
6,400.0	6,363.9	6,377.3	6,366.6	24.0	22.6	-136.16	-358.4	-89.5	411.9	366.1	45.81	8.993	
6,500.0	6,463.0	6,476.1	6,465.4	24.4	23.0	-137.45	-358.3	-90.1	421.5	375.0	46.50	9.065	
6,600.0	6,562.0	6,574.9	6,564.2	24.8	23.3	-138.70	-358.1	-90.6	431.4	384.2	47.19	9.141	
6,700.0	6,661.0	6,674.0	6,663.3	25.2	23.6	-139.89	-357.9	-91.1	441.5	393.6	47.88	9.219	
6,800.0	6,760.0	6,772.8	6,762.1	25.6	24.0	-141.02	-357.8	-91.6	451.7	403.2	48.58	9.299	
6,900.0	6,859.1	6,871.4	6,860.7	26.0	24.3	-142.09	-357.8	-92.0	462.3	413.0	49.27	9.382	
7,000.0	6,958.1	6,970.0	6,959.3	26.5	24.6	-143.09	-357.9	-92.3	473.1	423.1	49.97	9.468	
7,100.0	7,057.1	7,068.6	7,057.9	26.9	25.0	-144.06	-358.0	-92.5	484.1	433.4	50.67	9.555	
7,200.0	7,156.1	7,167.5	7,156.8	27.3	25.3	-145.00	-358.0	-92.7	495.3	444.0	51.36	9.645	
7,300.0	7,255.2	7,266.3	7,255.6	27.7	25.6	-145.92	-357.7	-92.7	506.7	454.7	52.05	9.736	
7,400.0	7,354.2	7,365.8	7,355.1	28.1	26.0	-146.84	-357.3	-92.8	518.2	465.5	52.73	9.827	
7,500.0	7,453.2	7,465.6	7,454.9	28.5	26.3	-147.69	-357.0	-93.0	529.7	476.3	53.43	9.915	
7,600.0	7,552.2	7,564.8	7,554.1	29.0	26.6	-148.49	-356.9	-93.3	541.2	487.1	54.12	10.001	
7,700.0	7,651.3	7,663.8	7,653.1	29.4	27.0	-149.25	-356.7	-93.6	552.9	498.1	54.81	10.087	
7,800.0	7,750.3	7,762.3	7,751.6	29.8	27.3	-149.98	-356.6	-93.9	564.6	509.1	55.50	10.174	
7,900.0	7,849.3	7,860.9	7,850.2	30.2	27.6	-150.67	-356.5	-94.1	576.6	520.4	56.18	10.262	
8,000.0	7,948.4	7,961.1	7,950.4	30.6	28.0	-151.35	-356.4	-94.3	588.5	531.6	56.89	10.345	
8,047.5	7,995.4	8,008.7	7,998.0	30.8	28.1	-151.66	-356.3	-94.5	594.1	536.9	57.22	10.384	
8,100.0	8,047.4	8,061.4	8,050.7	31.0	28.3	-152.03	-356.3	-94.8	600.0	542.4	57.59	10.419	
8,200.0	8,146.8	8,161.0	8,150.3	31.4	28.7	-152.58	-356.3	-95.3	609.5	551.2	58.29	10.455	
8,300.0	8,246.4	8,261.1	8,250.4	31.8	29.0	-152.98	-356.6	-95.9	616.6	557.6	58.99	10.451	
8,400.0	8,346.2	8,361.6	8,350.9	32.2	29.4	-153.23	-356.9	-96.6	621.2	561.5	59.70	10.406	
8,500.0	8,446.2	8,462.1	8,451.3	32.5	29.7	-153.37	-357.2	-97.4	623.5	563.1	60.40	10.322	
8,580.8	8,527.0	8,543.0	8,532.2	32.8	30.0	90.90	-357.4	-98.1	623.6	562.6	60.96	10.230	
8,600.0	8,546.2	8,562.1	8,551.4	32.9	30.1	90.90	-357.4	-98.3	623.4	562.3	61.09	10.205	
8,700.0	8,646.2	8,662.7	8,652.0	33.2	30.4	90.92	-357.6	-99.2	622.6	560.8	61.77	10.078	
8,800.0	8,746.2	8,763.8	8,753.1	33.5	30.8	90.97	-358.1	-100.2	621.5	559.1	62.46	9.950	
8,900.0	8,846.2	8,864.9	8,854.1	33.8	31.1	91.03	-358.8	-101.4	620.3	557.2	63.16	9.822	
9,000.0	8,946.2	8,965.9	8,955.1	34.1	31.5	91.09	-359.3	-102.8	619.0	555.1	63.85	9.694	
9,100.0	9,046.2	9,065.7	9,054.9	34.5	31.8	91.13	-359.8	-104.3	617.5	553.0	64.53	9.569	
9,200.0	9,146.2	9,165.1	9,154.4	34.8	32.2	91.18	-360.3	-105.7	616.1	550.9	65.21	9.448	
9,300.0	9,246.2	9,265.2	9,254.5	35.1	32.5	91.23	-360.7	-107.0	614.8	548.9	65.90	9.329	
9,400.0	9,346.2	9,365.5	9,354.7	35.4	32.9	91.29	-361.4	-108.4	613.4	546.8	66.59	9.212	
9,500.0	9,446.2	9,462.8	9,452.0	35.7	33.2	91.33	-361.8	-109.6	612.2	545.0	67.26	9.103	
9,600.0	9,546.2	9,559.9	9,549.1	36.1	33.6	91.34	-361.8	-110.3	611.5	543.6	67.92	9.003	
9,700.0	9,646.2	9,665.9	9,655.1	36.4	33.9	91.35	-361.9	-111.3	610.6	541.9	68.64	8.895	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 181-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	9,746.2	9,772.0	9,761.1	36.7	34.3	91.42	-362.7	-113.4	608.6	539.2	69.36	8.774	
9,900.0	9,846.2	9,865.5	9,854.7	37.0	34.6	91.47	-363.2	-115.0	606.9	536.9	70.02	8.668	
10,000.0	9,946.2	9,961.9	9,951.0	37.3	35.0	91.48	-363.2	-116.0	605.8	535.1	70.68	8.571	
10,080.8	10,027.0	10,041.4	10,030.5	37.6	35.2	91.46	-363.0	-116.6	605.2	534.0	71.22	8.498	
10,100.0	10,046.2	10,060.2	10,049.3	37.7	35.3	92.05	-362.8	-116.7	605.2	533.8	71.35	8.482	
10,140.5	10,086.6	10,100.0	10,089.1	37.8	35.4	92.29	-362.5	-116.8	605.1	533.4	71.62	8.449	
10,150.0	10,096.0	10,109.2	10,098.4	37.8	35.5	92.38	-362.5	-116.9	605.1	533.4	71.68	8.441	
10,200.0	10,145.3	10,158.5	10,147.6	38.0	35.6	93.08	-362.0	-117.0	605.3	533.3	72.02	8.404	
10,250.0	10,193.7	10,207.2	10,196.3	38.1	35.8	94.13	-361.6	-117.2	605.9	533.5	72.36	8.373	
10,300.0	10,240.9	10,254.7	10,243.8	38.2	36.0	95.46	-361.2	-117.4	607.1	534.4	72.69	8.352	
10,350.0	10,286.4	10,300.5	10,289.6	38.3	36.1	96.99	-360.9	-117.6	609.3	536.3	73.02	8.344	
10,400.0	10,329.9	10,344.0	10,333.2	38.4	36.3	98.62	-360.7	-117.8	612.8	539.5	73.34	8.356	
10,450.0	10,371.1	10,385.1	10,374.2	38.5	36.4	100.23	-360.7	-118.0	618.1	544.5	73.65	8.393	
10,500.0	10,409.8	10,423.4	10,412.5	38.6	36.5	101.72	-360.7	-118.2	625.6	551.6	73.94	8.461	
10,550.0	10,445.5	10,459.0	10,448.2	38.6	36.7	102.98	-360.6	-118.4	635.6	561.4	74.21	8.565	
10,600.0	10,478.0	10,491.8	10,480.9	38.7	36.8	103.91	-360.5	-118.4	648.4	574.0	74.45	8.709	
10,650.0	10,507.1	10,521.5	10,510.6	38.7	36.9	104.43	-360.2	-118.5	664.3	589.6	74.67	8.897	
10,700.0	10,532.5	10,547.7	10,536.9	38.7	37.0	104.44	-359.9	-118.5	683.3	608.5	74.85	9.129	
10,750.0	10,554.1	10,570.3	10,559.4	38.7	37.0	103.84	-359.6	-118.5	705.5	630.5	75.01	9.406	
10,800.0	10,571.7	10,588.9	10,578.0	38.7	37.1	102.55	-359.4	-118.6	730.7	655.6	75.12	9.727	
10,850.0	10,585.1	10,603.4	10,592.5	38.7	37.2	100.49	-359.2	-118.6	758.9	683.7	75.21	10.090	
10,900.0	10,594.3	10,612.6	10,601.8	38.7	37.2	97.48	-359.0	-118.6	789.6	714.3	75.25	10.492	
10,950.0	10,599.1	10,617.9	10,607.1	38.7	37.2	93.61	-358.9	-118.6	822.5	747.3	75.27	10.928	
10,980.8	10,600.0	10,619.1	10,608.3	38.7	37.2	90.79	-358.9	-118.6	843.8	768.5	75.26	11.211	
11,000.0	10,600.0	10,619.4	10,608.5	38.7	37.2	90.81	-358.9	-118.6	857.3	782.0	75.26	11.391	
11,100.0	10,600.0	10,620.7	10,609.9	38.9	37.2	90.94	-358.9	-118.6	931.0	855.8	75.23	12.376	
11,200.0	10,600.0	10,622.0	10,611.2	39.1	37.2	91.07	-358.9	-118.6	1,009.3	934.1	75.20	13.422	
11,300.0	10,600.0	10,623.3	10,612.5	39.5	37.2	91.19	-358.9	-118.6	1,091.1	1,016.0	75.17	14.516	
11,400.0	10,600.0	10,624.6	10,613.7	40.0	37.2	91.31	-358.8	-118.6	1,175.8	1,100.6	75.15	15.646	
11,500.0	10,600.0	10,625.9	10,615.0	40.5	37.2	91.43	-358.8	-118.6	1,262.7	1,187.5	75.13	16.807	
11,600.0	10,600.0	10,627.1	10,616.3	41.1	37.2	91.55	-358.8	-118.6	1,351.4	1,276.3	75.11	17.992	
11,700.0	10,600.0	10,628.4	10,617.5	41.8	37.2	91.67	-358.8	-118.6	1,441.6	1,366.5	75.10	19.195	
11,800.0	10,600.0	10,629.6	10,618.7	42.5	37.2	91.78	-358.8	-118.6	1,532.9	1,457.9	75.09	20.415	
11,900.0	10,600.0	10,630.8	10,619.9	43.3	37.2	91.89	-358.8	-118.6	1,625.4	1,550.3	75.09	21.647	
12,000.0	10,600.0	10,631.9	10,621.1	44.1	37.2	92.01	-358.7	-118.6	1,718.6	1,643.5	75.08	22.889	
12,100.0	10,600.0	10,633.1	10,622.2	44.9	37.3	92.12	-358.7	-118.6	1,812.6	1,737.5	75.08	24.141	
12,200.0	10,600.0	10,634.3	10,623.4	45.8	37.3	92.23	-358.7	-118.6	1,907.2	1,832.1	75.09	25.399	
12,300.0	10,600.0	13,982.1	12,438.0	46.8	51.8	162.23	1,529.1	-151.1	1,930.3	1,877.4	52.93	36.471	
12,400.0	10,600.0	14,048.0	12,439.4	47.8	52.4	162.23	1,595.1	-151.4	1,932.4	1,878.6	53.81	35.914	
12,500.0	10,600.0	14,163.6	12,441.6	48.8	53.5	162.19	1,710.7	-150.4	1,934.7	1,879.6	55.15	35.082	
12,600.0	10,600.0	14,241.2	12,442.4	49.8	54.3	162.08	1,788.1	-146.9	1,937.4	1,881.2	56.27	34.429	
12,700.0	10,600.0	14,393.1	12,441.7	50.9	55.8	161.76	1,939.8	-137.1	1,939.2	1,881.0	58.26	33.286	
12,800.0	10,600.0	14,514.3	12,439.5	52.0	57.1	161.57	2,060.9	-132.3	1,939.1	1,879.2	59.92	32.361	
12,900.0	10,600.0	12,900.0	12,437.2	53.1	42.8	161.44	2,170.5	-129.8	1,938.1	1,887.3	50.76	38.181	
12,950.8	10,600.0	14,654.9	12,436.7	53.7	58.6	161.41	2,201.4	-129.2	1,937.8	1,875.8	61.96	31.274	
13,000.0	10,600.0	14,683.3	12,436.5	54.3	58.9	161.39	2,229.8	-128.6	1,938.0	1,875.6	62.44	31.038	
13,100.0	10,600.0	14,789.3	12,437.2	55.5	60.1	161.32	2,335.7	-126.9	1,939.5	1,875.6	63.93	30.336	
13,200.0	10,600.0	14,862.8	12,438.3	56.7	61.0	161.34	2,409.2	-128.1	1,940.8	1,875.7	65.03	29.844	
13,300.0	10,600.0	14,948.7	12,441.7	57.9	62.0	161.44	2,495.0	-131.5	1,943.5	1,877.3	66.19	29.361	
13,400.0	10,600.0	13,400.0	12,446.0	59.2	58.8	161.63	2,622.7	-137.9	1,945.3	1,888.8	56.53	34.414	
13,500.0	10,600.0	15,163.6	12,448.3	60.5	64.6	161.75	2,709.4	-142.5	1,946.6	1,877.7	68.91	28.250	
13,600.0	10,600.0	15,272.6	12,451.5	61.8	66.0	161.85	2,818.4	-145.9	1,948.8	1,878.4	70.37	27.695	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 181-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	10,600.0	15,390.2	12,453.6	63.1	67.5	161.96	2,935.9	-150.3	1,949.6	1,877.6	71.93	27.105	
13,800.0	10,600.0	15,450.2	12,455.4	64.4	68.2	162.03	2,995.7	-153.0	1,951.3	1,878.4	72.88	26.774	
13,900.0	10,600.0	15,552.8	12,460.1	65.7	69.6	162.20	3,098.1	-158.6	1,954.3	1,880.1	74.23	26.329	
14,000.0	10,600.0	15,608.4	12,463.0	67.1	70.3	162.30	3,153.6	-161.7	1,958.0	1,882.9	75.13	26.063	
14,100.0	10,600.0	15,665.6	12,467.2	68.4	71.1	162.37	3,210.6	-163.5	1,964.2	1,888.1	76.08	25.818	
14,200.0	10,600.0	15,994.8	12,467.0	69.8	75.5	162.14	3,539.3	-158.6	1,963.6	1,883.0	80.54	24.381	
14,300.0	10,600.0	14,300.0	12,458.0	71.2	52.3	161.94	3,667.7	-155.6	1,957.8	1,888.8	69.01	28.372	
14,400.0	10,600.0	16,191.6	12,453.1	72.6	78.1	161.83	3,735.6	-153.7	1,952.3	1,868.3	83.97	23.249	
14,500.0	10,600.0	16,273.3	12,449.1	74.0	79.3	161.69	3,817.1	-151.1	1,948.8	1,863.3	85.48	22.798	
14,600.0	10,600.0	16,390.0	12,442.6	75.5	80.9	161.49	3,933.6	-147.0	1,944.9	1,857.4	87.52	22.222	
14,700.0	10,600.0	16,502.1	12,436.0	76.9	82.5	161.33	4,045.4	-144.7	1,940.3	1,850.9	89.46	21.690	
14,800.0	10,600.0	16,623.0	12,428.8	78.3	84.2	161.28	4,166.1	-146.7	1,934.4	1,843.0	91.38	21.168	
14,900.0	10,600.0	16,680.5	12,425.8	79.8	85.0	161.26	4,223.5	-147.4	1,929.5	1,837.0	92.52	20.855	
15,000.0	10,600.0	16,761.3	12,423.3	81.2	86.2	161.24	4,304.2	-148.5	1,926.4	1,832.4	93.93	20.509	
15,100.0	10,600.0	16,878.3	12,420.2	82.7	87.8	161.27	4,421.2	-151.5	1,923.4	1,827.6	95.75	20.088	
15,200.0	10,600.0	17,006.1	12,415.8	84.2	89.7	161.34	4,548.8	-156.7	1,919.1	1,821.5	97.64	19.655	
15,300.0	10,600.0	17,121.9	12,410.0	85.6	91.4	161.42	4,664.3	-162.9	1,913.0	1,813.6	99.36	19.252	
15,400.0	10,600.0	17,200.4	12,406.7	87.1	92.5	161.48	4,742.6	-166.8	1,907.6	1,806.9	100.67	18.948	
15,500.0	10,600.0	17,286.6	12,402.6	88.6	93.8	161.44	4,828.7	-167.5	1,903.2	1,801.0	102.22	18.619	
15,600.0	10,600.0	17,391.0	12,397.5	90.1	95.3	161.35	4,932.9	-167.1	1,899.0	1,794.9	104.07	18.248	
15,700.0	10,600.0	17,532.7	12,389.6	91.6	97.4	161.24	5,074.4	-167.6	1,894.0	1,787.6	106.39	17.802	
15,800.0	10,600.0	17,671.0	12,378.2	93.1	99.5	161.12	5,212.2	-168.5	1,886.4	1,777.7	108.70	17.355	
15,900.0	10,600.0	17,778.9	12,368.1	94.6	101.1	161.03	5,319.7	-170.1	1,877.2	1,766.7	110.59	16.974	
16,000.0	10,600.0	17,850.1	12,361.9	96.2	102.2	161.00	5,390.6	-171.7	1,868.8	1,756.8	112.00	16.685	
16,100.0	10,600.0	17,900.7	12,358.9	97.7	103.0	160.99	5,441.1	-173.1	1,862.6	1,749.5	113.11	16.466	
16,200.0	10,600.0	17,986.4	12,355.9	99.2	104.3	161.01	5,526.7	-175.6	1,858.5	1,743.9	114.61	16.216	
16,300.0	10,600.0	18,127.7	12,348.8	100.7	106.4	161.02	5,667.7	-179.7	1,853.1	1,736.3	116.81	15.865	
16,400.0	10,600.0	18,189.2	12,345.7	102.3	107.3	161.02	5,729.1	-181.3	1,847.8	1,729.7	118.05	15.653	
16,500.0	10,600.0	18,312.9	12,340.5	103.8	109.2	161.02	5,852.7	-184.5	1,843.4	1,723.4	120.04	15.356	
16,600.0	10,600.0	18,404.5	12,336.3	105.3	110.6	161.06	5,944.1	-188.1	1,838.1	1,716.5	121.59	15.117	
16,700.0	10,600.0	18,480.8	12,332.8	106.9	111.8	161.03	6,020.3	-189.1	1,833.7	1,710.6	123.06	14.900	
16,800.0	10,600.0	18,604.3	12,325.9	108.4	113.7	160.85	6,143.6	-186.7	1,829.3	1,704.0	125.38	14.590	
16,900.0	10,600.0	18,714.0	12,318.7	110.0	115.3	160.71	6,253.1	-185.4	1,823.9	1,696.4	127.48	14.307	
17,000.0	10,600.0	18,810.8	12,312.2	111.5	116.8	160.58	6,349.7	-184.2	1,818.3	1,688.9	129.41	14.051	
17,100.0	10,600.0	18,925.5	12,304.7	113.1	118.6	160.43	6,464.1	-183.1	1,812.8	1,681.2	131.58	13.777	
17,200.0	10,600.0	19,024.7	12,296.9	114.7	120.1	160.28	6,563.0	-181.9	1,806.1	1,672.5	133.59	13.520	
17,300.0	10,600.0	17,300.0	12,286.4	116.2	93.5	160.08	6,687.2	-180.2	1,798.9	1,678.9	120.04	14.986	
17,400.0	10,600.0	19,219.0	12,279.9	117.8	123.1	159.95	6,756.5	-178.7	1,791.5	1,653.8	137.66	13.014	
17,500.0	10,600.0	19,250.0	12,277.8	119.3	123.6	159.89	6,787.4	-178.0	1,787.2	1,648.5	138.64	12.890	
17,597.5	10,600.0	19,310.4	12,275.8	120.9	124.5	159.81	6,847.8	-176.7	1,785.5	1,645.5	139.99	12.754	
17,600.0	10,600.0	19,311.5	12,275.8	120.9	124.6	159.81	6,848.9	-176.7	1,785.5	1,645.5	140.02	12.752	
17,700.0	10,600.0	19,380.4	12,276.6	122.5	125.6	159.78	6,917.7	-176.2	1,787.0	1,645.6	141.37	12.640	
17,800.0	10,600.0	19,495.1	12,277.7	124.1	127.4	159.77	7,032.5	-176.5	1,788.1	1,644.7	143.41	12.469	
17,900.0	10,600.0	19,597.2	12,278.6	125.6	129.0	159.77	7,134.6	-177.0	1,789.1	1,643.9	145.22	12.319	
18,000.0	10,600.0	19,702.3	12,279.0	127.2	130.6	159.74	7,239.7	-176.9	1,789.8	1,642.7	147.15	12.163	
18,100.0	10,600.0	19,799.9	12,279.1	128.8	132.1	159.69	7,337.2	-176.3	1,790.4	1,641.4	148.99	12.017	
18,200.0	10,600.0	19,929.3	12,279.0	130.4	134.2	159.68	7,466.7	-177.3	1,790.5	1,639.3	151.23	11.840	
18,300.0	10,600.0	20,063.1	12,277.0	132.0	136.3	159.73	7,600.4	-181.0	1,788.4	1,635.1	153.38	11.660	
18,400.0	10,600.0	20,177.6	12,274.9	133.5	138.1	159.84	7,714.7	-186.5	1,785.4	1,630.3	155.13	11.509	
18,500.0	10,600.0	20,276.0	12,272.7	135.1	139.6	159.96	7,812.9	-192.5	1,781.6	1,624.9	156.63	11.374	
18,600.0	10,600.0	20,377.1	12,270.2	136.7	141.2	160.02	7,913.9	-196.3	1,778.2	1,619.9	158.31	11.233	
18,700.0	10,600.0	20,446.6	12,268.5	138.3	142.3	160.06	7,983.3	-199.0	1,775.1	1,615.5	159.60	11.122	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #203H - Wellbore #1 - Actual

Offset Site Error: 0.0 usft

Survey Program: 181-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
18,768.8	10,600.0	20,482.2	12,268.1	139.4	142.9	160.06	8,018.9	-199.4	1,774.5	1,614.1	160.36	11.066	
18,800.0	10,600.0	20,504.0	12,268.1	139.9	143.2	160.05	8,040.7	-199.2	1,774.6	1,613.9	160.80	11.037	
18,900.0	10,600.0	20,591.9	12,268.6	141.5	144.6	160.01	8,128.6	-198.5	1,775.8	1,613.3	162.49	10.928	
19,000.0	10,600.0	20,707.4	12,269.8	143.1	146.4	160.03	8,244.1	-200.1	1,776.6	1,612.2	164.47	10.802	
19,100.0	10,600.0	20,832.0	12,268.6	144.7	148.4	159.96	8,368.6	-199.4	1,776.2	1,609.4	166.79	10.649	
19,200.0	10,600.0	20,954.5	12,266.5	146.3	150.3	159.94	8,491.1	-200.6	1,774.6	1,605.6	168.96	10.503	
19,300.0	10,600.0	21,050.5	12,264.4	147.9	151.9	159.95	8,587.1	-202.6	1,772.2	1,601.6	170.68	10.383	
19,400.0	10,600.0	21,159.5	12,261.8	149.5	153.6	159.92	8,696.1	-203.6	1,770.0	1,597.3	172.68	10.250	
19,500.0	10,600.0	21,272.1	12,258.2	151.1	155.4	159.87	8,808.6	-204.5	1,767.1	1,592.3	174.76	10.111	
19,600.0	10,600.0	21,372.2	12,254.0	152.7	157.0	159.77	8,908.6	-203.6	1,763.8	1,587.0	176.82	9.975	
19,700.0	10,600.0	21,475.4	12,250.0	154.3	158.6	159.69	9,011.7	-203.8	1,760.4	1,581.6	178.85	9.843	
19,800.0	10,600.0	21,575.0	12,246.5	155.9	160.2	159.68	9,111.2	-205.5	1,756.8	1,576.1	180.70	9.723	
19,900.0	10,600.0	21,685.5	12,243.1	157.5	162.0	159.69	9,221.6	-208.3	1,753.4	1,570.8	182.60	9.602	
20,000.0	10,600.0	21,804.5	12,238.4	159.1	163.9	159.76	9,340.4	-213.6	1,748.5	1,564.0	184.46	9.479	
20,100.0	10,600.0	21,908.3	12,234.7	160.7	165.5	159.90	9,443.9	-220.5	1,743.2	1,557.3	185.96	9.374	
20,200.0	10,600.0	22,012.0	12,231.4	162.3	167.2	160.10	9,547.2	-229.1	1,737.7	1,550.4	187.31	9.278	
20,300.0	10,600.0	22,125.8	12,227.7	163.9	169.0	160.35	9,660.5	-239.7	1,731.8	1,543.2	188.60	9.182	
20,400.0	10,600.0	22,257.0	12,222.3	165.6	171.2	160.73	9,790.7	-254.8	1,724.4	1,534.6	189.75	9.088	
20,500.0	10,600.0	22,362.4	12,217.7	167.2	172.9	161.11	9,894.9	-269.6	1,715.9	1,525.3	190.60	9.003	
20,600.0	10,600.0	22,461.4	12,213.3	168.8	174.5	161.48	9,992.9	-283.7	1,707.5	1,516.1	191.42	8.920	
20,700.0	10,600.0	22,462.0	12,213.3	170.4	174.5	161.48	9,993.4	-283.7	1,702.0	1,509.9	192.08	8.861	
20,744.0	10,600.0	22,462.0	12,213.3	171.1	174.5	161.48	9,993.4	-283.7	1,701.4	1,509.2	192.21	8.852	
20,780.8	10,600.0	22,462.0	12,213.3	171.7	174.5	161.48	9,993.4	-283.7	1,701.8	1,509.5	192.25	8.852	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #217H - Wellbore #1 - BLM Plan #1

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	-37.09	24.0	-18.1	30.0				
100.0	100.0	101.0	101.0	0.1	0.1	-37.09	24.0	-18.1	30.0	29.8	0.26	115.578	
200.0	200.0	201.0	201.0	0.5	0.5	-37.09	24.0	-18.1	30.0	29.1	0.98	30.750	
300.0	300.0	301.0	301.0	0.8	0.8	-37.09	24.0	-18.1	30.0	28.3	1.69	17.734	
400.0	400.0	401.0	401.0	1.2	1.2	-37.09	24.0	-18.1	30.0	27.6	2.41	12.460	
500.0	500.0	501.0	501.0	1.6	1.6	-37.09	24.0	-18.1	30.0	26.9	3.13	9.604	
600.0	600.0	601.0	601.0	1.9	1.9	-37.09	24.0	-18.1	30.0	26.2	3.84	7.813	
700.0	700.0	701.0	701.0	2.3	2.3	-37.09	24.0	-18.1	30.0	25.5	4.56	6.585	
800.0	800.0	801.0	801.0	2.6	2.6	-37.09	24.0	-18.1	30.0	24.8	5.28	5.691	
900.0	900.0	901.0	901.0	3.0	3.0	-37.09	24.0	-18.1	30.0	24.0	6.00	5.010	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-37.09	24.0	-18.1	30.0	23.3	6.71	4.475	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-37.09	24.0	-18.1	30.0	22.6	7.43	4.043	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-37.09	24.0	-18.1	30.0	21.9	8.15	3.687	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-37.09	24.0	-18.1	30.0	21.2	8.86	3.389	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-37.09	24.0	-18.1	30.0	20.5	9.58	3.135	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-37.09	24.0	-18.1	30.0	19.7	10.30	2.917	
1,600.0	1,600.0	1,601.0	1,601.0	5.5	5.5	-37.09	24.0	-18.1	30.0	19.0	11.01	2.727	
1,700.0	1,700.0	1,701.0	1,701.0	5.9	5.9	-37.09	24.0	-18.1	30.0	18.3	11.73	2.561	
1,800.0	1,800.0	1,801.0	1,801.0	6.2	6.2	-37.09	24.0	-18.1	30.0	17.6	12.45	2.413	
1,900.0	1,900.0	1,901.0	1,901.0	6.6	6.6	-37.09	24.0	-18.1	30.0	16.9	13.16	2.282	
2,000.0	2,000.0	2,001.0	2,001.0	6.9	6.9	-37.09	24.0	-18.1	30.0	16.2	13.88	2.164	
2,100.0	2,100.0	2,101.0	2,101.0	7.3	7.3	-37.09	24.0	-18.1	30.0	15.4	14.60	2.058	
2,160.2	2,160.2	2,161.2	2,161.2	7.5	7.5	-37.09	24.0	-18.1	30.0	15.0	15.03	1.999	
2,200.0	2,200.0	2,201.0	2,201.0	7.7	7.7	78.89	24.0	-18.1	30.0	14.7	15.31	1.960	
2,300.0	2,300.0	2,301.0	2,301.0	8.0	8.0	81.86	24.0	-18.1	29.7	13.7	16.00	1.859	
2,400.0	2,399.9	2,400.9	2,400.9	8.3	8.4	88.25	24.0	-18.1	29.5	12.8	16.70	1.765	
2,420.7	2,420.6	2,421.6	2,421.6	8.4	8.5	90.00	24.0	-18.1	29.4	12.6	16.84	1.749	CC
2,500.0	2,499.8	2,500.8	2,500.8	8.7	8.7	98.02	24.0	-18.1	29.7	12.3	17.39	1.710	
2,600.0	2,599.6	2,600.6	2,600.6	9.0	9.1	110.35	24.0	-18.1	31.4	13.3	18.09	1.736	
2,700.0	2,699.2	2,700.2	2,700.2	9.3	9.4	123.38	24.0	-18.1	35.3	16.5	18.80	1.879	
2,800.0	2,798.7	2,800.3	2,799.7	9.7	9.8	135.13	24.0	-18.1	41.9	22.4	19.50	2.148	
2,900.0	2,897.9	2,901.1	2,898.9	10.1	10.2	144.60	24.0	-18.1	51.1	30.9	20.20	2.530	
2,960.2	2,957.6	2,958.6	2,958.6	10.3	10.4	149.18	24.0	-18.1	57.9	37.3	20.62	2.808	
3,000.0	2,997.0	3,002.0	2,998.0	10.4	10.5	151.77	24.0	-18.1	62.7	41.8	20.91	3.000	
3,100.0	3,096.0	3,097.8	3,097.8	10.8	10.9	156.75	23.8	-18.4	75.0	53.4	21.59	3.475	
3,200.0	3,195.1	3,198.4	3,198.4	11.2	11.2	160.12	22.8	-19.9	86.2	63.9	22.26	3.871	
3,300.0	3,294.1	3,299.5	3,299.4	11.5	11.5	162.54	20.7	-23.0	95.8	72.9	22.94	4.177	
3,400.0	3,393.1	3,400.8	3,400.6	11.9	11.9	164.38	17.7	-27.6	103.8	80.2	23.61	4.398	
3,500.0	3,492.1	3,502.5	3,502.0	12.3	12.2	165.86	13.6	-33.6	110.2	85.9	24.28	4.539	
3,600.0	3,591.2	3,604.3	3,603.4	12.7	12.6	167.10	8.6	-41.2	114.9	89.9	24.95	4.605	
3,700.0	3,690.2	3,706.3	3,704.8	13.1	12.9	168.18	2.5	-50.3	117.8	92.2	25.61	4.600	
3,800.0	3,789.2	3,808.4	3,806.1	13.4	13.3	169.17	-4.5	-60.9	119.0	92.7	26.26	4.531	
3,900.0	3,888.3	3,909.1	3,905.8	13.8	13.6	170.10	-12.2	-72.5	118.9	91.9	26.95	4.412	
4,000.0	3,987.3	4,009.0	4,004.8	14.2	14.0	171.02	-19.9	-84.1	118.7	91.0	27.64	4.293	
4,100.0	4,086.3	4,109.0	4,103.8	14.6	14.4	171.95	-27.7	-95.7	118.5	90.2	28.34	4.182	
4,200.0	4,185.3	4,209.0	4,202.8	15.0	14.7	172.88	-35.4	-107.3	118.4	89.4	29.05	4.077	
4,300.0	4,284.4	4,309.0	4,301.8	15.4	15.1	173.81	-43.1	-118.8	118.3	88.6	29.75	3.977	
4,400.0	4,383.4	4,409.0	4,400.8	15.8	15.5	174.74	-50.8	-130.4	118.3	87.8	30.46	3.883	
4,500.0	4,482.4	4,508.9	4,499.8	16.2	15.8	175.67	-58.5	-142.0	118.2	87.1	31.17	3.794	
4,543.5	4,525.5	4,552.5	4,542.9	16.4	16.0	176.08	-61.8	-147.0	118.2	86.8	31.47	3.756	
4,600.0	4,581.4	4,608.9	4,598.8	16.6	16.2	176.60	-66.2	-153.6	118.2	86.4	31.88	3.709	
4,700.0	4,680.5	4,708.9	4,697.9	17.0	16.6	177.53	-73.9	-165.2	118.3	85.7	32.59	3.629	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #217H - Wellbore #1 - BLM Plan #1

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
4,800.0	4,779.5	4,808.9	4,796.9	17.4	17.0	178.46	-81.6	-176.8	118.3	85.0	33.30	3.553	
4,900.0	4,878.5	4,908.9	4,895.9	17.8	17.3	179.39	-89.3	-188.3	118.4	84.4	34.02	3.481	
5,000.0	4,977.6	5,008.9	4,994.9	18.2	17.7	-179.68	-97.0	-199.9	118.6	83.8	34.74	3.413	
5,100.0	5,076.6	5,108.8	5,093.9	18.6	18.1	-178.75	-104.8	-211.5	118.7	83.3	35.46	3.348	
5,200.0	5,175.6	5,208.8	5,192.9	19.0	18.5	-177.83	-112.5	-223.1	118.9	82.7	36.18	3.286	
5,300.0	5,274.6	5,308.8	5,291.9	19.4	18.9	-176.91	-120.2	-234.7	119.1	82.2	36.91	3.227	
5,400.0	5,373.7	5,408.8	5,390.9	19.9	19.3	-175.99	-127.9	-246.3	119.4	81.7	37.64	3.172	
5,500.0	5,472.7	5,508.8	5,489.9	20.3	19.7	-175.08	-135.6	-257.8	119.6	81.3	38.37	3.119	
5,600.0	5,571.7	5,608.7	5,588.9	20.7	20.1	-174.17	-143.3	-269.4	120.0	80.9	39.10	3.068	
5,700.0	5,670.7	5,708.7	5,687.9	21.1	20.5	-173.27	-151.0	-281.0	120.3	80.5	39.83	3.020	
5,800.0	5,769.8	5,808.7	5,787.0	21.5	20.9	-172.37	-158.7	-292.6	120.7	80.1	40.57	2.974	
5,900.0	5,868.8	5,908.7	5,886.0	21.9	21.3	-171.48	-166.4	-304.2	121.1	79.8	41.31	2.931	
6,000.0	5,967.8	6,008.7	5,985.0	22.3	21.7	-170.59	-174.1	-315.8	121.5	79.4	42.06	2.889	
6,100.0	6,066.8	6,108.6	6,084.0	22.7	22.1	-169.72	-181.8	-327.3	122.0	79.2	42.80	2.849	
6,200.0	6,165.9	6,208.6	6,183.0	23.1	22.5	-168.84	-189.6	-338.9	122.4	78.9	43.55	2.811	
6,300.0	6,264.9	6,308.6	6,282.0	23.6	22.9	-167.98	-197.3	-350.5	123.0	78.7	44.31	2.775	
6,400.0	6,363.9	6,408.6	6,381.0	24.0	23.3	-167.12	-205.0	-362.1	123.5	78.4	45.06	2.741	
6,500.0	6,463.0	6,508.6	6,480.0	24.4	23.7	-166.27	-212.7	-373.7	124.1	78.3	45.82	2.708	
6,600.0	6,562.0	6,608.6	6,579.0	24.8	24.1	-165.43	-220.4	-385.3	124.7	78.1	46.58	2.676	
6,700.0	6,661.0	6,708.5	6,678.0	25.2	24.5	-164.59	-228.1	-396.8	125.3	77.9	47.34	2.646	
6,800.0	6,760.0	6,808.5	6,777.0	25.6	24.9	-163.77	-235.8	-408.4	125.9	77.8	48.11	2.618	
6,900.0	6,859.1	6,908.5	6,876.0	26.0	25.3	-162.95	-243.5	-420.0	126.6	77.7	48.88	2.590	
7,000.0	6,958.1	7,008.5	6,975.1	26.5	25.7	-162.14	-251.2	-431.6	127.3	77.7	49.65	2.564	
7,100.0	7,057.1	7,108.5	7,074.1	26.9	26.1	-161.34	-258.9	-443.2	128.0	77.6	50.43	2.539	
7,200.0	7,156.1	7,208.4	7,173.1	27.3	26.5	-160.55	-266.6	-454.8	128.8	77.6	51.21	2.515	
7,300.0	7,255.2	7,308.4	7,272.1	27.7	26.9	-159.77	-274.4	-466.4	129.6	77.6	51.99	2.492	
7,400.0	7,354.2	7,408.4	7,371.1	28.1	27.3	-159.00	-282.1	-477.9	130.4	77.6	52.77	2.470	
7,500.0	7,453.2	7,508.4	7,470.1	28.5	27.7	-158.24	-289.8	-489.5	131.2	77.6	53.56	2.449	
7,600.0	7,552.2	7,608.4	7,569.1	29.0	28.1	-157.49	-297.5	-501.1	132.0	77.7	54.35	2.429	
7,700.0	7,651.3	7,708.4	7,668.1	29.4	28.5	-156.74	-305.2	-512.7	132.9	77.8	55.14	2.410	
7,800.0	7,750.3	7,808.3	7,767.1	29.8	29.0	-156.01	-312.9	-524.3	133.8	77.9	55.94	2.392	
7,900.0	7,849.3	7,908.3	7,866.1	30.2	29.4	-155.29	-320.6	-535.9	134.7	78.0	56.73	2.374	
8,000.0	7,948.4	8,008.3	7,965.1	30.6	29.8	-154.58	-328.3	-547.4	135.6	78.1	57.53	2.358	
8,047.5	7,995.4	8,055.8	8,012.2	30.8	30.0	-154.24	-332.0	-552.9	136.1	78.2	57.92	2.350	
8,100.0	8,047.4	8,108.3	8,064.1	31.0	30.2	-153.81	-336.0	-559.0	136.3	77.9	58.34	2.336	
8,200.0	8,146.8	8,208.2	8,163.1	31.4	30.6	-152.59	-343.7	-570.6	134.9	75.7	59.17	2.279	
8,300.0	8,246.4	8,308.1	8,262.0	31.8	31.0	-150.78	-351.4	-582.2	131.2	71.2	60.04	2.186	
8,400.0	8,346.2	8,407.7	8,360.7	32.2	31.4	-148.24	-359.1	-593.7	125.5	64.5	60.95	2.059	
8,500.0	8,446.2	8,507.2	8,459.2	32.5	31.8	-144.73	-366.8	-605.2	117.9	55.9	61.93	1.903	
8,580.8	8,527.0	8,587.3	8,538.6	32.8	32.2	103.34	-373.0	-614.5	110.6	47.8	62.79	1.761	
8,600.0	8,546.2	8,606.3	8,557.3	32.9	32.2	104.36	-374.4	-616.7	108.7	45.7	63.00	1.726	
8,700.0	8,646.2	8,705.3	8,655.4	33.2	32.7	110.27	-382.1	-628.2	99.9	35.8	64.15	1.558	
8,800.0	8,746.2	8,804.4	8,753.5	33.5	33.1	117.21	-389.7	-639.7	92.3	27.0	65.35	1.413	Level 3
8,900.0	8,846.2	8,903.4	8,851.5	33.8	33.5	125.23	-397.3	-651.1	86.4	19.8	66.56	1.298	Level 3
9,000.0	8,946.2	9,002.4	8,949.6	34.1	33.9	134.22	-405.0	-662.6	82.3	14.6	67.71	1.216	Level 2
9,100.0	9,046.2	9,101.4	9,047.7	34.5	34.3	143.35	-412.2	-673.5	80.6	11.9	68.67	1.173	Level 2
9,136.8	9,083.0	9,137.9	9,084.0	34.6	34.4	146.35	-414.6	-677.0	80.5	11.5	68.97	1.167	Level 2
9,200.0	9,146.2	9,200.8	9,146.6	34.8	34.7	150.94	-418.1	-682.4	80.7	11.3	69.43	1.163	Level 2
9,300.0	9,246.2	9,300.8	9,246.2	35.1	35.1	156.62	-422.6	-689.2	81.8	11.7	70.06	1.167	Level 2
9,400.0	9,346.2	9,401.1	9,346.3	35.4	35.4	160.39	-425.7	-693.8	82.9	12.3	70.66	1.174	Level 2
9,500.0	9,446.2	9,501.6	9,446.8	35.7	35.8	162.32	-427.3	-696.2	83.7	12.4	71.27	1.174	Level 2
9,600.0	9,546.2	9,602.0	9,547.2	36.1	36.1	162.63	-427.6	-696.6	83.8	11.9	71.91	1.166	Level 2

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #217H - Wellbore #1 - BLM Plan #1 — **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
9,700.0	9,646.2	9,702.0	9,647.2	36.4	36.4	162.63	-427.6	-696.6	83.8	11.3	72.56	1.155	Level 2
9,800.0	9,746.2	9,802.0	9,747.2	36.7	36.7	162.63	-427.6	-696.6	83.8	10.6	73.20	1.145	Level 2
9,900.0	9,846.2	9,902.0	9,847.2	37.0	37.1	162.63	-427.6	-696.6	83.8	10.0	73.85	1.135	Level 2
10,000.0	9,946.2	10,002.0	9,947.2	37.3	37.4	162.63	-427.6	-696.6	83.8	9.3	74.50	1.125	Level 2
10,080.8	10,027.0	10,082.8	10,028.0	37.6	37.6	162.63	-427.6	-696.6	83.8	8.8	75.03	1.117	Level 2, ES, SF
10,100.0	10,046.2	10,102.0	10,047.2	37.7	37.7	163.25	-427.6	-696.6	84.1	9.0	75.15	1.119	Level 2
10,150.0	10,096.0	10,151.8	10,097.0	37.8	37.9	163.88	-427.6	-696.6	87.8	12.4	75.45	1.164	Level 2
10,200.0	10,145.3	10,201.1	10,146.3	38.0	38.0	165.03	-427.6	-696.6	95.7	20.0	75.71	1.264	Level 3
10,250.0	10,193.7	10,249.5	10,194.7	38.1	38.2	166.45	-427.6	-696.6	107.8	31.8	75.95	1.419	Level 3
10,300.0	10,240.9	10,303.3	10,241.9	38.2	38.4	167.88	-427.6	-696.6	124.0	47.9	76.19	1.628	
10,350.0	10,286.4	10,342.2	10,287.4	38.3	38.5	169.19	-427.6	-696.6	144.4	68.0	76.37	1.890	
10,400.0	10,329.9	10,385.7	10,330.9	38.4	38.6	170.29	-427.6	-696.6	168.6	92.1	76.56	2.202	
10,450.0	10,371.1	10,427.0	10,372.1	38.5	38.8	171.17	-427.6	-696.6	196.6	119.9	76.74	2.562	
10,500.0	10,409.8	10,465.6	10,410.8	38.6	38.9	171.83	-427.6	-696.6	228.1	151.2	76.91	2.966	
10,550.0	10,445.5	10,501.3	10,446.5	38.6	39.0	172.29	-427.6	-696.6	263.0	185.9	77.07	3.412	
10,600.0	10,478.0	10,533.8	10,479.0	38.7	39.1	172.54	-427.6	-696.6	300.8	223.6	77.20	3.896	
10,650.0	10,507.1	10,562.9	10,508.1	38.7	39.2	172.57	-427.6	-696.6	341.3	264.0	77.32	4.414	
10,700.0	10,532.5	10,588.3	10,533.5	38.7	39.3	172.36	-427.6	-696.6	384.2	306.8	77.42	4.963	
10,750.0	10,554.1	10,609.9	10,555.1	38.7	39.4	171.80	-427.6	-696.6	429.2	351.7	77.51	5.538	
10,800.0	10,571.7	10,627.5	10,572.7	38.7	39.4	170.68	-427.6	-696.6	476.0	398.4	77.57	6.136	
10,850.0	10,585.1	10,640.9	10,586.1	38.7	39.5	168.45	-427.6	-696.6	524.1	446.4	77.61	6.752	
10,900.0	10,594.3	10,650.1	10,595.3	38.7	39.5	163.26	-427.6	-696.6	573.1	495.5	77.64	7.382	
10,950.0	10,599.1	10,654.9	10,600.1	38.7	39.5	144.11	-427.6	-696.6	622.9	545.2	77.64	8.022	
10,980.8	10,600.0	10,655.8	10,601.0	38.7	39.5	90.01	-427.6	-696.6	653.7	576.0	77.64	8.419	
11,000.0	10,600.0	10,655.8	10,601.0	38.7	39.5	90.01	-427.6	-696.6	672.8	595.2	77.64	8.666	
11,100.0	10,600.0	10,655.8	10,601.0	38.9	39.5	90.01	-427.6	-696.6	772.7	695.1	77.63	9.955	
11,200.0	10,600.0	10,655.8	10,601.0	39.1	39.5	90.01	-427.6	-696.6	872.7	795.1	77.62	11.244	
11,300.0	10,600.0	10,655.8	10,601.0	39.5	39.5	90.01	-427.6	-696.6	972.7	895.1	77.61	12.532	
11,400.0	10,600.0	12,462.5	11,580.0	40.0	43.2	-178.99	644.3	-748.7	979.2	945.3	33.87	28.908	
11,500.0	10,600.0	12,562.5	11,580.0	40.5	43.7	-179.00	744.3	-749.5	979.1	944.5	34.64	28.270	
11,600.0	10,600.0	12,662.5	11,580.0	41.1	44.3	-179.01	844.3	-750.3	979.1	943.7	35.45	27.617	
11,700.0	10,600.0	12,762.5	11,580.0	41.8	44.9	-179.02	944.3	-751.1	979.1	942.8	36.32	26.957	
11,800.0	10,600.0	12,862.5	11,580.0	42.5	45.6	-179.03	1,044.3	-751.9	979.1	941.9	37.24	26.295	
11,900.0	10,600.0	12,962.5	11,580.0	43.3	46.3	-179.04	1,144.3	-752.7	979.1	940.9	38.19	25.636	
12,000.0	10,600.0	13,062.5	11,580.0	44.1	47.1	-179.06	1,244.3	-753.5	979.1	939.9	39.19	24.984	
12,100.0	10,600.0	13,162.5	11,580.0	44.9	47.9	-179.07	1,344.3	-754.3	979.1	938.9	40.22	24.342	
12,200.0	10,600.0	13,262.5	11,580.0	45.8	48.8	-179.08	1,444.3	-755.1	979.1	937.8	41.29	23.713	
12,300.0	10,600.0	13,362.5	11,580.0	46.8	49.6	-179.09	1,544.3	-755.9	979.1	936.7	42.39	23.098	
12,400.0	10,600.0	13,462.5	11,580.0	47.8	50.6	-179.10	1,644.3	-756.7	979.1	935.6	43.52	22.499	
12,500.0	10,600.0	13,562.5	11,580.0	48.8	51.5	-179.11	1,744.3	-757.6	979.1	934.4	44.67	21.917	
12,600.0	10,600.0	13,662.5	11,580.0	49.8	52.5	-179.12	1,844.3	-758.4	979.1	933.3	45.85	21.354	
12,700.0	10,600.0	13,762.5	11,580.0	50.9	53.6	-179.13	1,944.3	-759.2	979.1	932.1	47.05	20.808	
12,800.0	10,600.0	13,862.5	11,580.0	52.0	54.6	-179.14	2,044.3	-760.0	979.1	930.8	48.28	20.281	
12,900.0	10,600.0	13,962.5	11,580.0	53.1	55.7	-179.15	2,144.3	-760.8	979.1	929.6	49.52	19.772	
13,000.0	10,600.0	14,062.5	11,580.0	54.3	56.8	-179.16	2,244.3	-761.6	979.1	928.3	50.78	19.280	
13,100.0	10,600.0	14,162.5	11,580.0	55.5	58.0	-179.17	2,344.3	-762.4	979.1	927.0	52.06	18.807	
13,200.0	10,600.0	14,262.5	11,580.0	56.7	59.2	-179.18	2,444.3	-763.2	979.1	925.7	53.35	18.351	
13,300.0	10,600.0	14,362.5	11,580.0	57.9	60.3	-179.20	2,544.3	-764.0	979.1	924.4	54.66	17.912	
13,400.0	10,600.0	14,462.5	11,580.0	59.2	61.6	-179.21	2,644.3	-764.8	979.1	923.1	55.98	17.489	
13,500.0	10,600.0	14,562.5	11,580.0	60.5	62.8	-179.22	2,744.3	-765.6	979.1	921.8	57.32	17.082	
13,600.0	10,600.0	14,662.5	11,580.0	61.8	64.0	-179.23	2,844.3	-766.4	979.1	920.4	58.66	16.690	
13,700.0	10,600.0	14,762.5	11,580.0	63.1	65.3	-179.24	2,944.3	-767.2	979.1	919.1	60.02	16.312	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #217H - Wellbore #1 - BLM Plan #1

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	10,600.0	14,862.5	11,580.0	64.4	66.6	-179.25	3,044.3	-768.0	979.1	917.7	61.39	15.949	
13,900.0	10,600.0	14,962.5	11,580.0	65.7	67.9	-179.26	3,144.3	-768.9	979.1	916.3	62.76	15.599	
14,000.0	10,600.0	15,062.5	11,580.0	67.1	69.2	-179.27	3,244.3	-769.7	979.1	914.9	64.15	15.262	
14,100.0	10,600.0	15,162.5	11,580.0	68.4	70.5	-179.28	3,344.3	-770.5	979.1	913.5	65.54	14.938	
14,200.0	10,600.0	15,262.5	11,580.0	69.8	71.9	-179.29	3,444.2	-771.3	979.1	912.1	66.95	14.625	
14,300.0	10,600.0	15,362.5	11,580.0	71.2	73.2	-179.30	3,544.2	-772.1	979.1	910.7	68.35	14.323	
14,400.0	10,600.0	15,462.5	11,580.0	72.6	74.6	-179.31	3,644.2	-772.9	979.1	909.3	69.77	14.033	
14,500.0	10,600.0	15,562.5	11,580.0	74.0	76.0	-179.32	3,744.2	-773.7	979.1	907.9	71.19	13.752	
14,600.0	10,600.0	15,662.5	11,580.0	75.5	77.4	-179.34	3,844.2	-774.5	979.1	906.4	72.62	13.482	
14,700.0	10,600.0	15,762.5	11,580.0	76.9	78.8	-179.35	3,944.2	-775.3	979.1	905.0	74.06	13.221	
14,800.0	10,600.0	15,862.5	11,580.0	78.3	80.2	-179.36	4,044.2	-776.1	979.1	903.6	75.50	12.968	
14,900.0	10,600.0	15,962.5	11,580.0	79.8	81.6	-179.37	4,144.2	-776.9	979.1	902.1	76.94	12.725	
15,000.0	10,600.0	16,062.5	11,580.0	81.2	83.0	-179.38	4,244.2	-777.7	979.1	900.7	78.39	12.490	
15,100.0	10,600.0	16,162.5	11,580.0	82.7	84.5	-179.39	4,344.2	-778.5	979.1	899.2	79.84	12.262	
15,200.0	10,600.0	16,262.5	11,580.0	84.2	85.9	-179.40	4,444.2	-779.3	979.1	897.8	81.30	12.042	
15,300.0	10,600.0	16,362.5	11,580.0	85.6	87.4	-179.41	4,544.2	-780.1	979.1	896.3	82.77	11.829	
15,400.0	10,600.0	16,462.5	11,580.0	87.1	88.8	-179.42	4,644.2	-781.0	979.0	894.8	84.23	11.623	
15,500.0	10,600.0	16,562.5	11,580.0	88.6	90.3	-179.43	4,744.2	-781.8	979.0	893.3	85.70	11.424	
15,600.0	10,600.0	16,662.5	11,580.0	90.1	91.8	-179.44	4,844.2	-782.6	979.0	891.9	87.18	11.231	
15,700.0	10,600.0	16,762.5	11,580.0	91.6	93.2	-179.45	4,944.2	-783.4	979.0	890.4	88.65	11.043	
15,800.0	10,600.0	16,862.5	11,580.0	93.1	94.7	-179.46	5,044.2	-784.2	979.0	888.9	90.13	10.862	
15,900.0	10,600.0	16,962.5	11,580.0	94.6	96.2	-179.48	5,144.2	-785.0	979.0	887.4	91.62	10.686	
16,000.0	10,600.0	17,062.5	11,580.0	96.2	97.7	-179.49	5,244.2	-785.8	979.0	885.9	93.10	10.516	
16,100.0	10,600.0	17,162.5	11,580.0	97.7	99.2	-179.50	5,344.2	-786.6	979.0	884.4	94.59	10.350	
16,200.0	10,600.0	17,262.5	11,580.0	99.2	100.7	-179.51	5,444.2	-787.4	979.0	883.0	96.08	10.189	
16,300.0	10,600.0	17,362.5	11,580.0	100.7	102.2	-179.52	5,544.2	-788.2	979.0	881.5	97.58	10.033	
16,400.0	10,600.0	17,462.5	11,580.0	102.3	103.7	-179.53	5,644.2	-789.0	979.0	880.0	99.08	9.882	
16,500.0	10,600.0	17,562.5	11,580.0	103.8	105.3	-179.54	5,744.2	-789.8	979.0	878.5	100.57	9.734	
16,600.0	10,600.0	17,662.5	11,580.0	105.3	106.8	-179.55	5,844.2	-790.6	979.0	877.0	102.07	9.591	
16,700.0	10,600.0	17,762.5	11,580.0	106.9	108.3	-179.56	5,944.2	-791.4	979.0	875.5	103.58	9.452	
16,800.0	10,600.0	17,862.5	11,580.0	108.4	109.8	-179.57	6,044.2	-792.3	979.0	873.9	105.08	9.317	
16,900.0	10,600.0	17,962.5	11,580.0	110.0	111.4	-179.58	6,144.2	-793.1	979.0	872.4	106.59	9.185	
17,000.0	10,600.0	18,062.5	11,580.0	111.5	112.9	-179.59	6,244.2	-793.9	979.0	870.9	108.10	9.057	
17,100.0	10,600.0	18,162.5	11,580.0	113.1	114.4	-179.60	6,344.1	-794.7	979.0	869.4	109.61	8.932	
17,200.0	10,600.0	18,262.5	11,580.0	114.7	116.0	-179.62	6,444.1	-795.5	979.0	867.9	111.12	8.810	
17,300.0	10,600.0	18,362.5	11,580.0	116.2	117.5	-179.63	6,544.1	-796.3	979.0	866.4	112.63	8.692	
17,400.0	10,600.0	18,462.5	11,580.0	117.8	119.1	-179.64	6,644.1	-797.1	979.0	864.9	114.15	8.577	
17,500.0	10,600.0	18,562.5	11,580.0	119.3	120.6	-179.65	6,744.1	-797.9	979.0	863.4	115.67	8.464	
17,600.0	10,600.0	18,662.5	11,580.0	120.9	122.2	-179.66	6,844.1	-798.7	979.0	861.8	117.19	8.354	
17,700.0	10,600.0	18,762.5	11,580.0	122.5	123.8	-179.67	6,944.1	-799.5	979.0	860.3	118.70	8.247	
17,800.0	10,600.0	18,862.5	11,580.0	124.1	125.3	-179.68	7,044.1	-800.3	979.0	858.8	120.23	8.143	
17,900.0	10,600.0	18,962.5	11,580.0	125.6	126.9	-179.69	7,144.1	-801.1	979.0	857.3	121.75	8.041	
18,000.0	10,600.0	19,062.5	11,580.0	127.2	128.4	-179.70	7,244.1	-801.9	979.0	855.7	123.27	7.942	
18,100.0	10,600.0	19,162.5	11,580.0	128.8	130.0	-179.71	7,344.1	-802.7	979.0	854.2	124.80	7.845	
18,200.0	10,600.0	19,262.5	11,580.0	130.4	131.6	-179.72	7,444.1	-803.6	979.0	852.7	126.32	7.750	
18,300.0	10,600.0	19,362.5	11,580.0	132.0	133.1	-179.73	7,544.1	-804.4	979.0	851.2	127.85	7.658	
18,400.0	10,600.0	19,462.5	11,580.0	133.5	134.7	-179.74	7,644.1	-805.2	979.0	849.6	129.38	7.567	
18,500.0	10,600.0	19,562.5	11,580.0	135.1	136.3	-179.76	7,744.1	-806.0	979.0	848.1	130.91	7.479	
18,600.0	10,600.0	19,662.5	11,580.0	136.7	137.9	-179.77	7,844.1	-806.8	979.0	846.6	132.44	7.392	
18,700.0	10,600.0	19,762.5	11,580.0	138.3	139.5	-179.78	7,944.1	-807.6	979.0	845.0	133.97	7.308	
18,800.0	10,600.0	19,862.5	11,580.0	139.9	141.0	-179.79	8,044.1	-808.4	979.0	843.5	135.50	7.225	
18,900.0	10,600.0	19,962.5	11,580.0	141.5	142.6	-179.80	8,144.1	-809.2	979.0	842.0	137.03	7.144	

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 Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #217H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

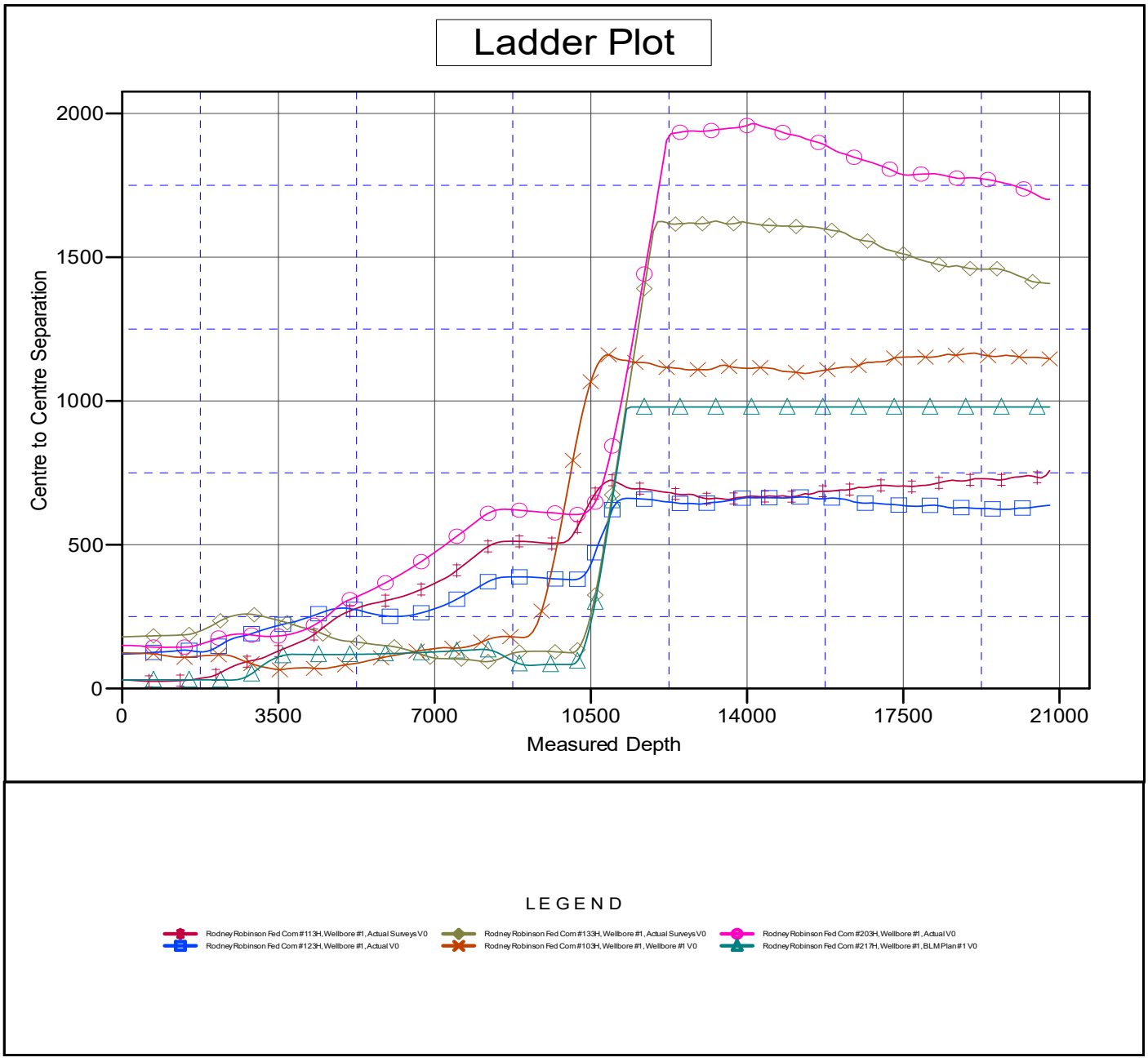
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.0	10,600.0	20,062.5	11,580.0	143.1	144.2	-179.81	8,244.1	-810.0	979.0	840.4	138.57	7.065	
19,100.0	10,600.0	20,162.5	11,580.0	144.7	145.8	-179.82	8,344.1	-810.8	979.0	838.9	140.10	6.988	
19,200.0	10,600.0	20,262.5	11,580.0	146.3	147.4	-179.83	8,444.1	-811.6	979.0	837.4	141.64	6.912	
19,300.0	10,600.0	20,362.5	11,580.0	147.9	149.0	-179.84	8,544.1	-812.4	979.0	835.8	143.17	6.838	
19,400.0	10,600.0	20,462.5	11,580.0	149.5	150.6	-179.85	8,644.1	-813.2	979.0	834.3	144.71	6.765	
19,500.0	10,600.0	20,562.5	11,580.0	151.1	152.1	-179.86	8,744.1	-814.0	979.0	832.8	146.25	6.694	
19,600.0	10,600.0	20,662.5	11,580.0	152.7	153.7	-179.87	8,844.1	-814.8	979.0	831.2	147.78	6.625	
19,700.0	10,600.0	20,762.5	11,580.0	154.3	155.3	-179.88	8,944.1	-815.7	979.0	829.7	149.32	6.556	
19,800.0	10,600.0	20,862.5	11,580.0	155.9	156.9	-179.90	9,044.1	-816.5	979.0	828.1	150.86	6.489	
19,900.0	10,600.0	20,962.5	11,580.0	157.5	158.5	-179.91	9,144.1	-817.3	979.0	826.6	152.40	6.424	
20,000.0	10,600.0	21,062.5	11,580.0	159.1	160.1	-179.92	9,244.0	-818.1	979.0	825.1	153.94	6.359	
20,100.0	10,600.0	21,162.5	11,580.0	160.7	161.7	-179.93	9,344.0	-818.9	979.0	823.5	155.49	6.296	
20,200.0	10,600.0	21,262.5	11,580.0	162.3	163.3	-179.94	9,444.0	-819.7	979.0	822.0	157.03	6.235	
20,300.0	10,600.0	21,362.5	11,580.0	163.9	164.9	-179.95	9,544.0	-820.5	979.0	820.4	158.57	6.174	
20,400.0	10,600.0	21,462.5	11,580.0	165.6	166.5	-179.96	9,644.0	-821.3	979.0	818.9	160.11	6.114	
20,500.0	10,600.0	21,562.5	11,580.0	167.2	168.1	-179.97	9,744.0	-822.1	979.0	817.3	161.66	6.056	
20,600.0	10,600.0	21,662.5	11,580.0	168.8	169.7	-179.98	9,844.0	-822.9	979.0	815.8	163.20	5.999	
20,700.0	10,600.0	21,762.5	11,580.0	170.4	171.3	-179.99	9,944.0	-823.7	979.0	814.3	164.75	5.942	
20,768.3	10,600.0	21,830.8	11,580.0	171.5	172.4	-180.00	10,012.3	-824.3	979.0	813.2	165.80	5.905	
20,780.8	10,600.0	21,843.3	11,580.0	171.7	172.6	180.00	10,024.8	-824.4	979.0	813.0	166.00	5.898	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3745.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #023H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°



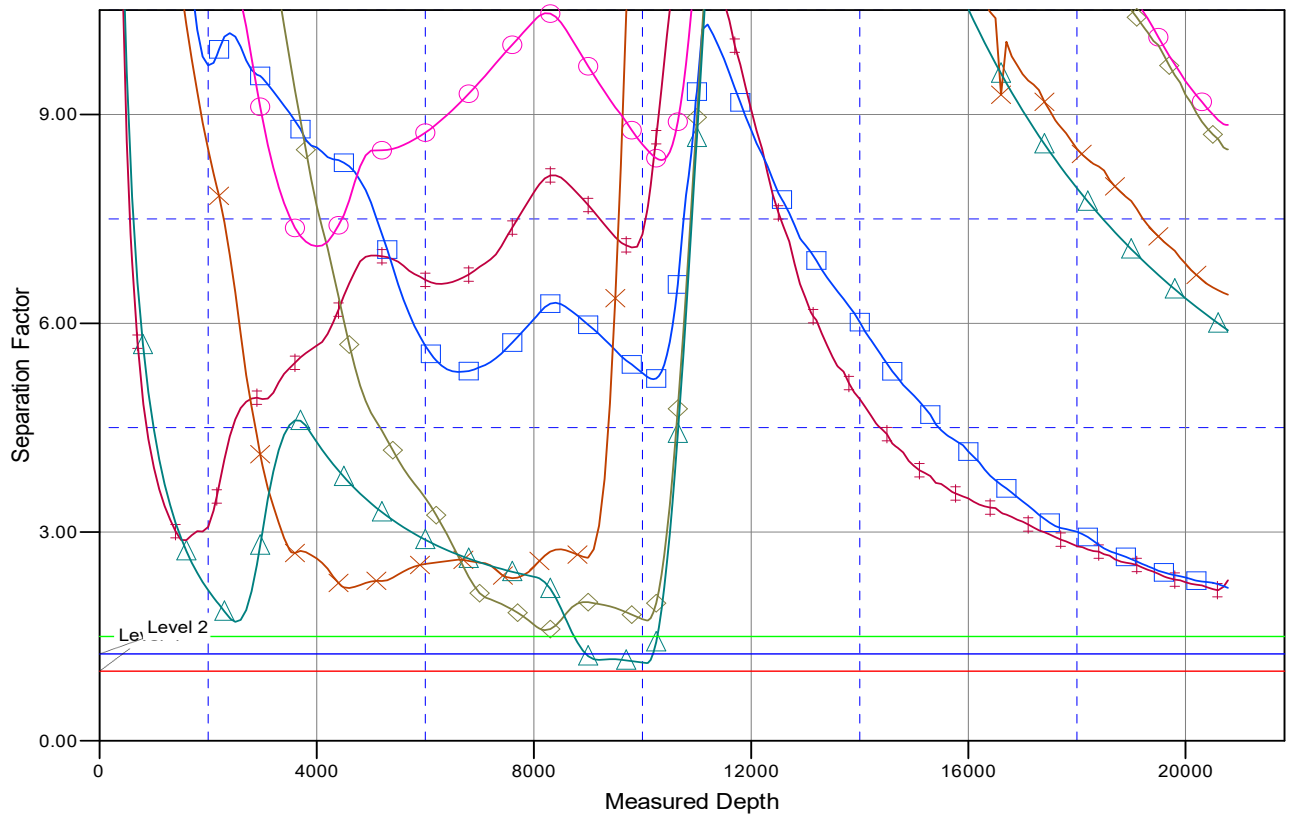
Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3745.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3745.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #023H	**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 Single User Db
Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB @ 3745.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #023H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°

Separation Factor Plot



LEGEND

Rodney Robinson Fed Com #113H, Wellbore #1, Actual Surveys V0
Rodney Robinson Fed Com #123H, Wellbore #1, Actual V0
Rodney Robinson Fed Com #133H, Wellbore #1, Actual Surveys V0
Rodney Robinson Fed Com #103H, Wellbore #1, Wellbore #1 V0
Rodney Robinson Fed Com #203H, Wellbore #1, Actual V0
Rodney Robinson Fed Com #217H, Wellbore #1, BLM Plan #1 V0

Matador Production Company

Antelope Ridge
Rodney Robinson
Rodney Robinson Fed Com #023H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

29 March, 2022

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project Antelope Ridge

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 Rodney Robinson

Site Position:		**Northing:**	478,347.00 usft	**Latitude:**	32° 18' 46.826 N
From:	Map	**Easting:**	724,121.00 usft	**Longitude:**	103° 36' 28.379 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.39 °

Well Rodney Robinson Fed Com #023H

Well Position	**+N/-S**	72.5 usft	**Northing:**	478,419.54 usft	**Latitude:**	32° 18' 47.537 N
	+E/-W	95.5 usft	**Easting:**	724,216.50 usft	**Longitude:**	103° 36' 27.261 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,717.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/29/2022	6.46	60.07	47,493.25780464

Design BLM Plan #1

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	359.43

Plan Survey Tool Program **Date** 3/29/2022

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,780.8	BLM Plan #1 (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	
2,160.2	0.00	0.00	2,160.2	0.0	0.0	0.00	0.00	0.00	0.00	
2,960.2	8.00	244.28	2,957.6	-24.2	-50.2	1.00	1.00	0.00	244.28	
8,047.5	8.00	244.28	7,995.4	-331.5	-688.1	0.00	0.00	0.00	0.00	
8,580.8	0.00	0.00	8,527.0	-347.6	-721.6	1.50	-1.50	0.00	180.00	
10,080.8	0.00	0.00	10,027.0	-347.6	-721.6	0.00	0.00	0.00	0.00	VP - Rodney Robinso
10,980.8	90.00	359.43	10,600.0	225.3	-727.3	10.00	10.00	-0.06	359.43	
20,780.8	90.00	359.43	10,600.0	10,024.8	-824.4	0.00	0.00	0.00	0.00	BHL - Rodney Robins

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	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
739.3	0.00	0.00	739.3	0.0	0.0	0.0	0.00	0.00	0.00
Z (Dewey Lake (P))									
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
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,261.6	0.00	0.00	1,261.6	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,775.2	0.00	0.00	1,775.2	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado)									
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,160.2	0.00	0.00	2,160.2	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
2,200.0	0.40	244.28	2,200.0	-0.1	-0.1	-0.1	1.00	1.00	0.00
2,300.0	1.40	244.28	2,300.0	-0.7	-1.5	-0.7	1.00	1.00	0.00
2,400.0	2.40	244.28	2,399.9	-2.2	-4.5	-2.1	1.00	1.00	0.00
2,500.0	3.40	244.28	2,499.8	-4.4	-9.1	-4.3	1.00	1.00	0.00
2,600.0	4.40	244.28	2,599.6	-7.3	-15.2	-7.2	1.00	1.00	0.00
2,700.0	5.40	244.28	2,699.2	-11.0	-22.9	-10.8	1.00	1.00	0.00
2,800.0	6.40	244.28	2,798.7	-15.5	-32.2	-15.2	1.00	1.00	0.00
2,900.0	7.40	244.28	2,897.9	-20.7	-43.0	-20.3	1.00	1.00	0.00
2,960.2	8.00	244.28	2,957.6	-24.2	-50.2	-23.7	1.00	1.00	0.00
Start 5087.3 hold at 2960.2 MD									
3,000.0	8.00	244.28	2,997.0	-26.6	-55.2	-26.1	0.00	0.00	0.00
3,100.0	8.00	244.28	3,096.0	-32.6	-67.8	-32.0	0.00	0.00	0.00
3,200.0	8.00	244.28	3,195.1	-38.7	-80.3	-37.9	0.00	0.00	0.00
3,300.0	8.00	244.28	3,294.1	-44.7	-92.8	-43.8	0.00	0.00	0.00
3,400.0	8.00	244.28	3,393.1	-50.8	-105.4	-49.7	0.00	0.00	0.00
3,432.1	8.00	244.28	3,424.9	-52.7	-109.4	-51.6	0.00	0.00	0.00
Z (Castile (T))									
3,500.0	8.00	244.28	3,492.1	-56.8	-117.9	-55.6	0.00	0.00	0.00
3,600.0	8.00	244.28	3,591.2	-62.8	-130.5	-61.5	0.00	0.00	0.00
3,700.0	8.00	244.28	3,690.2	-68.9	-143.0	-67.5	0.00	0.00	0.00
3,800.0	8.00	244.28	3,789.2	-74.9	-155.5	-73.4	0.00	0.00	0.00
3,900.0	8.00	244.28	3,888.3	-81.0	-168.1	-79.3	0.00	0.00	0.00
4,000.0	8.00	244.28	3,987.3	-87.0	-180.6	-85.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.0	8.00	244.28	4,086.3	-93.0	-193.2	-91.1	0.00	0.00	0.00
4,200.0	8.00	244.28	4,185.3	-99.1	-205.7	-97.0	0.00	0.00	0.00
4,300.0	8.00	244.28	4,284.4	-105.1	-218.2	-102.9	0.00	0.00	0.00
4,400.0	8.00	244.28	4,383.4	-111.2	-230.8	-108.9	0.00	0.00	0.00
4,500.0	8.00	244.28	4,482.4	-117.2	-243.3	-114.8	0.00	0.00	0.00
4,600.0	8.00	244.28	4,581.4	-123.2	-255.8	-120.7	0.00	0.00	0.00
4,700.0	8.00	244.28	4,680.5	-129.3	-268.4	-126.6	0.00	0.00	0.00
4,800.0	8.00	244.28	4,779.5	-135.3	-280.9	-132.5	0.00	0.00	0.00
4,900.0	8.00	244.28	4,878.5	-141.4	-293.5	-138.4	0.00	0.00	0.00
5,000.0	8.00	244.28	4,977.6	-147.4	-306.0	-144.3	0.00	0.00	0.00
5,020.2	8.00	244.28	4,997.5	-148.6	-308.5	-145.5	0.00	0.00	0.00
Z (G30:CS14-CSB)									
5,058.8	8.00	244.28	5,035.8	-150.9	-313.4	-147.8	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
5,100.0	8.00	244.28	5,076.6	-153.4	-318.5	-150.3	0.00	0.00	0.00
5,200.0	8.00	244.28	5,175.6	-159.5	-331.1	-156.2	0.00	0.00	0.00
5,300.0	8.00	244.28	5,274.6	-165.5	-343.6	-162.1	0.00	0.00	0.00
5,400.0	8.00	244.28	5,373.7	-171.6	-356.2	-168.0	0.00	0.00	0.00
5,500.0	8.00	244.28	5,472.7	-177.6	-368.7	-173.9	0.00	0.00	0.00
5,600.0	8.00	244.28	5,571.7	-183.6	-381.2	-179.8	0.00	0.00	0.00
5,700.0	8.00	244.28	5,670.7	-189.7	-393.8	-185.7	0.00	0.00	0.00
5,800.0	8.00	244.28	5,769.8	-195.7	-406.3	-191.7	0.00	0.00	0.00
5,900.0	8.00	244.28	5,868.8	-201.8	-418.8	-197.6	0.00	0.00	0.00
5,913.7	8.00	244.28	5,882.3	-202.6	-420.6	-198.4	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
6,000.0	8.00	244.28	5,967.8	-207.8	-431.4	-203.5	0.00	0.00	0.00
6,100.0	8.00	244.28	6,066.8	-213.8	-443.9	-209.4	0.00	0.00	0.00
6,200.0	8.00	244.28	6,165.9	-219.9	-456.5	-215.3	0.00	0.00	0.00
6,300.0	8.00	244.28	6,264.9	-225.9	-469.0	-221.2	0.00	0.00	0.00
6,400.0	8.00	244.28	6,363.9	-232.0	-481.5	-227.1	0.00	0.00	0.00
6,500.0	8.00	244.28	6,463.0	-238.0	-494.1	-233.1	0.00	0.00	0.00
6,600.0	8.00	244.28	6,562.0	-244.0	-506.6	-239.0	0.00	0.00	0.00
6,700.0	8.00	244.28	6,661.0	-250.1	-519.2	-244.9	0.00	0.00	0.00
6,800.0	8.00	244.28	6,760.0	-256.1	-531.7	-250.8	0.00	0.00	0.00
6,900.0	8.00	244.28	6,859.1	-262.1	-544.2	-256.7	0.00	0.00	0.00
7,000.0	8.00	244.28	6,958.1	-268.2	-556.8	-262.6	0.00	0.00	0.00
7,100.0	8.00	244.28	7,057.1	-274.2	-569.3	-268.6	0.00	0.00	0.00
7,200.0	8.00	244.28	7,156.1	-280.3	-581.8	-274.5	0.00	0.00	0.00
7,262.9	8.00	244.28	7,218.5	-284.1	-589.7	-278.2	0.00	0.00	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,300.0	8.00	244.28	7,255.2	-286.3	-594.4	-280.4	0.00	0.00	0.00
7,400.0	8.00	244.28	7,354.2	-292.3	-606.9	-286.3	0.00	0.00	0.00
7,500.0	8.00	244.28	7,453.2	-298.4	-619.5	-292.2	0.00	0.00	0.00
7,600.0	8.00	244.28	7,552.2	-304.4	-632.0	-298.1	0.00	0.00	0.00
7,700.0	8.00	244.28	7,651.3	-310.5	-644.5	-304.0	0.00	0.00	0.00
7,800.0	8.00	244.28	7,750.3	-316.5	-657.1	-310.0	0.00	0.00	0.00
7,900.0	8.00	244.28	7,849.3	-322.5	-669.6	-315.9	0.00	0.00	0.00
8,000.0	8.00	244.28	7,948.4	-328.6	-682.2	-321.8	0.00	0.00	0.00
8,047.5	8.00	244.28	7,995.4	-331.5	-688.1	-324.6	0.00	0.00	0.00
Start Drop -1.50									
8,100.0	7.21	244.28	8,047.4	-334.5	-694.4	-327.5	1.50	-1.50	0.00
8,200.0	5.71	244.28	8,146.8	-339.4	-704.5	-332.3	1.50	-1.50	0.00
8,300.0	4.21	244.28	8,246.4	-343.1	-712.3	-336.0	1.50	-1.50	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.0	2.71	244.28	8,346.2	-345.7	-717.7	-338.6	1.50	-1.50	0.00
8,500.0	1.21	244.28	8,446.2	-347.2	-720.8	-340.0	1.50	-1.50	0.00
8,580.8	0.00	0.00	8,527.0	-347.6	-721.6	-340.4	1.50	-1.50	0.00
Start 1500.0 hold at 8580.8 MD									
8,600.0	0.00	0.00	8,546.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,646.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,746.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
8,852.5	0.00	0.00	8,798.6	-347.6	-721.6	-340.4	0.00	0.00	0.00
Z (G4: BSGL (CS9))									
8,900.0	0.00	0.00	8,846.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,946.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,046.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,146.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,246.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,346.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,446.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,546.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,646.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,746.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
9,897.8	0.00	0.00	9,843.9	-347.6	-721.6	-340.4	0.00	0.00	0.00
Z (L5.3: FBSC)									
9,900.0	0.00	0.00	9,846.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,946.2	-347.6	-721.6	-340.4	0.00	0.00	0.00
10,006.8	0.00	0.00	9,953.0	-347.6	-721.6	-340.4	0.00	0.00	0.00
Z (L5.1: FBSG)									
10,080.8	0.00	0.00	10,027.0	-347.6	-721.6	-340.4	0.00	0.00	0.00
Start DLS 10.00 TFO 359.43 - VP - Rodney Robinson Fed Com #023H									
10,100.0	1.92	359.43	10,046.2	-347.3	-721.6	-340.1	10.00	10.00	0.00
10,200.0	11.92	359.43	10,145.3	-335.2	-721.7	-328.0	10.00	10.00	0.00
10,283.5	20.26	359.43	10,225.4	-312.1	-722.0	-304.9	10.00	10.00	0.00
Z (L4.3: SBSC)									
10,300.0	21.92	359.43	10,240.9	-306.2	-722.0	-299.0	10.00	10.00	0.00
10,400.0	31.92	359.43	10,329.9	-261.0	-722.5	-253.8	10.00	10.00	0.00
10,500.0	41.92	359.43	10,409.8	-201.0	-723.1	-193.8	10.00	10.00	0.00
10,600.0	51.92	359.43	10,478.0	-128.0	-723.8	-120.8	10.00	10.00	0.00
10,700.0	61.92	359.43	10,532.5	-44.4	-724.6	-37.2	10.00	10.00	0.00
10,800.0	71.92	359.43	10,571.7	47.5	-725.5	54.7	10.00	10.00	0.00
10,900.0	81.92	359.43	10,594.3	144.8	-726.5	152.0	10.00	10.00	0.00
10,980.8	90.00	359.43	10,600.0	225.3	-727.3	232.6	10.00	10.00	0.00
Start 9800.0 hold at 10980.8 MD									
11,000.0	90.00	359.43	10,600.0	244.5	-727.5	251.7	0.00	0.00	0.00
11,100.0	90.00	359.43	10,600.0	344.5	-728.5	351.7	0.00	0.00	0.00
11,200.0	90.00	359.43	10,600.0	444.5	-729.5	451.7	0.00	0.00	0.00
11,300.0	90.00	359.43	10,600.0	544.5	-730.4	551.7	0.00	0.00	0.00
11,400.0	90.00	359.43	10,600.0	644.5	-731.4	651.7	0.00	0.00	0.00
11,500.0	90.00	359.43	10,600.0	744.5	-732.4	751.7	0.00	0.00	0.00
11,600.0	90.00	359.43	10,600.0	844.5	-733.4	851.7	0.00	0.00	0.00
11,700.0	90.00	359.43	10,600.0	944.5	-734.4	951.7	0.00	0.00	0.00
11,800.0	90.00	359.43	10,600.0	1,044.5	-735.4	1,051.7	0.00	0.00	0.00
11,900.0	90.00	359.43	10,600.0	1,144.5	-736.4	1,151.7	0.00	0.00	0.00
12,000.0	90.00	359.43	10,600.0	1,244.5	-737.4	1,251.7	0.00	0.00	0.00
12,100.0	90.00	359.43	10,600.0	1,344.5	-738.4	1,351.7	0.00	0.00	0.00
12,200.0	90.00	359.43	10,600.0	1,444.4	-739.4	1,451.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	90.00	359.43	10,600.0	1,544.4	-740.4	1,551.7	0.00	0.00	0.00
12,400.0	90.00	359.43	10,600.0	1,644.4	-741.3	1,651.7	0.00	0.00	0.00
12,500.0	90.00	359.43	10,600.0	1,744.4	-742.3	1,751.7	0.00	0.00	0.00
12,600.0	90.00	359.43	10,600.0	1,844.4	-743.3	1,851.7	0.00	0.00	0.00
12,700.0	90.00	359.43	10,600.0	1,944.4	-744.3	1,951.7	0.00	0.00	0.00
12,800.0	90.00	359.43	10,600.0	2,044.4	-745.3	2,051.7	0.00	0.00	0.00
12,900.0	90.00	359.43	10,600.0	2,144.4	-746.3	2,151.7	0.00	0.00	0.00
13,000.0	90.00	359.43	10,600.0	2,244.4	-747.3	2,251.7	0.00	0.00	0.00
13,100.0	90.00	359.43	10,600.0	2,344.4	-748.3	2,351.7	0.00	0.00	0.00
13,200.0	90.00	359.43	10,600.0	2,444.4	-749.3	2,451.7	0.00	0.00	0.00
13,300.0	90.00	359.43	10,600.0	2,544.4	-750.3	2,551.7	0.00	0.00	0.00
13,400.0	90.00	359.43	10,600.0	2,644.4	-751.3	2,651.7	0.00	0.00	0.00
13,500.0	90.00	359.43	10,600.0	2,744.4	-752.2	2,751.7	0.00	0.00	0.00
13,600.0	90.00	359.43	10,600.0	2,844.4	-753.2	2,851.7	0.00	0.00	0.00
13,700.0	90.00	359.43	10,600.0	2,944.4	-754.2	2,951.7	0.00	0.00	0.00
13,800.0	90.00	359.43	10,600.0	3,044.4	-755.2	3,051.7	0.00	0.00	0.00
13,900.0	90.00	359.43	10,600.0	3,144.4	-756.2	3,151.7	0.00	0.00	0.00
14,000.0	90.00	359.43	10,600.0	3,244.4	-757.2	3,251.7	0.00	0.00	0.00
14,100.0	90.00	359.43	10,600.0	3,344.4	-758.2	3,351.7	0.00	0.00	0.00
14,200.0	90.00	359.43	10,600.0	3,444.3	-759.2	3,451.7	0.00	0.00	0.00
14,300.0	90.00	359.43	10,600.0	3,544.3	-760.2	3,551.7	0.00	0.00	0.00
14,400.0	90.00	359.43	10,600.0	3,644.3	-761.2	3,651.7	0.00	0.00	0.00
14,500.0	90.00	359.43	10,600.0	3,744.3	-762.2	3,751.7	0.00	0.00	0.00
14,600.0	90.00	359.43	10,600.0	3,844.3	-763.1	3,851.7	0.00	0.00	0.00
14,700.0	90.00	359.43	10,600.0	3,944.3	-764.1	3,951.7	0.00	0.00	0.00
14,800.0	90.00	359.43	10,600.0	4,044.3	-765.1	4,051.7	0.00	0.00	0.00
14,900.0	90.00	359.43	10,600.0	4,144.3	-766.1	4,151.7	0.00	0.00	0.00
15,000.0	90.00	359.43	10,600.0	4,244.3	-767.1	4,251.7	0.00	0.00	0.00
15,100.0	90.00	359.43	10,600.0	4,344.3	-768.1	4,351.7	0.00	0.00	0.00
15,200.0	90.00	359.43	10,600.0	4,444.3	-769.1	4,451.7	0.00	0.00	0.00
15,300.0	90.00	359.43	10,600.0	4,544.3	-770.1	4,551.7	0.00	0.00	0.00
15,400.0	90.00	359.43	10,600.0	4,644.3	-771.1	4,651.7	0.00	0.00	0.00
15,500.0	90.00	359.43	10,600.0	4,744.3	-772.1	4,751.7	0.00	0.00	0.00
15,600.0	90.00	359.43	10,600.0	4,844.3	-773.1	4,851.7	0.00	0.00	0.00
15,700.0	90.00	359.43	10,600.0	4,944.3	-774.0	4,951.7	0.00	0.00	0.00
15,800.0	90.00	359.43	10,600.0	5,044.3	-775.0	5,051.7	0.00	0.00	0.00
15,900.0	90.00	359.43	10,600.0	5,144.3	-776.0	5,151.7	0.00	0.00	0.00
16,000.0	90.00	359.43	10,600.0	5,244.3	-777.0	5,251.7	0.00	0.00	0.00
16,100.0	90.00	359.43	10,600.0	5,344.3	-778.0	5,351.7	0.00	0.00	0.00
16,200.0	90.00	359.43	10,600.0	5,444.3	-779.0	5,451.7	0.00	0.00	0.00
16,300.0	90.00	359.43	10,600.0	5,544.2	-780.0	5,551.7	0.00	0.00	0.00
16,400.0	90.00	359.43	10,600.0	5,644.2	-781.0	5,651.7	0.00	0.00	0.00
16,500.0	90.00	359.43	10,600.0	5,744.2	-782.0	5,751.7	0.00	0.00	0.00
16,600.0	90.00	359.43	10,600.0	5,844.2	-783.0	5,851.7	0.00	0.00	0.00
16,700.0	90.00	359.43	10,600.0	5,944.2	-784.0	5,951.7	0.00	0.00	0.00
16,800.0	90.00	359.43	10,600.0	6,044.2	-784.9	6,051.7	0.00	0.00	0.00
16,900.0	90.00	359.43	10,600.0	6,144.2	-785.9	6,151.7	0.00	0.00	0.00
17,000.0	90.00	359.43	10,600.0	6,244.2	-786.9	6,251.7	0.00	0.00	0.00
17,100.0	90.00	359.43	10,600.0	6,344.2	-787.9	6,351.7	0.00	0.00	0.00
17,200.0	90.00	359.43	10,600.0	6,444.2	-788.9	6,451.7	0.00	0.00	0.00
17,300.0	90.00	359.43	10,600.0	6,544.2	-789.9	6,551.7	0.00	0.00	0.00
17,400.0	90.00	359.43	10,600.0	6,644.2	-790.9	6,651.7	0.00	0.00	0.00
17,500.0	90.00	359.43	10,600.0	6,744.2	-791.9	6,751.7	0.00	0.00	0.00
17,600.0	90.00	359.43	10,600.0	6,844.2	-792.9	6,851.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,700.0	90.00	359.43	10,600.0	6,944.2	-793.9	6,951.7	0.00	0.00	0.00
17,800.0	90.00	359.43	10,600.0	7,044.2	-794.9	7,051.7	0.00	0.00	0.00
17,900.0	90.00	359.43	10,600.0	7,144.2	-795.8	7,151.7	0.00	0.00	0.00
18,000.0	90.00	359.43	10,600.0	7,244.2	-796.8	7,251.7	0.00	0.00	0.00
18,100.0	90.00	359.43	10,600.0	7,344.2	-797.8	7,351.7	0.00	0.00	0.00
18,200.0	90.00	359.43	10,600.0	7,444.2	-798.8	7,451.7	0.00	0.00	0.00
18,300.0	90.00	359.43	10,600.0	7,544.1	-799.8	7,551.7	0.00	0.00	0.00
18,400.0	90.00	359.43	10,600.0	7,644.1	-800.8	7,651.7	0.00	0.00	0.00
18,500.0	90.00	359.43	10,600.0	7,744.1	-801.8	7,751.7	0.00	0.00	0.00
18,600.0	90.00	359.43	10,600.0	7,844.1	-802.8	7,851.7	0.00	0.00	0.00
18,700.0	90.00	359.43	10,600.0	7,944.1	-803.8	7,951.7	0.00	0.00	0.00
18,800.0	90.00	359.43	10,600.0	8,044.1	-804.8	8,051.7	0.00	0.00	0.00
18,900.0	90.00	359.43	10,600.0	8,144.1	-805.8	8,151.7	0.00	0.00	0.00
19,000.0	90.00	359.43	10,600.0	8,244.1	-806.8	8,251.7	0.00	0.00	0.00
19,100.0	90.00	359.43	10,600.0	8,344.1	-807.7	8,351.7	0.00	0.00	0.00
19,200.0	90.00	359.43	10,600.0	8,444.1	-808.7	8,451.7	0.00	0.00	0.00
19,300.0	90.00	359.43	10,600.0	8,544.1	-809.7	8,551.7	0.00	0.00	0.00
19,400.0	90.00	359.43	10,600.0	8,644.1	-810.7	8,651.7	0.00	0.00	0.00
19,500.0	90.00	359.43	10,600.0	8,744.1	-811.7	8,751.7	0.00	0.00	0.00
19,600.0	90.00	359.43	10,600.0	8,844.1	-812.7	8,851.7	0.00	0.00	0.00
19,700.0	90.00	359.43	10,600.0	8,944.1	-813.7	8,951.7	0.00	0.00	0.00
19,800.0	90.00	359.43	10,600.0	9,044.1	-814.7	9,051.7	0.00	0.00	0.00
19,900.0	90.00	359.43	10,600.0	9,144.1	-815.7	9,151.7	0.00	0.00	0.00
20,000.0	90.00	359.43	10,600.0	9,244.1	-816.7	9,251.7	0.00	0.00	0.00
20,100.0	90.00	359.43	10,600.0	9,344.1	-817.7	9,351.7	0.00	0.00	0.00
20,200.0	90.00	359.43	10,600.0	9,444.1	-818.6	9,451.7	0.00	0.00	0.00
20,300.0	90.00	359.43	10,600.0	9,544.0	-819.6	9,551.7	0.00	0.00	0.00
20,400.0	90.00	359.43	10,600.0	9,644.0	-820.6	9,651.7	0.00	0.00	0.00
20,500.0	90.00	359.43	10,600.0	9,744.0	-821.6	9,751.7	0.00	0.00	0.00
20,600.0	90.00	359.43	10,600.0	9,844.0	-822.6	9,851.7	0.00	0.00	0.00
20,700.0	90.00	359.43	10,600.0	9,944.0	-823.6	9,951.7	0.00	0.00	0.00
20,780.8	90.00	359.43	10,600.0	10,024.8	-824.4	10,032.5	0.00	0.00	0.00
TD at 20780.8 - BHL - Rodney Robinson Fed Com #023H									

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 - Rodney Robinson F - plan hits target center - Point	0.00	359.61	10,027.0	-347.6	-721.6	478,072.00	723,495.00	32° 18' 44.146 N	103° 36' 35.695 W
BHL - Rodney Robinson - plan hits target center - Point	0.00	359.61	10,600.0	10,024.8	-824.4	488,444.24	723,392.12	32° 20' 26.791 N	103° 36' 36.078 W

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #023H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3745.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3745.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #023H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
739.3	739.3	Z (Dewey Lake (P))			
1,261.6	1,261.6	Z (Rustler)			
1,775.2	1,775.2	Z (Salado)			
3,432.1	3,424.9	Z (Castile (T))			
5,020.2	4,997.5	Z (G30:CS14-CSB)			
5,058.8	5,035.8	Z (G26: Bell Cyn.)			
5,913.7	5,882.3	Z (G13: Cherry Cyn.)			
7,262.9	7,218.5	Z (G7: Brushy Cyn.) Antelope Ridge			
8,852.5	8,798.6	Z (G4: BSGL (CS9))			
9,897.8	9,843.9	Z (L5.3: FBSC)			
10,006.8	9,953.0	Z (L5.1: FBSG)			
10,283.5	10,225.4	Z (L4.3: SBSC)			

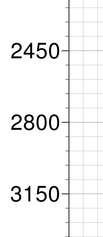
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,160.2	2,160.2	0.0	0.0	Start Build 1.00
2,960.2	2,957.6	-24.2	-50.2	Start 5087.3 hold at 2960.2 MD
8,047.5	7,995.4	-331.5	-688.1	Start Drop -1.50
8,580.8	8,527.0	-347.6	-721.6	Start 1500.0 hold at 8580.8 MD
10,080.8	10,027.0	-347.6	-721.6	Start DLS 10.00 TFO 359.43
10,980.8	10,600.0	225.3	-727.3	Start 9800.0 hold at 10980.8 MD
20,780.8	10,600.0	10,024.8	-824.4	TD at 20780.8

Company: Matador Production Company
Well: Rodney Robinson Fed Com #023H
County: Lea Co., New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 3/29/2022

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 6.07°
To convert a Magnetic Direction to a True Direction, Add 6.46° East
To convert a True Direction to a Grid Direction, Subtract 0.39°



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.07°

Magnetic Field
Strength: 47493.3snT
Dip Angle: 60.07°
Date: 3/29/2022
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	20780.8	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Rodney Robinson Fed Com #023H

GL @ 3717.0 KB @ 3745.5usft

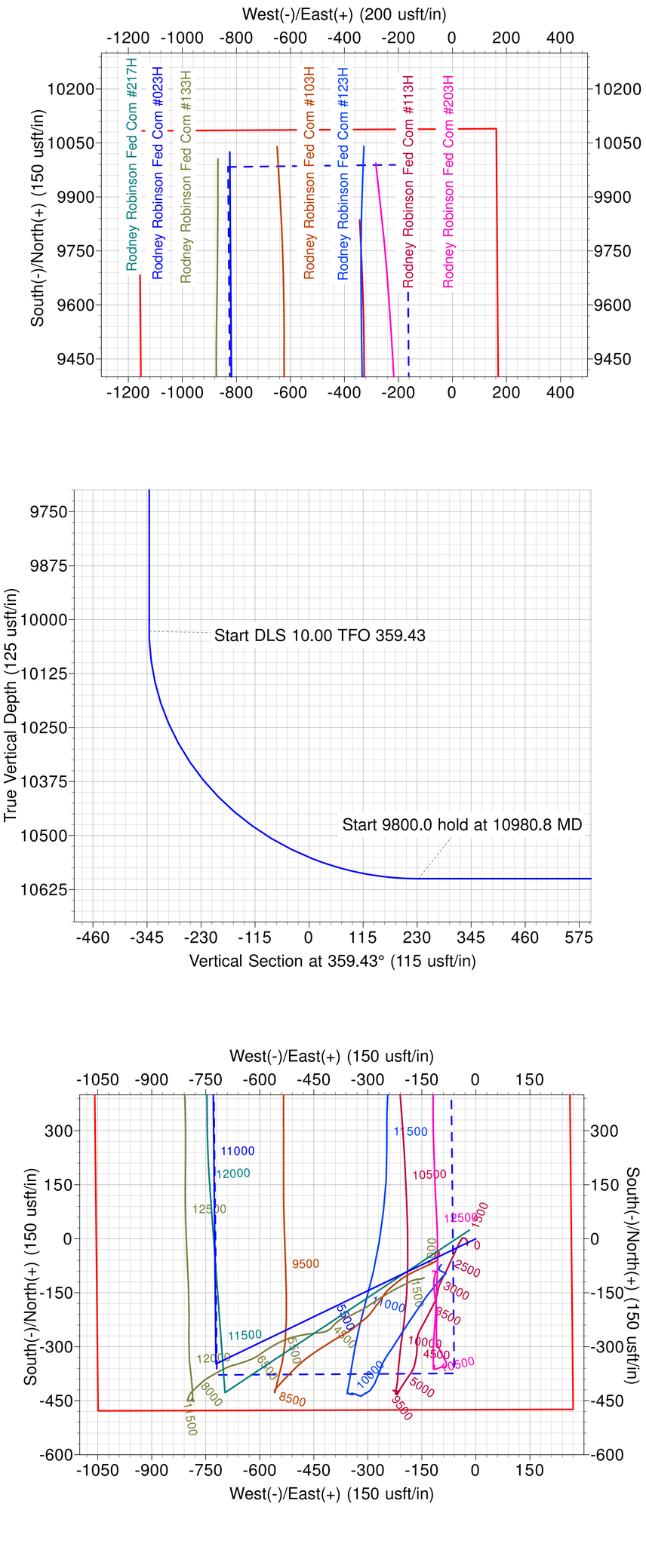
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	478419.54	724216.51	32° 18' 47.537 N	103° 36' 27.261 W	

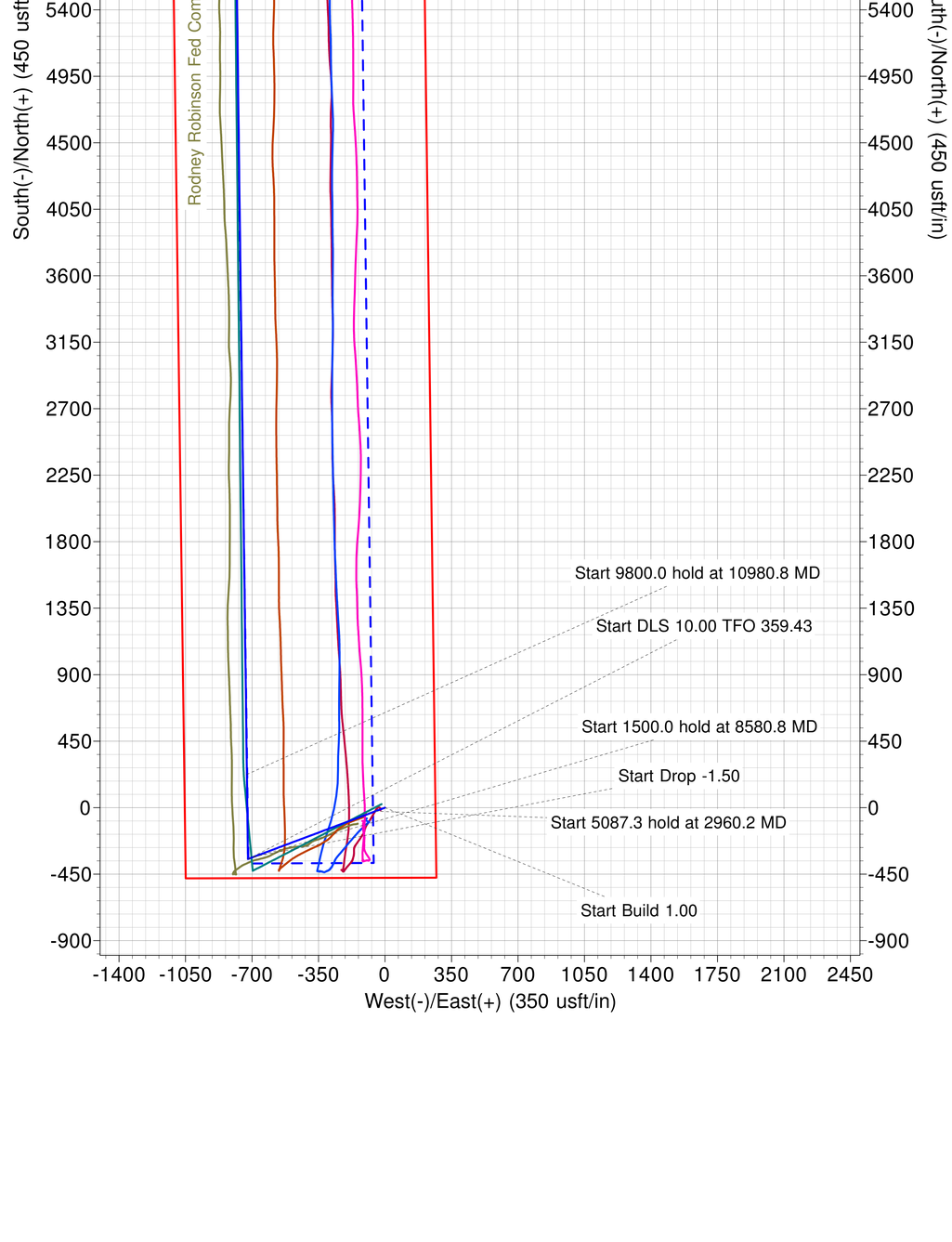
DESIGN TARGET DETAILS

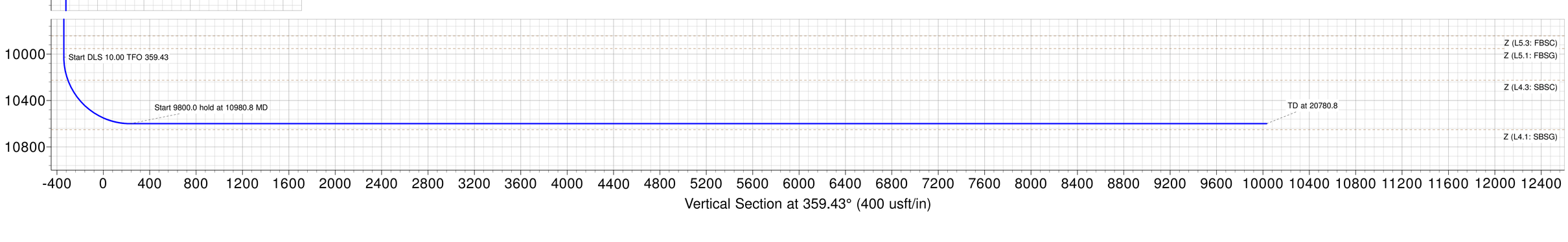
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Rodney Robinson Fed Com #023H	10027.0	-347.6	-721.6	478072.00	723495.00	32° 18' 44.146 N	103° 36' 35.695 W
BHL - Rodney Robinson Fed Com #023H	10600.0	10024.8	-824.4	488444.23	723392.12	32° 20' 26.791 N	103° 36' 36.078 W

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	
2160.2	0.00	0.00	2160.2	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2960.2	8.00	244.28	2957.6	-24.2	-50.2	1.00	244.28	-23.7	Start 5087.3 hold at 2960.2 MD
8047.5	8.00	244.28	7995.4	-331.5	-688.1	0.00	0.00	-324.6	Start Drop -1.50
8580.8	0.00	0.00	8527.0	-347.6	-721.6	1.50	180.00	-340.4	Start 1500.0 hold at 8580.8 MD
10080.8	0.00	0.00	10027.0	-347.6	-721.6	0.00	0.00	-340.4	Start DLS 10.00 TFO 359.43
10980.8	90.00	359.43	10600.0	225.3	-727.3	10.00	359.43	232.6	Start 9800.0 hold at 10980.8 MD
20780.8	90.00	359.43	10600.0	10024.8	-824.4	0.00	0.00	10032.5	TD at 20780.8







District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 113136

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 113136
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PRIVIOUS COA's APPLY	6/3/2022