Form 3160-5
(June 2015)

HOBBS OCD- RECEIVED 11/05/20

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM138876

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
RODNEY ROBINSON FED COM 204H

2. Name of Operator
MATADOR PRODUCTION COMPANY

Contact: CASSIE HAHN
E-Mail: chahn@matadorresources.com

9. API Well No.
30-025-47352

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

3b. Phone No. (include area code)
Ph: 972-371-5440

10. Field and Pool or Exploratory Area
UPPER WOLFCAMP

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T23S R33E SESE 576FSL 215FEL
32.313591 N Lat, 103.603622 W Lon

11. County or Parish, State
LEA COUNTY, NM

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

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

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

BLM Bond No. NMB001079
Surety Bond No. RLB0015172

Please see attached plats and updated directional plans for a BHL change from 60' FNL and 250' FEL to 60' FNL and 330' FEL.

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

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

Electronic Submission #524145 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/04/2020 (20PP3256SE)

Name *(Printed/Typed)* CASSIE HAHN — Title LANDMAN

Signature (Electronic Submission) — Date 08/04/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified) — Title — Date 11/02/2020

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

Office Hobbs

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

(Instructions on page 2)

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

Revisions to Operator-Submitted EC Data for Sundry Notice #524145

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	NMNM138876	NMNM138876
Agreement:		
Operator:	MATADOR RESOURCES COMPANY 5400 LBJ FWY STE 1500 DALLAS, TX 75240 Ph: 972-371-5440	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	CASSIE HAHN SR. LANDMAN E-Mail: CHahn@matadorresources.com Ph: 972-371-5440	CASSIE HAHN LANDMAN E-Mail: chahn@matadorresources.com Ph: 972-371-5440
Tech Contact:	CASSIE HAHN SR. LANDMAN E-Mail: CHahn@matadorresources.com Ph: 972-371-5440	CASSIE HAHN LANDMAN E-Mail: chahn@matadorresources.com Ph: 972-371-5440
Location: State: County:	 NM LEA	 NM LEA
Field/Pool:	UPPER WOLFCAMP	UPPER WOLFCAMP
Well/Facility:	RODNEY ROBINSON 204H Sec 7 T23S R33E Mer NMP SESE 576FSL 215FEL 32.313591 N Lat, 103.603619 W Lon	RODNEY ROBINSON FED COM 204H Sec 7 T23S R33E SESE 576FSL 215FEL 32.313591 N Lat, 103.603622 W Lon

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**MATADOR PRODUCTION COMPANY**
LEASE NO.:	**NMNM138876**
WELL NAME & NO.:	RODNEY ROBINSON FED COM 204H
SURFACE HOLE FOOTAGE:	546'/S & 155'/E
BOTTOM HOLE FOOTAGE	60'/N & 330'/E
LOCATION:	Section 7, T.23 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

COA

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

ALL PREVIOUS COAs STILL APPLY.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

The minimum required fill of cement behind the **7-5/8** inch tapered intermediate casing is:

Option 2 (Multi-Stage):

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

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

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess cement calculates to less than 25% ; More cement may be needed.**
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

- Operator will perform bradenhead squeeze. Cement to surface. If cement does not circulate see B.1.a, c-d in the surface casing section of the initial COA.

RI11022020

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

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-47352	98177	WC-025 G-09 S223332A;UPR WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
328112	RODNEY ROBINSON FED COM	204H

[7] OGRID No.	[8] Operator Name	[9] Elevation
228937	MATADOR PRODUCTION COMPANY	3717'

[10] Surface Location

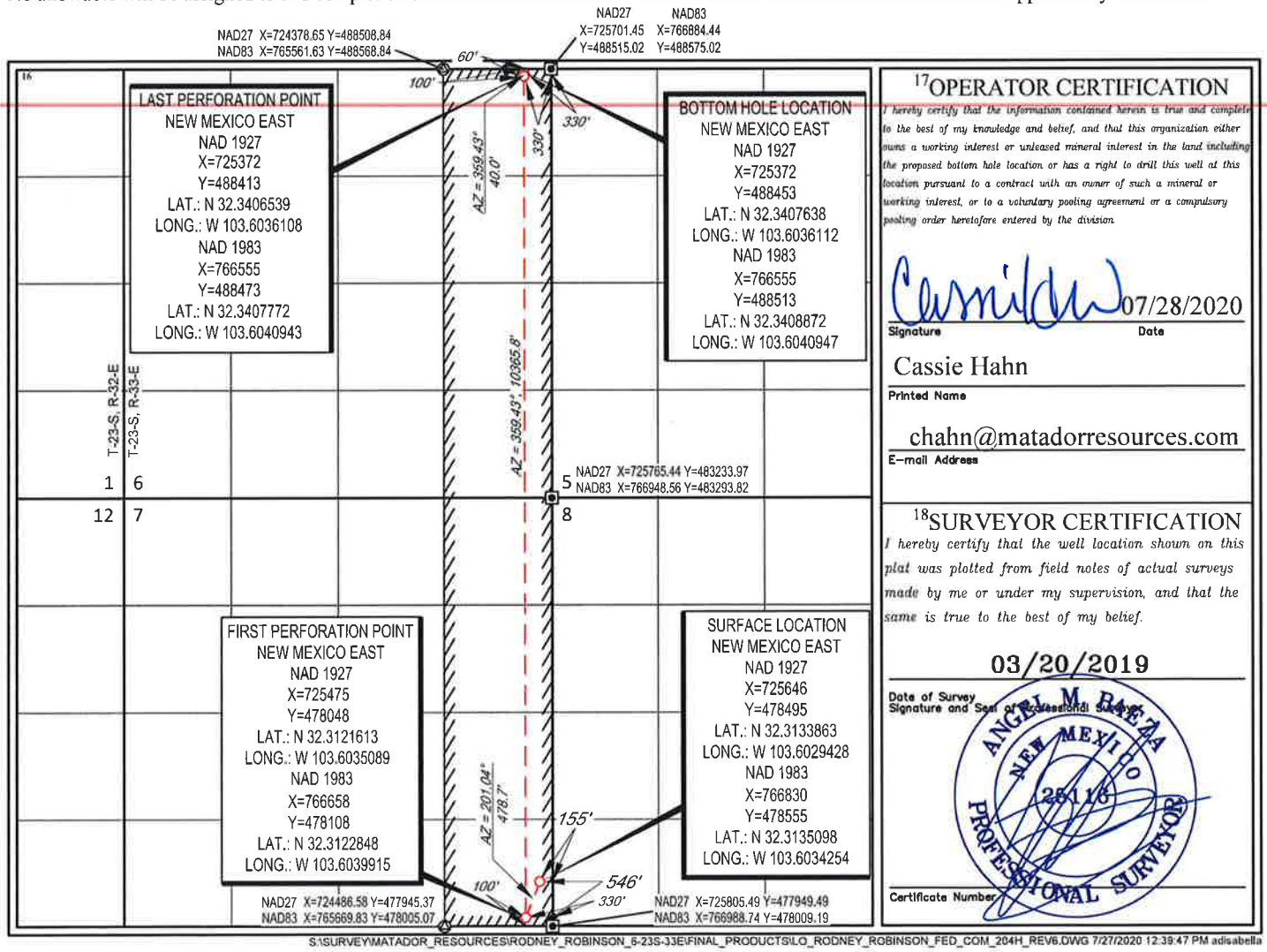
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	23-S	33-E	–	546'	SOUTH	155'	EAST	LEA

[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
1	6	23-S	33-E	–	60'	NORTH	330'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320.05			

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 07/28/2020 Date

Cassie Hahn
Printed Name

chahn@matadorresources.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

03/20/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. PEÑA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

Certificate Number

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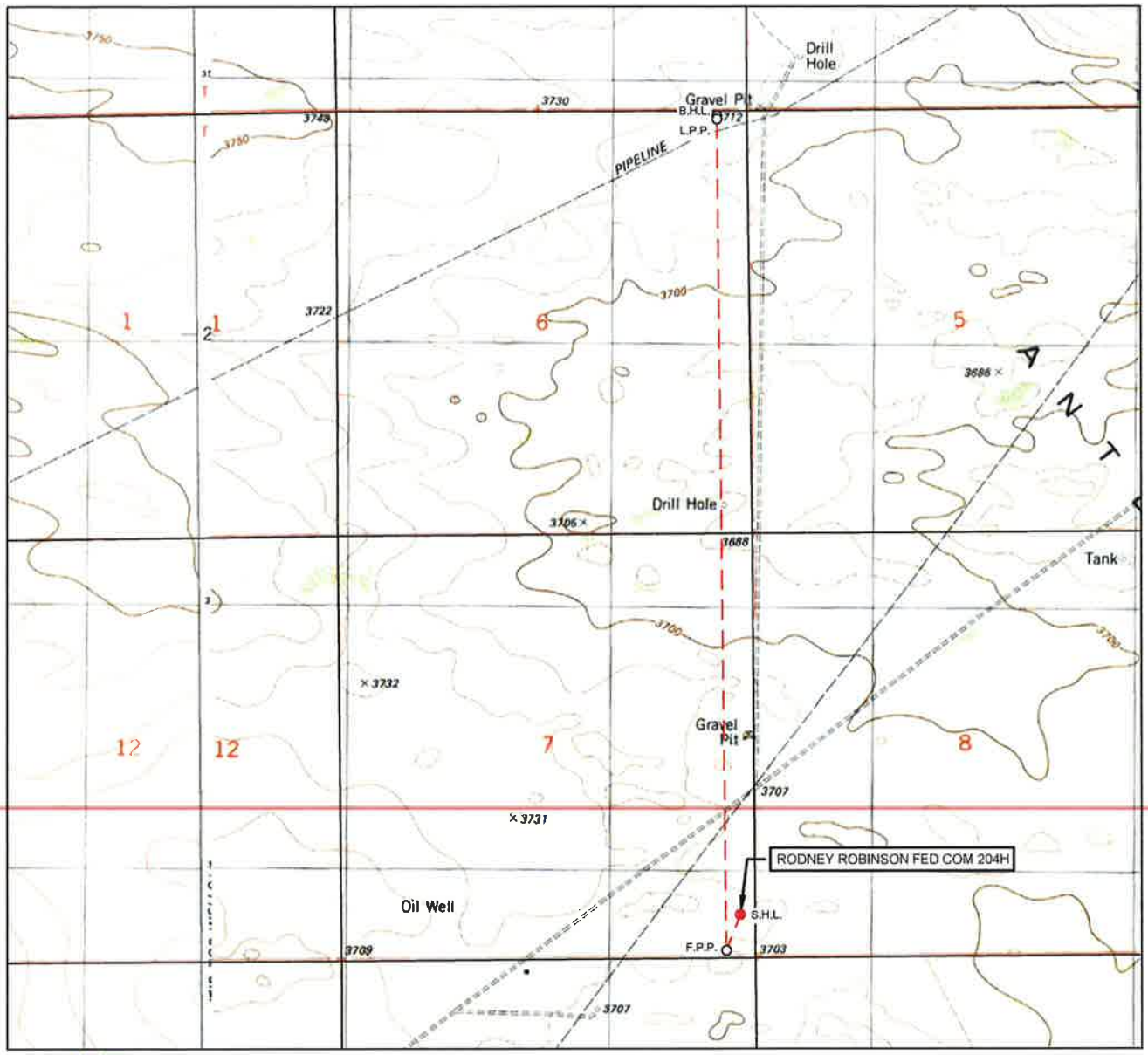
LOCATION & ELEVATION VERIFICATION MAP



Matador PRODUCTION COMPANY

LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 204H

SECTION 7 TWP 23-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3717'
DESCRIPTION 546' FSL & 155' FEL

LATITUDE N 32.3135098 LONGITUDE W 103.6034254

SCALE: 1" = 2000'

0' 1000' 2000'

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.

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.

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

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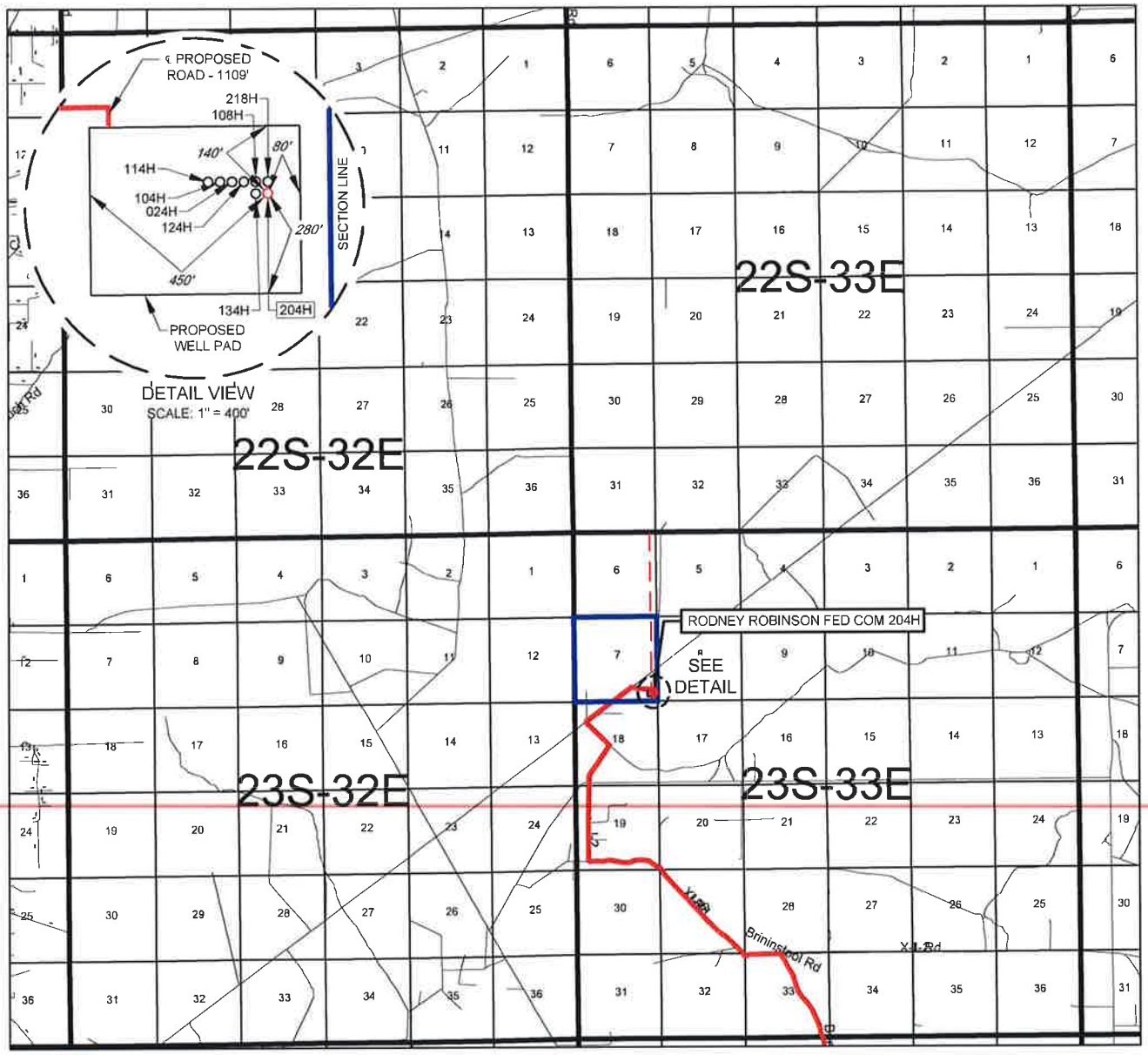
VICINITY MAP



LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 204H

SECTION 7 TWP 23-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 546' FSL & 155' 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. ±1109 FEET TO A POINT ±368 FEET NORTHWEST OF THE LOCATION.

SCALE: 1" = 10000'

0' 5000' 10000'

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.

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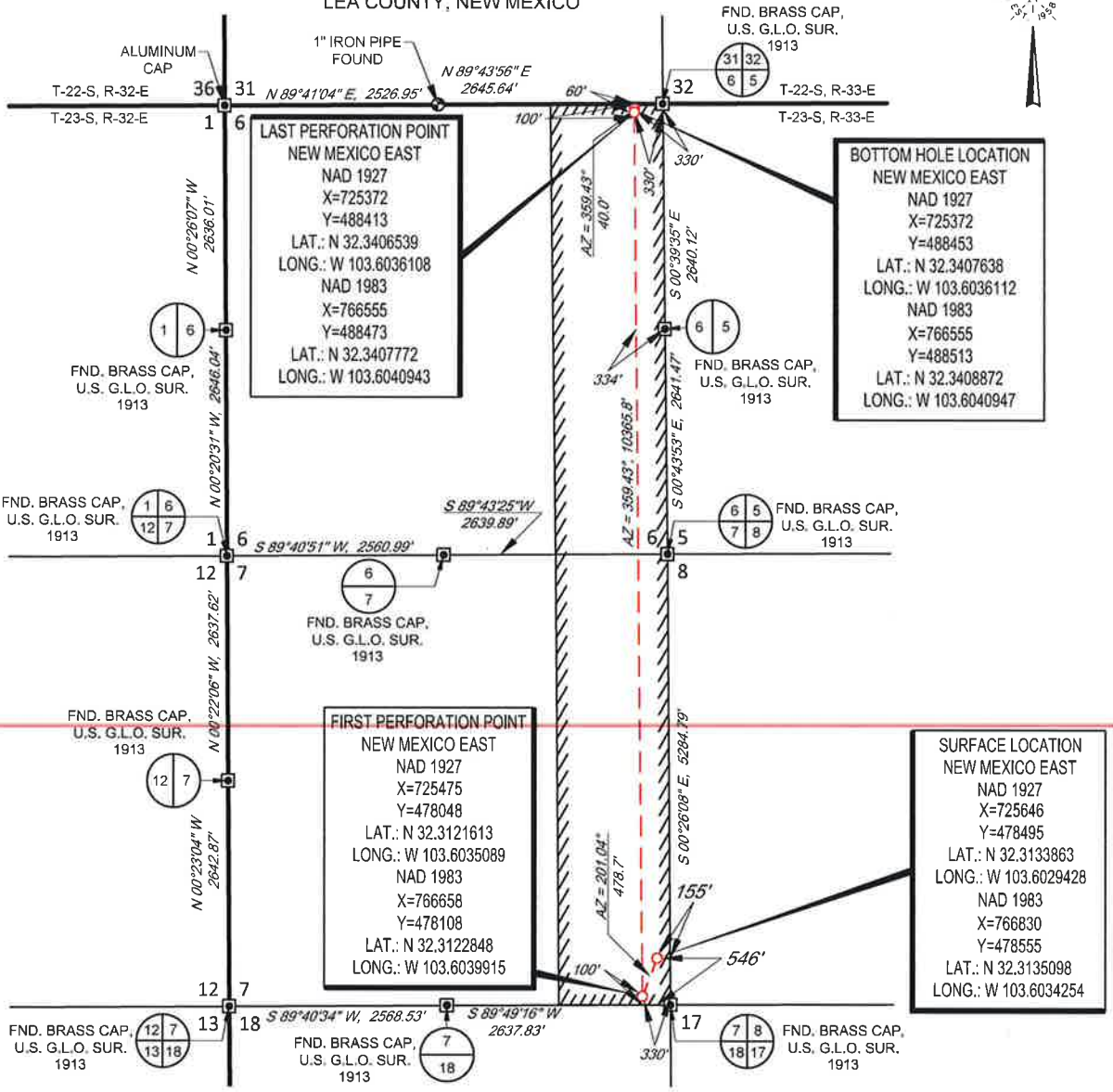
SCALE: 1" = 2000'

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 204H

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

COUNTY LEA STATE NM

DESCRIPTION 546' FSL & 155' FEL

DISTANCE & DIRECTION

FROM INT. OF CR 21. & NM-128, GO WEST ON NM-128 ±3.3 MILES.THENCE NORTH (RIGHT) ON BRININSTOOL RD. ±4.2 MILES, THENCE WEST (LEFT) ON J-2/XI RD. ±2.8 MILES, THENCE CONTINUE NORTH (RIGHT) ON J-2/XI RD. ±1.8 MILES, THENCE NORTHEAST (RIGHT) ON PADUCA BREAKS LN. ±0.7 MILES, THENCE SOUTHEAST (RIGHT) ON A PROPOSED RD. ±1106 FEET TO A POINT ±435 FEET NORTHWEST OF THE LOCATION.

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, License No. 25116

JULY 23, 2020

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

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

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

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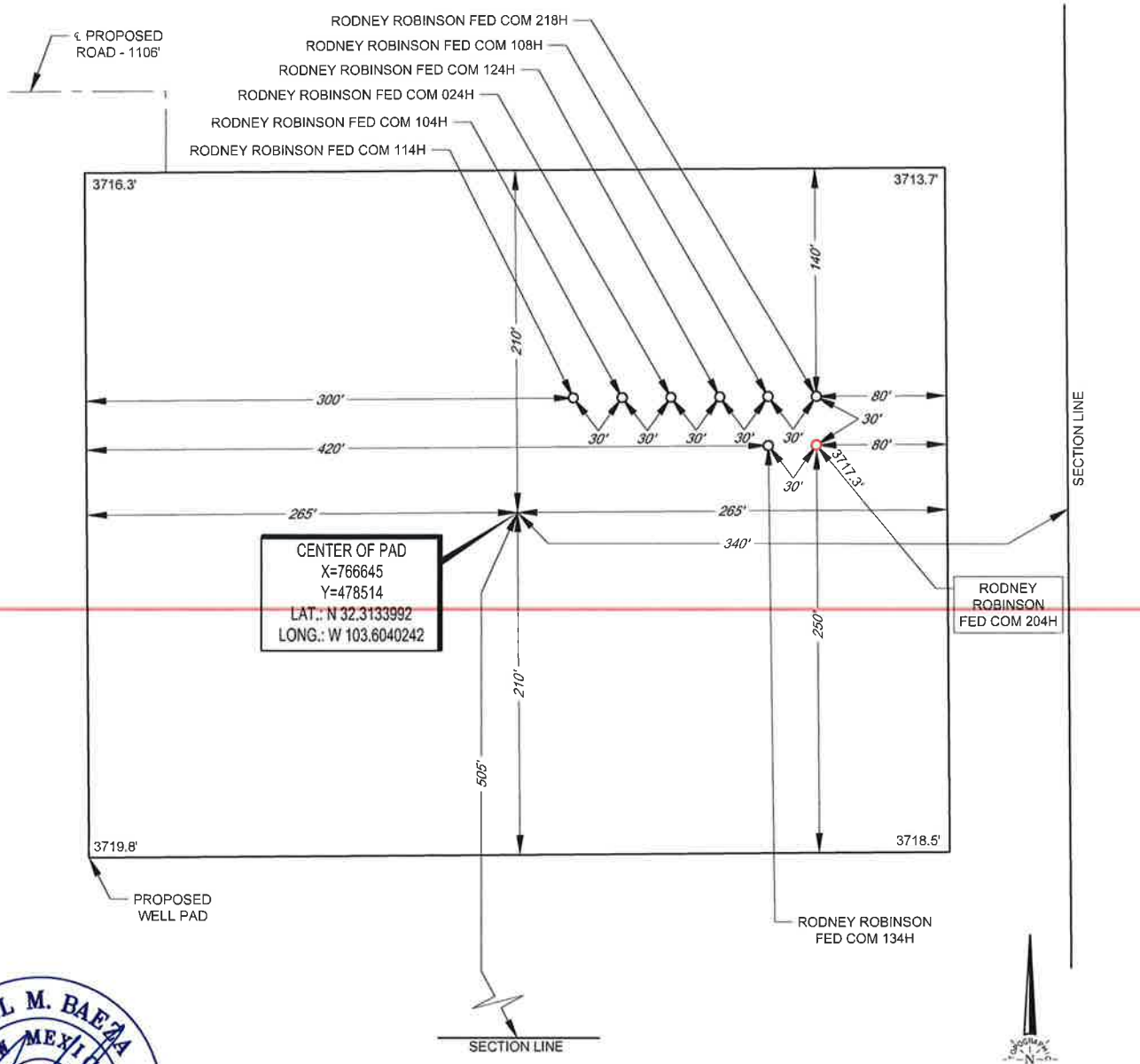
SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 204H

204H LATITUDE N 32.3135098 204H LONGITUDE W 103.6034254

CENTER OF PAD IS 505' FSL & 340' FEL

SCALE: 1" = 100'

0' 50' 100'

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, P.S. No. 25116
JULY 22, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 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. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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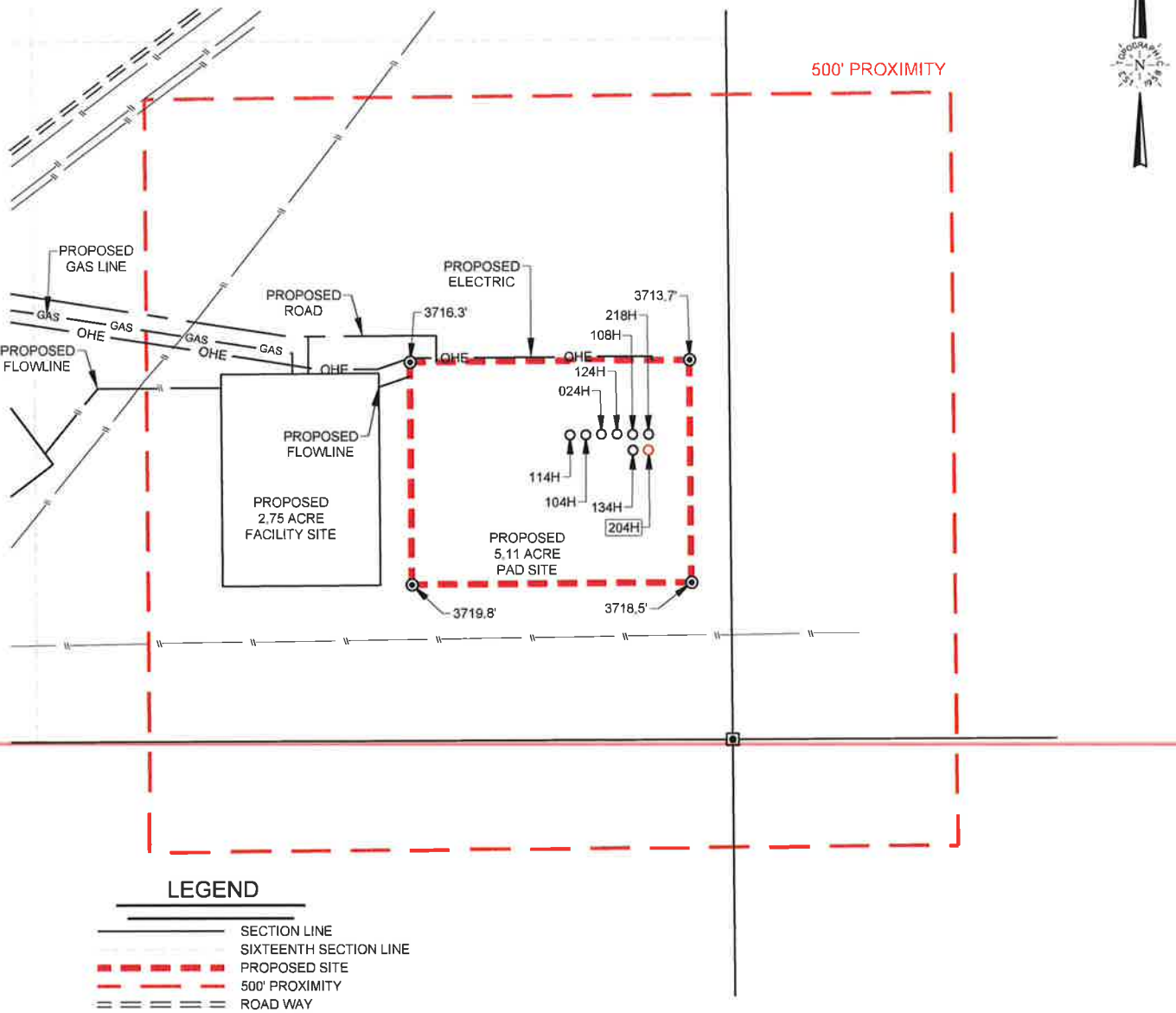
SCALE: 1" = 300'

0' 150' 300'

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



LEGEND

	SECTION LINE
	SIXTEENTH SECTION LINE
	PROPOSED SITE
	500' PROXIMITY
	ROAD WAY
X	FENCE LINE
	EXISTING PIPELINE
OHE	OVERHEAD ELECTRIC
GAS	PROPOSED GAS LINE
	PROPOSED ROAD
OHE	PROPOSED ELECTRIC
	PROPOSED FLOWLINE
	IRON ROD SET
	MONUMENT

Matador PRODUCTION COMPANY

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
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ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Angel M. Baeza, License No. 25116
JULY 23, 2020

RODNEY ROBINSON FED COM 204H PROXIMITY MAP	REVISION:	
	MML	03/26/19
	IMU	04/09/19
DATE: 12/14/18		
FILE: LO_RODNEY_ROBINSON_FED_COM_204H_REV6		
DRAWN BY: MML		
SHEET : 7 OF 7		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

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

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque

HUNTING

Generated on Sep 03, 2019

Casing Table Specification Sheet

Rodney Robinson Fed Com 204H
SHL: 546' FSL & 155' FEL Section 7
BHL: 60' FNL & 330' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3719

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 - 1289	0 - 1289	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9500	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	8.75	9500 - 11720	9500 - 11688	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	8.75	0 - 22613	0 - 12361	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 #204H

Wellbore #1
BLM Plan #1

Anticollision Report

27 July, 2020

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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:	MD + Stations Interval 100.0usft	**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** 7/27/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	22,613.4	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 #024H - Wellbore #1 - BLM	1,500.0	1,501.0	94.8	84.5	9.204	CC
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	1,700.0	1,701.0	95.6	83.9	8.185	ES
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	8,415.1	8,425.8	270.8	207.3	4.264	SF
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	800.0	799.0	123.6	118.4	23.456	CC
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	900.0	897.4	124.3	118.3	20.814	ES
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	9,300.0	9,305.9	1,033.8	966.4	15.346	SF
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	1,500.0	1,499.0	42.4	32.1	4.117	CC
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	1,900.0	1,900.6	43.8	30.8	3.380	ES
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	9,200.0	9,200.0	100.6	32.4	1.475	Level 3, SF
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	1,500.0	1,500.0	152.9	142.6	14.854	CC
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	1,600.0	1,599.3	153.2	142.2	13.962	ES
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	9,800.0	9,816.6	340.5	268.0	4.699	SF
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,500.0	1,502.0	67.1	56.8	6.509	CC
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,600.0	1,602.0	67.4	56.4	6.124	ES
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	10,400.0	10,399.8	180.2	106.4	2.441	SF
Rodney Robinson Fed Com #134H - Wellbore #1 - BLM	1,500.0	1,499.0	30.0	19.7	2.919	CC
Rodney Robinson Fed Com #134H - Wellbore #1 - BLM	1,600.0	1,598.6	30.7	19.7	2.795	ES, SF
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	1,500.0	1,502.0	29.9	19.6	2.900	CC
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	22,613.5	22,722.9	87.0	-80.9	0.518	Level 1, ES, SF

Offset Design Rodney Robinson - Rodney Robinson Fed Com #024H - 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	-72.07	29.2	-90.2	94.8				
100.0	100.0	101.0	99.0	0.1	0.1	-72.07	29.2	-90.2	94.8	94.5	0.26	364.673	
200.0	200.0	201.0	199.0	0.5	0.5	-72.07	29.2	-90.2	94.8	93.8	0.98	97.023	
300.0	300.0	301.0	299.0	0.8	0.8	-72.07	29.2	-90.2	94.8	93.1	1.69	55.955	
400.0	400.0	401.0	399.0	1.2	1.2	-72.07	29.2	-90.2	94.8	92.4	2.41	39.314	
500.0	500.0	501.0	499.0	1.6	1.6	-72.07	29.2	-90.2	94.8	91.6	3.13	30.302	
600.0	600.0	601.0	599.0	1.9	1.9	-72.07	29.2	-90.2	94.8	90.9	3.84	24.652	
700.0	700.0	701.0	699.0	2.3	2.3	-72.07	29.2	-90.2	94.8	90.2	4.56	20.777	
800.0	800.0	801.0	799.0	2.6	2.6	-72.07	29.2	-90.2	94.8	89.5	5.28	17.955	

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

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Reference Design:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Rodney Robinson - Rodney Robinson Fed Com #024H - 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
900.0	900.0	901.0	899.0	3.0	3.0	-72.07	29.2	-90.2	94.8	88.8	6.00	15.808	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-72.07	29.2	-90.2	94.8	88.1	6.71	14.120	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-72.07	29.2	-90.2	94.8	87.3	7.43	12.757	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-72.07	29.2	-90.2	94.8	86.6	8.15	11.634	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-72.07	29.2	-90.2	94.8	85.9	8.86	10.693	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-72.07	29.2	-90.2	94.8	85.2	9.58	9.893	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	-72.07	29.2	-90.2	94.8	84.5	10.30	9.204	CC
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	103.12	29.2	-90.2	95.0	84.0	11.00	8.637	
1,700.0	1,700.0	1,701.0	1,699.0	5.8	5.9	104.64	29.2	-90.2	95.6	83.9	11.68	8.185	ES
1,800.0	1,799.9	1,801.1	1,798.9	6.1	6.2	107.13	29.2	-90.2	96.8	84.4	12.37	7.826	
1,900.0	1,899.7	1,901.3	1,898.7	6.5	6.6	110.49	29.2	-90.2	98.8	85.7	13.06	7.562	
2,000.0	1,999.4	2,001.6	1,998.4	6.8	6.9	114.59	29.2	-90.2	101.8	88.0	13.76	7.398	
2,100.0	2,098.9	2,102.1	2,097.9	7.2	7.3	119.25	29.2	-90.2	106.1	91.7	14.46	7.340	
2,200.0	2,198.3	2,202.7	2,197.3	7.5	7.7	124.23	29.2	-90.2	112.1	97.0	15.17	7.393	
2,300.0	2,297.4	2,303.6	2,296.4	7.9	8.0	129.30	29.2	-90.2	120.0	104.1	15.88	7.557	
2,400.0	2,396.4	2,404.6	2,395.4	8.2	8.4	134.05	29.2	-90.2	129.3	112.7	16.59	7.793	
2,500.0	2,495.5	2,505.5	2,494.5	8.6	8.8	138.15	29.2	-90.2	139.4	122.1	17.31	8.054	
2,600.0	2,594.5	2,606.5	2,593.5	9.0	9.1	141.68	29.2	-90.2	150.1	132.1	18.02	8.329	
2,700.0	2,693.5	2,707.5	2,692.5	9.4	9.5	144.74	29.2	-90.2	161.3	142.5	18.73	8.608	
2,800.0	2,792.5	2,808.5	2,791.5	9.7	9.8	147.40	29.2	-90.2	172.9	153.4	19.45	8.888	
2,900.0	2,891.6	2,909.4	2,890.6	10.1	10.2	149.72	29.2	-90.2	184.8	164.6	20.16	9.163	
3,000.0	2,990.6	2,989.6	2,989.6	10.5	10.5	151.76	29.2	-90.2	196.9	176.1	20.81	9.465	
3,100.0	3,089.6	3,091.0	3,091.0	10.9	10.8	153.46	28.5	-90.5	208.8	187.3	21.51	9.707	
3,200.0	3,188.6	3,193.0	3,193.0	11.3	11.2	154.65	26.2	-91.5	219.6	197.4	22.21	9.889	
3,300.0	3,287.7	3,295.5	3,295.3	11.7	11.5	155.43	22.2	-93.2	229.1	206.2	22.90	10.006	
3,400.0	3,386.7	3,398.2	3,397.9	12.1	11.8	155.85	16.5	-95.7	237.4	213.8	23.60	10.060	
3,500.0	3,485.7	3,501.1	3,500.5	12.5	12.2	155.95	9.1	-99.0	244.4	220.1	24.30	10.055	
3,600.0	3,584.8	3,604.3	3,603.2	12.9	12.5	155.76	0.0	-103.0	250.0	225.0	25.01	9.996	
3,700.0	3,683.8	3,707.5	3,705.7	13.3	12.9	155.29	-10.8	-107.7	254.3	228.6	25.72	9.885	
3,800.0	3,782.8	3,810.8	3,808.1	13.7	13.3	154.55	-23.3	-113.2	257.3	230.8	26.45	9.729	
3,900.0	3,881.8	3,910.3	3,906.6	14.1	13.7	153.75	-35.9	-118.7	259.8	232.7	27.19	9.556	
4,000.0	3,980.9	4,010.2	4,005.6	14.5	14.1	152.96	-48.7	-124.3	262.4	234.5	27.95	9.391	
4,100.0	4,079.9	4,110.1	4,104.5	14.9	14.5	152.18	-61.4	-129.9	265.1	236.4	28.71	9.234	
4,200.0	4,178.9	4,210.0	4,203.4	15.3	14.9	151.42	-74.1	-135.5	267.8	238.3	29.48	9.084	
4,300.0	4,277.9	4,309.9	4,302.4	15.8	15.3	150.68	-86.9	-141.1	270.5	240.3	30.26	8.941	
4,400.0	4,377.0	4,409.8	4,401.3	16.2	15.8	149.95	-99.6	-146.7	273.3	242.3	31.04	8.804	
4,500.0	4,476.0	4,509.7	4,500.2	16.6	16.2	149.24	-112.3	-152.3	276.1	244.3	31.84	8.672	
4,600.0	4,575.0	4,609.6	4,599.1	17.0	16.6	148.54	-125.1	-157.8	279.0	246.4	32.64	8.547	
4,700.0	4,674.0	4,709.5	4,698.1	17.4	17.1	147.85	-137.8	-163.4	281.9	248.5	33.45	8.427	
4,800.0	4,773.1	4,809.4	4,797.0	17.8	17.5	147.18	-150.5	-169.0	284.9	250.6	34.27	8.312	
4,900.0	4,872.1	4,909.3	4,895.9	18.2	18.0	146.52	-163.3	-174.6	287.8	252.7	35.10	8.202	
5,000.0	4,971.1	5,009.2	4,994.9	18.6	18.5	145.88	-176.0	-180.2	290.9	254.9	35.93	8.096	
5,100.0	5,070.2	5,109.1	5,093.8	19.1	19.0	145.25	-188.7	-185.8	293.9	257.2	36.76	7.995	
5,200.0	5,169.2	5,209.0	5,192.7	19.5	19.4	144.63	-201.5	-191.4	297.0	259.4	37.61	7.898	
5,221.2	5,190.2	5,230.2	5,213.7	19.6	19.5	144.50	-204.2	-192.6	297.7	259.9	37.79	7.877	
5,300.0	5,268.3	5,308.9	5,291.6	19.9	19.9	143.95	-214.2	-197.0	299.5	261.0	38.46	7.787	
5,400.0	5,367.8	5,408.8	5,390.5	20.3	20.4	142.98	-226.9	-202.5	300.0	260.6	39.33	7.628	
5,500.0	5,467.4	5,508.6	5,489.3	20.7	20.9	141.69	-239.6	-208.1	298.5	258.3	40.21	7.423	
5,600.0	5,567.3	5,608.1	5,588.0	21.0	21.4	140.04	-252.3	-213.7	295.1	254.0	41.10	7.180	
5,700.0	5,667.2	5,707.5	5,686.3	21.4	21.9	138.01	-265.0	-219.2	290.0	248.0	42.01	6.903	
5,754.5	5,721.8	5,761.6	5,739.9	21.5	22.1	-37.96	-271.9	-222.3	286.6	244.1	42.52	6.741	
5,800.0	5,767.2	5,806.6	5,784.4	21.7	22.3	-39.08	-277.6	-224.8	283.6	240.7	42.93	6.606	

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

Anticollision Report

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Reference Well:	Rodney Robinson Fed Com #204H	**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 #024H - 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
5,900.0	5,867.2	5,905.6	5,882.5	22.0	22.8	-41.61	-290.2	-230.3	277.5	233.6	43.86	6.327	
6,000.0	5,967.2	6,004.6	5,980.6	22.3	23.3	-44.26	-302.8	-235.9	271.9	227.1	44.79	6.071	
6,100.0	6,067.2	6,103.7	6,078.6	22.6	23.8	-47.00	-315.5	-241.4	267.0	221.2	45.73	5.838	
6,200.0	6,167.2	6,202.7	6,176.7	22.9	24.3	-49.84	-328.1	-246.9	262.6	216.0	46.67	5.627	
6,300.0	6,267.2	6,301.7	6,274.8	23.2	24.8	-52.77	-340.7	-252.5	259.0	211.4	47.61	5.440	
6,400.0	6,367.2	6,400.7	6,372.8	23.6	25.3	-55.77	-353.3	-258.0	256.1	207.5	48.55	5.275	
6,500.0	6,467.2	6,500.2	6,470.9	23.9	25.9	-58.83	-365.9	-263.5	253.9	204.4	49.47	5.131	
6,600.0	6,567.2	6,598.8	6,569.0	24.2	26.4	-61.93	-378.6	-269.1	252.4	202.0	50.38	5.010	
6,700.0	6,667.2	6,702.2	6,667.0	24.5	26.9	-65.06	-391.2	-274.6	251.7	200.4	51.29	4.908	
6,739.8	6,707.0	6,737.2	6,706.0	24.7	27.1	-66.31	-396.2	-276.8	251.7	200.1	51.61	4.876	
6,800.0	6,767.2	6,803.2	6,765.1	24.8	27.4	-68.20	-403.8	-280.2	251.8	199.6	52.16	4.827	
6,900.0	6,867.2	6,904.1	6,863.1	25.2	27.9	-71.32	-416.4	-285.7	252.7	199.6	53.01	4.766	
7,000.0	6,967.2	7,005.1	6,961.2	25.5	28.5	-74.42	-429.1	-291.2	254.3	200.4	53.83	4.724	
7,100.0	7,067.2	7,106.1	7,059.3	25.8	29.0	-77.47	-441.7	-296.8	256.6	202.0	54.62	4.698	
7,200.0	7,167.2	7,192.9	7,157.3	26.1	29.4	-80.45	-454.3	-302.3	259.7	204.4	55.30	4.696	
7,300.0	7,267.2	7,292.6	7,256.0	26.5	30.0	-83.36	-466.9	-307.8	263.4	207.4	56.03	4.702	
7,400.0	7,367.2	7,394.1	7,356.8	26.8	30.5	-85.83	-477.9	-312.7	267.2	210.4	56.74	4.709	
7,500.0	7,467.2	7,496.2	7,458.5	27.1	30.9	-87.70	-486.5	-316.4	270.4	213.0	57.43	4.709	
7,600.0	7,567.2	7,598.7	7,560.8	27.5	31.3	-89.01	-492.6	-319.1	272.9	214.8	58.10	4.697	
7,700.0	7,667.2	7,701.5	7,663.5	27.8	31.7	-89.77	-496.3	-320.7	274.4	215.6	58.76	4.670	
7,800.0	7,767.2	7,804.3	7,766.2	28.1	32.0	-90.00	-497.3	-321.2	274.8	215.4	59.39	4.628	
7,900.0	7,867.2	7,904.3	7,866.2	28.4	32.3	-90.00	-497.3	-321.2	274.8	214.8	60.01	4.580	
8,000.0	7,967.2	8,004.3	7,966.2	28.8	32.6	-90.00	-497.3	-321.2	274.8	214.2	60.64	4.532	
8,100.0	8,067.2	8,104.3	8,066.2	29.1	32.9	-90.00	-497.3	-321.2	274.8	213.6	61.26	4.486	
8,200.0	8,167.2	8,205.4	8,167.3	29.4	33.2	-89.97	-497.2	-321.2	274.8	212.9	61.89	4.440	
8,300.0	8,267.2	8,312.5	8,273.6	29.8	33.4	-87.39	-484.9	-319.0	273.1	210.5	62.59	4.362	
8,400.0	8,367.2	8,411.8	8,368.4	30.1	33.6	-81.29	-456.3	-314.1	270.8	207.4	63.40	4.272	
8,415.1	8,382.3	8,425.8	8,381.3	30.2	33.6	-80.15	-451.0	-313.2	270.8	207.3	63.51	4.264	SF
8,500.0	8,467.2	8,499.0	8,446.5	30.4	33.7	-73.15	-418.2	-307.5	273.5	209.6	63.89	4.282	
8,600.0	8,567.2	8,572.9	8,507.5	30.8	33.8	-64.67	-377.1	-300.3	287.1	223.9	63.11	4.548	
8,700.0	8,667.2	8,634.5	8,553.8	31.1	33.9	-57.05	-337.2	-293.4	315.1	254.6	60.50	5.208	
8,800.0	8,767.2	8,685.4	8,588.6	31.4	34.0	-50.75	-300.7	-287.0	358.0	301.5	56.51	6.335	
8,900.0	8,867.2	8,727.6	8,614.9	31.8	34.2	-45.72	-268.2	-281.4	413.4	361.4	52.05	7.943	
9,000.0	8,967.2	8,762.8	8,634.9	32.1	34.3	-41.76	-239.7	-276.5	478.6	430.8	47.80	10.014	
9,100.0	9,067.2	8,800.0	8,654.1	32.5	34.4	-37.85	-208.3	-271.0	551.2	506.8	44.47	12.395	
9,200.0	9,167.2	8,817.5	8,662.4	32.8	34.5	-36.12	-193.1	-268.4	629.0	588.1	40.90	15.381	
9,300.0	9,267.2	8,839.0	8,672.0	33.1	34.6	-34.09	-174.1	-265.1	710.9	672.7	38.26	18.581	
9,400.0	9,367.2	8,850.0	8,676.6	33.5	34.7	-33.09	-164.3	-263.4	796.0	760.2	35.77	22.252	
9,500.0	9,467.2	8,873.6	8,685.8	33.8	34.8	-31.03	-142.8	-259.6	883.3	849.0	34.30	25.755	
9,600.0	9,567.2	8,900.0	8,695.1	34.2	35.0	-28.89	-118.5	-255.4	972.7	939.4	33.25	29.255	
9,700.0	9,667.2	8,900.0	8,695.1	34.5	35.0	-28.89	-118.5	-255.4	1,063.2	1,031.6	31.60	33.645	
9,800.0	9,767.2	8,900.0	8,695.1	34.8	35.0	-28.89	-118.5	-255.4	1,155.3	1,125.0	30.29	38.143	
9,900.0	9,867.2	8,921.3	8,701.7	35.2	35.1	-27.28	-98.6	-252.0	1,248.0	1,218.2	29.80	41.876	
10,000.0	9,967.2	8,930.2	8,704.3	35.5	35.2	-26.63	-90.2	-250.5	1,341.7	1,312.5	29.14	46.045	
10,100.0	10,067.2	8,950.0	8,709.4	35.9	35.3	-25.25	-71.3	-247.2	1,436.2	1,407.4	28.87	49.755	
10,200.0	10,167.2	8,950.0	8,709.4	36.2	35.3	-25.25	-71.3	-247.2	1,531.0	1,502.8	28.26	54.171	
10,300.0	10,267.2	8,950.0	8,709.4	36.5	35.3	-25.25	-71.3	-247.2	1,626.5	1,598.7	27.79	58.527	
10,400.0	10,367.2	8,950.0	8,709.4	36.9	35.3	-25.25	-71.3	-247.2	1,722.4	1,695.0	27.43	62.804	
10,500.0	10,467.2	8,950.0	8,709.4	37.2	35.3	-25.25	-71.3	-247.2	1,818.8	1,791.7	27.15	66.988	
10,600.0	10,567.2	8,969.0	8,713.8	37.6	35.5	-23.99	-53.1	-244.1	1,915.2	1,888.0	27.24	70.306	
10,700.0	10,667.2	8,973.8	8,714.8	37.9	35.5	-23.69	-48.5	-243.3	2,012.0	1,984.9	27.15	74.098	
10,800.0	10,767.2	8,978.2	8,715.7	38.3	35.6	-23.41	-44.2	-242.5	2,109.2	2,082.0	27.11	77.799	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #024H - 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
10,900.0	10,867.2	9,000.0	8,719.6	38.6	35.8	-22.09	-23.1	-238.9	2,206.8	2,179.5	27.33	80.746	
11,000.0	10,967.2	9,000.0	8,719.6	38.9	35.8	-22.09	-23.1	-238.9	2,304.2	2,276.9	27.30	84.407	
11,100.0	11,067.2	9,000.0	8,719.6	39.3	35.8	-22.09	-23.1	-238.9	2,401.8	2,374.5	27.31	87.958	
11,200.0	11,167.2	9,000.0	8,719.6	39.6	35.8	-22.09	-23.1	-238.9	2,499.6	2,472.3	27.35	91.400	
11,300.0	11,267.2	9,000.0	8,719.6	40.0	35.8	-22.09	-23.1	-238.9	2,597.6	2,570.2	27.42	94.733	
11,400.0	11,367.2	9,000.0	8,719.6	40.3	35.8	-22.09	-23.1	-238.9	2,695.7	2,668.2	27.52	97.959	
11,500.0	11,467.2	9,000.0	8,719.6	40.7	35.8	-22.09	-23.1	-238.9	2,793.9	2,766.3	27.64	101.082	
11,600.0	11,567.2	9,000.0	8,719.6	41.0	35.8	-22.09	-23.1	-238.9	2,892.3	2,864.5	27.78	104.103	
11,700.0	11,667.2	9,000.0	8,719.6	41.4	35.8	-22.09	-23.1	-238.9	2,990.8	2,962.8	27.94	107.025	
11,800.0	11,767.2	9,000.0	8,719.6	41.7	35.8	-22.09	-23.1	-238.9	3,089.3	3,061.2	28.12	109.851	
11,820.8	11,788.0	9,000.0	8,719.6	41.8	35.8	-22.09	-23.1	-238.9	3,109.8	3,081.7	28.16	110.426	
11,850.0	11,817.2	9,000.0	8,719.6	41.9	35.8	-9.65	-23.1	-238.9	3,138.5	3,110.3	28.21	111.248	
11,900.0	11,867.0	9,000.0	8,719.6	42.0	35.8	-6.89	-23.1	-238.9	3,186.9	3,158.6	28.28	112.697	
11,950.0	11,916.1	9,000.0	8,719.6	42.2	35.8	-5.37	-23.1	-238.9	3,234.1	3,205.8	28.32	114.188	
12,000.0	11,964.3	9,000.0	8,719.6	42.3	35.8	-4.41	-23.1	-238.9	3,279.8	3,251.4	28.35	115.699	
12,050.0	12,011.2	9,020.6	8,722.5	42.5	36.0	-3.49	-3.0	-235.4	3,323.2	3,294.7	28.49	116.629	
12,100.0	12,056.3	9,024.4	8,723.0	42.6	36.0	-3.02	0.6	-234.7	3,364.9	3,336.4	28.51	118.041	
12,150.0	12,099.4	9,028.5	8,723.4	42.7	36.0	-2.66	4.7	-234.0	3,404.3	3,375.8	28.51	119.412	
12,200.0	12,140.2	9,050.0	8,725.4	42.8	36.2	-2.24	25.8	-230.4	3,441.4	3,412.8	28.60	120.310	
12,250.0	12,178.2	9,050.0	8,725.4	42.9	36.2	-2.07	25.8	-230.4	3,475.4	3,446.8	28.56	121.673	
12,300.0	12,213.3	9,050.0	8,725.4	42.9	36.2	-1.93	25.8	-230.4	3,506.4	3,477.9	28.52	122.928	
12,350.0	12,245.1	9,050.0	8,725.4	43.0	36.2	-1.82	25.8	-230.4	3,534.4	3,505.9	28.49	124.047	
12,400.0	12,273.5	9,050.0	8,725.4	43.1	36.2	-1.73	25.8	-230.4	3,559.2	3,530.7	28.47	125.002	
12,450.0	12,298.2	9,050.0	8,725.4	43.1	36.2	-1.66	25.8	-230.4	3,580.7	3,552.2	28.47	125.765	
12,500.0	12,319.0	9,050.0	8,725.4	43.2	36.2	-1.60	25.8	-230.4	3,598.7	3,570.3	28.49	126.312	
12,550.0	12,335.7	9,072.3	8,726.6	43.3	36.5	-1.44	47.7	-226.6	3,612.8	3,584.2	28.60	126.322	
12,600.0	12,348.3	9,092.0	8,727.0	43.4	36.7	-1.30	67.2	-223.2	3,623.7	3,595.0	28.71	126.206	
12,650.0	12,356.6	9,092.0	8,727.0	43.4	36.7	-1.29	67.2	-223.2	3,630.5	3,601.7	28.80	126.078	
12,700.0	12,360.6	9,092.0	8,727.0	43.5	36.7	-1.28	67.2	-223.2	3,633.7	3,604.8	28.91	125.677	
12,720.8	12,361.0	9,106.3	8,727.0	43.5	36.9	-1.21	81.2	-220.8	3,633.9	3,604.9	28.99	125.334	
12,800.0	12,361.0	9,180.1	8,727.0	43.7	37.8	-0.87	154.1	-209.5	3,633.4	3,604.1	29.37	123.726	
12,900.0	12,361.0	9,275.6	8,727.0	43.9	39.1	-0.51	248.9	-197.6	3,633.1	3,603.2	29.92	121.411	
13,000.0	12,361.0	9,373.2	8,727.0	44.2	40.6	-0.24	346.1	-188.7	3,633.0	3,602.5	30.57	118.837	
13,100.0	12,361.0	9,472.3	8,727.0	44.6	42.3	-0.07	445.0	-183.1	3,633.0	3,601.7	31.30	116.078	
13,167.2	12,361.0	9,539.3	8,727.0	44.9	43.5	-0.02	512.0	-181.3	3,633.0	3,601.2	31.83	114.152	
13,200.0	12,361.0	9,572.1	8,727.0	45.0	44.1	-0.01	544.9	-181.0	3,633.0	3,600.9	32.09	113.200	
13,247.6	12,361.0	9,619.7	8,727.0	45.2	44.9	0.00	592.4	-181.2	3,633.0	3,600.5	32.49	111.803	
13,300.0	12,361.0	9,672.1	8,727.0	45.5	45.9	0.00	644.8	-181.7	3,633.0	3,600.1	32.95	110.266	
13,400.0	12,361.0	9,772.1	8,727.0	46.0	48.0	0.00	744.8	-182.7	3,633.0	3,599.1	33.85	107.319	
13,500.0	12,361.0	9,872.1	8,727.0	46.6	50.1	0.00	844.8	-183.7	3,633.0	3,598.2	34.80	104.389	
13,600.0	12,361.0	9,972.1	8,727.0	47.2	52.3	0.00	944.8	-184.7	3,633.0	3,597.2	35.79	101.498	
13,700.0	12,361.0	10,072.1	8,727.0	47.8	54.6	0.00	1,044.8	-185.7	3,633.0	3,596.2	36.82	98.660	
13,800.0	12,361.0	10,172.1	8,727.0	48.6	57.0	0.00	1,144.8	-186.7	3,633.0	3,595.1	37.89	95.888	
13,900.0	12,361.0	10,272.1	8,727.0	49.3	59.5	0.00	1,244.8	-187.6	3,633.0	3,594.0	38.98	93.192	
14,000.0	12,361.0	10,372.1	8,727.0	50.1	62.0	0.00	1,344.8	-188.6	3,633.0	3,592.9	40.11	90.577	
14,100.0	12,361.0	10,472.1	8,727.0	51.0	64.5	0.00	1,444.8	-189.6	3,633.0	3,591.7	41.26	88.047	
14,200.0	12,361.0	10,572.1	8,727.0	51.9	67.1	0.00	1,544.8	-190.6	3,633.0	3,590.6	42.44	85.604	
14,300.0	12,361.0	10,672.1	8,727.0	52.8	69.8	0.00	1,644.8	-191.6	3,633.0	3,589.4	43.64	83.250	
14,400.0	12,361.0	10,772.1	8,727.0	53.7	72.4	0.00	1,744.8	-192.6	3,633.0	3,588.1	44.86	80.983	
14,500.0	12,361.0	10,872.1	8,727.0	54.7	75.1	0.00	1,844.8	-193.6	3,633.0	3,586.9	46.10	78.803	
14,600.0	12,361.0	10,972.1	8,727.0	55.7	77.9	0.00	1,944.8	-194.6	3,633.0	3,585.6	47.36	76.708	
14,700.0	12,361.0	11,072.1	8,727.0	56.8	80.6	0.00	2,044.8	-195.6	3,633.0	3,584.4	48.64	74.696	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #024H - 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
14,800.0	12,361.0	11,172.1	8,727.0	57.9	83.4	0.00	2,144.8	-196.6	3,633.0	3,583.1	49.93	72.764	
14,900.0	12,361.0	11,272.1	8,727.0	59.0	86.2	0.00	2,244.8	-197.6	3,633.0	3,581.8	51.23	70.909	
15,000.0	12,361.0	11,372.1	8,727.0	60.1	89.0	0.00	2,344.8	-198.6	3,633.0	3,580.4	52.55	69.129	
15,100.0	12,361.0	11,472.1	8,727.0	61.3	91.9	0.00	2,444.8	-199.6	3,633.0	3,579.1	53.89	67.420	
15,200.0	12,361.0	11,572.1	8,727.0	62.4	94.7	0.00	2,544.8	-200.6	3,633.0	3,577.8	55.23	65.779	
15,300.0	12,361.0	11,672.1	8,727.0	63.6	97.6	0.00	2,644.7	-201.6	3,633.0	3,576.4	56.58	64.205	
15,400.0	12,361.0	11,772.1	8,727.0	64.9	100.5	0.00	2,744.7	-202.6	3,633.0	3,575.1	57.95	62.693	
15,500.0	12,361.0	11,872.1	8,727.0	66.1	103.4	0.00	2,844.7	-203.6	3,633.0	3,573.7	59.32	61.240	
15,600.0	12,361.0	11,972.1	8,727.0	67.4	106.3	0.00	2,944.7	-204.5	3,633.0	3,572.3	60.71	59.845	
15,700.0	12,361.0	12,072.1	8,727.0	68.6	109.2	0.00	3,044.7	-205.5	3,633.0	3,570.9	62.10	58.504	
15,800.0	12,361.0	12,172.1	8,727.0	69.9	112.1	0.00	3,144.7	-206.5	3,633.0	3,569.5	63.50	57.214	
15,900.0	12,361.0	12,272.1	8,727.0	71.2	115.0	0.00	3,244.7	-207.5	3,633.0	3,568.1	64.91	55.974	
16,000.0	12,361.0	12,372.1	8,727.0	72.5	117.9	0.00	3,344.7	-208.5	3,633.0	3,566.7	66.32	54.781	
16,100.0	12,361.0	12,472.1	8,727.0	73.9	120.9	0.00	3,444.7	-209.5	3,633.0	3,565.3	67.74	53.632	
16,200.0	12,361.0	12,572.1	8,727.0	75.2	123.8	0.00	3,544.7	-210.5	3,633.0	3,563.8	69.17	52.526	
16,300.0	12,361.0	12,672.1	8,727.0	76.6	126.8	0.00	3,644.7	-211.5	3,633.0	3,562.4	70.60	51.460	
16,400.0	12,361.0	12,772.1	8,727.0	77.9	129.8	0.00	3,744.7	-212.5	3,633.0	3,561.0	72.04	50.433	
16,500.0	12,361.0	12,872.1	8,727.0	79.3	132.7	0.00	3,844.7	-213.5	3,633.0	3,559.5	73.48	49.442	
16,600.0	12,361.0	12,972.1	8,727.0	80.7	135.7	0.00	3,944.7	-214.5	3,633.0	3,558.1	74.93	48.487	
16,700.0	12,361.0	13,072.1	8,727.0	82.1	138.7	0.00	4,044.7	-215.5	3,633.0	3,556.6	76.38	47.565	
16,800.0	12,361.0	13,172.1	8,727.0	83.5	141.6	0.00	4,144.7	-216.5	3,633.0	3,555.2	77.84	46.675	
16,900.0	12,361.0	13,272.1	8,727.0	84.9	144.6	0.00	4,244.7	-217.5	3,633.0	3,553.7	79.30	45.815	
17,000.0	12,361.0	13,372.1	8,727.0	86.4	147.6	0.00	4,344.7	-218.5	3,633.0	3,552.2	80.76	44.984	
17,100.0	12,361.0	13,472.1	8,727.0	87.8	150.6	0.00	4,444.7	-219.5	3,633.0	3,550.8	82.23	44.180	
17,200.0	12,361.0	13,572.1	8,727.0	89.2	153.6	0.00	4,544.7	-220.5	3,633.0	3,549.3	83.70	43.403	
17,300.0	12,361.0	13,672.1	8,727.0	90.7	156.6	0.00	4,644.6	-221.5	3,633.0	3,547.8	85.18	42.651	
17,400.0	12,361.0	13,772.1	8,727.0	92.2	159.6	0.00	4,744.6	-222.4	3,633.0	3,546.3	86.66	41.924	
17,500.0	12,361.0	13,872.1	8,727.0	93.6	162.6	0.00	4,844.6	-223.4	3,633.0	3,544.9	88.14	41.219	
17,600.0	12,361.0	13,972.1	8,727.0	95.1	165.6	0.00	4,944.6	-224.4	3,633.0	3,543.4	89.62	40.536	
17,700.0	12,361.0	14,072.1	8,727.0	96.6	168.6	0.00	5,044.6	-225.4	3,633.0	3,541.9	91.11	39.874	
17,800.0	12,361.0	14,172.1	8,727.0	98.0	171.6	0.00	5,144.6	-226.4	3,633.0	3,540.4	92.60	39.232	
17,900.0	12,361.0	14,272.1	8,727.0	99.5	174.6	0.00	5,244.6	-227.4	3,633.0	3,538.9	94.09	38.610	
18,000.0	12,361.0	14,372.1	8,727.0	101.0	177.6	0.00	5,344.6	-228.4	3,633.0	3,537.4	95.59	38.006	
18,100.0	12,361.0	14,472.1	8,727.0	102.5	180.7	0.00	5,444.6	-229.4	3,633.0	3,535.9	97.09	37.420	
18,200.0	12,361.0	14,572.1	8,727.0	104.0	183.7	0.00	5,544.6	-230.4	3,633.0	3,534.4	98.59	36.851	
18,300.0	12,361.0	14,672.1	8,727.0	105.5	186.7	0.00	5,644.6	-231.4	3,633.0	3,532.9	100.09	36.298	
18,400.0	12,361.0	14,772.1	8,727.0	107.0	189.7	0.00	5,744.6	-232.4	3,633.0	3,531.4	101.59	35.761	
18,500.0	12,361.0	14,872.1	8,727.0	108.6	192.8	0.00	5,844.6	-233.4	3,633.0	3,529.9	103.10	35.239	
18,600.0	12,361.0	14,972.1	8,727.0	110.1	195.8	0.00	5,944.6	-234.4	3,633.0	3,528.4	104.60	34.731	
18,700.0	12,361.0	15,072.1	8,727.0	111.6	198.8	0.00	6,044.6	-235.4	3,633.0	3,526.9	106.11	34.237	
18,800.0	12,361.0	15,172.1	8,727.0	113.1	201.8	0.00	6,144.6	-236.4	3,633.0	3,525.4	107.62	33.756	
18,900.0	12,361.0	15,272.1	8,727.0	114.7	204.9	0.00	6,244.6	-237.4	3,633.0	3,523.9	109.14	33.288	
19,000.0	12,361.0	15,372.1	8,727.0	116.2	207.9	0.00	6,344.6	-238.4	3,633.0	3,522.3	110.65	32.833	
19,100.0	12,361.0	15,472.1	8,727.0	117.7	210.9	0.00	6,444.6	-239.3	3,633.0	3,520.8	112.17	32.389	
19,200.0	12,361.0	15,572.1	8,727.0	119.3	214.0	0.00	6,544.6	-240.3	3,633.0	3,519.3	113.68	31.957	
19,300.0	12,361.0	15,672.1	8,727.0	120.8	217.0	0.00	6,644.5	-241.3	3,633.0	3,517.8	115.20	31.536	
19,400.0	12,361.0	15,772.1	8,727.0	122.4	220.0	0.00	6,744.5	-242.3	3,633.0	3,516.3	116.72	31.125	
19,500.0	12,361.0	15,872.1	8,727.0	123.9	223.1	0.00	6,844.5	-243.3	3,633.0	3,514.8	118.24	30.725	
19,600.0	12,361.0	15,972.1	8,727.0	125.5	226.1	0.00	6,944.5	-244.3	3,633.0	3,513.2	119.76	30.335	
19,700.0	12,361.0	16,072.1	8,727.0	127.0	229.1	0.00	7,044.5	-245.3	3,633.0	3,511.7	121.29	29.954	
19,800.0	12,361.0	16,172.1	8,727.0	128.6	232.2	0.00	7,144.5	-246.3	3,633.0	3,510.2	122.81	29.582	
19,900.0	12,361.0	16,272.1	8,727.0	130.1	235.2	0.00	7,244.5	-247.3	3,633.0	3,508.7	124.34	29.219	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #024H - 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
20,000.0	12,361.0	16,372.1	8,727.0	131.7	238.3	0.00	7,344.5	-248.3	3,633.0	3,507.1	125.86	28.864	
20,100.0	12,361.0	16,472.1	8,727.0	133.3	241.3	0.00	7,444.5	-249.3	3,633.0	3,505.6	127.39	28.518	
20,200.0	12,361.0	16,572.1	8,727.0	134.8	244.4	0.00	7,544.5	-250.3	3,633.0	3,504.1	128.92	28.180	
20,300.0	12,361.0	16,672.1	8,727.0	136.4	247.4	0.00	7,644.5	-251.3	3,633.0	3,502.5	130.45	27.850	
20,400.0	12,361.0	16,772.1	8,727.0	138.0	250.5	0.00	7,744.5	-252.3	3,633.0	3,501.0	131.98	27.527	
20,500.0	12,361.0	16,872.1	8,727.0	139.5	253.5	0.00	7,844.5	-253.3	3,633.0	3,499.5	133.51	27.211	
20,600.0	12,361.0	16,972.1	8,727.0	141.1	256.5	0.00	7,944.5	-254.3	3,633.0	3,498.0	135.05	26.902	
20,700.0	12,361.0	17,072.1	8,727.0	142.7	259.6	0.00	8,044.5	-255.3	3,633.0	3,496.4	136.58	26.600	
20,800.0	12,361.0	17,172.1	8,727.0	144.3	262.6	0.00	8,144.5	-256.3	3,633.0	3,494.9	138.11	26.305	
20,900.0	12,361.0	17,272.1	8,727.0	145.8	265.7	0.00	8,244.5	-257.2	3,633.0	3,493.4	139.65	26.016	
21,000.0	12,361.0	17,372.1	8,727.0	147.4	268.7	0.00	8,344.5	-258.2	3,633.0	3,491.8	141.18	25.733	
21,100.0	12,361.0	17,472.1	8,727.0	149.0	271.8	0.00	8,444.5	-259.2	3,633.0	3,490.3	142.72	25.456	
21,200.0	12,361.0	17,572.1	8,727.0	150.6	274.8	0.00	8,544.5	-260.2	3,633.0	3,488.7	144.26	25.184	
21,300.0	12,361.0	17,672.1	8,727.0	152.2	277.9	0.00	8,644.4	-261.2	3,633.0	3,487.2	145.79	24.919	
21,400.0	12,361.0	17,772.1	8,727.0	153.8	280.9	0.00	8,744.4	-262.2	3,633.0	3,485.7	147.33	24.659	
21,500.0	12,361.0	17,872.1	8,727.0	155.4	284.0	0.00	8,844.4	-263.2	3,633.0	3,484.1	148.87	24.404	
21,600.0	12,361.0	17,972.1	8,727.0	156.9	287.0	0.00	8,944.4	-264.2	3,633.0	3,482.6	150.41	24.154	
21,700.0	12,361.0	18,072.1	8,727.0	158.5	290.1	0.00	9,044.4	-265.2	3,633.0	3,481.0	151.95	23.909	
21,800.0	12,361.0	18,172.1	8,727.0	160.1	293.2	0.00	9,144.4	-266.2	3,633.0	3,479.5	153.49	23.669	
21,900.0	12,361.0	18,272.1	8,727.0	161.7	296.2	0.00	9,244.4	-267.2	3,633.0	3,478.0	155.03	23.434	
22,000.0	12,361.0	18,372.1	8,727.0	163.3	299.3	0.00	9,344.4	-268.2	3,633.0	3,476.4	156.57	23.203	
22,100.0	12,361.0	18,472.1	8,727.0	164.9	302.3	0.00	9,444.4	-269.2	3,633.0	3,474.9	158.12	22.977	
22,200.0	12,361.0	18,572.1	8,727.0	166.5	305.4	0.00	9,544.4	-270.2	3,633.0	3,473.3	159.66	22.755	
22,300.0	12,361.0	18,672.1	8,727.0	168.1	308.4	0.00	9,644.4	-271.2	3,633.0	3,471.8	161.20	22.537	
22,400.0	12,361.0	18,772.1	8,727.0	169.7	311.5	0.00	9,744.4	-272.2	3,633.0	3,470.3	162.75	22.323	
22,500.0	12,361.0	18,872.1	8,727.0	171.3	314.5	0.00	9,844.4	-273.2	3,633.0	3,468.7	164.29	22.113	
22,600.0	12,361.0	18,972.1	8,727.0	172.9	317.1	0.00	9,944.4	-274.1	3,633.0	3,467.4	165.56	21.944	
22,613.5	12,361.0	18,985.6	8,727.0	173.1	317.5	0.00	9,957.9	-274.3	3,633.0	3,467.3	165.71	21.924	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #104H - 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	-76.45	29.0	-120.2	123.6				
100.0	100.0	101.0	99.0	0.1	0.1	-76.45	29.0	-120.2	123.6	123.4	0.26	475.756	
200.0	200.0	201.0	199.0	0.5	0.5	-76.45	29.0	-120.2	123.6	122.7	0.98	126.577	
300.0	300.0	301.0	299.0	0.8	0.8	-76.45	29.0	-120.2	123.6	122.0	1.69	73.000	
400.0	400.0	401.0	399.0	1.2	1.2	-76.45	29.0	-120.2	123.6	121.2	2.41	51.290	
500.0	500.0	501.0	499.0	1.6	1.6	-76.45	29.0	-120.2	123.6	120.5	3.13	39.533	
600.0	600.0	601.0	599.0	1.9	1.9	-76.45	29.0	-120.2	123.6	119.8	3.84	32.161	
700.0	700.0	701.0	699.0	2.3	2.3	-76.45	29.0	-120.2	123.6	119.1	4.56	27.106	
800.0	800.0	799.0	799.0	2.6	2.6	-76.45	29.0	-120.2	123.6	118.4	5.27	23.456	CC
900.0	900.0	897.4	897.4	3.0	3.0	-76.70	28.6	-120.9	124.3	118.3	5.97	20.814	ES
1,000.0	1,000.0	995.8	995.8	3.4	3.3	-77.47	27.4	-123.1	126.2	119.5	6.66	18.943	
1,100.0	1,100.0	1,094.1	1,093.9	3.7	3.6	-78.71	25.3	-126.8	129.4	122.0	7.35	17.597	
1,200.0	1,200.0	1,192.1	1,191.8	4.1	4.0	-80.33	22.5	-131.9	134.0	126.0	8.05	16.651	
1,300.0	1,300.0	1,290.0	1,289.4	4.4	4.3	-82.26	18.8	-138.5	140.1	131.4	8.75	16.022	
1,400.0	1,400.0	1,387.6	1,386.5	4.8	4.7	-84.40	14.4	-146.5	147.8	138.3	9.44	15.651	
1,500.0	1,500.0	1,484.8	1,483.2	5.1	5.0	-86.64	9.1	-155.9	157.0	146.9	10.13	15.492	
1,600.0	1,600.0	1,581.7	1,579.3	5.5	5.4	85.94	3.1	-166.8	167.9	157.1	10.81	15.532	
1,700.0	1,700.0	1,678.3	1,674.8	5.8	5.8	84.36	-3.6	-178.9	180.2	168.8	11.47	15.720	
1,800.0	1,799.9	1,774.5	1,769.8	6.1	6.2	83.24	-11.1	-192.5	194.0	181.9	12.13	15.998	
1,900.0	1,899.7	1,872.6	1,866.4	6.5	6.6	82.55	-19.4	-207.3	208.6	195.8	12.81	16.285	
2,000.0	1,999.4	1,971.6	1,963.9	6.8	7.0	82.37	-27.7	-222.4	223.1	209.6	13.51	16.509	
2,100.0	2,098.9	2,070.5	2,061.3	7.2	7.4	82.61	-36.0	-237.4	237.4	223.1	14.23	16.683	
2,200.0	2,198.3	2,169.5	2,158.8	7.5	7.8	83.21	-44.4	-252.4	251.4	236.5	14.95	16.814	
2,300.0	2,297.4	2,268.4	2,256.2	7.9	8.2	84.12	-52.7	-267.4	265.3	249.6	15.69	16.909	
2,400.0	2,396.4	2,367.3	2,353.6	8.2	8.6	85.23	-61.1	-282.4	279.3	262.8	16.44	16.984	
2,500.0	2,495.5	2,466.2	2,451.0	8.6	9.1	86.24	-69.4	-297.5	293.3	276.1	17.20	17.050	
2,600.0	2,594.5	2,565.1	2,548.4	9.0	9.5	87.16	-77.7	-312.5	307.4	289.4	17.97	17.107	
2,700.0	2,693.5	2,663.9	2,645.7	9.4	9.9	88.00	-86.0	-327.5	321.5	302.8	18.74	17.158	
2,800.0	2,792.5	2,762.8	2,743.1	9.7	10.4	88.77	-94.4	-342.5	335.8	316.3	19.52	17.203	
2,900.0	2,891.6	2,861.7	2,840.5	10.1	10.8	89.47	-102.7	-357.5	350.1	329.8	20.30	17.243	
3,000.0	2,990.6	2,960.6	2,937.9	10.5	11.2	90.12	-111.0	-372.5	364.4	343.3	21.09	17.278	
3,100.0	3,089.6	3,059.5	3,035.3	10.9	11.7	90.72	-119.4	-387.6	378.8	356.9	21.88	17.310	
3,200.0	3,188.6	3,158.4	3,132.7	11.3	12.1	91.28	-127.7	-402.6	393.2	370.5	22.68	17.338	
3,300.0	3,287.7	3,257.3	3,230.0	11.7	12.6	91.80	-136.0	-417.6	407.6	384.2	23.48	17.363	
3,400.0	3,386.7	3,356.1	3,327.4	12.1	13.0	92.28	-144.4	-432.6	422.1	397.8	24.28	17.386	
3,500.0	3,485.7	3,455.0	3,424.8	12.5	13.4	92.73	-152.7	-447.6	436.6	411.5	25.08	17.407	
3,600.0	3,584.8	3,553.9	3,522.2	12.9	13.9	93.15	-161.0	-462.6	451.2	425.3	25.89	17.426	
3,700.0	3,683.8	3,652.8	3,619.6	13.3	14.3	93.54	-169.4	-477.6	465.7	439.0	26.70	17.443	
3,800.0	3,782.8	3,751.7	3,717.0	13.7	14.8	93.91	-177.7	-492.7	480.3	452.8	27.51	17.458	
3,900.0	3,881.8	3,850.6	3,814.3	14.1	15.2	94.26	-186.0	-507.7	494.9	466.5	28.32	17.472	
4,000.0	3,980.9	3,949.5	3,911.7	14.5	15.6	94.59	-194.4	-522.7	509.5	480.3	29.14	17.485	
4,100.0	4,079.9	4,048.3	4,009.1	14.9	16.1	94.90	-202.7	-537.7	524.1	494.1	29.95	17.497	
4,200.0	4,178.9	4,147.2	4,106.5	15.3	16.5	95.20	-211.0	-552.7	538.7	508.0	30.77	17.508	
4,300.0	4,277.9	4,246.1	4,203.9	15.8	17.0	95.47	-219.3	-567.7	553.4	521.8	31.59	17.518	
4,400.0	4,377.0	4,345.0	4,301.3	16.2	17.4	95.74	-227.7	-582.7	568.1	535.6	32.41	17.528	
4,500.0	4,476.0	4,443.9	4,398.6	16.6	17.9	95.99	-236.0	-597.8	582.7	549.5	33.23	17.536	
4,600.0	4,575.0	4,542.8	4,496.0	17.0	18.3	96.23	-244.3	-612.8	597.4	563.4	34.05	17.544	
4,700.0	4,674.0	4,641.7	4,593.4	17.4	18.8	96.45	-252.7	-627.8	612.1	577.2	34.88	17.551	
4,800.0	4,773.1	4,740.5	4,690.8	17.8	19.2	96.67	-261.0	-642.8	626.8	591.1	35.70	17.558	
4,900.0	4,872.1	4,839.4	4,788.2	18.2	19.7	96.88	-269.3	-657.8	641.5	605.0	36.52	17.565	
5,000.0	4,971.1	4,938.3	4,885.6	18.6	20.1	97.07	-277.7	-672.8	656.2	618.9	37.35	17.571	
5,100.0	5,070.2	5,037.2	4,983.0	19.1	20.5	97.26	-286.0	-687.8	671.0	632.8	38.18	17.576	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #104H - 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
5,200.0	5,169.2	5,136.1	5,080.3	19.5	21.0	97.44	-294.3	-702.9	685.7	646.7	39.00	17.581	
5,221.2	5,190.2	5,157.1	5,101.0	19.6	21.1	97.48	-296.1	-706.0	688.8	649.7	39.18	17.582	
5,300.0	5,268.3	5,235.0	5,177.7	19.9	21.4	97.72	-302.7	-717.9	700.3	660.5	39.82	17.587	
5,400.0	5,367.8	5,334.0	5,275.2	20.3	21.9	97.83	-311.0	-732.9	714.6	674.0	40.62	17.593	
5,500.0	5,467.4	5,432.9	5,372.6	20.7	22.3	97.74	-319.3	-747.9	728.6	687.2	41.39	17.602	
5,600.0	5,567.3	5,531.8	5,470.0	21.0	22.8	97.45	-327.7	-762.9	742.2	700.1	42.14	17.613	
5,700.0	5,667.2	5,630.5	5,567.2	21.4	23.2	96.97	-336.0	-777.9	755.6	712.8	42.86	17.628	
5,754.5	5,721.8	5,684.2	5,620.2	21.5	23.5	-78.03	-340.5	-786.1	762.8	719.6	43.24	17.641	
5,800.0	5,767.2	5,729.0	5,664.2	21.7	23.7	-78.41	-344.3	-792.9	768.9	725.3	43.55	17.655	
5,900.0	5,867.2	5,827.5	5,761.2	22.0	24.1	-79.24	-352.6	-807.8	782.2	738.0	44.22	17.688	
6,000.0	5,967.2	5,926.0	5,858.2	22.3	24.6	-80.03	-360.9	-822.8	795.7	750.8	44.90	17.723	
6,100.0	6,067.2	6,024.4	5,955.2	22.6	25.0	-80.80	-369.2	-837.7	809.4	763.8	45.57	17.760	
6,200.0	6,167.2	6,122.9	6,052.2	22.9	25.5	-81.55	-377.5	-852.7	823.1	776.9	46.25	17.799	
6,300.0	6,267.2	6,221.4	6,149.2	23.2	25.9	-82.26	-385.8	-867.7	837.1	790.1	46.92	17.840	
6,400.0	6,367.2	6,319.9	6,246.1	23.6	26.4	-82.96	-394.1	-882.6	851.1	803.5	47.60	17.881	
6,500.0	6,467.2	6,418.4	6,343.1	23.9	26.8	-83.63	-402.4	-897.6	865.3	817.0	48.27	17.924	
6,600.0	6,567.2	6,516.8	6,440.1	24.2	27.2	-84.29	-410.7	-912.5	879.6	830.6	48.95	17.968	
6,700.0	6,667.2	6,615.3	6,537.1	24.5	27.7	-84.92	-419.0	-927.5	894.0	844.3	49.63	18.013	
6,800.0	6,767.2	6,713.8	6,634.1	24.8	28.1	-85.53	-427.3	-942.4	908.5	858.2	50.31	18.058	
6,900.0	6,867.2	6,812.3	6,731.1	25.2	28.6	-86.12	-435.6	-957.4	923.1	872.1	50.99	18.103	
7,000.0	6,967.2	6,910.8	6,828.1	25.5	29.0	-86.69	-443.9	-972.3	937.7	886.1	51.67	18.149	
7,100.0	7,067.2	7,009.2	6,925.0	25.8	29.5	-87.25	-452.2	-987.3	952.5	900.2	52.35	18.195	
7,200.0	7,167.2	7,107.7	7,022.0	26.1	29.9	-87.79	-460.4	-1,002.2	967.4	914.4	53.03	18.242	
7,300.0	7,267.2	7,206.2	7,119.0	26.5	30.4	-88.31	-468.7	-1,017.2	982.3	928.6	53.71	18.288	
7,400.0	7,367.2	7,325.0	7,236.2	26.8	30.9	-88.89	-478.3	-1,034.3	996.7	942.1	54.55	18.269	
7,500.0	7,467.2	7,453.4	7,363.4	27.1	31.4	-89.39	-486.6	-1,049.3	1,008.3	952.9	55.42	18.193	
7,600.0	7,567.2	7,582.8	7,492.2	27.5	31.9	-89.75	-492.9	-1,060.7	1,017.0	960.8	56.25	18.082	
7,700.0	7,667.2	7,713.0	7,622.0	27.8	32.4	-89.99	-497.1	-1,068.2	1,022.8	965.8	57.02	17.939	
7,800.0	7,767.2	7,843.6	7,752.6	28.1	32.8	-90.10	-499.1	-1,071.9	1,025.7	967.9	57.73	17.768	
7,900.0	7,867.2	7,957.3	7,866.2	28.4	33.2	-90.11	-499.3	-1,072.3	1,026.0	967.6	58.38	17.575	
8,000.0	7,967.2	8,057.3	7,966.2	28.8	33.5	-90.11	-499.3	-1,072.3	1,026.0	966.9	59.02	17.384	
8,100.0	8,067.2	8,157.3	8,066.2	29.1	33.7	-90.11	-499.3	-1,072.3	1,026.0	966.3	59.66	17.197	
8,200.0	8,167.2	8,257.3	8,166.2	29.4	34.0	-90.11	-499.3	-1,072.3	1,026.0	965.7	60.30	17.014	
8,300.0	8,267.2	8,357.3	8,266.2	29.8	34.3	-90.11	-499.3	-1,072.3	1,026.0	965.0	60.95	16.834	
8,400.0	8,367.2	8,457.3	8,366.2	30.1	34.6	-90.11	-499.3	-1,072.3	1,026.0	964.4	61.59	16.657	
8,500.0	8,467.2	8,557.3	8,466.2	30.4	34.9	-90.11	-499.3	-1,072.3	1,026.0	963.7	62.24	16.483	
8,600.0	8,567.2	8,657.3	8,566.2	30.8	35.2	-90.11	-499.3	-1,072.3	1,026.0	963.1	62.89	16.313	
8,700.0	8,667.2	8,757.3	8,666.2	31.1	35.5	-90.11	-499.3	-1,072.3	1,026.0	962.4	63.54	16.146	
8,800.0	8,767.2	8,857.3	8,766.2	31.4	35.8	-90.11	-499.3	-1,072.3	1,026.0	961.8	64.20	15.982	
8,900.0	8,867.2	8,957.3	8,866.2	31.8	36.1	-90.11	-499.3	-1,072.3	1,026.0	961.1	64.85	15.821	
8,900.3	8,867.6	8,957.6	8,866.6	31.8	36.1	-90.11	-499.3	-1,072.3	1,026.0	961.1	64.85	15.820	
9,000.0	8,967.2	9,055.6	8,964.2	32.1	36.3	-89.70	-491.9	-1,072.4	1,026.0	960.5	65.51	15.663	
9,100.0	9,067.2	9,148.7	9,054.5	32.5	36.5	-88.45	-469.5	-1,072.5	1,026.6	960.4	66.17	15.515	
9,200.0	9,167.2	9,232.8	9,131.9	32.8	36.7	-86.64	-437.0	-1,072.8	1,028.7	961.9	66.81	15.398	
9,300.0	9,267.2	9,305.9	9,194.8	33.1	36.8	-84.57	-399.7	-1,073.0	1,033.8	966.4	67.36	15.346	SF
9,400.0	9,367.2	9,368.3	9,244.3	33.5	36.8	-82.49	-361.9	-1,073.3	1,043.0	975.2	67.74	15.396	
9,500.0	9,467.2	9,420.9	9,282.7	33.8	36.8	-80.53	-325.9	-1,073.5	1,057.4	989.6	67.87	15.581	
9,600.0	9,567.2	9,465.2	9,312.3	34.2	36.8	-78.75	-293.0	-1,073.8	1,077.9	1,010.2	67.68	15.926	
9,700.0	9,667.2	9,500.0	9,333.8	34.5	36.8	-77.29	-265.6	-1,074.0	1,104.6	1,037.5	67.14	16.453	
9,800.0	9,767.2	9,534.2	9,353.2	34.8	36.8	-75.81	-237.5	-1,074.2	1,137.8	1,071.4	66.34	17.150	
9,900.0	9,867.2	9,561.3	9,367.3	35.2	36.8	-74.61	-214.4	-1,074.3	1,177.1	1,111.9	65.25	18.039	
10,000.0	9,967.2	9,584.5	9,378.6	35.5	36.7	-73.56	-194.0	-1,074.5	1,222.4	1,158.4	63.96	19.111	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #104H - 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
10,100.0	10,067.2	9,600.0	9,385.6	35.9	36.7	-72.86	-180.3	-1,074.6	1,273.2	1,210.7	62.47	20.381	
10,200.0	10,167.2	9,622.3	9,395.1	36.2	36.7	-71.84	-160.1	-1,074.7	1,328.8	1,267.8	61.02	21.779	
10,300.0	10,267.2	9,650.0	9,405.8	36.5	36.7	-70.57	-134.5	-1,074.9	1,389.2	1,329.5	59.63	23.297	
10,400.0	10,367.2	9,650.0	9,405.8	36.9	36.7	-70.57	-134.5	-1,074.9	1,453.2	1,395.3	57.91	25.096	
10,500.0	10,467.2	9,650.0	9,405.8	37.2	36.7	-70.57	-134.5	-1,074.9	1,521.2	1,464.9	56.25	27.045	
10,600.0	10,567.2	9,674.6	9,414.3	37.6	36.7	-69.44	-111.4	-1,075.0	1,591.9	1,536.9	54.98	28.952	
10,700.0	10,667.2	9,700.0	9,421.9	37.9	36.6	-68.27	-87.2	-1,075.2	1,665.8	1,612.0	53.81	30.959	
10,800.0	10,767.2	9,700.0	9,421.9	38.3	36.6	-68.27	-87.2	-1,075.2	1,741.8	1,689.4	52.42	33.230	
10,900.0	10,867.2	9,700.0	9,421.9	38.6	36.6	-68.27	-87.2	-1,075.2	1,820.1	1,769.0	51.13	35.599	
11,000.0	10,967.2	9,700.0	9,421.9	38.9	36.6	-68.27	-87.2	-1,075.2	1,900.4	1,850.5	49.94	38.053	
11,100.0	11,067.2	9,700.0	9,421.9	39.3	36.6	-68.27	-87.2	-1,075.2	1,982.5	1,933.7	48.86	40.580	
11,200.0	11,167.2	9,721.6	9,427.6	39.6	36.6	-67.28	-66.4	-1,075.3	2,065.8	2,017.7	48.10	42.949	
11,300.0	11,267.2	9,727.3	9,429.0	40.0	36.6	-67.02	-60.9	-1,075.4	2,150.6	2,103.3	47.25	45.512	
11,400.0	11,367.2	9,750.0	9,433.8	40.3	36.6	-65.98	-38.7	-1,075.5	2,236.9	2,190.2	46.66	47.940	
11,500.0	11,467.2	9,750.0	9,433.8	40.7	36.6	-65.98	-38.7	-1,075.5	2,323.8	2,277.9	45.92	50.608	
11,600.0	11,567.2	9,750.0	9,433.8	41.0	36.6	-65.98	-38.7	-1,075.5	2,411.8	2,366.5	45.25	53.297	
11,700.0	11,667.2	9,750.0	9,433.8	41.4	36.6	-65.98	-38.7	-1,075.5	2,500.6	2,456.0	44.66	55.997	
11,800.0	11,767.2	9,750.0	9,433.8	41.7	36.6	-65.98	-38.7	-1,075.5	2,590.3	2,546.2	44.13	58.700	
11,820.8	11,788.0	9,750.0	9,433.8	41.8	36.6	-65.98	-38.7	-1,075.5	2,609.0	2,565.0	44.03	59.261	
11,850.0	11,817.2	9,750.0	9,433.8	41.9	36.6	-51.69	-38.7	-1,075.5	2,635.2	2,591.3	43.88	60.055	
11,900.0	11,867.0	9,750.0	9,433.8	42.0	36.6	-44.79	-38.7	-1,075.5	2,679.2	2,635.6	43.62	61.427	
11,950.0	11,916.1	9,750.0	9,433.8	42.2	36.6	-39.31	-38.7	-1,075.5	2,721.9	2,678.5	43.34	62.807	
12,000.0	11,964.3	9,750.0	9,433.8	42.3	36.6	-34.95	-38.7	-1,075.5	2,763.0	2,719.9	43.05	64.183	
12,050.0	12,011.2	9,750.0	9,433.8	42.5	36.6	-31.47	-38.7	-1,075.5	2,802.3	2,759.5	42.75	65.546	
12,100.0	12,056.3	9,771.6	9,437.7	42.6	36.6	-28.34	-17.4	-1,075.7	2,839.1	2,796.5	42.61	66.624	
12,150.0	12,099.4	9,777.1	9,438.5	42.7	36.6	-26.05	-12.0	-1,075.7	2,873.9	2,831.5	42.35	67.861	
12,200.0	12,140.2	9,800.0	9,441.5	42.8	36.5	-24.00	10.7	-1,075.9	2,906.5	2,864.3	42.20	68.867	
12,250.0	12,178.2	9,800.0	9,441.5	42.9	36.5	-22.56	10.7	-1,075.9	2,935.9	2,894.0	41.91	70.056	
12,300.0	12,213.3	9,800.0	9,441.5	42.9	36.5	-21.38	10.7	-1,075.9	2,962.7	2,921.0	41.63	71.170	
12,350.0	12,245.1	9,800.0	9,441.5	43.0	36.5	-20.41	10.7	-1,075.9	2,986.5	2,945.1	41.37	72.194	
12,400.0	12,273.5	9,800.0	9,441.5	43.1	36.5	-19.63	10.7	-1,075.9	3,007.4	2,966.2	41.13	73.111	
12,450.0	12,298.2	9,800.0	9,441.5	43.1	36.5	-19.00	10.7	-1,075.9	3,025.1	2,984.2	40.93	73.908	
12,500.0	12,319.0	9,825.7	9,443.7	43.2	36.5	-18.38	36.3	-1,076.1	3,039.1	2,998.2	40.87	74.358	
12,550.0	12,335.7	9,850.0	9,444.8	43.3	36.5	-17.93	60.6	-1,076.2	3,050.3	3,009.5	40.82	74.721	
12,600.0	12,348.3	9,850.0	9,444.8	43.4	36.5	-17.70	60.6	-1,076.2	3,057.6	3,016.9	40.71	75.099	
12,650.0	12,356.6	9,850.0	9,444.8	43.4	36.5	-17.58	60.6	-1,076.2	3,061.6	3,020.9	40.65	75.309	
12,700.0	12,360.6	9,857.6	9,444.9	43.5	36.5	-17.54	68.2	-1,076.3	3,062.2	3,021.5	40.66	75.313	
12,720.8	12,361.0	9,863.0	9,445.0	43.5	36.5	-17.54	73.6	-1,076.3	3,061.4	3,020.7	40.68	75.258	
12,800.0	12,361.0	9,926.4	9,445.0	43.7	36.4	-17.45	136.9	-1,076.9	3,058.0	3,017.1	40.89	74.783	
12,900.0	12,361.0	10,025.7	9,445.0	43.9	36.4	-17.32	236.3	-1,077.9	3,054.6	3,013.3	41.30	73.962	
13,000.0	12,361.0	10,125.5	9,445.0	44.2	36.5	-17.23	336.0	-1,078.9	3,052.4	3,010.6	41.83	72.975	
13,100.0	12,361.0	10,225.4	9,445.0	44.6	36.7	-17.18	435.9	-1,079.9	3,051.2	3,008.7	42.47	71.845	
13,167.2	12,361.0	10,307.5	9,445.0	44.9	36.9	-17.17	503.1	-1,080.6	3,050.9	3,007.9	43.03	70.903	
13,200.0	12,361.0	10,325.4	9,445.0	45.0	37.0	-17.17	535.9	-1,080.9	3,050.9	3,007.7	43.22	70.595	
13,300.0	12,361.0	10,425.4	9,445.0	45.5	37.5	-17.17	635.9	-1,081.9	3,050.9	3,006.9	44.04	69.284	
13,400.0	12,361.0	10,525.4	9,445.0	46.0	38.0	-17.17	735.9	-1,082.9	3,050.9	3,006.0	44.91	67.935	
13,500.0	12,361.0	10,625.4	9,445.0	46.6	38.7	-17.17	835.9	-1,083.9	3,050.9	3,005.1	45.84	66.563	
13,600.0	12,361.0	10,725.4	9,445.0	47.2	39.4	-17.17	935.9	-1,084.9	3,050.9	3,004.1	46.81	65.175	
13,700.0	12,361.0	10,825.4	9,445.0	47.8	40.1	-17.17	1,035.9	-1,085.9	3,050.9	3,003.1	47.83	63.783	
13,800.0	12,361.0	10,925.4	9,445.0	48.6	41.0	-17.17	1,135.9	-1,086.9	3,050.9	3,002.0	48.90	62.393	
13,900.0	12,361.0	11,025.4	9,445.0	49.3	41.8	-17.17	1,235.9	-1,087.8	3,050.9	3,000.9	50.00	61.013	
14,000.0	12,361.0	11,125.4	9,445.0	50.1	42.7	-17.17	1,335.9	-1,088.8	3,050.9	2,999.8	51.15	59.649	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #104H - 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
14,100.0	12,361.0	11,225.4	9,445.0	51.0	43.7	-17.17	1,435.9	-1,089.8	3,050.9	2,998.6	52.33	58.305	
14,200.0	12,361.0	11,325.4	9,445.0	51.9	44.7	-17.17	1,535.9	-1,090.8	3,050.9	2,997.4	53.54	56.984	
14,300.0	12,361.0	11,425.4	9,445.0	52.8	45.7	-17.17	1,635.9	-1,091.8	3,050.9	2,996.1	54.78	55.690	
14,400.0	12,361.0	11,525.4	9,445.0	53.7	46.8	-17.17	1,735.9	-1,092.8	3,050.9	2,994.9	56.06	54.426	
14,500.0	12,361.0	11,625.4	9,445.0	54.7	47.9	-17.17	1,835.9	-1,093.8	3,050.9	2,993.6	57.36	53.193	
14,600.0	12,361.0	11,725.4	9,445.0	55.7	49.0	-17.17	1,935.8	-1,094.8	3,050.9	2,992.2	58.68	51.992	
14,700.0	12,361.0	11,825.4	9,445.0	56.8	50.2	-17.17	2,035.8	-1,095.8	3,050.9	2,990.9	60.03	50.824	
14,800.0	12,361.0	11,925.4	9,445.0	57.9	51.4	-17.17	2,135.8	-1,096.8	3,050.9	2,989.5	61.40	49.689	
14,900.0	12,361.0	12,025.4	9,445.0	59.0	52.6	-17.17	2,235.8	-1,097.8	3,050.9	2,988.1	62.79	48.588	
15,000.0	12,361.0	12,125.4	9,445.0	60.1	53.8	-17.17	2,335.8	-1,098.8	3,050.9	2,986.7	64.20	47.520	
15,100.0	12,361.0	12,225.4	9,445.0	61.3	55.1	-17.17	2,435.8	-1,099.8	3,050.9	2,985.3	65.63	46.485	
15,200.0	12,361.0	12,325.4	9,445.0	62.4	56.3	-17.17	2,535.8	-1,100.7	3,050.9	2,983.8	67.08	45.483	
15,300.0	12,361.0	12,425.4	9,445.0	63.6	57.6	-17.17	2,635.8	-1,101.7	3,050.9	2,982.4	68.54	44.513	
15,400.0	12,361.0	12,525.4	9,445.0	64.9	58.9	-17.17	2,735.8	-1,102.7	3,050.9	2,980.9	70.02	43.574	
15,500.0	12,361.0	12,625.4	9,445.0	66.1	60.3	-17.17	2,835.8	-1,103.7	3,050.9	2,979.4	71.51	42.665	
15,600.0	12,361.0	12,725.4	9,445.0	67.4	61.6	-17.17	2,935.8	-1,104.7	3,050.9	2,977.9	73.01	41.786	
15,700.0	12,361.0	12,825.4	9,445.0	68.6	63.0	-17.17	3,035.8	-1,105.7	3,050.9	2,976.4	74.53	40.936	
15,800.0	12,361.0	12,925.4	9,445.0	69.9	64.3	-17.17	3,135.8	-1,106.7	3,050.9	2,974.8	76.06	40.113	
15,900.0	12,361.0	13,025.4	9,445.0	71.2	65.7	-17.16	3,235.8	-1,107.7	3,050.9	2,973.3	77.60	39.317	
16,000.0	12,361.0	13,125.4	9,445.0	72.5	67.1	-17.16	3,335.8	-1,108.7	3,050.9	2,971.7	79.15	38.547	
16,100.0	12,361.0	13,225.4	9,445.0	73.9	68.5	-17.16	3,435.8	-1,109.7	3,050.9	2,970.2	80.71	37.802	
16,200.0	12,361.0	13,325.4	9,445.0	75.2	69.9	-17.16	3,535.8	-1,110.7	3,050.9	2,968.6	82.28	37.081	
16,300.0	12,361.0	13,425.4	9,445.0	76.6	71.4	-17.16	3,635.8	-1,111.7	3,050.9	2,967.0	83.85	36.384	
16,400.0	12,361.0	13,525.4	9,445.0	77.9	72.8	-17.16	3,735.8	-1,112.6	3,050.9	2,965.4	85.44	35.709	
16,500.0	12,361.0	13,625.4	9,445.0	79.3	74.2	-17.16	3,835.8	-1,113.6	3,050.9	2,963.8	87.03	35.055	
16,600.0	12,361.0	13,725.4	9,445.0	80.7	75.7	-17.16	3,935.7	-1,114.6	3,050.9	2,962.2	88.63	34.421	
16,700.0	12,361.0	13,825.4	9,445.0	82.1	77.2	-17.16	4,035.7	-1,115.6	3,050.9	2,960.6	90.24	33.808	
16,800.0	12,361.0	13,925.4	9,445.0	83.5	78.6	-17.16	4,135.7	-1,116.6	3,050.9	2,959.0	91.86	33.214	
16,900.0	12,361.0	14,025.4	9,445.0	84.9	80.1	-17.16	4,235.7	-1,117.6	3,050.9	2,957.4	93.48	32.638	
17,000.0	12,361.0	14,125.4	9,445.0	86.4	81.6	-17.16	4,335.7	-1,118.6	3,050.9	2,955.8	95.10	32.080	
17,100.0	12,361.0	14,225.4	9,445.0	87.8	83.1	-17.16	4,435.7	-1,119.6	3,050.9	2,954.1	96.74	31.538	
17,200.0	12,361.0	14,325.4	9,445.0	89.2	84.6	-17.16	4,535.7	-1,120.6	3,050.9	2,952.5	98.37	31.013	
17,300.0	12,361.0	14,425.4	9,445.0	90.7	86.1	-17.16	4,635.7	-1,121.6	3,050.9	2,950.8	100.02	30.504	
17,400.0	12,361.0	14,525.4	9,445.0	92.2	87.6	-17.16	4,735.7	-1,122.6	3,050.9	2,949.2	101.66	30.009	
17,500.0	12,361.0	14,625.4	9,445.0	93.6	89.1	-17.16	4,835.7	-1,123.6	3,050.9	2,947.5	103.32	29.529	
17,600.0	12,361.0	14,725.4	9,445.0	95.1	90.6	-17.16	4,935.7	-1,124.6	3,050.9	2,945.9	104.97	29.063	
17,700.0	12,361.0	14,825.4	9,445.0	96.6	92.1	-17.16	5,035.7	-1,125.5	3,050.9	2,944.2	106.64	28.610	
17,800.0	12,361.0	14,925.4	9,445.0	98.0	93.6	-17.16	5,135.7	-1,126.5	3,050.9	2,942.6	108.30	28.170	
17,900.0	12,361.0	15,025.4	9,445.0	99.5	95.2	-17.16	5,235.7	-1,127.5	3,050.9	2,940.9	109.97	27.743	
18,000.0	12,361.0	15,125.4	9,445.0	101.0	96.7	-17.16	5,335.7	-1,128.5	3,050.9	2,939.2	111.64	27.327	
18,100.0	12,361.0	15,225.4	9,445.0	102.5	98.2	-17.16	5,435.7	-1,129.5	3,050.9	2,937.5	113.32	26.923	
18,200.0	12,361.0	15,325.4	9,445.0	104.0	99.8	-17.16	5,535.7	-1,130.5	3,050.9	2,935.9	115.00	26.530	
18,300.0	12,361.0	15,425.4	9,445.0	105.5	101.3	-17.16	5,635.7	-1,131.5	3,050.8	2,934.2	116.68	26.147	
18,400.0	12,361.0	15,525.4	9,445.0	107.0	102.9	-17.16	5,735.7	-1,132.5	3,050.8	2,932.5	118.37	25.775	
18,500.0	12,361.0	15,625.4	9,445.0	108.6	104.4	-17.16	5,835.7	-1,133.5	3,050.8	2,930.8	120.06	25.412	
18,600.0	12,361.0	15,725.4	9,445.0	110.1	106.0	-17.16	5,935.6	-1,134.5	3,050.8	2,929.1	121.75	25.059	
18,700.0	12,361.0	15,825.4	9,445.0	111.6	107.5	-17.16	6,035.6	-1,135.5	3,050.8	2,927.4	123.44	24.715	
18,800.0	12,361.0	15,925.4	9,445.0	113.1	109.1	-17.16	6,135.6	-1,136.5	3,050.8	2,925.7	125.14	24.380	
18,900.0	12,361.0	16,025.4	9,445.0	114.7	110.7	-17.16	6,235.6	-1,137.5	3,050.8	2,924.0	126.84	24.053	
19,000.0	12,361.0	16,125.4	9,445.0	116.2	112.2	-17.16	6,335.6	-1,138.4	3,050.8	2,922.3	128.54	23.735	
19,100.0	12,361.0	16,225.4	9,445.0	117.7	113.8	-17.16	6,435.6	-1,139.4	3,050.8	2,920.6	130.24	23.424	
19,200.0	12,361.0	16,325.4	9,445.0	119.3	115.4	-17.16	6,535.6	-1,140.4	3,050.8	2,918.9	131.95	23.121	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #104H - 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
19,300.0	12,361.0	16,425.4	9,445.0	120.8	116.9	-17.16	6,635.6	-1,141.4	3,050.8	2,917.2	133.66	22.825	
19,400.0	12,361.0	16,525.4	9,445.0	122.4	118.5	-17.16	6,735.6	-1,142.4	3,050.8	2,915.5	135.37	22.537	
19,500.0	12,361.0	16,625.4	9,445.0	123.9	120.1	-17.16	6,835.6	-1,143.4	3,050.8	2,913.7	137.08	22.255	
19,600.0	12,361.0	16,725.4	9,445.0	125.5	121.6	-17.16	6,935.6	-1,144.4	3,050.8	2,912.0	138.80	21.981	
19,700.0	12,361.0	16,825.4	9,445.0	127.0	123.2	-17.16	7,035.6	-1,145.4	3,050.8	2,910.3	140.51	21.712	
19,800.0	12,361.0	16,925.4	9,445.0	128.6	124.8	-17.16	7,135.6	-1,146.4	3,050.8	2,908.6	142.23	21.450	
19,900.0	12,361.0	17,025.4	9,445.0	130.1	126.4	-17.16	7,235.6	-1,147.4	3,050.8	2,906.9	143.95	21.193	
20,000.0	12,361.0	17,125.4	9,445.0	131.7	128.0	-17.16	7,335.6	-1,148.4	3,050.8	2,905.1	145.67	20.943	
20,100.0	12,361.0	17,225.4	9,445.0	133.3	129.6	-17.16	7,435.6	-1,149.4	3,050.8	2,903.4	147.40	20.698	
20,200.0	12,361.0	17,325.4	9,445.0	134.8	131.2	-17.16	7,535.6	-1,150.3	3,050.8	2,901.7	149.12	20.459	
20,300.0	12,361.0	17,425.4	9,445.0	136.4	132.7	-17.16	7,635.6	-1,151.3	3,050.8	2,900.0	150.85	20.225	
20,400.0	12,361.0	17,525.4	9,445.0	138.0	134.3	-17.16	7,735.6	-1,152.3	3,050.8	2,898.2	152.57	19.996	
20,500.0	12,361.0	17,625.4	9,445.0	139.5	135.9	-17.16	7,835.6	-1,153.3	3,050.8	2,896.5	154.30	19.772	
20,600.0	12,361.0	17,725.4	9,445.0	141.1	137.5	-17.16	7,935.6	-1,154.3	3,050.8	2,894.8	156.03	19.552	
20,700.0	12,361.0	17,825.4	9,445.0	142.7	139.1	-17.16	8,035.5	-1,155.3	3,050.8	2,893.0	157.76	19.338	
20,800.0	12,361.0	17,925.4	9,445.0	144.3	140.7	-17.16	8,135.5	-1,156.3	3,050.8	2,891.3	159.50	19.128	
20,900.0	12,361.0	18,025.4	9,445.0	145.8	142.3	-17.16	8,235.5	-1,157.3	3,050.8	2,889.6	161.23	18.922	
21,000.0	12,361.0	18,125.4	9,445.0	147.4	143.9	-17.16	8,335.5	-1,158.3	3,050.8	2,887.8	162.97	18.721	
21,100.0	12,361.0	18,225.4	9,445.0	149.0	145.5	-17.16	8,435.5	-1,159.3	3,050.8	2,886.1	164.70	18.523	
21,200.0	12,361.0	18,325.4	9,445.0	150.6	147.1	-17.16	8,535.5	-1,160.3	3,050.8	2,884.4	166.44	18.330	
21,300.0	12,361.0	18,425.4	9,445.0	152.2	148.7	-17.16	8,635.5	-1,161.3	3,050.8	2,882.6	168.18	18.140	
21,400.0	12,361.0	18,525.4	9,445.0	153.8	150.3	-17.16	8,735.5	-1,162.3	3,050.8	2,880.9	169.92	17.955	
21,500.0	12,361.0	18,625.4	9,445.0	155.4	151.9	-17.16	8,835.5	-1,163.2	3,050.8	2,879.1	171.66	17.773	
21,600.0	12,361.0	18,725.4	9,445.0	156.9	153.5	-17.16	8,935.5	-1,164.2	3,050.8	2,877.4	173.40	17.594	
21,700.0	12,361.0	18,825.4	9,445.0	158.5	155.1	-17.16	9,035.5	-1,165.2	3,050.8	2,875.7	175.14	17.419	
21,800.0	12,361.0	18,925.4	9,445.0	160.1	156.7	-17.16	9,135.5	-1,166.2	3,050.8	2,873.9	176.88	17.247	
21,900.0	12,361.0	19,025.4	9,445.0	161.7	158.3	-17.16	9,235.5	-1,167.2	3,050.8	2,872.2	178.63	17.079	
22,000.0	12,361.0	19,125.4	9,445.0	163.3	160.0	-17.16	9,335.5	-1,168.2	3,050.8	2,870.4	180.37	16.914	
22,100.0	12,361.0	19,225.4	9,445.0	164.9	161.6	-17.16	9,435.5	-1,169.2	3,050.8	2,868.7	182.12	16.752	
22,200.0	12,361.0	19,325.4	9,445.0	166.5	163.2	-17.16	9,535.5	-1,170.2	3,050.8	2,866.9	183.87	16.593	
22,300.0	12,361.0	19,425.4	9,445.0	168.1	164.8	-17.16	9,635.5	-1,171.2	3,050.8	2,865.2	185.61	16.436	
22,400.0	12,361.0	19,525.4	9,445.0	169.7	166.4	-17.16	9,735.5	-1,172.2	3,050.8	2,863.4	187.36	16.283	
22,500.0	12,361.0	19,625.4	9,445.0	171.3	168.0	-17.16	9,835.5	-1,173.2	3,050.8	2,861.7	189.11	16.132	
22,600.0	12,361.0	19,725.4	9,445.0	172.9	169.6	-17.16	9,935.5	-1,174.2	3,050.8	2,859.9	190.86	15.984	
22,613.5	12,361.0	19,738.8	9,445.0	173.1	169.8	-17.16	9,948.9	-1,174.3	3,050.8	2,859.7	191.09	15.965	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #108H - 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	-45.48	29.7	-30.2	42.4				
100.0	100.0	101.0	99.0	0.1	0.1	-45.48	29.7	-30.2	42.4	42.1	0.26	162.989	
200.0	200.0	201.0	199.0	0.5	0.5	-45.48	29.7	-30.2	42.4	41.4	0.98	43.364	
300.0	300.0	301.0	299.0	0.8	0.8	-45.48	29.7	-30.2	42.4	40.7	1.69	25.009	
400.0	400.0	401.0	399.0	1.2	1.2	-45.48	29.7	-30.2	42.4	39.9	2.41	17.571	
500.0	500.0	501.0	499.0	1.6	1.6	-45.48	29.7	-30.2	42.4	39.2	3.13	13.544	
600.0	600.0	601.0	599.0	1.9	1.9	-45.48	29.7	-30.2	42.4	38.5	3.84	11.018	
700.0	700.0	701.0	699.0	2.3	2.3	-45.48	29.7	-30.2	42.4	37.8	4.56	9.286	
800.0	800.0	801.0	799.0	2.6	2.6	-45.48	29.7	-30.2	42.4	37.1	5.28	8.025	
900.0	900.0	901.0	899.0	3.0	3.0	-45.48	29.7	-30.2	42.4	36.4	6.00	7.065	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-45.48	29.7	-30.2	42.4	35.6	6.71	6.311	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-45.48	29.7	-30.2	42.4	34.9	7.43	5.702	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-45.48	29.7	-30.2	42.4	34.2	8.15	5.200	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-45.48	29.7	-30.2	42.4	33.5	8.86	4.779	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-45.48	29.7	-30.2	42.4	32.8	9.58	4.422	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	-45.48	29.7	-30.2	42.4	32.1	10.29	4.117	CC
1,600.0	1,600.0	1,599.4	1,599.4	5.5	5.5	129.12	28.9	-30.4	42.5	31.5	10.97	3.869	
1,700.0	1,700.0	1,699.8	1,699.7	5.8	5.8	128.88	26.3	-31.0	42.7	31.1	11.62	3.676	
1,800.0	1,799.9	1,800.2	1,800.0	6.1	6.1	128.46	22.0	-31.9	43.2	30.9	12.28	3.514	
1,900.0	1,899.7	1,900.6	1,900.2	6.5	6.5	127.88	16.0	-33.2	43.8	30.8	12.95	3.380	ES
2,000.0	1,999.4	2,001.0	2,000.3	6.8	6.8	127.15	8.3	-34.9	44.6	30.9	13.63	3.270	
2,100.0	2,098.9	2,101.3	2,100.2	7.2	7.2	126.29	-1.1	-37.0	45.6	31.2	14.33	3.179	
2,200.0	2,198.3	2,201.7	2,200.0	7.5	7.6	125.32	-12.2	-39.4	46.7	31.7	15.05	3.105	
2,300.0	2,297.4	2,302.1	2,299.5	7.9	8.0	124.26	-25.0	-42.3	48.1	32.3	15.80	3.045	
2,400.0	2,396.4	2,402.1	2,398.5	8.2	8.4	123.24	-38.6	-45.2	49.6	33.0	16.57	2.992	
2,500.0	2,495.5	2,502.1	2,497.5	8.6	8.9	122.29	-52.2	-48.2	51.1	33.7	17.36	2.942	
2,600.0	2,594.5	2,602.0	2,596.5	9.0	9.3	121.38	-65.8	-51.2	52.6	34.4	18.17	2.895	
2,700.0	2,693.5	2,702.0	2,695.5	9.4	9.8	120.53	-79.4	-54.2	54.1	35.1	18.99	2.849	
2,800.0	2,792.5	2,802.0	2,794.5	9.7	10.2	119.73	-93.0	-57.2	55.7	35.8	19.83	2.807	
2,900.0	2,891.6	2,902.0	2,893.5	10.1	10.7	118.97	-106.6	-60.2	57.2	36.5	20.68	2.766	
3,000.0	2,990.6	3,002.0	2,992.6	10.5	11.2	118.25	-120.2	-63.2	58.8	37.2	21.54	2.728	
3,100.0	3,089.6	3,102.0	3,091.6	10.9	11.7	117.56	-133.8	-66.2	60.3	37.9	22.41	2.692	
3,200.0	3,188.6	3,202.0	3,190.6	11.3	12.2	116.91	-147.3	-69.2	61.9	38.6	23.29	2.658	
3,300.0	3,287.7	3,301.9	3,289.6	11.7	12.7	116.30	-160.9	-72.2	63.5	39.3	24.17	2.626	
3,400.0	3,386.7	3,401.9	3,388.6	12.1	13.2	115.71	-174.5	-75.2	65.1	40.0	25.07	2.596	
3,500.0	3,485.7	3,501.9	3,487.6	12.5	13.7	115.15	-188.1	-78.1	66.7	40.7	25.97	2.568	
3,600.0	3,584.8	3,601.9	3,586.6	12.9	14.2	114.62	-201.7	-81.1	68.3	41.4	26.87	2.541	
3,700.0	3,683.8	3,701.9	3,685.6	13.3	14.7	114.11	-215.3	-84.1	69.9	42.1	27.78	2.516	
3,800.0	3,782.8	3,801.9	3,784.6	13.7	15.2	113.63	-228.9	-87.1	71.5	42.8	28.70	2.492	
3,900.0	3,881.8	3,901.8	3,883.7	14.1	15.8	113.16	-242.5	-90.1	73.1	43.5	29.61	2.469	
4,000.0	3,980.9	4,001.8	3,982.7	14.5	16.3	112.72	-256.1	-93.1	74.7	44.2	30.54	2.447	
4,100.0	4,079.9	4,101.8	4,081.7	14.9	16.8	112.29	-269.7	-96.1	76.4	44.9	31.46	2.427	
4,200.0	4,178.9	4,201.8	4,180.7	15.3	17.3	111.89	-283.2	-99.1	78.0	45.6	32.39	2.408	
4,300.0	4,277.9	4,301.8	4,279.7	15.8	17.8	111.50	-296.8	-102.1	79.6	46.3	33.33	2.389	
4,400.0	4,377.0	4,401.8	4,378.7	16.2	18.4	111.12	-310.4	-105.1	81.3	47.0	34.26	2.372	
4,500.0	4,476.0	4,501.8	4,477.7	16.6	18.9	110.76	-324.0	-108.1	82.9	47.7	35.20	2.355	
4,600.0	4,575.0	4,601.7	4,576.7	17.0	19.4	110.42	-337.6	-111.0	84.6	48.4	36.14	2.340	
4,700.0	4,674.0	4,701.7	4,675.8	17.4	20.0	110.08	-351.2	-114.0	86.2	49.1	37.08	2.324	
4,800.0	4,773.1	4,801.7	4,774.8	17.8	20.5	109.76	-364.8	-117.0	87.9	49.8	38.03	2.310	
4,900.0	4,872.1	4,901.7	4,873.8	18.2	21.0	109.46	-378.4	-120.0	89.5	50.5	38.97	2.296	
5,000.0	4,971.1	5,001.7	4,972.8	18.6	21.6	109.16	-392.0	-123.0	91.2	51.2	39.92	2.283	
5,100.0	5,070.2	5,101.7	5,071.8	19.1	22.1	108.87	-405.6	-126.0	92.8	51.9	40.87	2.271	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #108H - 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
5,200.0	5,169.2	5,201.7	5,170.8	19.5	22.6	108.60	-419.1	-129.0	94.5	52.7	41.82	2.259	
5,221.2	5,190.2	5,222.9	5,191.8	19.6	22.8	108.54	-422.0	-129.6	94.8	52.8	42.03	2.256	
5,300.0	5,268.3	5,301.6	5,269.8	19.9	23.2	107.88	-432.7	-132.0	95.9	53.1	42.79	2.241	
5,400.0	5,367.8	5,401.6	5,368.8	20.3	23.7	105.74	-446.3	-135.0	96.6	52.8	43.79	2.205	
5,500.0	5,467.4	5,501.4	5,467.6	20.7	24.3	102.12	-459.9	-138.0	96.8	52.0	44.81	2.161	
5,600.0	5,567.3	5,601.0	5,566.4	21.0	24.8	97.67	-472.4	-140.7	97.1	51.4	45.76	2.122	
5,700.0	5,667.2	5,700.8	5,665.7	21.4	25.2	93.26	-482.4	-142.9	97.7	51.1	46.58	2.097	
5,754.5	5,721.8	5,755.3	5,720.0	21.5	25.5	-83.81	-486.7	-143.9	98.1	51.1	46.96	2.089	
5,800.0	5,767.2	5,800.8	5,765.4	21.7	25.7	-85.63	-489.8	-144.6	98.5	51.2	47.26	2.084	
5,900.0	5,867.2	5,901.1	5,865.5	22.0	26.0	-88.51	-494.8	-145.6	99.3	51.4	47.86	2.075	
6,000.0	5,967.2	6,001.6	5,966.0	22.3	26.4	-89.87	-497.1	-146.2	99.8	51.3	48.46	2.059	
6,100.0	6,067.2	6,101.8	6,066.2	22.6	26.6	-90.00	-497.3	-146.2	99.8	50.8	49.04	2.036	
6,200.0	6,167.2	6,201.8	6,166.2	22.9	26.9	-90.00	-497.3	-146.2	99.8	50.2	49.62	2.012	
6,300.0	6,267.2	6,301.8	6,266.2	23.2	27.2	-90.00	-497.3	-146.2	99.8	49.6	50.20	1.989	
6,400.0	6,367.2	6,401.8	6,366.2	23.6	27.4	-90.00	-497.3	-146.2	99.8	49.1	50.78	1.966	
6,500.0	6,467.2	6,501.8	6,466.2	23.9	27.7	-90.00	-497.3	-146.2	99.8	48.5	51.37	1.944	
6,600.0	6,567.2	6,601.8	6,566.2	24.2	28.0	-90.00	-497.3	-146.2	99.8	47.9	51.96	1.921	
6,700.0	6,667.2	6,701.8	6,666.2	24.5	28.2	-90.00	-497.3	-146.2	99.8	47.3	52.56	1.900	
6,800.0	6,767.2	6,801.8	6,766.2	24.8	28.5	-90.00	-497.3	-146.2	99.8	46.7	53.15	1.878	
6,900.0	6,867.2	6,901.8	6,866.2	25.2	28.8	-90.00	-497.3	-146.2	99.8	46.1	53.75	1.857	
7,000.0	6,967.2	7,001.8	6,966.2	25.5	29.1	-90.00	-497.3	-146.2	99.8	45.5	54.36	1.837	
7,100.0	7,067.2	7,101.8	7,066.2	25.8	29.4	-90.00	-497.3	-146.2	99.8	44.9	54.96	1.816	
7,200.0	7,167.2	7,201.8	7,166.2	26.1	29.6	-90.00	-497.3	-146.2	99.8	44.3	55.57	1.797	
7,300.0	7,267.2	7,301.8	7,266.2	26.5	29.9	-90.00	-497.3	-146.2	99.8	43.7	56.18	1.777	
7,400.0	7,367.2	7,401.8	7,366.2	26.8	30.2	-90.00	-497.3	-146.2	99.8	43.0	56.80	1.758	
7,500.0	7,467.2	7,501.8	7,466.2	27.1	30.5	-90.00	-497.3	-146.2	99.8	42.4	57.41	1.739	
7,600.0	7,567.2	7,601.8	7,566.2	27.5	30.8	-90.00	-497.3	-146.2	99.8	41.8	58.03	1.721	
7,700.0	7,667.2	7,701.8	7,666.2	27.8	31.1	-90.00	-497.3	-146.2	99.8	41.2	58.65	1.702	
7,800.0	7,767.2	7,801.8	7,766.2	28.1	31.4	-90.00	-497.3	-146.2	99.8	40.6	59.27	1.684	
7,900.0	7,867.2	7,901.8	7,866.2	28.4	31.6	-90.00	-497.3	-146.2	99.8	39.9	59.90	1.667	
8,000.0	7,967.2	8,001.8	7,966.2	28.8	31.9	-90.00	-497.3	-146.2	99.8	39.3	60.52	1.650	
8,100.0	8,067.2	8,101.8	8,066.2	29.1	32.2	-90.00	-497.3	-146.2	99.8	38.7	61.15	1.633	
8,200.0	8,167.2	8,201.8	8,166.2	29.4	32.5	-90.00	-497.3	-146.2	99.8	38.1	61.78	1.616	
8,300.0	8,267.2	8,301.8	8,266.2	29.8	32.8	-90.00	-497.3	-146.2	99.8	37.4	62.41	1.600	
8,400.0	8,367.2	8,401.8	8,366.2	30.1	33.1	-90.00	-497.3	-146.2	99.8	36.8	63.04	1.584	
8,500.0	8,467.2	8,501.8	8,466.2	30.4	33.4	-90.00	-497.3	-146.2	99.8	36.2	63.68	1.568	
8,600.0	8,567.2	8,601.8	8,566.2	30.8	33.7	-90.00	-497.3	-146.2	99.8	35.5	64.32	1.552	
8,700.0	8,667.2	8,701.8	8,666.2	31.1	34.0	-90.00	-497.3	-146.2	99.8	34.9	64.96	1.537	
8,800.0	8,767.2	8,801.8	8,766.2	31.4	34.3	-90.00	-497.3	-146.2	99.8	34.2	65.60	1.522	
8,900.0	8,867.2	8,901.8	8,866.2	31.8	34.6	-90.00	-497.3	-146.2	99.8	33.6	66.24	1.507	
9,000.0	8,967.2	9,001.8	8,966.2	32.1	34.9	-90.00	-497.3	-146.2	99.8	33.0	66.88	1.493	Level 3
9,100.0	9,067.2	9,101.8	9,066.2	32.5	35.2	-90.00	-497.3	-146.2	99.8	32.3	67.53	1.479	Level 3
9,200.0	9,167.2	9,200.0	9,164.0	32.8	35.5	-85.77	-489.9	-146.7	100.6	32.4	68.22	1.475	Level 3, SF
9,300.0	9,267.2	9,293.0	9,254.2	33.1	35.7	-73.74	-467.7	-148.1	106.6	38.3	68.35	1.560	
9,400.0	9,367.2	9,376.9	9,331.5	33.5	35.8	-59.13	-435.3	-150.1	125.8	59.6	66.13	1.902	
9,500.0	9,467.2	9,450.0	9,394.4	33.8	35.9	-46.94	-398.2	-152.4	162.0	100.4	61.54	2.632	
9,600.0	9,567.2	9,512.3	9,443.9	34.2	36.0	-38.40	-360.5	-154.8	213.2	156.8	56.38	3.781	
9,700.0	9,667.2	9,564.9	9,482.3	34.5	36.1	-32.66	-324.6	-157.1	275.5	223.8	51.73	5.327	
9,800.0	9,767.2	9,609.2	9,511.9	34.8	36.2	-28.76	-291.8	-159.1	345.8	298.1	47.79	7.236	
9,900.0	9,867.2	9,650.0	9,537.0	35.2	36.3	-25.78	-259.6	-161.2	422.0	377.1	44.88	9.402	
10,000.0	9,967.2	9,678.2	9,552.9	35.5	36.4	-24.01	-236.4	-162.6	502.5	460.6	41.86	12.003	
10,100.0	10,067.2	9,700.0	9,564.4	35.9	36.5	-22.79	-217.9	-163.8	586.3	547.0	39.27	14.930	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #108H - 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
10,200.0	10,167.2	9,728.6	9,578.4	36.2	36.6	-21.36	-193.0	-165.3	672.6	634.7	37.86	17.766	
10,300.0	10,267.2	9,750.0	9,588.0	36.5	36.7	-20.39	-174.0	-166.5	760.9	724.5	36.44	20.879	
10,400.0	10,367.2	9,766.5	9,595.0	36.9	36.8	-19.70	-159.1	-167.5	850.8	815.7	35.16	24.197	
10,500.0	10,467.2	9,782.0	9,601.1	37.2	36.8	-19.10	-144.9	-168.4	942.1	907.9	34.17	27.569	
10,600.0	10,567.2	9,800.0	9,607.8	37.6	36.9	-18.44	-128.2	-169.4	1,034.5	1,000.9	33.54	30.843	
10,700.0	10,667.2	9,800.0	9,607.8	37.9	36.9	-18.44	-128.2	-169.4	1,127.7	1,095.3	32.44	34.767	
10,800.0	10,767.2	9,818.8	9,614.1	38.3	37.0	-17.80	-110.5	-170.5	1,221.6	1,189.4	32.20	37.943	
10,900.0	10,867.2	9,828.7	9,617.2	38.6	37.1	-17.48	-101.2	-171.1	1,316.2	1,284.5	31.79	41.408	
11,000.0	10,967.2	9,850.0	9,623.4	38.9	37.2	-16.84	-80.8	-172.4	1,411.6	1,379.8	31.80	44.387	
11,100.0	11,067.2	9,850.0	9,623.4	39.3	37.2	-16.84	-80.8	-172.4	1,507.0	1,475.7	31.34	48.088	
11,200.0	11,167.2	9,850.0	9,623.4	39.6	37.2	-16.84	-80.8	-172.4	1,603.0	1,572.0	31.00	51.712	
11,300.0	11,267.2	9,850.0	9,623.4	40.0	37.2	-16.84	-80.8	-172.4	1,699.5	1,668.7	30.76	55.251	
11,400.0	11,367.2	9,850.0	9,623.4	40.3	37.2	-16.84	-80.8	-172.4	1,796.3	1,765.7	30.60	58.699	
11,500.0	11,467.2	9,871.6	9,628.9	40.7	37.4	-16.24	-60.0	-173.7	1,893.0	1,862.1	30.88	61.304	
11,600.0	11,567.2	9,876.8	9,630.1	41.0	37.4	-16.10	-54.9	-174.0	1,990.2	1,959.3	30.90	64.404	
11,700.0	11,667.2	9,900.0	9,634.9	41.4	37.6	-15.51	-32.2	-175.5	2,087.9	2,056.7	31.23	66.849	
11,800.0	11,767.2	9,900.0	9,634.9	41.7	37.6	-15.51	-32.2	-175.5	2,185.3	2,154.1	31.24	69.960	
11,820.8	11,788.0	9,900.0	9,634.9	41.8	37.6	-15.51	-32.2	-175.5	2,205.6	2,174.3	31.24	70.595	
11,850.0	11,817.2	9,900.0	9,634.9	41.9	37.6	-4.90	-32.2	-175.5	2,233.9	2,202.7	31.24	71.499	
11,900.0	11,867.0	9,900.0	9,634.9	42.0	37.6	-3.72	-32.2	-175.5	2,281.6	2,250.4	31.22	73.089	
11,950.0	11,916.1	9,900.0	9,634.9	42.2	37.6	-3.00	-32.2	-175.5	2,327.8	2,296.7	31.16	74.718	
12,000.0	11,964.3	9,900.0	9,634.9	42.3	37.6	-2.52	-32.2	-175.5	2,372.5	2,341.4	31.07	76.366	
12,050.0	12,011.2	9,900.0	9,634.9	42.5	37.6	-2.18	-32.2	-175.5	2,415.3	2,384.3	30.96	78.013	
12,100.0	12,056.3	9,900.0	9,634.9	42.6	37.6	-1.93	-32.2	-175.5	2,456.0	2,425.1	30.84	79.639	
12,150.0	12,099.4	9,900.0	9,634.9	42.7	37.6	-1.74	-32.2	-175.5	2,494.4	2,463.7	30.71	81.221	
12,200.0	12,140.2	9,922.5	9,638.7	42.8	37.8	-1.51	-10.1	-176.9	2,529.8	2,499.0	30.78	82.181	
12,250.0	12,178.2	9,929.3	9,639.6	42.9	37.8	-1.37	-3.3	-177.3	2,562.8	2,532.1	30.70	83.474	
12,300.0	12,213.3	9,950.0	9,642.1	42.9	38.0	-1.22	17.1	-178.6	2,593.0	2,562.3	30.73	84.384	
12,350.0	12,245.1	9,950.0	9,642.1	43.0	38.0	-1.15	17.1	-178.6	2,619.9	2,589.3	30.60	85.619	
12,400.0	12,273.5	9,950.0	9,642.1	43.1	38.0	-1.10	17.1	-178.6	2,643.7	2,613.2	30.50	86.686	
12,450.0	12,298.2	9,950.0	9,642.1	43.1	38.0	-1.06	17.1	-178.6	2,664.3	2,633.9	30.43	87.558	
12,500.0	12,319.0	9,950.0	9,642.1	43.2	38.0	-1.02	17.1	-178.6	2,681.8	2,651.4	30.40	88.207	
12,550.0	12,335.7	9,976.6	9,644.1	43.3	38.2	-0.94	43.6	-180.2	2,695.1	2,664.6	30.51	88.332	
12,600.0	12,348.3	10,000.0	9,644.9	43.4	38.4	-0.87	66.9	-181.7	2,705.6	2,675.0	30.62	88.359	
12,650.0	12,356.6	10,000.0	9,644.9	43.4	38.4	-0.86	66.9	-181.7	2,712.1	2,681.4	30.69	88.360	
12,700.0	12,360.6	10,000.0	9,644.9	43.5	38.4	-0.85	66.9	-181.7	2,715.1	2,684.3	30.82	88.085	
12,720.8	12,361.0	10,007.6	9,645.0	43.5	38.5	-0.84	74.5	-182.2	2,715.3	2,684.4	30.90	87.876	
12,800.0	12,361.0	10,078.0	9,645.0	43.7	39.3	-0.69	144.8	-185.7	2,715.2	2,683.9	31.25	86.880	
12,900.0	12,361.0	10,178.3	9,645.0	43.9	40.5	-0.48	245.1	-187.9	2,715.1	2,683.3	31.77	85.471	
13,000.0	12,361.0	10,278.0	9,645.0	44.2	41.9	-0.32	344.8	-188.9	2,715.0	2,682.7	32.36	83.902	
13,100.0	12,361.0	10,378.0	9,645.0	44.6	43.6	-0.24	444.8	-189.9	2,715.0	2,682.0	33.02	82.219	
13,167.2	12,361.0	10,445.1	9,645.0	44.9	44.7	-0.22	511.9	-190.5	2,715.0	2,681.5	33.50	81.034	
13,200.0	12,361.0	10,478.0	9,645.0	45.0	45.3	-0.22	544.7	-190.9	2,715.0	2,681.3	33.75	80.448	
13,300.0	12,361.0	10,578.0	9,645.0	45.5	47.2	-0.22	644.7	-191.8	2,715.0	2,680.5	34.53	78.621	
13,400.0	12,361.0	10,678.0	9,645.0	46.0	49.2	-0.22	744.7	-192.8	2,715.0	2,679.6	35.37	76.762	
13,500.0	12,361.0	10,778.0	9,645.0	46.6	51.4	-0.22	844.7	-193.8	2,715.0	2,678.8	36.25	74.888	
13,600.0	12,361.0	10,878.0	9,645.0	47.2	53.6	-0.22	944.7	-194.8	2,715.0	2,677.8	37.18	73.017	
13,700.0	12,361.0	10,978.0	9,645.0	47.8	55.9	-0.22	1,044.7	-195.8	2,715.0	2,676.9	38.15	71.160	
13,800.0	12,361.0	11,078.0	9,645.0	48.6	58.2	-0.22	1,144.7	-196.8	2,715.0	2,675.9	39.16	69.328	
13,900.0	12,361.0	11,178.0	9,645.0	49.3	60.7	-0.22	1,244.7	-197.8	2,715.0	2,674.8	40.21	67.529	
14,000.0	12,361.0	11,278.0	9,645.0	50.1	63.2	-0.22	1,344.7	-198.8	2,715.0	2,673.7	41.28	65.770	
14,100.0	12,361.0	11,378.0	9,645.0	51.0	65.7	-0.22	1,444.7	-199.8	2,715.0	2,672.6	42.39	64.055	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #108H - 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
14,200.0	12,361.0	11,478.0	9,645.0	51.9	68.3	-0.22	1,544.7	-200.8	2,715.0	2,671.5	43.52	62.387	
14,300.0	12,361.0	11,578.0	9,645.0	52.8	70.9	-0.22	1,644.7	-201.8	2,715.0	2,670.3	44.68	60.770	
14,400.0	12,361.0	11,678.0	9,645.0	53.7	73.6	-0.22	1,744.7	-202.8	2,715.0	2,669.2	45.86	59.203	
14,500.0	12,361.0	11,778.0	9,645.0	54.7	76.2	-0.22	1,844.7	-203.8	2,715.0	2,668.0	47.06	57.689	
14,600.0	12,361.0	11,878.0	9,645.0	55.7	79.0	-0.22	1,944.7	-204.8	2,715.0	2,666.7	48.29	56.227	
14,700.0	12,361.0	11,978.0	9,645.0	56.8	81.7	-0.22	2,044.7	-205.7	2,715.0	2,665.5	49.53	54.816	
14,800.0	12,361.0	12,078.0	9,645.0	57.9	84.5	-0.22	2,144.7	-206.7	2,715.0	2,664.2	50.79	53.456	
14,900.0	12,361.0	12,178.0	9,645.0	59.0	87.3	-0.22	2,244.7	-207.7	2,715.0	2,663.0	52.07	52.145	
15,000.0	12,361.0	12,278.0	9,645.0	60.1	90.1	-0.22	2,344.7	-208.7	2,715.0	2,661.7	53.36	50.883	
15,100.0	12,361.0	12,378.0	9,645.0	61.3	92.9	-0.22	2,444.7	-209.7	2,715.0	2,660.4	54.66	49.668	
15,200.0	12,361.0	12,478.0	9,645.0	62.4	95.7	-0.22	2,544.6	-210.7	2,715.0	2,659.0	55.98	48.498	
15,300.0	12,361.0	12,578.0	9,645.0	63.6	98.6	-0.22	2,644.6	-211.7	2,715.0	2,657.7	57.31	47.372	
15,400.0	12,361.0	12,678.0	9,645.0	64.9	101.4	-0.22	2,744.6	-212.7	2,715.0	2,656.4	58.65	46.288	
15,500.0	12,361.0	12,778.0	9,645.0	66.1	104.3	-0.22	2,844.6	-213.7	2,715.0	2,655.0	60.01	45.245	
15,600.0	12,361.0	12,878.0	9,645.0	67.4	107.2	-0.22	2,944.6	-214.7	2,715.0	2,653.6	61.37	44.240	
15,700.0	12,361.0	12,978.0	9,645.0	68.6	110.1	-0.22	3,044.6	-215.7	2,715.0	2,652.3	62.74	43.272	
15,800.0	12,361.0	13,078.0	9,645.0	69.9	113.0	-0.22	3,144.6	-216.7	2,715.0	2,650.9	64.12	42.341	
15,900.0	12,361.0	13,178.0	9,645.0	71.2	115.9	-0.22	3,244.6	-217.7	2,715.0	2,649.5	65.51	41.443	
16,000.0	12,361.0	13,278.0	9,645.0	72.5	118.8	-0.22	3,344.6	-218.6	2,715.0	2,648.1	66.91	40.577	
16,100.0	12,361.0	13,378.0	9,645.0	73.9	121.8	-0.22	3,444.6	-219.6	2,715.0	2,646.7	68.31	39.743	
16,200.0	12,361.0	13,478.0	9,645.0	75.2	124.7	-0.22	3,544.6	-220.6	2,715.0	2,645.3	69.72	38.939	
16,300.0	12,361.0	13,578.0	9,645.0	76.6	127.7	-0.22	3,644.6	-221.6	2,715.0	2,643.9	71.14	38.163	
16,400.0	12,361.0	13,678.0	9,645.0	77.9	130.6	-0.22	3,744.6	-222.6	2,715.0	2,642.5	72.57	37.414	
16,500.0	12,361.0	13,778.0	9,645.0	79.3	133.6	-0.22	3,844.6	-223.6	2,715.0	2,641.0	74.00	36.692	
16,600.0	12,361.0	13,878.0	9,645.0	80.7	136.5	-0.22	3,944.6	-224.6	2,715.0	2,639.6	75.43	35.994	
16,700.0	12,361.0	13,978.0	9,645.0	82.1	139.5	-0.22	4,044.6	-225.6	2,715.0	2,638.1	76.87	35.319	
16,800.0	12,361.0	14,078.0	9,645.0	83.5	142.5	-0.22	4,144.6	-226.6	2,715.0	2,636.7	78.32	34.668	
16,900.0	12,361.0	14,178.0	9,645.0	84.9	145.4	-0.22	4,244.6	-227.6	2,715.0	2,635.3	79.76	34.038	
17,000.0	12,361.0	14,278.0	9,645.0	86.4	148.4	-0.22	4,344.6	-228.6	2,715.0	2,633.8	81.22	33.429	
17,100.0	12,361.0	14,378.0	9,645.0	87.8	151.4	-0.22	4,444.6	-229.6	2,715.0	2,632.3	82.68	32.839	
17,200.0	12,361.0	14,478.0	9,645.0	89.2	154.4	-0.22	4,544.5	-230.6	2,715.0	2,630.9	84.14	32.268	
17,300.0	12,361.0	14,578.0	9,645.0	90.7	157.4	-0.22	4,644.5	-231.6	2,715.0	2,629.4	85.60	31.716	
17,400.0	12,361.0	14,678.0	9,645.0	92.2	160.4	-0.22	4,744.5	-232.5	2,715.0	2,627.9	87.07	31.181	
17,500.0	12,361.0	14,778.0	9,645.0	93.6	163.4	-0.22	4,844.5	-233.5	2,715.0	2,626.5	88.55	30.662	
17,600.0	12,361.0	14,878.0	9,645.0	95.1	166.4	-0.22	4,944.5	-234.5	2,715.0	2,625.0	90.02	30.160	
17,700.0	12,361.0	14,978.0	9,645.0	96.6	169.4	-0.22	5,044.5	-235.5	2,715.0	2,623.5	91.50	29.672	
17,800.0	12,361.0	15,078.0	9,645.0	98.0	172.4	-0.22	5,144.5	-236.5	2,715.0	2,622.0	92.98	29.199	
17,900.0	12,361.0	15,178.0	9,645.0	99.5	175.4	-0.22	5,244.5	-237.5	2,715.0	2,620.6	94.47	28.740	
18,000.0	12,361.0	15,278.0	9,645.0	101.0	178.4	-0.22	5,344.5	-238.5	2,715.0	2,619.1	95.95	28.295	
18,100.0	12,361.0	15,378.0	9,645.0	102.5	181.4	-0.22	5,444.5	-239.5	2,715.0	2,617.6	97.44	27.862	
18,200.0	12,361.0	15,478.0	9,645.0	104.0	184.4	-0.22	5,544.5	-240.5	2,715.0	2,616.1	98.94	27.442	
18,300.0	12,361.0	15,578.0	9,645.0	105.5	187.4	-0.22	5,644.5	-241.5	2,715.0	2,614.6	100.43	27.034	
18,400.0	12,361.0	15,678.0	9,645.0	107.0	190.5	-0.22	5,744.5	-242.5	2,715.0	2,613.1	101.93	26.637	
18,500.0	12,361.0	15,778.0	9,645.0	108.6	193.5	-0.21	5,844.5	-243.5	2,715.0	2,611.6	103.43	26.251	
18,600.0	12,361.0	15,878.0	9,645.0	110.1	196.5	-0.21	5,944.5	-244.5	2,715.0	2,610.1	104.93	25.875	
18,700.0	12,361.0	15,978.0	9,645.0	111.6	199.5	-0.21	6,044.5	-245.5	2,715.0	2,608.6	106.43	25.510	
18,800.0	12,361.0	16,078.0	9,645.0	113.1	202.6	-0.21	6,144.5	-246.4	2,715.0	2,607.1	107.93	25.154	
18,900.0	12,361.0	16,178.0	9,645.0	114.7	205.6	-0.21	6,244.5	-247.4	2,715.0	2,605.6	109.44	24.808	
19,000.0	12,361.0	16,278.0	9,645.0	116.2	208.6	-0.21	6,344.5	-248.4	2,715.0	2,604.1	110.95	24.471	
19,100.0	12,361.0	16,378.0	9,645.0	117.7	211.6	-0.21	6,444.5	-249.4	2,715.0	2,602.6	112.46	24.142	
19,200.0	12,361.0	16,478.0	9,645.0	119.3	214.7	-0.21	6,544.4	-250.4	2,715.0	2,601.0	113.97	23.822	
19,300.0	12,361.0	16,578.0	9,645.0	120.8	217.7	-0.21	6,644.4	-251.4	2,715.0	2,599.5	115.48	23.510	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #108H - 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
19,400.0	12,361.0	16,678.0	9,645.0	122.4	220.7	-0.21	6,744.4	-252.4	2,715.0	2,598.0	117.00	23.206	
19,500.0	12,361.0	16,778.0	9,645.0	123.9	223.8	-0.21	6,844.4	-253.4	2,715.0	2,596.5	118.51	22.909	
19,600.0	12,361.0	16,878.0	9,645.0	125.5	226.8	-0.21	6,944.4	-254.4	2,715.0	2,595.0	120.03	22.619	
19,700.0	12,361.0	16,978.0	9,645.0	127.0	229.8	-0.21	7,044.4	-255.4	2,715.0	2,593.5	121.55	22.337	
19,800.0	12,361.0	17,078.0	9,645.0	128.6	232.9	-0.21	7,144.4	-256.4	2,715.0	2,591.9	123.07	22.061	
19,900.0	12,361.0	17,178.0	9,645.0	130.1	235.9	-0.21	7,244.4	-257.4	2,715.0	2,590.4	124.59	21.791	
20,000.0	12,361.0	17,278.0	9,645.0	131.7	239.0	-0.21	7,344.4	-258.4	2,715.0	2,588.9	126.11	21.528	
20,100.0	12,361.0	17,378.0	9,645.0	133.3	242.0	-0.21	7,444.4	-259.3	2,715.0	2,587.4	127.64	21.271	
20,200.0	12,361.0	17,478.0	9,645.0	134.8	245.0	-0.21	7,544.4	-260.3	2,715.0	2,585.9	129.16	21.020	
20,300.0	12,361.0	17,578.0	9,645.0	136.4	248.1	-0.21	7,644.4	-261.3	2,715.0	2,584.3	130.69	20.775	
20,400.0	12,361.0	17,678.0	9,645.0	138.0	251.1	-0.21	7,744.4	-262.3	2,715.0	2,582.8	132.21	20.535	
20,500.0	12,361.0	17,778.0	9,645.0	139.5	254.2	-0.21	7,844.4	-263.3	2,715.0	2,581.3	133.74	20.300	
20,600.0	12,361.0	17,878.0	9,645.0	141.1	257.2	-0.21	7,944.4	-264.3	2,715.0	2,579.7	135.27	20.071	
20,700.0	12,361.0	17,978.0	9,645.0	142.7	260.2	-0.21	8,044.4	-265.3	2,715.0	2,578.2	136.80	19.847	
20,800.0	12,361.0	18,078.0	9,645.0	144.3	263.3	-0.21	8,144.4	-266.3	2,715.0	2,576.7	138.33	19.627	
20,900.0	12,361.0	18,178.0	9,645.0	145.8	266.3	-0.21	8,244.4	-267.3	2,715.0	2,575.2	139.86	19.412	
21,000.0	12,361.0	18,278.0	9,645.0	147.4	269.4	-0.21	8,344.4	-268.3	2,715.0	2,573.6	141.39	19.202	
21,100.0	12,361.0	18,378.0	9,645.0	149.0	272.4	-0.21	8,444.4	-269.3	2,715.0	2,572.1	142.93	18.996	
21,200.0	12,361.0	18,478.0	9,645.0	150.6	275.5	-0.21	8,544.4	-270.3	2,715.0	2,570.6	144.46	18.794	
21,300.0	12,361.0	18,578.0	9,645.0	152.2	278.5	-0.21	8,644.3	-271.3	2,715.0	2,569.0	145.99	18.597	
21,400.0	12,361.0	18,678.0	9,645.0	153.8	281.6	-0.21	8,744.3	-272.3	2,715.0	2,567.5	147.53	18.403	
21,500.0	12,361.0	18,778.0	9,645.0	155.4	284.6	-0.21	8,844.3	-273.2	2,715.0	2,566.0	149.07	18.214	
21,600.0	12,361.0	18,878.0	9,645.0	156.9	287.7	-0.21	8,944.3	-274.2	2,715.0	2,564.4	150.60	18.028	
21,700.0	12,361.0	18,978.0	9,645.0	158.5	290.7	-0.21	9,044.3	-275.2	2,715.0	2,562.9	152.14	17.846	
21,800.0	12,361.0	19,078.0	9,645.0	160.1	293.8	-0.21	9,144.3	-276.2	2,715.0	2,561.3	153.68	17.667	
21,900.0	12,361.0	19,178.0	9,645.0	161.7	296.8	-0.21	9,244.3	-277.2	2,715.0	2,559.8	155.22	17.492	
22,000.0	12,361.0	19,278.0	9,645.0	163.3	299.9	-0.21	9,344.3	-278.2	2,715.0	2,558.3	156.75	17.320	
22,100.0	12,361.0	19,378.0	9,645.0	164.9	302.9	-0.21	9,444.3	-279.2	2,715.0	2,556.7	158.29	17.152	
22,200.0	12,361.0	19,478.0	9,645.0	166.5	306.0	-0.21	9,544.3	-280.2	2,715.0	2,555.2	159.83	16.986	
22,300.0	12,361.0	19,578.0	9,645.0	168.1	309.1	-0.21	9,644.3	-281.2	2,715.0	2,553.6	161.38	16.824	
22,400.0	12,361.0	19,678.0	9,645.0	169.7	312.1	-0.21	9,744.3	-282.2	2,715.0	2,552.1	162.92	16.665	
22,500.0	12,361.0	19,778.0	9,645.0	171.3	315.2	-0.21	9,844.3	-283.2	2,715.0	2,550.6	164.46	16.509	
22,600.0	12,361.0	19,878.0	9,645.0	172.9	318.2	-0.21	9,944.3	-284.2	2,715.0	2,549.0	166.00	16.355	
22,613.5	12,361.0	19,891.4	9,645.0	173.1	318.6	-0.21	9,957.8	-284.3	2,715.0	2,548.8	166.21	16.335	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #114H - 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	0.0	0.0	0.0	0.0	-79.15	28.8	-150.2	152.9				
100.0	100.0	100.0	100.0	0.1	0.1	-79.15	28.8	-150.2	152.9	152.6	0.26	596.558	
200.0	200.0	200.0	200.0	0.5	0.5	-79.15	28.8	-150.2	152.9	151.9	0.97	157.105	
300.0	300.0	300.0	300.0	0.8	0.8	-79.15	28.8	-150.2	152.9	151.2	1.69	90.464	
400.0	400.0	400.0	400.0	1.2	1.2	-79.15	28.8	-150.2	152.9	150.5	2.41	63.520	
500.0	500.0	500.0	500.0	1.6	1.6	-79.15	28.8	-150.2	152.9	149.8	3.12	48.943	
600.0	600.0	600.0	600.0	1.9	1.9	-79.15	28.8	-150.2	152.9	149.1	3.84	39.808	
700.0	700.0	700.0	700.0	2.3	2.3	-79.15	28.8	-150.2	152.9	148.3	4.56	33.546	
800.0	800.0	800.0	800.0	2.6	2.6	-79.15	28.8	-150.2	152.9	147.6	5.27	28.987	
900.0	900.0	900.0	900.0	3.0	3.0	-79.15	28.8	-150.2	152.9	146.9	5.99	25.518	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-79.15	28.8	-150.2	152.9	146.2	6.71	22.791	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-79.15	28.8	-150.2	152.9	145.5	7.43	20.591	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-79.15	28.8	-150.2	152.9	144.8	8.14	18.778	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-79.15	28.8	-150.2	152.9	144.0	8.86	17.258	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-79.15	28.8	-150.2	152.9	143.3	9.58	15.966	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-79.15	28.8	-150.2	152.9	142.6	10.29	14.854	CC
1,600.0	1,600.0	1,599.3	1,599.3	5.5	5.5	95.53	28.0	-150.5	153.2	142.2	10.97	13.962	ES
1,700.0	1,700.0	1,698.7	1,698.7	5.8	5.8	95.55	25.7	-151.6	154.1	142.5	11.62	13.259	
1,800.0	1,799.9	1,798.0	1,797.9	6.1	6.1	95.59	21.8	-153.5	155.6	143.3	12.28	12.669	
1,900.0	1,899.7	1,897.3	1,897.0	6.5	6.5	95.64	16.3	-156.0	157.7	144.7	12.95	12.174	
2,000.0	1,999.4	1,996.6	1,996.0	6.8	6.8	95.70	9.3	-159.3	160.3	146.7	13.63	11.759	
2,100.0	2,098.9	2,095.9	2,094.8	7.2	7.2	95.77	0.7	-163.3	163.6	149.2	14.34	11.409	
2,200.0	2,198.3	2,195.2	2,193.4	7.5	7.6	95.85	-9.4	-168.0	167.4	152.4	15.06	11.115	
2,300.0	2,297.4	2,305.7	2,291.8	7.9	8.0	95.94	-21.0	-173.5	171.9	156.0	15.87	10.834	
2,400.0	2,396.4	2,405.8	2,390.7	8.2	8.4	96.04	-33.6	-179.3	176.6	160.0	16.65	10.607	
2,500.0	2,495.5	2,505.9	2,489.6	8.6	8.9	96.14	-46.2	-185.2	181.4	163.9	17.46	10.389	
2,600.0	2,594.5	2,606.0	2,588.5	9.0	9.3	96.23	-58.8	-191.1	186.2	167.9	18.28	10.182	
2,700.0	2,693.5	2,706.1	2,687.4	9.4	9.8	96.32	-71.4	-197.0	190.9	171.8	19.12	9.985	
2,800.0	2,792.5	2,806.3	2,786.3	9.7	10.3	96.41	-84.0	-202.9	195.7	175.7	19.97	9.799	
2,900.0	2,891.6	2,906.4	2,885.3	10.1	10.8	96.49	-96.6	-208.8	200.4	179.6	20.83	9.622	
3,000.0	2,990.6	3,006.5	2,984.2	10.5	11.2	96.56	-109.2	-214.7	205.2	183.5	21.70	9.456	
3,100.0	3,089.6	3,106.6	3,083.1	10.9	11.7	96.64	-121.8	-220.6	210.0	187.4	22.58	9.299	
3,200.0	3,188.6	3,206.7	3,182.0	11.3	12.2	96.71	-134.3	-226.5	214.7	191.3	23.47	9.151	
3,300.0	3,287.7	3,306.8	3,280.9	11.7	12.7	96.77	-146.9	-232.4	219.5	195.1	24.36	9.011	
3,400.0	3,386.7	3,406.9	3,379.8	12.1	13.2	96.84	-159.5	-238.2	224.3	199.0	25.26	8.879	
3,500.0	3,485.7	3,507.0	3,478.7	12.5	13.8	96.90	-172.1	-244.1	229.0	202.9	26.16	8.754	
3,600.0	3,584.8	3,607.2	3,577.7	12.9	14.3	96.96	-184.7	-250.0	233.8	206.7	27.07	8.636	
3,700.0	3,683.8	3,707.3	3,676.6	13.3	14.8	97.01	-197.3	-255.9	238.5	210.6	27.98	8.525	
3,800.0	3,782.8	3,807.4	3,775.5	13.7	15.3	97.07	-209.9	-261.8	243.3	214.4	28.90	8.419	
3,900.0	3,881.8	3,907.5	3,874.4	14.1	15.8	97.12	-222.5	-267.7	248.1	218.3	29.82	8.319	
4,000.0	3,980.9	4,007.6	3,973.3	14.5	16.3	97.17	-235.1	-273.6	252.8	222.1	30.74	8.224	
4,100.0	4,079.9	4,092.3	4,072.2	14.9	16.8	97.22	-247.7	-279.5	257.6	226.0	31.59	8.154	
4,200.0	4,178.9	4,207.8	4,171.1	15.3	17.4	97.26	-260.3	-285.4	262.4	229.8	32.60	8.048	
4,300.0	4,277.9	4,308.0	4,270.1	15.8	17.9	97.31	-272.9	-291.3	267.1	233.6	33.53	7.967	
4,400.0	4,377.0	4,408.1	4,369.0	16.2	18.5	97.35	-285.5	-297.1	271.9	237.4	34.47	7.889	
4,500.0	4,476.0	4,508.2	4,467.9	16.6	19.0	97.39	-298.0	-303.0	276.7	241.3	35.40	7.815	
4,600.0	4,575.0	4,591.7	4,566.8	17.0	19.4	97.43	-310.6	-308.9	281.4	245.2	36.25	7.763	
4,700.0	4,674.0	4,708.4	4,665.7	17.4	20.1	97.47	-323.2	-314.8	286.2	248.9	37.28	7.677	
4,800.0	4,773.1	4,808.5	4,764.6	17.8	20.6	97.51	-335.8	-320.7	291.0	252.7	38.22	7.613	
4,900.0	4,872.1	4,908.6	4,863.5	18.2	21.1	97.55	-348.4	-326.6	295.7	256.6	39.16	7.551	
5,000.0	4,971.1	5,008.8	4,962.5	18.6	21.7	97.58	-361.0	-332.5	300.5	260.4	40.11	7.492	
5,100.0	5,070.2	5,108.9	5,061.4	19.1	22.2	97.62	-373.6	-338.4	305.3	264.2	41.05	7.436	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #114H - 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
5,200.0	5,169.2	5,209.0	5,160.3	19.5	22.7	97.65	-386.2	-344.3	310.0	268.0	42.00	7.382	
5,221.2	5,190.2	5,212.2	5,181.3	19.6	22.8	97.66	-388.9	-345.5	311.0	268.9	42.11	7.387	
5,300.0	5,268.3	5,309.1	5,259.2	19.9	23.3	97.59	-398.8	-350.2	314.7	271.8	42.94	7.329	
5,400.0	5,367.8	5,390.8	5,358.1	20.3	23.7	97.09	-411.4	-356.0	319.0	275.3	43.76	7.291	
5,500.0	5,467.4	5,509.5	5,456.9	20.7	24.4	96.14	-423.9	-361.9	323.1	278.4	44.74	7.223	
5,600.0	5,567.3	5,590.1	5,555.5	21.0	24.8	94.76	-436.5	-367.8	327.1	281.6	45.48	7.192	
5,700.0	5,667.2	5,689.4	5,653.9	21.4	25.3	92.97	-449.0	-373.6	331.1	284.8	46.28	7.154	
5,754.5	5,721.8	5,743.5	5,707.4	21.5	25.6	-82.84	-455.8	-376.8	333.4	286.7	46.68	7.141	
5,800.0	5,767.2	5,788.5	5,752.0	21.7	25.9	-83.86	-461.5	-379.5	335.4	288.4	47.01	7.135	
5,900.0	5,867.2	5,890.3	5,852.9	22.0	26.4	-85.98	-473.5	-385.1	339.9	292.2	47.73	7.121	
6,000.0	5,967.2	5,993.2	5,955.2	22.3	26.9	-87.64	-483.2	-389.6	343.8	295.3	48.42	7.100	
6,100.0	6,067.2	6,096.6	6,058.3	22.6	27.3	-88.85	-490.4	-393.0	346.8	297.7	49.09	7.065	
6,200.0	6,167.2	6,200.4	6,162.0	22.9	27.7	-89.63	-495.1	-395.2	348.9	299.1	49.73	7.015	
6,300.0	6,267.2	6,304.3	6,265.9	23.2	28.0	-89.98	-497.2	-396.2	349.8	299.5	50.36	6.946	
6,400.0	6,367.2	6,405.7	6,367.2	23.6	28.3	-90.00	-497.3	-396.2	349.9	298.9	50.95	6.867	
6,500.0	6,467.2	6,505.7	6,467.2	23.9	28.6	-90.00	-497.3	-396.2	349.9	298.3	51.54	6.789	
6,600.0	6,567.2	6,605.7	6,567.2	24.2	28.8	-90.00	-497.3	-396.2	349.9	297.8	52.13	6.712	
6,700.0	6,667.2	6,705.7	6,667.2	24.5	29.1	-90.00	-497.3	-396.2	349.9	297.2	52.72	6.637	
6,800.0	6,767.2	6,805.7	6,767.2	24.8	29.4	-90.00	-497.3	-396.2	349.9	296.6	53.31	6.563	
6,900.0	6,867.2	6,905.7	6,867.2	25.2	29.6	-90.00	-497.3	-396.2	349.9	296.0	53.91	6.490	
7,000.0	6,967.2	7,005.7	6,967.2	25.5	29.9	-90.00	-497.3	-396.2	349.9	295.4	54.51	6.418	
7,100.0	7,067.2	7,105.7	7,067.2	25.8	30.2	-90.00	-497.3	-396.2	349.9	294.8	55.12	6.348	
7,200.0	7,167.2	7,205.7	7,167.2	26.1	30.5	-90.00	-497.3	-396.2	349.9	294.2	55.72	6.279	
7,300.0	7,267.2	7,305.7	7,267.2	26.5	30.7	-90.00	-497.3	-396.2	349.9	293.5	56.33	6.211	
7,400.0	7,367.2	7,405.7	7,367.2	26.8	31.0	-90.00	-497.3	-396.2	349.9	292.9	56.95	6.144	
7,500.0	7,467.2	7,505.7	7,467.2	27.1	31.3	-90.00	-497.3	-396.2	349.9	292.3	57.56	6.079	
7,600.0	7,567.2	7,605.7	7,567.2	27.5	31.6	-90.00	-497.3	-396.2	349.9	291.7	58.18	6.014	
7,700.0	7,667.2	7,705.7	7,667.2	27.8	31.9	-90.00	-497.3	-396.2	349.9	291.1	58.79	5.951	
7,800.0	7,767.2	7,805.7	7,767.2	28.1	32.1	-90.00	-497.3	-396.2	349.9	290.5	59.41	5.889	
7,900.0	7,867.2	7,905.7	7,867.2	28.4	32.4	-90.00	-497.3	-396.2	349.9	289.8	60.04	5.828	
8,000.0	7,967.2	8,005.7	7,967.2	28.8	32.7	-90.00	-497.3	-396.2	349.9	289.2	60.66	5.768	
8,100.0	8,067.2	8,105.7	8,067.2	29.1	33.0	-90.00	-497.3	-396.2	349.9	288.6	61.29	5.709	
8,200.0	8,167.2	8,205.7	8,167.2	29.4	33.3	-90.00	-497.3	-396.2	349.9	288.0	61.92	5.651	
8,300.0	8,267.2	8,305.7	8,267.2	29.8	33.6	-90.00	-497.3	-396.2	349.9	287.3	62.55	5.594	
8,400.0	8,367.2	8,405.7	8,367.2	30.1	33.9	-90.00	-497.3	-396.2	349.9	286.7	63.18	5.538	
8,500.0	8,467.2	8,505.7	8,467.2	30.4	34.2	-90.00	-497.3	-396.2	349.9	286.1	63.81	5.483	
8,600.0	8,567.2	8,605.7	8,567.2	30.8	34.5	-90.00	-497.3	-396.2	349.9	285.4	64.45	5.429	
8,700.0	8,667.2	8,705.7	8,667.2	31.1	34.8	-90.00	-497.3	-396.2	349.9	284.8	65.09	5.376	
8,800.0	8,767.2	8,805.7	8,767.2	31.4	35.1	-90.00	-497.3	-396.2	349.9	284.2	65.72	5.323	
8,900.0	8,867.2	8,905.7	8,867.2	31.8	35.4	-90.00	-497.3	-396.2	349.9	283.5	66.36	5.272	
9,000.0	8,967.2	9,005.7	8,967.2	32.1	35.7	-90.00	-497.3	-396.2	349.9	282.9	67.01	5.222	
9,100.0	9,067.2	9,105.7	9,067.2	32.5	36.0	-90.00	-497.3	-396.2	349.9	282.2	67.65	5.172	
9,200.0	9,167.2	9,205.7	9,167.2	32.8	36.3	-90.00	-497.3	-396.2	349.9	281.6	68.29	5.123	
9,300.0	9,267.2	9,305.7	9,267.2	33.1	36.6	-90.00	-497.3	-396.2	349.9	280.9	68.94	5.075	
9,400.0	9,367.2	9,405.7	9,367.2	33.5	36.9	-90.00	-497.3	-396.2	349.9	280.3	69.59	5.028	
9,500.0	9,467.2	9,508.9	9,470.4	33.8	37.2	-89.93	-496.9	-396.1	349.8	279.6	70.24	4.980	
9,600.0	9,567.2	9,622.9	9,583.1	34.2	37.5	-87.40	-481.6	-392.5	346.8	275.9	70.90	4.891	
9,700.0	9,667.2	9,726.9	9,681.5	34.5	37.6	-81.86	-449.0	-384.6	342.0	270.3	71.71	4.770	
9,775.6	9,742.8	9,796.1	9,742.8	34.7	37.7	-76.50	-417.9	-377.2	340.2	267.9	72.31	4.705	
9,800.0	9,767.2	9,816.6	9,760.2	34.8	37.8	-74.67	-407.4	-374.6	340.5	268.0	72.45	4.699	SF
9,900.0	9,867.2	9,891.2	9,819.9	35.2	37.9	-67.24	-364.0	-364.2	347.9	275.6	72.35	4.809	
10,000.0	9,967.2	9,952.3	9,864.2	35.5	38.0	-60.51	-323.1	-354.4	368.6	298.0	70.62	5.220	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #114H - 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
10,100.0	10,067.2	10,000.0	9,895.5	35.9	38.2	-55.08	-288.1	-346.0	403.8	336.7	67.15	6.013	
10,200.0	10,167.2	10,043.1	9,921.1	36.2	38.3	-50.20	-254.4	-337.9	452.3	389.4	62.93	7.187	
10,300.0	10,267.2	10,076.9	9,939.4	36.5	38.4	-46.48	-226.7	-331.3	511.8	453.3	58.45	8.756	
10,400.0	10,367.2	10,100.0	9,950.8	36.9	38.5	-44.01	-207.3	-326.6	579.7	525.7	54.02	10.731	
10,500.0	10,467.2	10,129.1	9,964.1	37.2	38.7	-41.02	-182.1	-320.6	654.0	603.3	50.63	12.918	
10,600.0	10,567.2	10,150.0	9,972.9	37.6	38.8	-38.95	-163.6	-316.1	733.1	685.5	47.56	15.415	
10,700.0	10,667.2	10,167.0	9,979.4	37.9	38.9	-37.33	-148.4	-312.5	815.9	770.9	44.96	18.147	
10,800.0	10,767.2	10,182.2	9,984.9	38.3	39.0	-35.93	-134.6	-309.2	901.5	858.6	42.83	21.048	
10,900.0	10,867.2	10,200.0	9,990.9	38.6	39.1	-34.34	-118.3	-305.3	989.3	948.1	41.22	23.999	
11,000.0	10,967.2	10,200.0	9,990.9	38.9	39.1	-34.34	-118.3	-305.3	1,078.9	1,039.4	39.43	27.360	
11,100.0	11,067.2	10,217.7	9,996.3	39.3	39.2	-32.82	-102.0	-301.3	1,169.7	1,131.3	38.47	30.406	
11,200.0	11,167.2	10,227.0	9,998.9	39.6	39.3	-32.04	-93.3	-299.2	1,261.8	1,224.3	37.52	33.635	
11,300.0	11,267.2	10,250.0	10,004.8	40.0	39.5	-30.19	-71.6	-294.0	1,355.1	1,318.1	37.07	36.555	
11,400.0	11,367.2	10,250.0	10,004.8	40.3	39.5	-30.19	-71.6	-294.0	1,448.7	1,412.5	36.26	39.949	
11,500.0	11,467.2	10,250.0	10,004.8	40.7	39.5	-30.19	-71.6	-294.0	1,543.2	1,507.5	35.63	43.313	
11,600.0	11,567.2	10,250.0	10,004.8	41.0	39.5	-30.19	-71.6	-294.0	1,638.2	1,603.1	35.13	46.631	
11,700.0	11,667.2	10,250.0	10,004.8	41.4	39.5	-30.19	-71.6	-294.0	1,733.9	1,699.1	34.75	49.891	
11,800.0	11,767.2	10,250.0	10,004.8	41.7	39.5	-30.19	-71.6	-294.0	1,830.0	1,795.5	34.47	53.086	
11,820.8	11,788.0	10,267.9	10,008.7	41.8	39.6	-28.83	-54.7	-290.0	1,849.6	1,814.9	34.68	53.332	
11,850.0	11,817.2	10,269.5	10,009.1	41.9	39.6	-16.32	-53.2	-289.6	1,877.6	1,842.9	34.62	54.230	
11,900.0	11,867.0	10,272.8	10,009.7	42.0	39.7	-12.81	-50.0	-288.8	1,924.3	1,889.9	34.49	55.793	
11,950.0	11,916.1	10,276.9	10,010.5	42.2	39.7	-10.49	-46.1	-287.9	1,969.7	1,935.3	34.33	57.381	
12,000.0	11,964.3	10,281.6	10,011.4	42.3	39.7	-8.85	-41.6	-286.8	2,013.2	1,979.1	34.13	58.981	
12,050.0	12,011.2	10,300.0	10,014.4	42.5	39.9	-7.34	-23.9	-282.6	2,055.0	2,020.9	34.07	60.312	
12,100.0	12,056.3	10,300.0	10,014.4	42.6	39.9	-6.57	-23.9	-282.6	2,094.3	2,060.5	33.77	62.020	
12,150.0	12,099.4	10,300.0	10,014.4	42.7	39.9	-5.97	-23.9	-282.6	2,131.3	2,097.8	33.46	63.698	
12,200.0	12,140.2	10,300.0	10,014.4	42.8	39.9	-5.49	-23.9	-282.6	2,165.8	2,132.7	33.15	65.324	
12,250.0	12,178.2	10,300.0	10,014.4	42.9	39.9	-5.11	-23.9	-282.6	2,197.7	2,164.9	32.86	66.872	
12,300.0	12,213.3	10,321.0	10,017.2	42.9	40.1	-4.52	-3.7	-277.7	2,226.5	2,193.7	32.75	67.982	
12,350.0	12,245.1	10,328.9	10,018.1	43.0	40.2	-4.19	3.9	-275.9	2,252.4	2,219.9	32.54	69.210	
12,400.0	12,273.5	10,350.0	10,019.8	43.1	40.3	-3.76	24.4	-271.0	2,275.4	2,243.0	32.44	70.146	
12,450.0	12,298.2	10,350.0	10,019.8	43.1	40.3	-3.63	24.4	-271.0	2,294.9	2,262.7	32.24	71.191	
12,500.0	12,319.0	10,350.0	10,019.8	43.2	40.3	-3.52	24.4	-271.0	2,311.3	2,279.2	32.09	72.025	
12,550.0	12,335.7	10,350.0	10,019.8	43.3	40.3	-3.43	24.4	-271.0	2,324.5	2,292.5	32.01	72.621	
12,600.0	12,348.3	10,371.8	10,020.8	43.4	40.6	-3.16	45.5	-265.9	2,334.0	2,302.0	32.03	72.876	
12,650.0	12,356.6	10,386.4	10,021.0	43.4	40.7	-2.98	59.8	-262.5	2,340.2	2,308.2	32.07	72.974	
12,700.0	12,360.6	10,402.8	10,021.0	43.5	40.9	-2.81	75.7	-258.7	2,342.9	2,310.8	32.16	72.855	
12,720.8	12,361.0	10,421.2	10,021.0	43.5	41.1	-2.64	93.6	-254.6	2,342.9	2,310.7	32.21	72.739	
12,800.0	12,361.0	10,492.7	10,021.0	43.7	42.0	-2.04	163.5	-239.6	2,341.7	2,309.2	32.44	72.184	
12,900.0	12,361.0	10,585.7	10,021.0	43.9	43.2	-1.38	255.0	-222.7	2,340.7	2,307.9	32.85	71.255	
13,000.0	12,361.0	10,681.4	10,021.0	44.2	44.7	-0.85	349.7	-208.5	2,340.3	2,306.9	33.37	70.131	
13,100.0	12,361.0	10,779.1	10,021.0	44.6	46.3	-0.45	446.7	-197.2	2,340.1	2,306.1	33.98	68.860	
13,167.2	12,361.0	10,845.6	10,021.0	44.9	47.4	-0.28	512.9	-191.5	2,340.0	2,305.6	34.44	67.942	
13,200.0	12,361.0	10,878.2	10,021.0	45.0	48.0	-0.22	545.4	-189.2	2,340.0	2,305.3	34.68	67.483	
13,300.0	12,361.0	10,977.8	10,021.0	45.5	49.8	-0.08	644.9	-184.6	2,340.0	2,304.6	35.43	66.041	
13,400.0	12,361.0	11,077.7	10,021.0	46.0	51.6	-0.02	744.8	-183.4	2,340.0	2,303.8	36.25	64.559	
13,441.4	12,361.0	11,119.1	10,021.0	46.2	52.4	-0.02	786.2	-183.8	2,340.0	2,303.4	36.60	63.931	
13,500.0	12,361.0	11,177.7	10,021.0	46.6	53.6	-0.02	844.8	-184.3	2,340.0	2,302.9	37.11	63.052	
13,600.0	12,361.0	11,277.7	10,021.0	47.2	55.7	-0.02	944.8	-185.3	2,340.0	2,302.0	38.02	61.543	
13,700.0	12,361.0	11,377.7	10,021.0	47.8	57.8	-0.02	1,044.8	-186.3	2,340.0	2,301.0	38.97	60.040	
13,800.0	12,361.0	11,477.7	10,021.0	48.6	60.0	-0.02	1,144.8	-187.3	2,340.0	2,300.0	39.96	58.553	
13,900.0	12,361.0	11,577.7	10,021.0	49.3	62.3	-0.02	1,244.8	-188.3	2,340.0	2,299.0	40.99	57.089	

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

Matador PRODUCTION COMPANY

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #114H - 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
14,000.0	12,361.0	11,677.7	10,021.0	50.1	64.7	-0.02	1,344.8	-189.3	2,340.0	2,298.0	42.05	55.652	
14,100.0	12,361.0	11,777.7	10,021.0	51.0	67.2	-0.02	1,444.8	-190.3	2,340.0	2,296.9	43.14	54.248	
14,200.0	12,361.0	11,877.7	10,021.0	51.9	69.6	-0.02	1,544.8	-191.3	2,340.0	2,295.7	44.25	52.879	
14,300.0	12,361.0	11,977.7	10,021.0	52.8	72.2	-0.02	1,644.8	-192.2	2,340.0	2,294.6	45.39	51.548	
14,400.0	12,361.0	12,077.7	10,021.0	53.7	74.7	-0.02	1,744.8	-193.2	2,340.0	2,293.4	46.56	50.256	
14,500.0	12,361.0	12,177.7	10,021.0	54.7	77.3	-0.02	1,844.8	-194.2	2,340.0	2,292.2	47.75	49.004	
14,600.0	12,361.0	12,277.7	10,021.0	55.7	80.0	-0.02	1,944.8	-195.2	2,340.0	2,291.0	48.96	47.793	
14,700.0	12,361.0	12,377.7	10,021.0	56.8	82.7	-0.02	2,044.8	-196.2	2,340.0	2,289.8	50.19	46.622	
14,800.0	12,361.0	12,477.7	10,021.0	57.9	85.4	-0.02	2,144.8	-197.2	2,340.0	2,288.6	51.44	45.491	
14,900.0	12,361.0	12,577.7	10,021.0	59.0	88.1	-0.02	2,244.8	-198.2	2,340.0	2,287.3	52.70	44.400	
15,000.0	12,361.0	12,677.7	10,021.0	60.1	90.8	-0.02	2,344.7	-199.2	2,340.0	2,286.0	53.98	43.347	
15,100.0	12,361.0	12,777.7	10,021.0	61.3	93.6	-0.02	2,444.7	-200.1	2,340.0	2,284.7	55.28	42.332	
15,200.0	12,361.0	12,877.7	10,021.0	62.4	96.4	-0.02	2,544.7	-201.1	2,340.0	2,283.4	56.58	41.354	
15,300.0	12,361.0	12,977.7	10,021.0	63.6	99.2	-0.02	2,644.7	-202.1	2,340.0	2,282.1	57.91	40.411	
15,400.0	12,361.0	13,077.7	10,021.0	64.9	102.0	-0.02	2,744.7	-203.1	2,340.0	2,280.8	59.24	39.502	
15,500.0	12,361.0	13,177.7	10,021.0	66.1	104.8	-0.02	2,844.7	-204.1	2,340.0	2,279.4	60.58	38.626	
15,600.0	12,361.0	13,277.7	10,021.0	67.4	107.7	-0.02	2,944.7	-205.1	2,340.0	2,278.1	61.94	37.781	
15,700.0	12,361.0	13,377.7	10,021.0	68.6	110.6	-0.02	3,044.7	-206.1	2,340.0	2,276.7	63.30	36.967	
15,800.0	12,361.0	13,477.7	10,021.0	69.9	113.4	-0.02	3,144.7	-207.1	2,340.0	2,275.3	64.67	36.183	
15,900.0	12,361.0	13,577.7	10,021.0	71.2	116.3	-0.02	3,244.7	-208.0	2,340.0	2,273.9	66.05	35.426	
16,000.0	12,361.0	13,677.7	10,021.0	72.5	119.2	-0.02	3,344.7	-209.0	2,340.0	2,272.6	67.44	34.696	
16,100.0	12,361.0	13,777.7	10,021.0	73.9	122.1	-0.02	3,444.7	-210.0	2,340.0	2,271.2	68.84	33.992	
16,200.0	12,361.0	13,877.7	10,021.0	75.2	125.0	-0.02	3,544.7	-211.0	2,340.0	2,269.8	70.24	33.313	
16,300.0	12,361.0	13,977.7	10,021.0	76.6	127.9	-0.02	3,644.7	-212.0	2,340.0	2,268.3	71.65	32.657	
16,400.0	12,361.0	14,077.7	10,021.0	77.9	130.9	-0.02	3,744.7	-213.0	2,340.0	2,266.9	73.07	32.023	
16,500.0	12,361.0	14,177.7	10,021.0	79.3	133.8	-0.02	3,844.7	-214.0	2,340.0	2,265.5	74.49	31.412	
16,600.0	12,361.0	14,277.7	10,021.0	80.7	136.7	-0.02	3,944.7	-215.0	2,340.0	2,264.1	75.92	30.821	
16,700.0	12,361.0	14,377.7	10,021.0	82.1	139.7	-0.02	4,044.7	-215.9	2,340.0	2,262.6	77.36	30.249	
16,800.0	12,361.0	14,477.7	10,021.0	83.5	142.6	-0.01	4,144.7	-216.9	2,340.0	2,261.2	78.80	29.697	
16,900.0	12,361.0	14,577.7	10,021.0	84.9	145.6	-0.01	4,244.7	-217.9	2,340.0	2,259.8	80.24	29.162	
17,000.0	12,361.0	14,677.7	10,021.0	86.4	148.5	-0.01	4,344.7	-218.9	2,340.0	2,258.3	81.69	28.645	
17,100.0	12,361.0	14,777.7	10,021.0	87.8	151.5	-0.01	4,444.6	-219.9	2,340.0	2,256.9	83.14	28.144	
17,200.0	12,361.0	14,877.7	10,021.0	89.2	154.5	-0.01	4,544.6	-220.9	2,340.0	2,255.4	84.60	27.660	
17,300.0	12,361.0	14,977.7	10,021.0	90.7	157.4	-0.01	4,644.6	-221.9	2,340.0	2,253.9	86.06	27.190	
17,400.0	12,361.0	15,077.7	10,021.0	92.2	160.4	-0.01	4,744.6	-222.9	2,340.0	2,252.5	87.53	26.735	
17,500.0	12,361.0	15,177.7	10,021.0	93.6	163.4	-0.01	4,844.6	-223.8	2,340.0	2,251.0	88.99	26.294	
17,600.0	12,361.0	15,277.7	10,021.0	95.1	166.4	-0.01	4,944.6	-224.8	2,340.0	2,249.5	90.46	25.866	
17,700.0	12,361.0	15,377.7	10,021.0	96.6	169.4	-0.01	5,044.6	-225.8	2,340.0	2,248.1	91.94	25.452	
17,800.0	12,361.0	15,477.7	10,021.0	98.0	172.4	-0.01	5,144.6	-226.8	2,340.0	2,246.6	93.42	25.049	
17,900.0	12,361.0	15,577.7	10,021.0	99.5	175.4	-0.01	5,244.6	-227.8	2,340.0	2,245.1	94.90	24.658	
18,000.0	12,361.0	15,677.7	10,021.0	101.0	178.4	-0.01	5,344.6	-228.8	2,340.0	2,243.6	96.38	24.279	
18,100.0	12,361.0	15,777.7	10,021.0	102.5	181.4	-0.01	5,444.6	-229.8	2,340.0	2,242.1	97.87	23.910	
18,200.0	12,361.0	15,877.7	10,021.0	104.0	184.4	-0.01	5,544.6	-230.8	2,340.0	2,240.6	99.36	23.552	
18,300.0	12,361.0	15,977.7	10,021.0	105.5	187.4	-0.01	5,644.6	-231.7	2,340.0	2,239.2	100.85	23.203	
18,400.0	12,361.0	16,077.7	10,021.0	107.0	190.4	-0.01	5,744.6	-232.7	2,340.0	2,237.7	102.34	22.865	
18,500.0	12,361.0	16,177.7	10,021.0	108.6	193.4	-0.01	5,844.6	-233.7	2,340.0	2,236.2	103.84	22.535	
18,600.0	12,361.0	16,277.7	10,021.0	110.1	196.4	-0.01	5,944.6	-234.7	2,340.0	2,234.7	105.33	22.215	
18,700.0	12,361.0	16,377.7	10,021.0	111.6	199.4	-0.01	6,044.6	-235.7	2,340.0	2,233.2	106.83	21.903	
18,800.0	12,361.0	16,477.7	10,021.0	113.1	202.4	-0.01	6,144.6	-236.7	2,340.0	2,231.7	108.34	21.600	
18,900.0	12,361.0	16,577.7	10,021.0	114.7	205.4	-0.01	6,244.6	-237.7	2,340.0	2,230.2	109.84	21.304	
19,000.0	12,361.0	16,677.7	10,021.0	116.2	208.4	-0.01	6,344.6	-238.7	2,340.0	2,228.7	111.34	21.016	
19,100.0	12,361.0	16,777.7	10,021.0	117.7	211.5	-0.01	6,444.5	-239.6	2,340.0	2,227.1	112.85	20.735	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #114H - 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
19,200.0	12,361.0	16,877.7	10,021.0	119.3	214.5	-0.01	6,544.5	-240.6	2,340.0	2,225.6	114.36	20.462	
19,300.0	12,361.0	16,977.7	10,021.0	120.8	217.5	-0.01	6,644.5	-241.6	2,340.0	2,224.1	115.87	20.195	
19,400.0	12,361.0	17,077.7	10,021.0	122.4	220.5	-0.01	6,744.5	-242.6	2,340.0	2,222.6	117.38	19.935	
19,500.0	12,361.0	17,177.7	10,021.0	123.9	223.6	-0.01	6,844.5	-243.6	2,340.0	2,221.1	118.90	19.681	
19,600.0	12,361.0	17,277.7	10,021.0	125.5	226.6	-0.01	6,944.5	-244.6	2,340.0	2,219.6	120.41	19.433	
19,700.0	12,361.0	17,377.7	10,021.0	127.0	229.6	-0.01	7,044.5	-245.6	2,340.0	2,218.1	121.93	19.192	
19,800.0	12,361.0	17,477.7	10,021.0	128.6	232.6	-0.01	7,144.5	-246.6	2,340.0	2,216.6	123.45	18.956	
19,900.0	12,361.0	17,577.7	10,021.0	130.1	235.7	-0.01	7,244.5	-247.5	2,340.0	2,215.0	124.96	18.725	
20,000.0	12,361.0	17,677.7	10,021.0	131.7	238.7	-0.01	7,344.5	-248.5	2,340.0	2,213.5	126.48	18.500	
20,100.0	12,361.0	17,777.7	10,021.0	133.3	241.7	-0.01	7,444.5	-249.5	2,340.0	2,212.0	128.01	18.281	
20,200.0	12,361.0	17,877.7	10,021.0	134.8	244.8	-0.01	7,544.5	-250.5	2,340.0	2,210.5	129.53	18.066	
20,300.0	12,361.0	17,977.7	10,021.0	136.4	247.8	-0.01	7,644.5	-251.5	2,340.0	2,208.9	131.05	17.856	
20,400.0	12,361.0	18,077.7	10,021.0	138.0	250.8	-0.01	7,744.5	-252.5	2,340.0	2,207.4	132.58	17.650	
20,500.0	12,361.0	18,177.7	10,021.0	139.5	253.9	-0.01	7,844.5	-253.5	2,340.0	2,205.9	134.10	17.449	
20,600.0	12,361.0	18,277.7	10,021.0	141.1	256.9	-0.01	7,944.5	-254.5	2,340.0	2,204.4	135.63	17.253	
20,700.0	12,361.0	18,377.7	10,021.0	142.7	260.0	-0.01	8,044.5	-255.4	2,340.0	2,202.8	137.16	17.061	
20,800.0	12,361.0	18,477.7	10,021.0	144.3	263.0	0.00	8,144.5	-256.4	2,340.0	2,201.3	138.68	16.873	
20,900.0	12,361.0	18,577.7	10,021.0	145.8	266.0	0.00	8,244.5	-257.4	2,340.0	2,199.8	140.21	16.689	
21,000.0	12,361.0	18,677.7	10,021.0	147.4	269.1	0.00	8,344.5	-258.4	2,340.0	2,198.3	141.74	16.509	
21,100.0	12,361.0	18,777.7	10,021.0	149.0	272.1	0.00	8,444.5	-259.4	2,340.0	2,196.7	143.27	16.332	
21,200.0	12,361.0	18,877.7	10,021.0	150.6	275.2	0.00	8,544.4	-260.4	2,340.0	2,195.2	144.81	16.159	
21,300.0	12,361.0	18,977.7	10,021.0	152.2	278.2	0.00	8,644.4	-261.4	2,340.0	2,193.7	146.34	15.990	
21,400.0	12,361.0	19,077.7	10,021.0	153.8	281.3	0.00	8,744.4	-262.4	2,340.0	2,192.1	147.87	15.824	
21,500.0	12,361.0	19,177.7	10,021.0	155.4	284.3	0.00	8,844.4	-263.3	2,340.0	2,190.6	149.41	15.662	
21,600.0	12,361.0	19,277.7	10,021.0	156.9	287.3	0.00	8,944.4	-264.3	2,340.0	2,189.1	150.94	15.503	
21,700.0	12,361.0	19,377.7	10,021.0	158.5	290.4	0.00	9,044.4	-265.3	2,340.0	2,187.5	152.48	15.347	
21,800.0	12,361.0	19,477.7	10,021.0	160.1	293.4	0.00	9,144.4	-266.3	2,340.0	2,186.0	154.01	15.193	
21,900.0	12,361.0	19,577.7	10,021.0	161.7	296.5	0.00	9,244.4	-267.3	2,340.0	2,184.4	155.55	15.043	
22,000.0	12,361.0	19,677.7	10,021.0	163.3	299.5	0.00	9,344.4	-268.3	2,340.0	2,182.9	157.09	14.896	
22,100.0	12,361.0	19,777.7	10,021.0	164.9	302.6	0.00	9,444.4	-269.3	2,340.0	2,181.4	158.63	14.752	
22,200.0	12,361.0	19,877.7	10,021.0	166.5	305.6	0.00	9,544.4	-270.3	2,340.0	2,179.8	160.17	14.610	
22,300.0	12,361.0	19,977.7	10,021.0	168.1	308.7	0.00	9,644.4	-271.2	2,340.0	2,178.3	161.71	14.471	
22,400.0	12,361.0	20,077.7	10,021.0	169.7	311.7	0.00	9,744.4	-272.2	2,340.0	2,176.8	163.25	14.334	
22,500.0	12,361.0	20,177.7	10,021.0	171.3	314.8	0.00	9,844.4	-273.2	2,340.0	2,175.2	164.79	14.200	
22,600.0	12,361.0	20,277.7	10,021.0	172.9	317.8	0.00	9,944.4	-274.2	2,340.0	2,173.7	166.33	14.069	
22,613.5	12,361.0	20,291.2	10,021.0	173.1	318.2	0.00	9,957.9	-274.3	2,340.0	2,173.5	166.53	14.051	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #124H - 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	2.0	-2.0	0.0	0.0	-63.94	29.5	-60.2	67.1				
100.0	100.0	102.0	98.0	0.1	0.1	-63.94	29.5	-60.2	67.1	66.8	0.26	254.488	
200.0	200.0	202.0	198.0	0.5	0.5	-63.94	29.5	-60.2	67.1	66.1	0.98	68.391	
300.0	300.0	302.0	298.0	0.8	0.9	-63.94	29.5	-60.2	67.1	65.4	1.70	39.503	
400.0	400.0	402.0	398.0	1.2	1.2	-63.94	29.5	-60.2	67.1	64.6	2.41	27.773	
500.0	500.0	502.0	498.0	1.6	1.6	-63.94	29.5	-60.2	67.1	63.9	3.13	21.414	
600.0	600.0	602.0	598.0	1.9	1.9	-63.94	29.5	-60.2	67.1	63.2	3.85	17.424	
700.0	700.0	702.0	698.0	2.3	2.3	-63.94	29.5	-60.2	67.1	62.5	4.57	14.688	
800.0	800.0	802.0	798.0	2.6	2.6	-63.94	29.5	-60.2	67.1	61.8	5.28	12.694	
900.0	900.0	902.0	898.0	3.0	3.0	-63.94	29.5	-60.2	67.1	61.1	6.00	11.177	
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	-63.94	29.5	-60.2	67.1	60.3	6.72	9.984	
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	-63.94	29.5	-60.2	67.1	59.6	7.43	9.021	
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	-63.94	29.5	-60.2	67.1	58.9	8.15	8.227	
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	-63.94	29.5	-60.2	67.1	58.2	8.87	7.562	
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	-63.94	29.5	-60.2	67.1	57.5	9.58	6.996	
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	-63.94	29.5	-60.2	67.1	56.8	10.30	6.509	CC
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	111.43	29.5	-60.2	67.4	56.4	11.00	6.124	ES
1,700.0	1,700.0	1,702.0	1,698.0	5.8	5.9	113.46	29.5	-60.2	68.4	56.7	11.68	5.851	
1,800.0	1,799.9	1,802.1	1,797.9	6.1	6.2	116.71	29.5	-60.2	70.2	57.8	12.37	5.676	
1,900.0	1,899.7	1,902.3	1,897.7	6.5	6.6	120.95	29.5	-60.2	73.2	60.1	13.06	5.601	
2,000.0	1,999.4	1,997.4	1,997.4	6.8	6.9	125.89	29.5	-60.2	77.5	63.8	13.74	5.640	
2,100.0	2,098.9	2,097.6	2,097.6	7.2	7.3	130.70	28.7	-60.5	83.1	68.7	14.43	5.760	
2,200.0	2,198.3	2,198.0	2,197.9	7.5	7.6	134.73	26.2	-61.3	89.5	74.4	15.10	5.928	
2,300.0	2,297.4	2,298.5	2,298.4	7.9	7.9	138.06	22.0	-62.6	96.5	80.8	15.77	6.121	
2,400.0	2,396.4	2,399.2	2,398.9	8.2	8.3	140.52	16.2	-64.4	103.4	87.0	16.45	6.288	
2,500.0	2,495.5	2,500.2	2,499.6	8.6	8.6	141.96	8.6	-66.8	109.4	92.2	17.14	6.383	
2,600.0	2,594.5	2,601.4	2,600.3	9.0	8.9	142.57	-0.6	-69.7	114.2	96.4	17.83	6.408	
2,700.0	2,693.5	2,702.6	2,700.9	9.4	9.3	142.49	-11.6	-73.2	117.9	99.4	18.53	6.367	
2,800.0	2,792.5	2,803.9	2,801.3	9.7	9.6	141.75	-24.2	-77.2	120.5	101.3	19.23	6.266	
2,900.0	2,891.6	2,903.8	2,900.2	10.1	10.0	140.77	-37.5	-81.4	122.6	102.6	19.96	6.143	
3,000.0	2,990.6	3,003.8	2,999.2	10.5	10.4	139.81	-50.8	-85.5	124.7	104.0	20.69	6.028	
3,100.0	3,089.6	3,103.8	3,098.2	10.9	10.7	138.89	-64.0	-89.7	126.9	105.4	21.43	5.920	
3,200.0	3,188.6	3,203.7	3,197.2	11.3	11.1	138.00	-77.3	-93.9	129.0	106.9	22.17	5.820	
3,300.0	3,287.7	3,303.7	3,296.2	11.7	11.5	137.14	-90.6	-98.1	131.2	108.3	22.92	5.725	
3,400.0	3,386.7	3,403.6	3,395.1	12.1	11.9	136.30	-103.8	-102.3	133.5	109.8	23.68	5.637	
3,500.0	3,485.7	3,503.6	3,494.1	12.5	12.2	135.50	-117.1	-106.5	135.8	111.3	24.44	5.554	
3,600.0	3,584.8	3,603.5	3,593.1	12.9	12.6	134.72	-130.4	-110.6	138.0	112.8	25.21	5.476	
3,700.0	3,683.8	3,703.5	3,692.1	13.3	13.0	133.97	-143.6	-114.8	140.4	114.4	25.98	5.403	
3,800.0	3,782.8	3,803.4	3,791.1	13.7	13.4	133.24	-156.9	-119.0	142.7	115.9	26.76	5.333	
3,900.0	3,881.8	3,903.4	3,890.1	14.1	13.8	132.53	-170.2	-123.2	145.1	117.5	27.54	5.268	
4,000.0	3,980.9	4,003.4	3,989.1	14.5	14.2	131.85	-183.4	-127.4	147.5	119.1	28.32	5.207	
4,100.0	4,079.9	4,103.3	4,088.0	14.9	14.6	131.19	-196.7	-131.6	149.9	120.7	29.11	5.148	
4,200.0	4,178.9	4,203.3	4,187.0	15.3	15.0	130.55	-210.0	-135.7	152.3	122.4	29.90	5.093	
4,300.0	4,277.9	4,303.2	4,286.0	15.8	15.4	129.93	-223.2	-139.9	154.7	124.0	30.69	5.041	
4,400.0	4,377.0	4,403.2	4,385.0	16.2	15.8	129.33	-236.5	-144.1	157.2	125.7	31.49	4.992	
4,500.0	4,476.0	4,503.1	4,484.0	16.6	16.2	128.75	-249.8	-148.3	159.7	127.4	32.29	4.945	
4,600.0	4,575.0	4,603.1	4,583.0	17.0	16.6	128.19	-263.0	-152.5	162.1	129.1	33.09	4.900	
4,700.0	4,674.0	4,703.1	4,681.9	17.4	17.0	127.64	-276.3	-156.7	164.7	130.8	33.89	4.858	
4,800.0	4,773.1	4,803.0	4,780.9	17.8	17.4	127.11	-289.6	-160.9	167.2	132.5	34.70	4.818	
4,900.0	4,872.1	4,903.0	4,879.9	18.2	17.8	126.59	-302.8	-165.0	169.7	134.2	35.51	4.779	
5,000.0	4,971.1	5,002.9	4,978.9	18.6	18.2	126.09	-316.1	-169.2	172.3	135.9	36.32	4.743	
5,100.0	5,070.2	5,102.9	5,077.9	19.1	18.6	125.61	-329.4	-173.4	174.8	137.7	37.13	4.708	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #124H - 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
5,200.0	5,169.2	5,202.8	5,176.9	19.5	19.0	125.14	-342.6	-177.6	177.4	139.5	37.95	4.675	
5,221.2	5,190.2	5,224.0	5,197.9	19.6	19.1	125.04	-345.5	-178.5	177.9	139.8	38.12	4.668	
5,300.0	5,268.3	5,302.8	5,275.8	19.9	19.4	124.49	-355.9	-181.8	179.5	140.8	38.77	4.631	
5,400.0	5,367.8	5,402.7	5,374.8	20.3	19.8	123.17	-369.2	-186.0	180.3	140.7	39.60	4.552	
5,500.0	5,467.4	5,502.5	5,473.6	20.7	20.2	121.14	-382.4	-190.1	179.7	139.3	40.44	4.444	
5,600.0	5,567.3	5,602.1	5,572.2	21.0	20.6	118.36	-395.6	-194.3	178.2	136.9	41.29	4.315	
5,700.0	5,667.2	5,701.5	5,670.6	21.4	21.1	114.77	-408.8	-198.5	175.9	133.8	42.14	4.174	
5,754.5	5,721.8	5,755.5	5,724.2	21.5	21.3	-62.22	-416.0	-200.7	174.5	131.9	42.60	4.097	
5,800.0	5,767.2	5,800.5	5,768.7	21.7	21.5	-64.25	-422.0	-202.6	173.5	130.5	42.97	4.038	
5,900.0	5,867.2	5,899.6	5,866.8	22.0	21.9	-68.80	-435.1	-206.8	172.0	128.3	43.76	3.931	
5,980.5	5,947.7	5,979.2	5,945.7	22.2	22.2	-72.50	-445.7	-210.1	171.7	127.3	44.39	3.868	
6,000.0	5,967.2	6,001.4	5,964.9	22.3	22.3	-73.39	-448.3	-210.9	171.7	127.2	44.55	3.854	
6,100.0	6,067.2	6,097.6	6,062.9	22.6	22.7	-77.98	-461.4	-215.0	172.5	127.2	45.27	3.810	
6,200.0	6,167.2	6,197.4	6,161.9	22.9	23.1	-82.14	-473.5	-218.9	174.2	128.2	45.98	3.788	
6,300.0	6,267.2	6,297.8	6,261.8	23.2	23.5	-85.40	-483.2	-221.9	176.2	129.5	46.66	3.775	
6,400.0	6,367.2	6,398.6	6,362.3	23.6	23.9	-87.77	-490.4	-224.2	178.0	130.7	47.33	3.760	
6,500.0	6,467.2	6,499.8	6,463.4	23.9	24.2	-89.28	-495.1	-225.7	179.3	131.3	47.99	3.737	
6,600.0	6,567.2	6,601.2	6,564.8	24.2	24.6	-89.96	-497.2	-226.3	180.0	131.3	48.65	3.700	
6,700.0	6,667.2	6,701.7	6,665.2	24.5	24.9	-90.01	-497.4	-226.4	180.0	130.7	49.28	3.653	
6,800.0	6,767.2	6,801.7	6,765.2	24.8	25.2	-90.01	-497.4	-226.4	180.0	130.1	49.92	3.606	
6,900.0	6,867.2	6,901.7	6,865.2	25.2	25.5	-90.01	-497.4	-226.4	180.0	129.5	50.56	3.560	
7,000.0	6,967.2	7,001.7	6,965.2	25.5	25.8	-90.01	-497.4	-226.4	180.0	128.8	51.21	3.516	
7,100.0	7,067.2	7,101.7	7,065.2	25.8	26.2	-90.01	-497.4	-226.4	180.0	128.2	51.85	3.472	
7,200.0	7,167.2	7,201.7	7,165.2	26.1	26.5	-90.01	-497.4	-226.4	180.0	127.5	52.50	3.429	
7,300.0	7,267.2	7,301.7	7,265.2	26.5	26.8	-90.01	-497.4	-226.4	180.0	126.9	53.15	3.387	
7,400.0	7,367.2	7,401.7	7,365.2	26.8	27.1	-90.01	-497.4	-226.4	180.0	126.2	53.80	3.346	
7,500.0	7,467.2	7,501.7	7,465.2	27.1	27.5	-90.01	-497.4	-226.4	180.0	125.6	54.45	3.306	
7,600.0	7,567.2	7,601.7	7,565.2	27.5	27.8	-90.01	-497.4	-226.4	180.0	124.9	55.10	3.267	
7,700.0	7,667.2	7,701.7	7,665.2	27.8	28.1	-90.01	-497.4	-226.4	180.0	124.3	55.75	3.229	
7,800.0	7,767.2	7,801.7	7,765.2	28.1	28.4	-90.01	-497.4	-226.4	180.0	123.6	56.41	3.191	
7,900.0	7,867.2	7,901.7	7,865.2	28.4	28.8	-90.01	-497.4	-226.4	180.0	123.0	57.07	3.154	
8,000.0	7,967.2	8,001.7	7,965.2	28.8	29.1	-90.01	-497.4	-226.4	180.0	122.3	57.73	3.118	
8,100.0	8,067.2	8,101.7	8,065.2	29.1	29.4	-90.01	-497.4	-226.4	180.0	121.6	58.39	3.083	
8,200.0	8,167.2	8,201.7	8,165.2	29.4	29.7	-90.01	-497.4	-226.4	180.0	121.0	59.05	3.049	
8,300.0	8,267.2	8,301.7	8,265.2	29.8	30.1	-90.01	-497.4	-226.4	180.0	120.3	59.71	3.015	
8,400.0	8,367.2	8,401.7	8,365.2	30.1	30.4	-90.01	-497.4	-226.4	180.0	119.6	60.38	2.982	
8,500.0	8,467.2	8,501.7	8,465.2	30.4	30.7	-90.01	-497.4	-226.4	180.0	119.0	61.04	2.949	
8,600.0	8,567.2	8,601.7	8,565.2	30.8	31.1	-90.01	-497.4	-226.4	180.0	118.3	61.71	2.917	
8,700.0	8,667.2	8,701.7	8,665.2	31.1	31.4	-90.01	-497.4	-226.4	180.0	117.6	62.38	2.886	
8,800.0	8,767.2	8,801.7	8,765.2	31.4	31.7	-90.01	-497.4	-226.4	180.0	117.0	63.05	2.855	
8,900.0	8,867.2	8,901.7	8,865.2	31.8	32.0	-90.01	-497.4	-226.4	180.0	116.3	63.72	2.825	
9,000.0	8,967.2	9,001.7	8,965.2	32.1	32.4	-90.01	-497.4	-226.4	180.0	115.6	64.39	2.796	
9,100.0	9,067.2	9,101.7	9,065.2	32.5	32.7	-90.01	-497.4	-226.4	180.0	115.0	65.06	2.767	
9,200.0	9,167.2	9,201.7	9,165.2	32.8	33.0	-90.01	-497.4	-226.4	180.0	114.3	65.73	2.739	
9,300.0	9,267.2	9,301.7	9,265.2	33.1	33.4	-90.01	-497.4	-226.4	180.0	113.6	66.41	2.711	
9,400.0	9,367.2	9,401.7	9,365.2	33.5	33.7	-90.01	-497.4	-226.4	180.0	112.9	67.08	2.684	
9,500.0	9,467.2	9,501.7	9,465.2	33.8	34.1	-90.01	-497.4	-226.4	180.0	112.3	67.76	2.657	
9,600.0	9,567.2	9,601.7	9,565.2	34.2	34.4	-90.01	-497.4	-226.4	180.0	111.6	68.43	2.631	
9,700.0	9,667.2	9,701.7	9,665.2	34.5	34.7	-90.01	-497.4	-226.4	180.0	110.9	69.11	2.605	
9,800.0	9,767.2	9,801.7	9,765.2	34.8	35.1	-90.01	-497.4	-226.4	180.0	110.2	69.79	2.579	
9,900.0	9,867.2	9,901.7	9,865.2	35.2	35.4	-90.01	-497.4	-226.4	180.0	109.6	70.47	2.555	
10,000.0	9,967.2	10,001.7	9,965.2	35.5	35.7	-90.01	-497.4	-226.4	180.0	108.9	71.15	2.530	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #124H - 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
10,100.0	10,067.2	10,101.7	10,065.2	35.9	36.1	-90.01	-497.4	-226.4	180.0	108.2	71.83	2.506	
10,200.0	10,167.2	10,201.7	10,165.2	36.2	36.4	-90.01	-497.4	-226.4	180.0	107.5	72.51	2.483	
10,300.0	10,267.2	10,303.1	10,266.4	36.5	36.7	-87.93	-490.8	-225.9	179.6	106.4	73.19	2.454	
10,339.9	10,307.1	10,342.6	10,305.1	36.7	36.9	-85.60	-483.6	-225.3	179.5	106.0	73.47	2.443	
10,400.0	10,367.2	10,399.8	10,360.2	36.9	37.0	-80.75	-468.4	-224.2	180.2	106.4	73.83	2.441	SF
10,500.0	10,467.2	10,486.7	10,440.4	37.2	37.2	-70.41	-435.0	-221.6	187.6	113.9	73.74	2.545	
10,600.0	10,567.2	10,562.1	10,505.1	37.6	37.3	-59.66	-396.5	-218.6	208.5	136.8	71.71	2.907	
10,700.0	10,667.2	10,626.0	10,555.5	37.9	37.4	-50.45	-357.5	-215.6	245.4	177.8	67.62	3.629	
10,800.0	10,767.2	10,679.5	10,594.3	38.3	37.5	-43.30	-320.7	-212.8	296.9	234.2	62.68	4.736	
10,900.0	10,867.2	10,724.3	10,623.9	38.6	37.5	-37.95	-287.2	-210.2	359.5	301.5	57.94	6.204	
11,000.0	10,967.2	10,761.9	10,646.7	38.9	37.6	-33.96	-257.4	-207.9	430.2	376.4	53.85	7.990	
11,100.0	11,067.2	10,800.0	10,667.8	39.3	37.6	-30.37	-225.8	-205.5	507.0	456.0	50.95	9.950	
11,200.0	11,167.2	10,820.7	10,678.3	39.6	37.6	-28.60	-208.0	-204.1	587.9	540.3	47.70	12.327	
11,300.0	11,267.2	10,850.0	10,692.1	40.0	37.7	-26.31	-182.3	-202.1	672.3	626.5	45.84	14.668	
11,400.0	11,367.2	10,863.9	10,698.2	40.3	37.7	-25.30	-169.8	-201.2	759.1	715.4	43.66	17.386	
11,500.0	11,467.2	10,881.3	10,705.4	40.7	37.7	-24.10	-154.0	-200.0	847.9	805.6	42.21	20.089	
11,600.0	11,567.2	10,900.0	10,712.6	41.0	37.7	-22.90	-136.8	-198.6	938.2	897.0	41.18	22.783	
11,700.0	11,667.2	10,900.0	10,712.6	41.4	37.7	-22.90	-136.8	-198.6	1,029.9	990.2	39.72	25.927	
11,800.0	11,767.2	10,922.2	10,720.3	41.7	37.7	-21.57	-116.1	-197.0	1,122.4	1,083.1	39.36	28.518	
11,820.8	11,788.0	10,924.5	10,721.1	41.8	37.7	-21.43	-113.9	-196.9	1,141.8	1,102.6	39.22	29.109	
11,850.0	11,817.2	10,927.9	10,722.2	41.9	37.8	-10.38	-110.7	-196.6	1,168.8	1,129.8	39.03	29.947	
11,900.0	11,867.0	10,934.5	10,724.3	42.0	37.8	-8.42	-104.5	-196.2	1,213.9	1,175.2	38.66	31.401	
11,950.0	11,916.1	10,950.0	10,728.9	42.2	37.8	-6.79	-89.7	-195.0	1,257.3	1,218.8	38.47	32.681	
12,000.0	11,964.3	10,950.0	10,728.9	42.3	37.8	-5.97	-89.7	-195.0	1,298.7	1,260.9	37.79	34.363	
12,050.0	12,011.2	10,950.0	10,728.9	42.5	37.8	-5.33	-89.7	-195.0	1,338.2	1,301.1	37.11	36.062	
12,100.0	12,056.3	10,968.7	10,734.0	42.6	37.8	-4.51	-71.8	-193.6	1,375.2	1,338.4	36.85	37.316	
12,150.0	12,099.4	10,978.8	10,736.5	42.7	37.8	-3.99	-62.0	-192.9	1,410.0	1,373.6	36.37	38.765	
12,200.0	12,140.2	11,000.0	10,741.2	42.8	37.8	-3.41	-41.4	-191.3	1,442.4	1,406.3	36.11	39.944	
12,250.0	12,178.2	11,000.0	10,741.2	42.9	37.8	-3.20	-41.4	-191.3	1,471.9	1,436.4	35.44	41.537	
12,300.0	12,213.3	11,000.0	10,741.2	42.9	37.8	-3.02	-41.4	-191.3	1,498.9	1,464.1	34.83	43.038	
12,350.0	12,245.1	11,023.3	10,745.4	43.0	37.9	-2.62	-18.5	-189.5	1,522.8	1,488.2	34.62	43.990	
12,400.0	12,273.5	11,050.0	10,749.1	43.1	37.9	-2.25	7.8	-187.5	1,544.2	1,509.8	34.46	44.818	
12,450.0	12,298.2	11,050.0	10,749.1	43.1	37.9	-2.17	7.8	-187.5	1,562.2	1,528.1	34.01	45.931	
12,500.0	12,319.0	11,050.0	10,749.1	43.2	37.9	-2.11	7.8	-187.5	1,577.4	1,543.7	33.69	46.821	
12,550.0	12,335.7	11,072.3	10,751.3	43.3	37.9	-1.86	29.9	-185.8	1,589.3	1,555.7	33.62	47.273	
12,600.0	12,348.3	11,100.0	10,752.7	43.4	38.0	-1.59	57.5	-183.7	1,598.4	1,564.8	33.62	47.547	
12,650.0	12,356.6	11,100.0	10,752.7	43.4	38.0	-1.57	57.5	-183.7	1,603.9	1,570.3	33.58	47.759	
12,700.0	12,360.6	11,110.4	10,752.9	43.5	38.0	-1.48	67.9	-182.9	1,606.4	1,572.7	33.70	47.675	
12,720.8	12,361.0	11,116.5	10,753.0	43.5	38.0	-1.42	73.9	-182.4	1,606.5	1,572.8	33.77	47.575	
12,800.0	12,361.0	11,189.7	10,753.0	43.7	38.1	-0.89	147.1	-178.2	1,606.2	1,572.2	34.05	47.176	
12,900.0	12,361.0	11,287.9	10,753.0	43.9	38.3	-0.43	245.2	-176.9	1,606.0	1,571.6	34.48	46.573	
13,000.0	12,361.0	11,387.6	10,753.0	44.2	38.6	-0.16	345.0	-177.9	1,606.0	1,571.0	35.01	45.875	
13,100.0	12,361.0	11,487.6	10,753.0	44.6	39.0	-0.01	444.9	-179.0	1,606.0	1,570.4	35.60	45.112	
13,118.5	12,361.0	11,506.1	10,753.0	44.7	39.0	0.00	463.4	-179.1	1,606.0	1,570.3	35.72	44.963	
13,167.2	12,361.0	11,554.7	10,753.0	44.9	39.3	0.02	512.0	-179.6	1,606.0	1,570.0	36.04	44.565	
13,200.0	12,361.0	11,587.5	10,753.0	45.0	39.4	0.02	544.8	-180.0	1,606.0	1,569.7	36.26	44.295	
13,300.0	12,361.0	11,687.5	10,753.0	45.5	39.9	0.02	644.8	-181.0	1,606.0	1,569.0	36.97	43.441	
13,400.0	12,361.0	11,787.5	10,753.0	46.0	40.5	0.02	744.8	-182.0	1,606.0	1,568.3	37.73	42.561	
13,500.0	12,361.0	11,887.5	10,753.0	46.6	41.1	0.02	844.8	-183.0	1,606.0	1,567.5	38.55	41.663	
13,600.0	12,361.0	11,987.5	10,753.0	47.2	41.7	0.02	944.8	-184.0	1,606.0	1,566.6	39.41	40.755	
13,700.0	12,361.0	12,087.5	10,753.0	47.8	42.5	0.02	1,044.8	-185.0	1,606.0	1,565.7	40.31	39.843	
13,800.0	12,361.0	12,187.5	10,753.0	48.6	43.3	0.01	1,144.8	-186.0	1,606.0	1,564.7	41.25	38.933	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #124H - 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
13,900.0	12,361.0	12,287.5	10,753.0	49.3	44.1	0.01	1,244.8	-187.0	1,606.0	1,563.8	42.23	38.031	
14,000.0	12,361.0	12,387.5	10,753.0	50.1	45.0	0.01	1,344.8	-188.0	1,606.0	1,562.8	43.24	37.140	
14,100.0	12,361.0	12,487.5	10,753.0	51.0	45.9	0.01	1,444.8	-189.0	1,606.0	1,561.7	44.29	36.263	
14,200.0	12,361.0	12,587.5	10,753.0	51.9	46.8	0.01	1,544.8	-190.0	1,606.0	1,560.6	45.36	35.404	
14,300.0	12,361.0	12,687.5	10,753.0	52.8	47.8	0.01	1,644.8	-191.0	1,606.0	1,559.5	46.47	34.563	
14,400.0	12,361.0	12,787.5	10,753.0	53.7	48.9	0.01	1,744.8	-192.0	1,606.0	1,558.4	47.59	33.743	
14,500.0	12,361.0	12,887.5	10,753.0	54.7	49.9	0.01	1,844.8	-193.0	1,606.0	1,557.3	48.75	32.945	
14,600.0	12,361.0	12,987.5	10,753.0	55.7	51.0	0.01	1,944.8	-194.0	1,606.0	1,556.1	49.92	32.169	
14,700.0	12,361.0	13,087.5	10,753.0	56.8	52.1	0.01	2,044.8	-195.0	1,606.0	1,554.9	51.12	31.416	
14,800.0	12,361.0	13,187.5	10,753.0	57.9	53.3	0.01	2,144.8	-196.0	1,606.0	1,553.7	52.34	30.686	
14,900.0	12,361.0	13,287.5	10,753.0	59.0	54.5	0.01	2,244.8	-197.0	1,606.0	1,552.4	53.57	29.979	
15,000.0	12,361.0	13,387.5	10,753.0	60.1	55.7	0.01	2,344.8	-198.0	1,606.0	1,551.2	54.82	29.295	
15,100.0	12,361.0	13,487.5	10,753.0	61.3	56.9	0.01	2,444.8	-199.0	1,606.0	1,549.9	56.09	28.633	
15,200.0	12,361.0	13,587.5	10,753.0	62.4	58.2	0.01	2,544.7	-200.0	1,606.0	1,548.6	57.37	27.994	
15,300.0	12,361.0	13,687.5	10,753.0	63.6	59.4	0.01	2,644.7	-201.0	1,606.0	1,547.3	58.67	27.376	
15,400.0	12,361.0	13,787.5	10,753.0	64.9	60.7	0.01	2,744.7	-202.0	1,606.0	1,546.0	59.97	26.778	
15,500.0	12,361.0	13,887.5	10,753.0	66.1	62.0	0.01	2,844.7	-203.0	1,606.0	1,544.7	61.29	26.201	
15,600.0	12,361.0	13,987.5	10,753.0	67.4	63.3	0.01	2,944.7	-204.0	1,606.0	1,543.4	62.63	25.644	
15,700.0	12,361.0	14,087.5	10,753.0	68.6	64.7	0.01	3,044.7	-205.0	1,606.0	1,542.0	63.97	25.106	
15,800.0	12,361.0	14,187.5	10,753.0	69.9	66.0	0.01	3,144.7	-206.0	1,606.0	1,540.7	65.32	24.586	
15,900.0	12,361.0	14,287.5	10,753.0	71.2	67.4	0.01	3,244.7	-207.0	1,606.0	1,539.3	66.68	24.084	
16,000.0	12,361.0	14,387.5	10,753.0	72.5	68.8	0.01	3,344.7	-208.0	1,606.0	1,537.9	68.05	23.599	
16,100.0	12,361.0	14,487.5	10,753.0	73.9	70.2	0.01	3,444.7	-209.0	1,606.0	1,536.6	69.43	23.130	
16,200.0	12,361.0	14,587.5	10,753.0	75.2	71.6	0.01	3,544.7	-210.0	1,606.0	1,535.2	70.82	22.677	
16,300.0	12,361.0	14,687.5	10,753.0	76.6	73.0	0.01	3,644.7	-211.0	1,606.0	1,533.8	72.22	22.239	
16,400.0	12,361.0	14,787.5	10,753.0	77.9	74.4	0.01	3,744.7	-212.0	1,606.0	1,532.4	73.62	21.816	
16,500.0	12,361.0	14,887.5	10,753.0	79.3	75.8	0.01	3,844.7	-213.0	1,606.0	1,531.0	75.02	21.406	
16,600.0	12,361.0	14,987.5	10,753.0	80.7	77.3	0.01	3,944.7	-214.0	1,606.0	1,529.6	76.44	21.010	
16,700.0	12,361.0	15,087.5	10,753.0	82.1	78.7	0.01	4,044.7	-215.0	1,606.0	1,528.1	77.86	20.627	
16,800.0	12,361.0	15,187.5	10,753.0	83.5	80.2	0.01	4,144.7	-216.0	1,606.0	1,526.7	79.28	20.256	
16,900.0	12,361.0	15,287.5	10,753.0	84.9	81.6	0.01	4,244.7	-217.1	1,606.0	1,525.3	80.72	19.897	
17,000.0	12,361.0	15,387.5	10,753.0	86.4	83.1	0.01	4,344.7	-218.1	1,606.0	1,523.8	82.15	19.549	
17,100.0	12,361.0	15,487.5	10,753.0	87.8	84.6	0.01	4,444.7	-219.1	1,606.0	1,522.4	83.59	19.212	
17,200.0	12,361.0	15,587.5	10,753.0	89.2	86.1	0.01	4,544.6	-220.1	1,606.0	1,521.0	85.04	18.886	
17,300.0	12,361.0	15,687.5	10,753.0	90.7	87.6	0.01	4,644.6	-221.1	1,606.0	1,519.5	86.49	18.569	
17,400.0	12,361.0	15,787.5	10,753.0	92.2	89.1	0.01	4,744.6	-222.1	1,606.0	1,518.1	87.94	18.262	
17,500.0	12,361.0	15,887.5	10,753.0	93.6	90.6	0.01	4,844.6	-223.1	1,606.0	1,516.6	89.40	17.964	
17,600.0	12,361.0	15,987.5	10,753.0	95.1	92.1	0.01	4,944.6	-224.1	1,606.0	1,515.1	90.86	17.675	
17,700.0	12,361.0	16,087.5	10,753.0	96.6	93.6	0.01	5,044.6	-225.1	1,606.0	1,513.7	92.33	17.395	
17,800.0	12,361.0	16,187.5	10,753.0	98.0	95.1	0.01	5,144.6	-226.1	1,606.0	1,512.2	93.79	17.123	
17,900.0	12,361.0	16,287.5	10,753.0	99.5	96.6	0.01	5,244.6	-227.1	1,606.0	1,510.7	95.26	16.858	
18,000.0	12,361.0	16,387.5	10,753.0	101.0	98.1	0.01	5,344.6	-228.1	1,606.0	1,509.3	96.74	16.601	
18,100.0	12,361.0	16,487.5	10,753.0	102.5	99.7	0.01	5,444.6	-229.1	1,606.0	1,507.8	98.22	16.352	
18,200.0	12,361.0	16,587.5	10,753.0	104.0	101.2	0.01	5,544.6	-230.1	1,606.0	1,506.3	99.70	16.109	
18,300.0	12,361.0	16,687.5	10,753.0	105.5	102.7	0.01	5,644.6	-231.1	1,606.0	1,504.8	101.18	15.873	
18,400.0	12,361.0	16,787.5	10,753.0	107.0	104.3	0.01	5,744.6	-232.1	1,606.0	1,503.3	102.67	15.643	
18,500.0	12,361.0	16,887.5	10,753.0	108.6	105.8	0.01	5,844.6	-233.1	1,606.0	1,501.8	104.15	15.420	
18,600.0	12,361.0	16,987.5	10,753.0	110.1	107.4	0.01	5,944.6	-234.1	1,606.0	1,500.4	105.64	15.202	
18,700.0	12,361.0	17,087.5	10,753.0	111.6	108.9	0.01	6,044.6	-235.1	1,606.0	1,498.9	107.14	14.990	
18,800.0	12,361.0	17,187.5	10,753.0	113.1	110.5	0.01	6,144.6	-236.1	1,606.0	1,497.4	108.63	14.784	
18,900.0	12,361.0	17,287.5	10,753.0	114.7	112.0	0.01	6,244.6	-237.1	1,606.0	1,495.9	110.13	14.583	
19,000.0	12,361.0	17,387.5	10,753.0	116.2	113.6	0.01	6,344.6	-238.1	1,606.0	1,494.4	111.63	14.387	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #124H - 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
19,100.0	12,361.0	17,487.5	10,753.0	117.7	115.2	0.01	6,444.6	-239.1	1,606.0	1,492.9	113.13	14.196	
19,200.0	12,361.0	17,587.5	10,753.0	119.3	116.7	0.01	6,544.5	-240.1	1,606.0	1,491.4	114.63	14.010	
19,300.0	12,361.0	17,687.5	10,753.0	120.8	118.3	0.01	6,644.5	-241.1	1,606.0	1,489.9	116.13	13.829	
19,400.0	12,361.0	17,787.5	10,753.0	122.4	119.9	0.01	6,744.5	-242.1	1,606.0	1,488.4	117.64	13.652	
19,500.0	12,361.0	17,887.5	10,753.0	123.9	121.4	0.01	6,844.5	-243.1	1,606.0	1,486.9	119.15	13.479	
19,600.0	12,361.0	17,987.5	10,753.0	125.5	123.0	0.00	6,944.5	-244.1	1,606.0	1,485.3	120.66	13.311	
19,700.0	12,361.0	18,087.5	10,753.0	127.0	124.6	0.00	7,044.5	-245.1	1,606.0	1,483.8	122.17	13.146	
19,800.0	12,361.0	18,187.5	10,753.0	128.6	126.2	0.00	7,144.5	-246.1	1,606.0	1,482.3	123.68	12.985	
19,900.0	12,361.0	18,287.5	10,753.0	130.1	127.8	0.00	7,244.5	-247.1	1,606.0	1,480.8	125.19	12.828	
20,000.0	12,361.0	18,387.5	10,753.0	131.7	129.3	0.00	7,344.5	-248.1	1,606.0	1,479.3	126.71	12.675	
20,100.0	12,361.0	18,487.5	10,753.0	133.3	130.9	0.00	7,444.5	-249.1	1,606.0	1,477.8	128.22	12.525	
20,200.0	12,361.0	18,587.5	10,753.0	134.8	132.5	0.00	7,544.5	-250.1	1,606.0	1,476.3	129.74	12.378	
20,300.0	12,361.0	18,687.5	10,753.0	136.4	134.1	0.00	7,644.5	-251.1	1,606.0	1,474.7	131.26	12.235	
20,400.0	12,361.0	18,787.5	10,753.0	138.0	135.7	0.00	7,744.5	-252.1	1,606.0	1,473.2	132.78	12.095	
20,500.0	12,361.0	18,887.5	10,753.0	139.5	137.3	0.00	7,844.5	-253.1	1,606.0	1,471.7	134.30	11.958	
20,600.0	12,361.0	18,987.5	10,753.0	141.1	138.9	0.00	7,944.5	-254.1	1,606.0	1,470.2	135.82	11.824	
20,700.0	12,361.0	19,087.5	10,753.0	142.7	140.5	0.00	8,044.5	-255.1	1,606.0	1,468.7	137.35	11.693	
20,800.0	12,361.0	19,187.5	10,753.0	144.3	142.1	0.00	8,144.5	-256.2	1,606.0	1,467.1	138.87	11.565	
20,900.0	12,361.0	19,287.5	10,753.0	145.8	143.7	0.00	8,244.5	-257.2	1,606.0	1,465.6	140.40	11.439	
21,000.0	12,361.0	19,387.5	10,753.0	147.4	145.3	0.00	8,344.5	-258.2	1,606.0	1,464.1	141.92	11.316	
21,100.0	12,361.0	19,487.5	10,753.0	149.0	146.9	0.00	8,444.5	-259.2	1,606.0	1,462.6	143.45	11.196	
21,200.0	12,361.0	19,587.5	10,753.0	150.6	148.5	0.00	8,544.4	-260.2	1,606.0	1,461.0	144.98	11.078	
21,300.0	12,361.0	19,687.5	10,753.0	152.2	150.1	0.00	8,644.4	-261.2	1,606.0	1,459.5	146.51	10.962	
21,400.0	12,361.0	19,787.5	10,753.0	153.8	151.7	0.00	8,744.4	-262.2	1,606.0	1,458.0	148.04	10.849	
21,500.0	12,361.0	19,887.5	10,753.0	155.4	153.3	0.00	8,844.4	-263.2	1,606.0	1,456.4	149.57	10.738	
21,600.0	12,361.0	19,987.5	10,753.0	156.9	154.9	0.00	8,944.4	-264.2	1,606.0	1,454.9	151.10	10.629	
21,700.0	12,361.0	20,087.5	10,753.0	158.5	156.5	0.00	9,044.4	-265.2	1,606.0	1,453.4	152.63	10.522	
21,800.0	12,361.0	20,187.5	10,753.0	160.1	158.1	0.00	9,144.4	-266.2	1,606.0	1,451.8	154.16	10.418	
21,900.0	12,361.0	20,287.5	10,753.0	161.7	159.7	0.00	9,244.4	-267.2	1,606.0	1,450.3	155.70	10.315	
22,000.0	12,361.0	20,387.5	10,753.0	163.3	161.3	0.00	9,344.4	-268.2	1,606.0	1,448.8	157.23	10.214	
22,100.0	12,361.0	20,487.5	10,753.0	164.9	162.9	0.00	9,444.4	-269.2	1,606.0	1,447.2	158.77	10.116	
22,200.0	12,361.0	20,587.5	10,753.0	166.5	164.5	0.00	9,544.4	-270.2	1,606.0	1,445.7	160.30	10.019	
22,300.0	12,361.0	20,687.5	10,753.0	168.1	166.1	0.00	9,644.4	-271.2	1,606.0	1,444.2	161.84	9.924	
22,400.0	12,361.0	20,787.5	10,753.0	169.7	167.7	0.00	9,744.4	-272.2	1,606.0	1,442.6	163.37	9.830	
22,500.0	12,361.0	20,887.5	10,753.0	171.3	169.4	0.00	9,844.4	-273.2	1,606.0	1,441.1	164.91	9.739	
22,600.0	12,361.0	20,987.5	10,753.0	172.9	171.0	0.00	9,944.4	-274.2	1,606.0	1,439.6	166.45	9.649	
22,613.5	12,361.0	21,001.0	10,753.0	173.1	171.2	0.00	9,957.9	-274.3	1,606.0	1,439.3	166.66	9.637	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #134H - 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	-90.67	-0.4	-30.0	30.0				
100.0	100.0	101.0	99.0	0.1	0.1	-90.67	-0.4	-30.0	30.0	29.8	0.26	115.554	
200.0	200.0	201.0	199.0	0.5	0.5	-90.67	-0.4	-30.0	30.0	29.1	0.98	30.744	
300.0	300.0	301.0	299.0	0.8	0.8	-90.67	-0.4	-30.0	30.0	28.3	1.69	17.731	
400.0	400.0	401.0	399.0	1.2	1.2	-90.67	-0.4	-30.0	30.0	27.6	2.41	12.458	
500.0	500.0	501.0	499.0	1.6	1.6	-90.67	-0.4	-30.0	30.0	26.9	3.13	9.602	
600.0	600.0	601.0	599.0	1.9	1.9	-90.67	-0.4	-30.0	30.0	26.2	3.84	7.811	
700.0	700.0	701.0	699.0	2.3	2.3	-90.67	-0.4	-30.0	30.0	25.5	4.56	6.584	
800.0	800.0	801.0	799.0	2.6	2.6	-90.67	-0.4	-30.0	30.0	24.8	5.28	5.689	
900.0	900.0	901.0	899.0	3.0	3.0	-90.67	-0.4	-30.0	30.0	24.0	6.00	5.009	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-90.67	-0.4	-30.0	30.0	23.3	6.71	4.474	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-90.67	-0.4	-30.0	30.0	22.6	7.43	4.042	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-90.67	-0.4	-30.0	30.0	21.9	8.15	3.687	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-90.67	-0.4	-30.0	30.0	21.2	8.86	3.388	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-90.67	-0.4	-30.0	30.0	20.5	9.58	3.135	
1,500.0	1,500.0	1,499.0	1,499.0	5.1	5.1	-90.67	-0.4	-30.0	30.0	19.7	10.29	2.919	CC
1,600.0	1,600.0	1,598.6	1,598.5	5.5	5.5	84.79	-0.8	-30.7	30.7	19.7	10.97	2.795	ES, SF
1,700.0	1,700.0	1,698.1	1,698.0	5.8	5.8	86.93	-2.2	-32.9	32.7	21.0	11.63	2.808	
1,800.0	1,799.9	1,797.5	1,797.4	6.1	6.2	89.95	-4.4	-36.6	36.0	23.8	12.29	2.934	
1,900.0	1,899.7	1,896.8	1,896.5	6.5	6.5	93.30	-7.6	-41.7	40.9	28.0	12.95	3.161	
2,000.0	1,999.4	1,996.0	1,995.4	6.8	6.8	96.57	-11.7	-48.2	47.4	33.8	13.62	3.478	
2,100.0	2,098.9	2,095.1	2,094.0	7.2	7.2	99.50	-16.7	-56.2	55.4	41.1	14.30	3.875	
2,200.0	2,198.3	2,193.9	2,192.2	7.5	7.5	102.00	-22.5	-65.7	65.0	50.1	14.99	4.339	
2,300.0	2,297.4	2,307.6	2,289.8	7.9	8.0	104.09	-29.3	-76.5	76.3	60.5	15.75	4.842	
2,400.0	2,396.4	2,408.4	2,388.1	8.2	8.3	105.76	-36.6	-88.2	88.4	71.9	16.48	5.363	
2,500.0	2,495.5	2,509.2	2,486.4	8.6	8.7	107.03	-43.9	-99.9	100.5	83.3	17.22	5.839	
2,600.0	2,594.5	2,609.9	2,584.7	9.0	9.1	108.03	-51.2	-111.6	112.7	94.8	17.97	6.276	
2,700.0	2,693.5	2,689.3	2,682.9	9.4	9.4	108.83	-58.5	-123.4	125.0	106.3	18.64	6.705	
2,800.0	2,792.5	2,788.5	2,781.2	9.7	9.8	109.49	-65.8	-135.1	137.2	117.8	19.39	7.076	
2,900.0	2,891.6	2,887.8	2,879.5	10.1	10.2	110.04	-73.1	-146.8	149.5	129.3	20.15	7.418	
3,000.0	2,990.6	2,987.0	2,977.7	10.5	10.6	110.50	-80.4	-158.5	161.8	140.9	20.92	7.734	
3,100.0	3,089.6	3,086.3	3,076.0	10.9	10.9	110.90	-87.7	-170.3	174.1	152.4	21.69	8.027	
3,200.0	3,188.6	3,185.5	3,174.3	11.3	11.3	111.25	-95.0	-182.0	186.4	163.9	22.46	8.298	
3,300.0	3,287.7	3,284.7	3,272.5	11.7	11.7	111.56	-102.3	-193.7	198.7	175.4	23.24	8.550	
3,400.0	3,386.7	3,384.0	3,370.8	12.1	12.1	111.82	-109.6	-205.4	211.0	187.0	24.02	8.785	
3,500.0	3,485.7	3,483.2	3,469.1	12.5	12.5	112.06	-116.9	-217.2	223.3	198.5	24.80	9.004	
3,600.0	3,584.8	3,582.4	3,567.3	12.9	12.9	112.28	-124.2	-228.9	235.6	210.0	25.58	9.209	
3,700.0	3,683.8	3,681.7	3,665.6	13.3	13.3	112.47	-131.5	-240.6	247.9	221.6	26.37	9.401	
3,800.0	3,782.8	3,780.9	3,763.9	13.7	13.7	112.65	-138.8	-252.3	260.3	233.1	27.16	9.582	
3,900.0	3,881.8	3,880.1	3,862.2	14.1	14.1	112.81	-146.1	-264.0	272.6	244.6	27.95	9.751	
4,000.0	3,980.9	3,979.4	3,960.4	14.5	14.6	112.95	-153.4	-275.8	284.9	256.2	28.75	9.911	
4,100.0	4,079.9	4,078.6	4,058.7	14.9	15.0	113.08	-160.7	-287.5	297.2	267.7	29.54	10.061	
4,200.0	4,178.9	4,177.8	4,157.0	15.3	15.4	113.21	-168.0	-299.2	309.6	279.2	30.34	10.203	
4,300.0	4,277.9	4,277.1	4,255.2	15.8	15.8	113.32	-175.3	-310.9	321.9	290.7	31.14	10.337	
4,400.0	4,377.0	4,376.3	4,353.5	16.2	16.2	113.43	-182.6	-322.7	334.2	302.3	31.94	10.464	
4,500.0	4,476.0	4,475.5	4,451.8	16.6	16.6	113.52	-189.9	-334.4	346.5	313.8	32.74	10.585	
4,600.0	4,575.0	4,574.8	4,550.0	17.0	17.0	113.61	-197.2	-346.1	358.9	325.3	33.54	10.700	
4,700.0	4,674.0	4,674.0	4,648.3	17.4	17.4	113.70	-204.5	-357.8	371.2	336.9	34.34	10.808	
4,800.0	4,773.1	4,773.2	4,746.6	17.8	17.8	113.78	-211.8	-369.6	383.5	348.4	35.15	10.912	
4,900.0	4,872.1	4,872.5	4,844.9	18.2	18.2	113.85	-219.1	-381.3	395.9	359.9	35.95	11.011	
5,000.0	4,971.1	4,971.7	4,943.1	18.6	18.6	113.92	-226.4	-393.0	408.2	371.5	36.76	11.105	
5,100.0	5,070.2	5,071.0	5,041.4	19.1	19.1	113.99	-233.7	-404.7	420.6	383.0	37.57	11.195	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #134H - 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
5,200.0	5,169.2	5,170.2	5,139.7	19.5	19.5	114.05	-241.0	-416.5	432.9	394.5	38.38	11.280	
5,221.2	5,190.2	5,208.8	5,160.5	19.6	19.6	114.06	-242.5	-418.9	435.5	396.9	38.62	11.277	
5,300.0	5,268.3	5,269.5	5,238.0	19.9	19.9	114.14	-248.3	-428.2	444.9	405.7	39.18	11.355	
5,400.0	5,367.8	5,368.8	5,336.4	20.3	20.3	113.96	-255.6	-439.9	455.9	415.9	39.97	11.405	
5,500.0	5,467.4	5,468.2	5,434.8	20.7	20.7	113.49	-262.9	-451.7	465.8	425.1	40.75	11.432	
5,600.0	5,567.3	5,567.5	5,533.1	21.0	21.1	112.74	-270.2	-463.4	474.8	433.3	41.51	11.440	
5,700.0	5,667.2	5,666.8	5,631.4	21.4	21.5	111.72	-277.5	-475.1	483.0	440.7	42.25	11.432	
5,754.5	5,721.8	5,720.8	5,684.9	21.5	21.8	-63.61	-281.5	-481.5	487.1	444.4	42.64	11.424	
5,800.0	5,767.2	5,765.8	5,729.5	21.7	21.9	-64.24	-284.8	-486.8	490.5	447.5	42.95	11.418	
5,900.0	5,867.2	5,864.8	5,827.5	22.0	22.4	-65.58	-292.1	-498.5	498.1	454.4	43.65	11.411	
6,000.0	5,967.2	5,963.9	5,925.6	22.3	22.8	-66.89	-299.3	-510.2	506.0	461.6	44.35	11.410	
6,100.0	6,067.2	6,062.9	6,023.7	22.6	23.2	-68.15	-306.6	-521.9	514.1	469.1	45.04	11.416	
6,200.0	6,167.2	6,161.9	6,121.7	22.9	23.6	-69.37	-313.9	-533.6	522.5	476.8	45.73	11.427	
6,300.0	6,267.2	6,260.9	6,219.8	23.2	24.0	-70.56	-321.2	-545.3	531.2	484.8	46.42	11.443	
6,400.0	6,367.2	6,360.0	6,317.9	23.6	24.4	-71.70	-328.5	-557.0	540.0	492.9	47.11	11.464	
6,500.0	6,467.2	6,459.0	6,415.9	23.9	24.8	-72.81	-335.8	-568.7	549.1	501.3	47.79	11.489	
6,600.0	6,567.2	6,558.0	6,514.0	24.2	25.3	-73.89	-343.0	-580.4	558.4	509.9	48.48	11.518	
6,700.0	6,667.2	6,657.0	6,612.1	24.5	25.7	-74.92	-350.3	-592.1	567.8	518.6	49.16	11.549	
6,800.0	6,767.2	6,756.1	6,710.1	24.8	26.1	-75.93	-357.6	-603.8	577.4	527.6	49.85	11.584	
6,900.0	6,867.2	6,855.1	6,808.2	25.2	26.5	-76.90	-364.9	-615.5	587.2	536.7	50.53	11.621	
7,000.0	6,967.2	6,954.1	6,906.2	25.5	26.9	-77.84	-372.2	-627.2	597.2	546.0	51.21	11.661	
7,100.0	7,067.2	7,053.2	7,004.3	25.8	27.3	-78.75	-379.5	-638.9	607.3	555.4	51.90	11.703	
7,200.0	7,167.2	7,152.2	7,102.4	26.1	27.8	-79.63	-386.7	-650.6	617.6	565.0	52.58	11.746	
7,300.0	7,267.2	7,251.2	7,200.4	26.5	28.2	-80.48	-394.0	-662.3	628.0	574.8	53.26	11.791	
7,400.0	7,367.2	7,350.2	7,298.5	26.8	28.6	-81.30	-401.3	-674.0	638.6	584.6	53.95	11.837	
7,500.0	7,467.2	7,449.3	7,396.6	27.1	29.0	-82.10	-408.6	-685.7	649.2	594.6	54.63	11.884	
7,600.0	7,567.2	7,548.3	7,494.6	27.5	29.4	-82.87	-415.9	-697.4	660.0	604.7	55.31	11.933	
7,700.0	7,667.2	7,647.3	7,592.7	27.8	29.8	-83.62	-423.2	-709.1	670.9	614.9	56.00	11.982	
7,800.0	7,767.2	7,746.3	7,690.7	28.1	30.3	-84.34	-430.5	-720.8	682.0	625.3	56.68	12.032	
7,900.0	7,867.2	7,845.4	7,788.8	28.4	30.7	-85.04	-437.7	-732.5	693.1	635.7	57.36	12.082	
8,000.0	7,967.2	7,944.4	7,886.9	28.8	31.1	-85.71	-445.0	-744.2	704.3	646.2	58.05	12.133	
8,100.0	8,067.2	8,043.4	7,984.9	29.1	31.5	-86.37	-452.3	-755.9	715.6	656.9	58.73	12.184	
8,200.0	8,167.2	8,142.5	8,083.0	29.4	31.9	-87.00	-459.6	-767.6	727.0	667.6	59.42	12.235	
8,300.0	8,267.2	8,241.5	8,181.1	29.8	32.3	-87.62	-466.9	-779.3	738.5	678.4	60.11	12.287	
8,400.0	8,367.2	8,340.5	8,279.1	30.1	32.8	-88.22	-474.2	-791.0	750.1	689.3	60.79	12.338	
8,500.0	8,467.2	8,444.4	8,382.0	30.4	33.2	-88.82	-481.7	-803.2	761.7	700.1	61.52	12.380	
8,600.0	8,567.2	8,563.9	8,500.7	30.8	33.7	-89.39	-489.1	-815.0	771.5	709.1	62.36	12.371	
8,700.0	8,667.2	8,684.2	8,620.5	31.1	34.1	-89.79	-494.5	-823.7	778.6	715.5	63.16	12.329	
8,800.0	8,767.2	8,805.0	8,741.2	31.4	34.6	-90.04	-497.9	-829.1	783.2	719.3	63.91	12.254	
8,900.0	8,867.2	8,926.1	8,862.3	31.8	35.0	-90.14	-499.3	-831.4	785.0	720.4	64.62	12.149	
9,000.0	8,967.2	9,030.1	8,966.2	32.1	35.3	-90.15	-499.3	-831.4	785.1	719.8	65.28	12.027	
9,100.0	9,067.2	9,130.1	9,066.2	32.5	35.6	-90.15	-499.3	-831.4	785.1	719.1	65.93	11.907	
9,200.0	9,167.2	9,230.1	9,166.2	32.8	35.9	-90.15	-499.3	-831.4	785.1	718.5	66.59	11.789	
9,300.0	9,267.2	9,330.1	9,266.2	33.1	36.2	-90.15	-499.3	-831.4	785.1	717.8	67.25	11.674	
9,400.0	9,367.2	9,430.1	9,366.2	33.5	36.5	-90.15	-499.3	-831.4	785.1	717.2	67.91	11.560	
9,500.0	9,467.2	9,530.1	9,466.2	33.8	36.8	-90.15	-499.3	-831.4	785.1	716.5	68.58	11.448	
9,600.0	9,567.2	9,630.1	9,566.2	34.2	37.1	-90.15	-499.3	-831.4	785.1	715.8	69.24	11.339	
9,700.0	9,667.2	9,730.1	9,666.2	34.5	37.4	-90.15	-499.3	-831.4	785.1	715.2	69.90	11.231	
9,800.0	9,767.2	9,830.1	9,766.2	34.8	37.8	-90.15	-499.3	-831.4	785.1	714.5	70.57	11.125	
9,900.0	9,867.2	9,930.1	9,866.2	35.2	38.1	-90.15	-499.3	-831.4	785.1	713.8	71.24	11.021	
10,000.0	9,967.2	10,030.1	9,966.2	35.5	38.4	-90.15	-499.3	-831.4	785.1	713.2	71.90	10.919	
10,100.0	10,067.2	10,130.1	10,066.2	35.9	38.7	-90.15	-499.3	-831.4	785.1	712.5	72.57	10.818	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #134H - 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
10,200.0	10,167.2	10,230.1	10,166.2	36.2	39.0	-90.15	-499.3	-831.4	785.1	711.8	73.24	10.719	
10,300.0	10,267.2	10,330.1	10,266.2	36.5	39.3	-90.15	-499.3	-831.4	785.1	711.2	73.91	10.622	
10,400.0	10,367.2	10,430.1	10,366.2	36.9	39.6	-90.15	-499.3	-831.4	785.1	710.5	74.58	10.526	
10,500.0	10,467.2	10,530.1	10,466.2	37.2	40.0	-90.15	-499.3	-831.4	785.1	709.8	75.25	10.432	
10,600.0	10,567.2	10,630.1	10,566.2	37.6	40.3	-90.15	-499.3	-831.4	785.1	709.2	75.93	10.340	
10,700.0	10,667.2	10,730.1	10,666.2	37.9	40.6	-90.15	-499.3	-831.4	785.1	708.5	76.60	10.249	
10,800.0	10,767.2	10,830.1	10,766.2	38.3	40.9	-90.15	-499.3	-831.4	785.1	707.8	77.27	10.160	
10,900.0	10,867.2	10,930.1	10,866.2	38.6	41.2	-90.15	-499.3	-831.4	785.1	707.1	77.95	10.072	
11,000.0	10,967.2	11,030.1	10,966.2	38.9	41.5	-90.15	-499.3	-831.4	785.1	706.5	78.63	9.985	
11,100.0	11,067.2	11,130.1	11,066.2	39.3	41.9	-90.15	-499.3	-831.4	785.1	705.8	79.30	9.900	
11,200.0	11,167.2	11,230.1	11,166.2	39.6	42.2	-90.15	-499.3	-831.4	785.1	705.1	79.98	9.816	
11,215.6	11,182.8	11,245.6	11,181.8	39.7	42.2	-90.15	-499.3	-831.4	785.1	705.0	80.08	9.803	
11,300.0	11,267.2	11,330.1	11,266.2	40.0	42.5	-90.15	-499.3	-831.4	785.1	704.4	80.66	9.734	
11,400.0	11,367.2	11,428.0	11,363.6	40.3	42.8	-89.50	-490.4	-831.5	785.2	703.9	81.34	9.653	
11,500.0	11,467.2	11,520.3	11,452.8	40.7	43.0	-87.79	-467.0	-831.8	786.1	704.1	82.02	9.584	
11,600.0	11,567.2	11,603.4	11,528.9	41.0	43.2	-85.38	-433.9	-832.1	789.2	706.5	82.65	9.548	
11,700.0	11,667.2	11,675.5	11,590.5	41.4	43.3	-82.69	-396.5	-832.5	796.2	713.1	83.09	9.582	
11,800.0	11,767.2	11,736.9	11,638.9	41.7	43.4	-80.01	-358.8	-832.8	808.7	725.5	83.19	9.721	
11,820.8	11,788.0	11,750.0	11,648.7	41.8	43.4	-79.39	-350.1	-832.9	812.1	728.9	83.17	9.764	
11,850.0	11,817.2	11,764.3	11,659.2	41.9	43.4	-68.75	-340.3	-833.0	817.2	734.1	83.07	9.837	
11,900.0	11,867.0	11,791.3	11,678.2	42.0	43.4	-66.74	-321.2	-833.2	825.9	743.1	82.83	9.971	
11,950.0	11,916.1	11,818.1	11,696.2	42.2	43.4	-64.81	-301.3	-833.4	834.6	752.2	82.48	10.119	
12,000.0	11,964.3	11,850.0	11,716.4	42.3	43.4	-62.81	-276.6	-833.7	843.2	761.1	82.11	10.269	
12,050.0	12,011.2	11,871.3	11,729.1	42.5	43.4	-61.31	-259.6	-833.8	851.3	769.8	81.48	10.447	
12,100.0	12,056.3	11,900.0	11,745.2	42.6	43.4	-59.68	-235.8	-834.1	858.9	778.0	80.91	10.616	
12,150.0	12,099.4	11,924.0	11,757.8	42.7	43.4	-58.34	-215.3	-834.3	865.9	785.7	80.19	10.798	
12,200.0	12,140.2	11,950.0	11,770.4	42.8	43.4	-57.07	-192.6	-834.5	872.0	792.6	79.46	10.974	
12,250.0	12,178.2	11,976.4	11,782.1	42.9	43.4	-55.93	-169.0	-834.7	877.3	798.6	78.72	11.145	
12,300.0	12,213.3	12,000.0	11,791.6	42.9	43.4	-55.00	-147.4	-834.9	881.7	803.7	77.93	11.314	
12,350.0	12,245.1	12,028.5	11,802.0	43.0	43.4	-54.11	-120.8	-835.2	884.9	807.7	77.23	11.459	
12,400.0	12,273.5	12,050.0	11,808.9	43.1	43.4	-53.51	-100.4	-835.4	887.1	810.6	76.46	11.602	
12,450.0	12,298.2	12,080.3	11,817.3	43.1	43.4	-52.89	-71.3	-835.7	888.0	812.2	75.86	11.706	
12,500.0	12,319.0	12,100.0	11,822.0	43.2	43.3	-52.60	-52.2	-835.9	887.8	812.6	75.21	11.805	
12,550.0	12,335.7	12,132.0	11,828.1	43.3	43.3	-52.28	-20.8	-836.2	886.2	811.5	74.77	11.853	
12,600.0	12,348.3	12,150.0	11,830.8	43.4	43.3	-52.28	-3.0	-836.4	883.5	809.2	74.32	11.888	
12,650.0	12,356.6	12,183.7	11,834.3	43.4	43.3	-52.28	30.5	-836.7	879.3	805.2	74.08	11.870	
12,700.0	12,360.6	12,209.5	11,835.7	43.5	43.3	-52.51	56.2	-837.0	873.9	800.0	73.92	11.823	
12,720.8	12,361.0	12,220.2	11,835.9	43.5	43.3	-52.65	66.9	-837.1	871.3	797.4	73.89	11.792	
12,800.0	12,361.0	12,292.6	11,836.0	43.7	43.2	-52.35	139.4	-837.8	862.4	788.5	73.89	11.671	
12,900.0	12,361.0	12,408.0	11,836.0	43.9	43.2	-52.01	238.7	-838.8	853.6	779.5	74.10	11.520	
13,000.0	12,361.0	12,508.3	11,836.0	44.2	43.4	-51.77	338.4	-839.7	847.6	773.2	74.46	11.383	
13,100.0	12,361.0	12,608.4	11,836.0	44.6	43.7	-51.64	438.4	-840.7	844.4	769.4	75.02	11.256	
13,167.2	12,361.0	12,658.8	11,836.0	44.9	43.8	-51.61	505.5	-841.4	843.8	768.3	75.44	11.185	
13,200.0	12,361.0	12,708.4	11,836.0	45.0	44.1	-51.61	538.3	-841.7	843.8	768.0	75.76	11.137	
13,300.0	12,361.0	12,808.4	11,836.0	45.5	44.5	-51.61	638.3	-842.7	843.8	767.1	76.62	11.012	
13,400.0	12,361.0	12,908.4	11,836.0	46.0	45.1	-51.61	738.3	-843.7	843.7	766.2	77.57	10.877	
13,500.0	12,361.0	13,008.4	11,836.0	46.6	45.6	-51.61	838.3	-844.7	843.7	765.1	78.60	10.734	
13,600.0	12,361.0	13,091.6	11,836.0	47.2	46.2	-51.61	938.3	-845.6	843.7	764.1	79.62	10.597	
13,700.0	12,361.0	13,208.4	11,836.0	47.8	47.0	-51.61	1,038.3	-846.6	843.7	762.8	80.92	10.427	
13,800.0	12,361.0	13,291.6	11,836.0	48.6	47.6	-51.61	1,138.3	-847.6	843.7	761.6	82.08	10.279	
13,900.0	12,361.0	13,391.6	11,836.0	49.3	48.3	-51.60	1,238.3	-848.6	843.7	760.3	83.42	10.114	
14,000.0	12,361.0	13,508.4	11,836.0	50.1	49.3	-51.60	1,338.3	-849.6	843.7	758.7	84.95	9.931	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #134H - 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
14,100.0	12,361.0	13,608.4	11,836.0	51.0	50.1	-51.60	1,438.3	-850.5	843.7	757.2	86.43	9.761	
14,200.0	12,361.0	13,708.4	11,836.0	51.9	51.0	-51.60	1,538.3	-851.5	843.6	755.7	87.98	9.589	
14,300.0	12,361.0	13,791.6	11,836.0	52.8	51.8	-51.60	1,638.3	-852.5	843.6	754.2	89.44	9.432	
14,400.0	12,361.0	13,908.4	11,836.0	53.7	52.9	-51.60	1,738.3	-853.5	843.6	752.4	91.24	9.246	
14,500.0	12,361.0	13,991.6	11,836.0	54.7	53.8	-51.60	1,838.3	-854.5	843.6	750.8	92.80	9.090	
14,600.0	12,361.0	14,108.4	11,836.0	55.7	55.0	-51.60	1,938.3	-855.5	843.6	748.9	94.71	8.907	
14,700.0	12,361.0	14,191.6	11,836.0	56.8	55.8	-51.60	2,038.3	-856.4	843.6	747.2	96.37	8.754	
14,800.0	12,361.0	14,308.4	11,836.0	57.9	57.1	-51.60	2,138.3	-857.4	843.6	745.2	98.37	8.575	
14,900.0	12,361.0	14,408.4	11,836.0	59.0	58.2	-51.60	2,238.3	-858.4	843.6	743.3	100.27	8.413	
15,000.0	12,361.0	14,508.4	11,836.0	60.1	59.4	-51.60	2,338.3	-859.4	843.5	741.3	102.21	8.253	
15,100.0	12,361.0	14,608.4	11,836.0	61.3	60.5	-51.60	2,438.3	-860.4	843.5	739.4	104.18	8.097	
15,200.0	12,361.0	14,708.4	11,836.0	62.4	61.7	-51.60	2,538.2	-861.4	843.5	737.3	106.19	7.944	
15,300.0	12,361.0	14,808.4	11,836.0	63.6	62.9	-51.60	2,638.2	-862.3	843.5	735.3	108.23	7.794	
15,400.0	12,361.0	14,908.4	11,836.0	64.9	64.1	-51.59	2,738.2	-863.3	843.5	733.2	110.31	7.647	
15,500.0	12,361.0	14,991.6	11,836.0	66.1	65.2	-51.59	2,838.2	-864.3	843.5	731.3	112.23	7.515	
15,600.0	12,361.0	15,108.4	11,836.0	67.4	66.6	-51.59	2,938.2	-865.3	843.5	728.9	114.55	7.364	
15,700.0	12,361.0	15,208.4	11,836.0	68.6	67.9	-51.59	3,038.2	-866.3	843.5	726.8	116.71	7.227	
15,800.0	12,361.0	15,308.4	11,836.0	69.9	69.2	-51.59	3,138.2	-867.2	843.4	724.6	118.89	7.094	
15,900.0	12,361.0	15,391.6	11,836.0	71.2	70.3	-51.59	3,238.2	-868.2	843.4	722.5	120.91	6.976	
16,000.0	12,361.0	15,508.4	11,836.0	72.5	71.8	-51.59	3,338.2	-869.2	843.4	720.1	123.33	6.839	
16,100.0	12,361.0	15,608.4	11,836.0	73.9	73.2	-51.59	3,438.2	-870.2	843.4	717.8	125.59	6.716	
16,200.0	12,361.0	15,708.4	11,836.0	75.2	74.5	-51.59	3,538.2	-871.2	843.4	715.5	127.86	6.596	
16,300.0	12,361.0	15,808.4	11,836.0	76.6	75.9	-51.59	3,638.2	-872.2	843.4	713.2	130.15	6.480	
16,400.0	12,361.0	15,908.4	11,836.0	77.9	77.3	-51.59	3,738.2	-873.1	843.4	710.9	132.46	6.367	
16,500.0	12,361.0	16,008.4	11,836.0	79.3	78.7	-51.59	3,838.2	-874.1	843.4	708.6	134.79	6.257	
16,600.0	12,361.0	16,091.6	11,836.0	80.7	79.8	-51.59	3,938.2	-875.1	843.4	706.4	136.94	6.159	
16,700.0	12,361.0	16,208.4	11,836.0	82.1	81.4	-51.59	4,038.2	-876.1	843.3	703.8	139.50	6.046	
16,800.0	12,361.0	16,308.4	11,836.0	83.5	82.9	-51.59	4,138.2	-877.1	843.3	701.5	141.87	5.944	
16,900.0	12,361.0	16,408.4	11,836.0	84.9	84.3	-51.58	4,238.2	-878.0	843.3	699.1	144.26	5.846	
17,000.0	12,361.0	16,508.4	11,836.0	86.4	85.7	-51.58	4,338.2	-879.0	843.3	696.6	146.66	5.750	
17,100.0	12,361.0	16,591.6	11,836.0	87.8	86.9	-51.58	4,438.2	-880.0	843.3	694.4	148.88	5.664	
17,200.0	12,361.0	16,708.4	11,836.0	89.2	88.6	-51.58	4,538.2	-881.0	843.3	691.8	151.51	5.566	
17,300.0	12,361.0	16,808.4	11,836.0	90.7	90.0	-51.58	4,638.1	-882.0	843.3	689.3	153.95	5.478	
17,400.0	12,361.0	16,891.6	11,836.0	92.2	91.3	-51.58	4,738.1	-883.0	843.3	687.1	156.19	5.399	
17,500.0	12,361.0	17,008.4	11,836.0	93.6	93.0	-51.58	4,838.1	-883.9	843.2	684.4	158.86	5.308	
17,600.0	12,361.0	17,108.4	11,836.0	95.1	94.4	-51.58	4,938.1	-884.9	843.2	681.9	161.33	5.227	
17,700.0	12,361.0	17,208.4	11,836.0	96.6	95.9	-51.58	5,038.1	-885.9	843.2	679.4	163.81	5.148	
17,800.0	12,361.0	17,291.6	11,836.0	98.0	97.2	-51.58	5,138.1	-886.9	843.2	677.1	166.09	5.077	
17,900.0	12,361.0	17,408.4	11,836.0	99.5	98.9	-51.58	5,238.1	-887.9	843.2	674.4	168.80	4.995	
18,000.0	12,361.0	17,508.4	11,836.0	101.0	100.4	-51.58	5,338.1	-888.8	843.2	671.9	171.30	4.922	
18,100.0	12,361.0	17,591.6	11,836.0	102.5	101.6	-51.58	5,438.1	-889.8	843.2	669.6	173.61	4.857	
18,200.0	12,361.0	17,708.4	11,836.0	104.0	103.4	-51.58	5,538.1	-890.8	843.2	666.8	176.34	4.781	
18,300.0	12,361.0	17,808.4	11,836.0	105.5	104.9	-51.58	5,638.1	-891.8	843.1	664.3	178.87	4.714	
18,400.0	12,361.0	17,908.4	11,836.0	107.0	106.4	-51.57	5,738.1	-892.8	843.1	661.7	181.40	4.648	
18,500.0	12,361.0	18,008.4	11,836.0	108.6	107.9	-51.57	5,838.1	-893.8	843.1	659.2	183.95	4.583	
18,600.0	12,361.0	18,091.6	11,836.0	110.1	109.2	-51.57	5,938.1	-894.7	843.1	656.8	186.28	4.526	
18,700.0	12,361.0	18,208.4	11,836.0	111.6	111.0	-51.57	6,038.1	-895.7	843.1	654.0	189.05	4.460	
18,800.0	12,361.0	18,291.6	11,836.0	113.1	112.2	-51.57	6,138.1	-896.7	843.1	651.7	191.40	4.405	
18,900.0	12,361.0	18,408.4	11,836.0	114.7	114.0	-51.57	6,238.1	-897.7	843.1	648.9	194.18	4.342	
19,000.0	12,361.0	18,508.4	11,836.0	116.2	115.6	-51.57	6,338.1	-898.7	843.1	646.3	196.75	4.285	
19,100.0	12,361.0	18,591.6	11,836.0	117.7	116.9	-51.57	6,438.1	-899.7	843.0	643.9	199.12	4.234	
19,200.0	12,361.0	18,708.4	11,836.0	119.3	118.7	-51.57	6,538.1	-900.6	843.0	641.1	201.92	4.175	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #134H - 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
19,300.0	12,361.0	18,808.4	11,836.0	120.8	120.2	-51.57	6,638.1	-901.6	843.0	638.5	204.50	4.122	
19,400.0	12,361.0	18,908.4	11,836.0	122.4	121.7	-51.57	6,738.0	-902.6	843.0	635.9	207.10	4.071	
19,500.0	12,361.0	19,008.4	11,836.0	123.9	123.3	-51.57	6,838.0	-903.6	843.0	633.3	209.69	4.020	
19,600.0	12,361.0	19,108.4	11,836.0	125.5	124.9	-51.57	6,938.0	-904.6	843.0	630.7	212.29	3.971	
19,700.0	12,361.0	19,208.4	11,836.0	127.0	126.4	-51.57	7,038.0	-905.5	843.0	628.1	214.90	3.923	
19,800.0	12,361.0	19,308.4	11,836.0	128.6	128.0	-51.57	7,138.0	-906.5	843.0	625.4	217.51	3.876	
19,900.0	12,361.0	19,408.4	11,836.0	130.1	129.5	-51.56	7,238.0	-907.5	842.9	622.8	220.12	3.829	
20,000.0	12,361.0	19,491.6	11,836.0	131.7	130.8	-51.56	7,338.0	-908.5	842.9	620.4	222.52	3.788	
20,100.0	12,361.0	19,608.4	11,836.0	133.3	132.7	-51.56	7,438.0	-909.5	842.9	617.6	225.36	3.740	
20,200.0	12,361.0	19,708.4	11,836.0	134.8	134.2	-51.56	7,538.0	-910.5	842.9	614.9	227.99	3.697	
20,300.0	12,361.0	19,808.4	11,836.0	136.4	135.8	-51.56	7,638.0	-911.4	842.9	612.3	230.61	3.655	
20,400.0	12,361.0	19,908.4	11,836.0	138.0	137.4	-51.56	7,738.0	-912.4	842.9	609.6	233.24	3.614	
20,500.0	12,361.0	20,008.4	11,836.0	139.5	138.9	-51.56	7,838.0	-913.4	842.9	607.0	235.88	3.573	
20,600.0	12,361.0	20,108.4	11,836.0	141.1	140.5	-51.56	7,938.0	-914.4	842.9	604.3	238.51	3.534	
20,700.0	12,361.0	20,208.4	11,836.0	142.7	142.1	-51.56	8,038.0	-915.4	842.8	601.7	241.15	3.495	
20,800.0	12,361.0	20,291.6	11,836.0	144.3	143.4	-51.56	8,138.0	-916.3	842.8	599.3	243.58	3.460	
20,900.0	12,361.0	20,408.4	11,836.0	145.8	145.3	-51.56	8,238.0	-917.3	842.8	596.4	246.44	3.420	
21,000.0	12,361.0	20,508.4	11,836.0	147.4	146.8	-51.56	8,338.0	-918.3	842.8	593.7	249.09	3.384	
21,100.0	12,361.0	20,591.6	11,836.0	149.0	148.2	-51.56	8,438.0	-919.3	842.8	591.3	251.52	3.351	
21,200.0	12,361.0	20,708.4	11,836.0	150.6	150.0	-51.56	8,538.0	-920.3	842.8	588.4	254.40	3.313	
21,300.0	12,361.0	20,791.6	11,836.0	152.2	151.3	-51.56	8,638.0	-921.3	842.8	585.9	256.83	3.281	
21,400.0	12,361.0	20,908.4	11,836.0	153.8	153.2	-51.55	8,737.9	-922.2	842.8	583.1	259.71	3.245	
21,500.0	12,361.0	21,008.4	11,836.0	155.4	154.8	-51.55	8,837.9	-923.2	842.7	580.4	262.37	3.212	
21,600.0	12,361.0	21,108.4	11,836.0	156.9	156.4	-51.55	8,937.9	-924.2	842.7	577.7	265.03	3.180	
21,700.0	12,361.0	21,208.4	11,836.0	158.5	158.0	-51.55	9,037.9	-925.2	842.7	575.0	267.70	3.148	
21,800.0	12,361.0	21,308.4	11,836.0	160.1	159.5	-51.55	9,137.9	-926.2	842.7	572.3	270.36	3.117	
21,900.0	12,361.0	21,408.4	11,836.0	161.7	161.1	-51.55	9,237.9	-927.2	842.7	569.7	273.03	3.086	
22,000.0	12,361.0	21,508.4	11,836.0	163.3	162.7	-51.55	9,337.9	-928.1	842.7	567.0	275.70	3.057	
22,100.0	12,361.0	21,608.4	11,836.0	164.9	164.3	-51.55	9,437.9	-929.1	842.7	564.3	278.38	3.027	
22,200.0	12,361.0	21,691.6	11,836.0	166.5	165.7	-51.55	9,537.9	-930.1	842.7	561.8	280.83	3.001	
22,300.0	12,361.0	21,808.4	11,836.0	168.1	167.5	-51.55	9,637.9	-931.1	842.7	558.9	283.73	2.970	
22,400.0	12,361.0	21,908.4	11,836.0	169.7	169.1	-51.55	9,737.9	-932.1	842.6	556.2	286.40	2.942	
22,500.0	12,361.0	21,991.6	11,836.0	171.3	170.5	-51.55	9,837.9	-933.0	842.6	553.8	288.86	2.917	
22,600.0	12,361.0	22,091.6	11,836.0	172.9	172.1	-51.55	9,937.9	-934.0	842.6	551.1	291.54	2.890	
22,613.5	12,361.0	22,105.1	11,836.0	173.1	172.3	-51.55	9,951.4	-934.2	842.6	550.7	291.90	2.887	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #218H - 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	2.0	-2.0	0.0	0.0	-0.39	29.9	-0.2	29.9				
100.0	100.0	102.0	98.0	0.1	0.1	-0.39	29.9	-0.2	29.9	29.6	0.26	113.363	
200.0	200.0	202.0	198.0	0.5	0.5	-0.39	29.9	-0.2	29.9	28.9	0.98	30.465	
300.0	300.0	302.0	298.0	0.8	0.9	-0.39	29.9	-0.2	29.9	28.2	1.70	17.597	
400.0	400.0	402.0	398.0	1.2	1.2	-0.39	29.9	-0.2	29.9	27.5	2.41	12.372	
500.0	500.0	502.0	498.0	1.6	1.6	-0.39	29.9	-0.2	29.9	26.7	3.13	9.539	
600.0	600.0	602.0	598.0	1.9	1.9	-0.39	29.9	-0.2	29.9	26.0	3.85	7.762	
700.0	700.0	702.0	698.0	2.3	2.3	-0.39	29.9	-0.2	29.9	25.3	4.57	6.543	
800.0	800.0	802.0	798.0	2.6	2.6	-0.39	29.9	-0.2	29.9	24.6	5.28	5.655	
900.0	900.0	902.0	898.0	3.0	3.0	-0.39	29.9	-0.2	29.9	23.9	6.00	4.979	
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	-0.39	29.9	-0.2	29.9	23.2	6.72	4.447	
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	-0.39	29.9	-0.2	29.9	22.4	7.43	4.018	
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	-0.39	29.9	-0.2	29.9	21.7	8.15	3.665	
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	-0.39	29.9	-0.2	29.9	21.0	8.87	3.369	
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	-0.39	29.9	-0.2	29.9	20.3	9.58	3.117	
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	-0.39	29.9	-0.2	29.9	19.6	10.30	2.900	CC
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	174.44	29.9	-0.2	30.7	19.7	11.00	2.794	
1,700.0	1,700.0	1,702.0	1,698.0	5.8	5.9	174.88	29.9	-0.2	33.3	21.7	11.68	2.854	
1,800.0	1,799.9	1,802.1	1,797.9	6.1	6.2	175.47	29.9	-0.2	37.7	25.3	12.37	3.046	
1,900.0	1,899.7	1,902.3	1,897.7	6.5	6.6	176.09	29.9	-0.2	43.8	30.7	13.06	3.351	
2,000.0	1,999.4	2,002.6	1,997.4	6.8	6.9	176.68	29.9	-0.2	51.6	37.8	13.76	3.751	
2,100.0	2,098.9	2,103.1	2,096.9	7.2	7.3	177.20	29.9	-0.2	61.2	46.7	14.46	4.232	
2,200.0	2,198.3	2,203.7	2,196.3	7.5	7.7	177.63	29.9	-0.2	72.5	57.3	15.16	4.782	
2,300.0	2,297.4	2,304.6	2,295.4	7.9	8.0	177.99	29.9	-0.2	85.5	69.7	15.86	5.393	
2,400.0	2,396.4	2,405.6	2,394.4	8.2	8.4	178.27	29.9	-0.2	99.4	82.9	16.56	6.003	
2,500.0	2,495.5	2,506.5	2,493.5	8.6	8.8	178.48	29.9	-0.2	113.4	96.1	17.27	6.563	
2,600.0	2,594.5	2,607.5	2,592.5	9.0	9.1	178.65	29.9	-0.2	127.3	109.3	17.98	7.079	
2,700.0	2,693.5	2,708.5	2,691.5	9.4	9.5	178.78	29.9	-0.2	141.2	122.5	18.69	7.554	
2,800.0	2,792.5	2,809.5	2,790.5	9.7	9.8	178.89	29.9	-0.2	155.1	135.7	19.40	7.995	
2,900.0	2,891.6	2,889.6	2,889.6	10.1	10.1	178.98	29.9	-0.2	169.0	149.0	20.04	8.435	
3,000.0	2,990.6	2,988.6	2,988.6	10.5	10.5	179.06	29.9	-0.2	182.9	162.2	20.74	8.818	
3,100.0	3,089.6	3,087.6	3,087.6	10.9	10.8	179.13	29.9	-0.2	196.8	175.4	21.45	9.176	
3,200.0	3,188.6	3,186.6	3,186.6	11.3	11.2	179.18	29.9	-0.2	210.8	188.6	22.16	9.510	
3,300.0	3,287.7	3,285.7	3,285.7	11.7	11.5	179.23	29.9	-0.2	224.7	201.8	22.87	9.823	
3,400.0	3,386.7	3,384.7	3,384.7	12.1	11.9	179.28	29.9	-0.2	238.6	215.0	23.58	10.117	
3,500.0	3,485.7	3,483.7	3,483.7	12.5	12.3	179.32	29.9	-0.2	252.5	228.2	24.29	10.394	
3,600.0	3,584.8	3,582.8	3,582.8	12.9	12.6	179.35	29.9	-0.2	266.4	241.4	25.01	10.654	
3,700.0	3,683.8	3,681.8	3,681.8	13.3	13.0	179.39	29.9	-0.2	280.3	254.6	25.72	10.900	
3,800.0	3,782.8	3,780.8	3,780.8	13.7	13.3	179.42	29.9	-0.2	294.3	267.8	26.43	11.132	
3,900.0	3,881.8	3,879.8	3,879.8	14.1	13.7	179.44	29.9	-0.2	308.2	281.0	27.15	11.352	
4,000.0	3,980.9	3,978.9	3,978.9	14.5	14.0	179.47	29.9	-0.2	322.1	294.2	27.86	11.560	
4,100.0	4,079.9	4,077.9	4,077.9	14.9	14.4	179.49	29.9	-0.2	336.0	307.4	28.58	11.758	
4,200.0	4,178.9	4,176.9	4,176.9	15.3	14.7	179.51	29.9	-0.2	349.9	320.6	29.29	11.946	
4,300.0	4,277.9	4,275.9	4,275.9	15.8	15.1	179.53	29.9	-0.2	363.8	333.8	30.01	12.125	
4,400.0	4,377.0	4,375.0	4,375.0	16.2	15.5	179.54	29.9	-0.2	377.8	347.0	30.72	12.295	
4,500.0	4,476.0	4,474.0	4,474.0	16.6	15.8	179.56	29.9	-0.2	391.7	360.2	31.44	12.457	
4,600.0	4,575.0	4,573.0	4,573.0	17.0	16.2	179.58	29.9	-0.2	405.6	373.4	32.16	12.612	
4,700.0	4,674.0	4,672.0	4,672.0	17.4	16.5	179.59	29.9	-0.2	419.5	386.6	32.88	12.760	
4,800.0	4,773.1	4,771.1	4,771.1	17.8	16.9	179.60	29.9	-0.2	433.4	399.8	33.59	12.902	
4,900.0	4,872.1	4,870.1	4,870.1	18.2	17.2	179.62	29.9	-0.2	447.3	413.0	34.31	13.038	
5,000.0	4,971.1	4,969.1	4,969.1	18.6	17.6	179.63	29.9	-0.2	461.3	426.2	35.03	13.168	
5,100.0	5,070.2	5,074.1	5,074.1	19.1	17.9	179.65	29.4	-0.1	474.7	439.0	35.77	13.272	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #218H - 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
5,200.0	5,169.2	5,182.2	5,182.2	19.5	18.3	179.73	27.0	0.3	486.5	450.0	36.50	13.328	
5,221.2	5,190.2	5,205.2	5,205.2	19.6	18.4	179.76	26.2	0.4	488.8	452.1	36.66	13.334	
5,300.0	5,268.3	5,290.8	5,290.7	19.9	18.7	179.87	22.6	1.0	495.6	458.4	37.22	13.315	
5,400.0	5,367.8	5,399.9	5,399.6	20.3	19.0	-179.94	16.1	2.0	500.4	462.5	37.93	13.192	
5,500.0	5,467.4	5,509.1	5,508.4	20.7	19.4	-179.70	7.5	3.3	500.7	462.1	38.63	12.962	
5,600.0	5,567.3	5,618.2	5,617.0	21.0	19.7	-179.39	-3.0	5.0	496.5	457.2	39.31	12.632	
5,700.0	5,667.2	5,726.7	5,724.8	21.4	20.1	-179.00	-15.6	7.0	488.0	448.0	39.97	12.207	
5,754.5	5,721.8	5,785.7	5,783.2	21.5	20.3	6.57	-23.2	8.3	481.4	441.1	40.32	11.939	
5,800.0	5,767.2	5,831.8	5,828.9	21.7	20.5	6.78	-29.6	9.3	475.3	434.7	40.62	11.702	
5,900.0	5,867.2	5,930.9	5,927.0	22.0	20.8	7.25	-43.2	11.4	462.0	420.7	41.28	11.191	
6,000.0	5,967.2	6,029.9	6,025.1	22.3	21.2	7.75	-56.8	13.6	448.6	406.7	41.94	10.695	
6,100.0	6,067.2	6,128.9	6,123.1	22.6	21.5	8.28	-70.4	15.8	435.3	392.7	42.61	10.215	
6,200.0	6,167.2	6,227.9	6,221.2	22.9	21.9	8.84	-84.0	17.9	422.0	378.7	43.28	9.750	
6,300.0	6,267.2	6,327.0	6,319.3	23.2	22.3	9.44	-97.6	20.1	408.8	364.8	43.96	9.299	
6,400.0	6,367.2	6,426.0	6,417.3	23.6	22.7	10.08	-111.2	22.3	395.6	350.9	44.64	8.862	
6,500.0	6,467.2	6,525.0	6,515.4	23.9	23.1	10.76	-124.8	24.4	382.4	337.1	45.32	8.439	
6,600.0	6,567.2	6,624.1	6,613.4	24.2	23.5	11.49	-138.5	26.6	369.4	323.4	46.01	8.028	
6,700.0	6,667.2	6,723.1	6,711.5	24.5	23.9	12.27	-152.1	28.8	356.4	309.7	46.70	7.631	
6,800.0	6,767.2	6,822.1	6,809.6	24.8	24.3	13.12	-165.7	30.9	343.4	296.0	47.40	7.245	
6,900.0	6,867.2	6,921.1	6,907.6	25.2	24.7	14.03	-179.3	33.1	330.5	282.4	48.10	6.872	
7,000.0	6,967.2	7,020.2	7,005.7	25.5	25.2	15.01	-192.9	35.3	317.8	269.0	48.81	6.510	
7,100.0	7,067.2	7,119.2	7,103.8	25.8	25.6	16.07	-206.5	37.4	305.1	255.6	49.52	6.160	
7,200.0	7,167.2	7,218.2	7,201.8	26.1	26.0	17.23	-220.1	39.6	292.5	242.3	50.25	5.822	
7,300.0	7,267.2	7,317.2	7,299.9	26.5	26.5	18.48	-233.7	41.8	280.1	229.1	50.98	5.494	
7,400.0	7,367.2	7,416.3	7,397.9	26.8	26.9	19.86	-247.3	43.9	267.8	216.1	51.72	5.178	
7,500.0	7,467.2	7,515.3	7,496.0	27.1	27.3	21.36	-261.0	46.1	255.7	203.2	52.48	4.872	
7,600.0	7,567.2	7,614.3	7,594.1	27.5	27.8	23.01	-274.6	48.3	243.7	190.5	53.25	4.578	
7,700.0	7,667.2	7,713.4	7,692.1	27.8	28.3	24.83	-288.2	50.4	232.0	178.0	54.03	4.294	
7,800.0	7,767.2	7,812.4	7,790.2	28.1	28.7	26.84	-301.8	52.6	220.6	165.7	54.83	4.023	
7,900.0	7,867.2	7,911.4	7,888.3	28.4	29.2	29.06	-315.4	54.8	209.4	153.8	55.66	3.763	
8,000.0	7,967.2	8,010.4	7,986.3	28.8	29.6	31.53	-329.0	56.9	198.6	142.1	56.51	3.515	
8,100.0	8,067.2	8,109.5	8,084.4	29.1	30.1	34.28	-342.6	59.1	188.2	130.8	57.38	3.280	
8,200.0	8,167.2	8,208.5	8,182.4	29.4	30.6	37.33	-356.2	61.3	178.3	120.0	58.29	3.059	
8,300.0	8,267.2	8,307.5	8,280.5	29.8	31.0	40.73	-369.8	63.4	168.9	109.7	59.24	2.852	
8,400.0	8,367.2	8,406.5	8,378.6	30.1	31.5	44.51	-383.4	65.6	160.2	100.0	60.22	2.661	
8,500.0	8,467.2	8,505.6	8,476.6	30.4	32.0	48.69	-397.1	67.8	152.3	91.1	61.23	2.488	
8,600.0	8,567.2	8,604.6	8,574.7	30.8	32.5	53.30	-410.7	69.9	145.3	83.1	62.27	2.334	
8,700.0	8,667.2	8,703.6	8,672.8	31.1	32.9	58.34	-424.3	72.1	139.4	76.0	63.33	2.201	
8,800.0	8,767.2	8,802.6	8,770.8	31.4	33.4	63.77	-437.9	74.3	134.6	70.2	64.38	2.090	
8,900.0	8,867.2	8,901.7	8,868.9	31.8	33.9	69.53	-451.5	76.4	131.1	65.7	65.41	2.005	
9,000.0	8,967.2	9,000.6	8,966.9	32.1	34.4	75.47	-465.0	78.6	129.1	62.7	66.37	1.944	
9,100.0	9,067.2	9,099.7	9,065.3	32.5	34.8	80.66	-476.5	80.4	128.5	61.2	67.24	1.911	
9,106.3	9,073.5	9,106.0	9,071.5	32.5	34.9	80.96	-477.1	80.5	128.5	61.2	67.29	1.909	
9,200.0	9,167.2	9,199.4	9,164.6	32.8	35.3	84.75	-485.5	81.8	128.7	60.7	68.02	1.893	
9,300.0	9,267.2	9,299.5	9,264.4	33.1	35.7	87.66	-492.1	82.9	129.3	60.6	68.74	1.882	
9,400.0	9,367.2	9,399.9	9,364.7	33.5	36.0	89.41	-496.0	83.5	129.9	60.4	69.43	1.871	
9,500.0	9,467.2	9,500.4	9,465.2	33.8	36.4	89.99	-497.3	83.7	130.1	60.0	70.09	1.856	
9,600.0	9,567.2	9,600.4	9,565.2	34.2	36.7	89.99	-497.3	83.7	130.1	59.3	70.75	1.839	
9,700.0	9,667.2	9,700.4	9,665.2	34.5	37.0	89.99	-497.3	83.7	130.1	58.7	71.40	1.822	
9,800.0	9,767.2	9,800.4	9,765.2	34.8	37.3	89.99	-497.3	83.7	130.1	58.0	72.05	1.805	
9,900.0	9,867.2	9,900.4	9,865.2	35.2	37.6	89.99	-497.3	83.7	130.1	57.4	72.71	1.789	
10,000.0	9,967.2	10,000.4	9,965.2	35.5	37.9	89.99	-497.3	83.7	130.1	56.7	73.36	1.773	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #218H - 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
10,100.0	10,067.2	10,100.4	10,065.2	35.9	38.3	89.99	-497.3	83.7	130.1	56.1	74.02	1.757	
10,200.0	10,167.2	10,200.4	10,165.2	36.2	38.6	89.99	-497.3	83.7	130.1	55.4	74.68	1.742	
10,300.0	10,267.2	10,300.4	10,265.2	36.5	38.9	89.99	-497.3	83.7	130.1	54.7	75.34	1.727	
10,400.0	10,367.2	10,400.4	10,365.2	36.9	39.2	89.99	-497.3	83.7	130.1	54.1	76.00	1.712	
10,500.0	10,467.2	10,500.4	10,465.2	37.2	39.5	89.99	-497.3	83.7	130.1	53.4	76.66	1.697	
10,600.0	10,567.2	10,600.4	10,565.2	37.6	39.8	89.99	-497.3	83.7	130.1	52.8	77.32	1.682	
10,700.0	10,667.2	10,700.4	10,665.2	37.9	40.2	89.99	-497.3	83.7	130.1	52.1	77.99	1.668	
10,800.0	10,767.2	10,800.4	10,765.2	38.3	40.5	89.99	-497.3	83.7	130.1	51.4	78.65	1.654	
10,900.0	10,867.2	10,900.4	10,865.2	38.6	40.8	89.99	-497.3	83.7	130.1	50.8	79.32	1.640	
11,000.0	10,967.2	11,000.4	10,965.2	38.9	41.1	89.99	-497.3	83.7	130.1	50.1	79.98	1.626	
11,100.0	11,067.2	11,100.4	11,065.2	39.3	41.4	89.99	-497.3	83.7	130.1	49.4	80.65	1.613	
11,200.0	11,167.2	11,200.4	11,165.2	39.6	41.8	89.99	-497.3	83.7	130.1	48.8	81.32	1.600	
11,300.0	11,267.2	11,300.4	11,265.2	40.0	42.1	89.99	-497.3	83.7	130.1	48.1	81.99	1.587	
11,400.0	11,367.2	11,400.4	11,365.2	40.3	42.4	89.99	-497.3	83.7	130.1	47.4	82.66	1.574	
11,500.0	11,467.2	11,500.4	11,465.2	40.7	42.7	89.99	-497.3	83.7	130.1	46.7	83.33	1.561	
11,600.0	11,567.2	11,600.4	11,565.2	41.0	43.1	89.99	-497.3	83.7	130.1	46.1	84.00	1.549	
11,700.0	11,667.2	11,700.4	11,665.2	41.4	43.4	89.99	-497.3	83.7	130.1	45.4	84.67	1.536	
11,800.0	11,767.2	11,800.4	11,765.2	41.7	43.7	89.99	-497.3	83.7	130.1	44.7	85.34	1.524	
11,820.8	11,788.0	11,821.2	11,786.0	41.8	43.8	89.99	-497.3	83.7	130.1	44.6	85.48	1.522	
11,850.0	11,817.2	11,850.4	11,815.2	41.9	43.9	99.80	-497.3	83.7	130.2	44.5	85.67	1.520	
11,900.0	11,867.0	11,900.1	11,865.0	42.0	44.0	101.74	-497.3	83.7	131.1	45.1	85.96	1.525	
11,950.0	11,916.1	11,953.2	11,917.9	42.2	44.2	104.95	-495.6	83.2	132.6	46.5	86.18	1.539	
12,000.0	11,964.3	12,007.6	11,971.9	42.3	44.4	108.13	-489.0	81.4	134.0	47.8	86.23	1.554	
12,050.0	12,011.2	12,062.8	12,025.7	42.5	44.5	111.22	-477.4	78.0	135.2	49.1	86.03	1.571	
12,100.0	12,056.3	12,118.7	12,078.8	42.6	44.6	114.22	-460.5	73.2	136.0	50.5	85.54	1.590	
12,150.0	12,099.4	12,175.3	12,130.6	42.7	44.7	117.13	-438.5	67.0	136.5	51.8	84.69	1.612	
12,200.0	12,140.2	12,232.6	12,180.4	42.8	44.8	119.96	-411.3	59.2	136.6	53.1	83.46	1.636	
12,250.0	12,178.2	12,290.5	12,227.6	42.9	44.9	122.71	-379.1	50.0	136.2	54.4	81.85	1.664	
12,300.0	12,213.3	12,348.8	12,271.5	42.9	45.1	125.37	-342.2	39.5	135.3	55.5	79.87	1.694	
12,350.0	12,245.1	12,407.6	12,311.5	43.0	45.2	127.96	-300.9	27.8	133.9	56.3	77.58	1.726	
12,400.0	12,273.5	12,466.6	12,347.2	43.1	45.4	130.47	-255.6	14.9	132.0	56.9	75.06	1.758	
12,450.0	12,298.2	12,525.9	12,377.8	43.1	45.7	132.91	-206.9	1.0	129.4	57.0	72.42	1.787	
12,500.0	12,319.0	12,585.3	12,403.2	43.2	46.0	135.28	-155.2	-13.7	126.3	56.5	69.80	1.809	
12,550.0	12,335.7	12,644.7	12,422.8	43.3	46.3	137.58	-101.4	-29.1	122.5	55.2	67.35	1.819	
12,600.0	12,348.3	12,703.9	12,436.5	43.4	46.7	139.81	-46.0	-44.9	118.2	53.0	65.26	1.812	
12,650.0	12,356.6	12,762.9	12,444.2	43.4	47.2	141.97	10.3	-60.9	113.4	49.7	63.68	1.780	
12,700.0	12,360.6	12,819.3	12,446.0	43.5	47.8	144.03	64.5	-76.3	108.1	45.4	62.64	1.725	
12,720.8	12,361.0	12,839.5	12,446.0	43.5	48.0	144.92	83.9	-81.7	106.5	44.4	62.04	1.716	
12,800.0	12,361.0	12,916.8	12,446.0	43.7	48.8	148.58	158.8	-101.0	102.1	42.9	59.21	1.724	
12,900.0	12,361.0	13,014.7	12,446.0	43.9	50.0	153.69	254.2	-122.6	97.2	42.0	55.17	1.761	
13,000.0	12,361.0	13,112.8	12,446.0	44.2	51.4	159.32	350.6	-141.0	93.1	42.3	50.78	1.833	
13,100.0	12,361.0	13,211.3	12,446.0	44.6	52.8	165.44	448.0	-156.1	89.9	43.5	46.47	1.935	
13,167.2	12,361.0	13,277.7	12,446.0	44.9	53.9	169.77	513.8	-164.4	88.4	44.4	44.02	2.009	
13,200.0	12,361.0	13,310.2	12,446.0	45.0	54.4	171.81	546.1	-167.9	87.9	44.8	43.13	2.038	
13,300.0	12,361.0	13,409.6	12,446.0	45.5	56.1	176.66	645.2	-176.3	87.1	45.1	42.02	2.074	
13,400.0	12,361.0	13,509.4	12,446.0	46.0	57.8	179.29	744.9	-181.3	87.0	44.7	42.33	2.055	
13,500.0	12,361.0	13,609.4	12,446.0	46.6	59.6	179.78	844.8	-183.1	87.0	44.0	43.04	2.021	
13,508.7	12,361.0	13,618.1	12,446.0	46.6	59.8	179.78	853.5	-183.2	87.0	43.9	43.11	2.018	
13,600.0	12,361.0	13,709.4	12,446.0	47.2	61.5	179.79	944.8	-184.1	87.0	43.2	43.82	1.986	
13,700.0	12,361.0	13,809.4	12,446.0	47.8	63.5	179.79	1,044.8	-185.1	87.0	42.4	44.63	1.949	
13,800.0	12,361.0	13,909.4	12,446.0	48.6	65.6	179.79	1,144.8	-186.1	87.0	41.5	45.48	1.913	
13,900.0	12,361.0	14,009.4	12,446.0	49.3	67.7	179.80	1,244.8	-187.1	87.0	40.6	46.37	1.876	

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #218H - 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
14,000.0	12,361.0	14,109.4	12,446.0	50.1	69.9	179.80	1,344.8	-188.1	87.0	39.7	47.29	1.840	
14,100.0	12,361.0	14,209.4	12,446.0	51.0	72.2	179.80	1,444.8	-189.1	87.0	38.7	48.25	1.803	
14,200.0	12,361.0	14,309.4	12,446.0	51.9	74.5	179.81	1,544.8	-190.1	87.0	37.8	49.24	1.767	
14,300.0	12,361.0	14,409.4	12,446.0	52.8	76.9	179.81	1,644.8	-191.1	87.0	36.7	50.26	1.731	
14,400.0	12,361.0	14,509.4	12,446.0	53.7	79.4	179.81	1,744.8	-192.1	87.0	35.7	51.31	1.696	
14,500.0	12,361.0	14,609.4	12,446.0	54.7	81.8	179.81	1,844.8	-193.1	87.0	34.6	52.38	1.661	
14,600.0	12,361.0	14,709.4	12,446.0	55.7	84.4	179.82	1,944.8	-194.1	87.0	33.5	53.48	1.627	
14,700.0	12,361.0	14,809.4	12,446.0	56.8	86.9	179.82	2,044.8	-195.1	87.0	32.4	54.60	1.593	
14,800.0	12,361.0	14,909.4	12,446.0	57.9	89.5	179.82	2,144.8	-196.1	87.0	31.3	55.74	1.561	
14,900.0	12,361.0	15,009.4	12,446.0	59.0	92.1	179.83	2,244.8	-197.1	87.0	30.1	56.90	1.529	
15,000.0	12,361.0	15,109.4	12,446.0	60.1	94.8	179.83	2,344.7	-198.1	87.0	28.9	58.09	1.498	Level 3
15,100.0	12,361.0	15,209.4	12,446.0	61.3	97.4	179.83	2,444.7	-199.1	87.0	27.7	59.28	1.467	Level 3
15,200.0	12,361.0	15,309.4	12,446.0	62.4	100.1	179.84	2,544.7	-200.1	87.0	26.5	60.50	1.438	Level 3
15,300.0	12,361.0	15,409.4	12,446.0	63.6	102.8	179.84	2,644.7	-201.1	87.0	25.3	61.73	1.409	Level 3
15,400.0	12,361.0	15,509.4	12,446.0	64.9	105.6	179.84	2,744.7	-202.1	87.0	24.0	62.98	1.381	Level 3
15,500.0	12,361.0	15,609.4	12,446.0	66.1	108.3	179.85	2,844.7	-203.1	87.0	22.8	64.24	1.354	Level 3
15,600.0	12,361.0	15,709.4	12,446.0	67.4	111.1	179.85	2,944.7	-204.1	87.0	21.5	65.52	1.328	Level 3
15,700.0	12,361.0	15,809.4	12,446.0	68.6	113.9	179.85	3,044.7	-205.1	87.0	20.2	66.81	1.302	Level 3
15,800.0	12,361.0	15,909.4	12,446.0	69.9	116.7	179.86	3,144.7	-206.1	87.0	18.9	68.11	1.277	Level 3
15,900.0	12,361.0	16,009.4	12,446.0	71.2	119.5	179.86	3,244.7	-207.1	87.0	17.6	69.42	1.253	Level 3
16,000.0	12,361.0	16,109.4	12,446.0	72.5	122.3	179.86	3,344.7	-208.1	87.0	16.3	70.74	1.230	Level 2
16,100.0	12,361.0	16,209.4	12,446.0	73.9	125.2	179.87	3,444.7	-209.1	87.0	14.9	72.07	1.207	Level 2
16,200.0	12,361.0	16,309.4	12,446.0	75.2	128.0	179.87	3,544.7	-210.1	87.0	13.6	73.41	1.185	Level 2
16,300.0	12,361.0	16,409.4	12,446.0	76.6	130.9	179.87	3,644.7	-211.1	87.0	12.2	74.76	1.164	Level 2
16,400.0	12,361.0	16,509.4	12,446.0	77.9	133.7	179.88	3,744.7	-212.1	87.0	10.9	76.12	1.143	Level 2
16,500.0	12,361.0	16,609.4	12,446.0	79.3	136.6	179.88	3,844.7	-213.1	87.0	9.5	77.48	1.123	Level 2
16,600.0	12,361.0	16,709.4	12,446.0	80.7	139.5	179.88	3,944.7	-214.1	87.0	8.1	78.86	1.103	Level 2
16,700.0	12,361.0	16,809.4	12,446.0	82.1	142.4	179.89	4,044.7	-215.1	87.0	6.8	80.24	1.084	Level 2
16,800.0	12,361.0	16,909.4	12,446.0	83.5	145.3	179.89	4,144.7	-216.2	87.0	5.4	81.62	1.066	Level 2
16,900.0	12,361.0	17,009.4	12,446.0	84.9	148.2	179.89	4,244.7	-217.2	87.0	4.0	83.02	1.048	Level 2
17,000.0	12,361.0	17,109.4	12,446.0	86.4	151.1	179.90	4,344.6	-218.2	87.0	2.6	84.42	1.031	Level 2
17,100.0	12,361.0	17,209.4	12,446.0	87.8	154.0	179.90	4,444.6	-219.2	87.0	1.2	85.82	1.014	Level 2
17,200.0	12,361.0	17,309.4	12,446.0	89.2	157.0	179.90	4,544.6	-220.2	87.0	-0.2	87.24	0.997	Level 1
17,300.0	12,361.0	17,409.4	12,446.0	90.7	159.9	179.90	4,644.6	-221.2	87.0	-1.7	88.65	0.981	Level 1
17,400.0	12,361.0	17,509.4	12,446.0	92.2	162.8	179.91	4,744.6	-222.2	87.0	-3.1	90.07	0.966	Level 1
17,500.0	12,361.0	17,609.4	12,446.0	93.6	165.8	179.91	4,844.6	-223.2	87.0	-4.5	91.50	0.951	Level 1
17,600.0	12,361.0	17,709.4	12,446.0	95.1	168.7	179.91	4,944.6	-224.2	87.0	-5.9	92.93	0.936	Level 1
17,700.0	12,361.0	17,809.4	12,446.0	96.6	171.7	179.92	5,044.6	-225.2	87.0	-7.4	94.37	0.922	Level 1
17,800.0	12,361.0	17,909.4	12,446.0	98.0	174.6	179.92	5,144.6	-226.2	87.0	-8.8	95.81	0.908	Level 1
17,900.0	12,361.0	18,009.4	12,446.0	99.5	177.6	179.92	5,244.6	-227.2	87.0	-10.3	97.25	0.895	Level 1
17,985.4	12,361.0	18,105.2	12,446.0	100.8	180.4	179.93	5,330.0	-228.0	87.0	-11.6	98.56	0.883	Level 1
18,000.0	12,361.0	18,109.4	12,446.0	101.0	180.6	179.93	5,344.6	-228.2	87.0	-11.7	98.70	0.881	Level 1
18,100.0	12,361.0	18,209.4	12,446.0	102.5	183.5	179.93	5,444.6	-229.2	87.0	-13.2	100.15	0.869	Level 1
18,200.0	12,361.0	18,309.4	12,446.0	104.0	186.5	179.93	5,544.6	-230.2	87.0	-14.6	101.61	0.856	Level 1
18,300.0	12,361.0	18,409.4	12,446.0	105.5	189.5	179.94	5,644.6	-231.2	87.0	-16.1	103.06	0.844	Level 1
18,400.0	12,361.0	18,509.4	12,446.0	107.0	192.5	179.94	5,744.6	-232.2	87.0	-17.5	104.53	0.832	Level 1
18,500.0	12,361.0	18,609.4	12,446.0	108.6	195.4	179.94	5,844.6	-233.2	87.0	-19.0	105.99	0.821	Level 1
18,600.0	12,361.0	18,709.4	12,446.0	110.1	198.4	179.95	5,944.6	-234.2	87.0	-20.5	107.46	0.810	Level 1
18,700.0	12,361.0	18,809.4	12,446.0	111.6	201.4	179.95	6,044.6	-235.2	87.0	-21.9	108.93	0.799	Level 1
18,800.0	12,361.0	18,909.4	12,446.0	113.1	204.4	179.95	6,144.6	-236.2	87.0	-23.4	110.40	0.788	Level 1
18,900.0	12,361.0	19,009.4	12,446.0	114.7	207.4	179.96	6,244.6	-237.2	87.0	-24.9	111.88	0.778	Level 1
19,000.0	12,361.0	19,109.4	12,446.0	116.2	210.4	179.96	6,344.5	-238.2	87.0	-26.4	113.36	0.767	Level 1

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 #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 #218H - 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
19,100.0	12,361.0	19,209.4	12,446.0	117.7	213.4	179.96	6,444.5	-239.2	87.0	-27.8	114.84	0.758	Level 1
19,200.0	12,361.0	19,309.4	12,446.0	119.3	216.4	179.97	6,544.5	-240.2	87.0	-29.3	116.32	0.748	Level 1
19,300.0	12,361.0	19,409.4	12,446.0	120.8	219.4	179.97	6,644.5	-241.2	87.0	-30.8	117.80	0.739	Level 1
19,400.0	12,361.0	19,509.4	12,446.0	122.4	222.4	179.97	6,744.5	-242.2	87.0	-32.3	119.29	0.729	Level 1
19,500.0	12,361.0	19,609.4	12,446.0	123.9	225.4	179.98	6,844.5	-243.2	87.0	-33.8	120.78	0.720	Level 1
19,600.0	12,361.0	19,709.4	12,446.0	125.5	228.4	179.98	6,944.5	-244.2	87.0	-35.3	122.27	0.712	Level 1
19,700.0	12,361.0	19,809.4	12,446.0	127.0	231.4	179.98	7,044.5	-245.2	87.0	-36.8	123.77	0.703	Level 1
19,800.0	12,361.0	19,909.4	12,446.0	128.6	234.4	179.98	7,144.5	-246.2	87.0	-38.3	125.26	0.695	Level 1
19,900.0	12,361.0	20,009.4	12,446.0	130.1	237.4	179.99	7,244.5	-247.2	87.0	-39.8	126.76	0.686	Level 1
20,000.0	12,361.0	20,109.4	12,446.0	131.7	240.5	179.99	7,344.5	-248.2	87.0	-41.3	128.26	0.678	Level 1
20,100.0	12,361.0	20,209.4	12,446.0	133.3	243.5	179.99	7,444.5	-249.2	87.0	-42.8	129.76	0.670	Level 1
20,200.0	12,361.0	20,309.4	12,446.0	134.8	246.5	180.00	7,544.5	-250.2	87.0	-44.3	131.26	0.663	Level 1
20,300.0	12,361.0	20,409.4	12,446.0	136.4	249.5	-180.00	7,644.5	-251.2	87.0	-45.8	132.76	0.655	Level 1
20,400.0	12,361.0	20,509.4	12,446.0	138.0	252.5	-180.00	7,744.5	-252.2	87.0	-47.3	134.27	0.648	Level 1
20,500.0	12,361.0	20,609.4	12,446.0	139.5	255.5	-179.99	7,844.5	-253.2	87.0	-48.8	135.78	0.641	Level 1
20,600.0	12,361.0	20,709.4	12,446.0	141.1	258.6	-179.99	7,944.5	-254.3	87.0	-50.3	137.28	0.634	Level 1
20,700.0	12,361.0	20,809.4	12,446.0	142.7	261.6	-179.99	8,044.5	-255.3	87.0	-51.8	138.79	0.627	Level 1
20,800.0	12,361.0	20,909.4	12,446.0	144.3	264.6	-179.98	8,144.5	-256.3	87.0	-53.3	140.30	0.620	Level 1
20,900.0	12,361.0	21,009.4	12,446.0	145.8	267.6	-179.98	8,244.5	-257.3	87.0	-54.8	141.82	0.613	Level 1
21,000.0	12,361.0	21,109.4	12,446.0	147.4	270.7	-179.98	8,344.4	-258.3	87.0	-56.3	143.33	0.607	Level 1
21,100.0	12,361.0	21,209.4	12,446.0	149.0	273.7	-179.97	8,444.4	-259.3	87.0	-57.8	144.84	0.601	Level 1
21,200.0	12,361.0	21,309.4	12,446.0	150.6	276.7	-179.97	8,544.4	-260.3	87.0	-59.4	146.36	0.594	Level 1
21,300.0	12,361.0	21,409.4	12,446.0	152.2	279.8	-179.97	8,644.4	-261.3	87.0	-60.9	147.88	0.588	Level 1
21,400.0	12,361.0	21,509.4	12,446.0	153.8	282.8	-179.96	8,744.4	-262.3	87.0	-62.4	149.39	0.582	Level 1
21,500.0	12,361.0	21,609.4	12,446.0	155.4	285.8	-179.96	8,844.4	-263.3	87.0	-63.9	150.91	0.576	Level 1
21,600.0	12,361.0	21,709.4	12,446.0	156.9	288.9	-179.96	8,944.4	-264.3	87.0	-65.4	152.43	0.571	Level 1
21,700.0	12,361.0	21,809.4	12,446.0	158.5	291.9	-179.95	9,044.4	-265.3	87.0	-67.0	153.95	0.565	Level 1
21,800.0	12,361.0	21,909.4	12,446.0	160.1	294.9	-179.95	9,144.4	-266.3	87.0	-68.5	155.48	0.560	Level 1
21,900.0	12,361.0	22,009.4	12,446.0	161.7	298.0	-179.95	9,244.4	-267.3	87.0	-70.0	157.00	0.554	Level 1
22,000.0	12,361.0	22,109.4	12,446.0	163.3	301.0	-179.94	9,344.4	-268.3	87.0	-71.5	158.52	0.549	Level 1
22,100.0	12,361.0	22,209.4	12,446.0	164.9	304.0	-179.94	9,444.4	-269.3	87.0	-73.0	160.05	0.544	Level 1
22,200.0	12,361.0	22,309.4	12,446.0	166.5	307.1	-179.94	9,544.4	-270.3	87.0	-74.6	161.57	0.538	Level 1
22,300.0	12,361.0	22,409.4	12,446.0	168.1	310.1	-179.94	9,644.4	-271.3	87.0	-76.1	163.10	0.533	Level 1
22,400.0	12,361.0	22,509.4	12,446.0	169.7	313.2	-179.93	9,744.4	-272.3	87.0	-77.6	164.63	0.528	Level 1
22,500.0	12,361.0	22,609.4	12,446.0	171.3	316.2	-179.93	9,844.4	-273.3	87.0	-79.2	166.16	0.524	Level 1
22,600.0	12,361.0	22,709.4	12,446.0	172.9	319.2	-179.93	9,944.4	-274.3	87.0	-80.7	167.68	0.519	Level 1
22,613.5	12,361.0	22,722.9	12,446.0	173.1	319.6	-179.93	9,957.8	-274.4	87.0	-80.9	167.89	0.518	Level 1, ES, SF

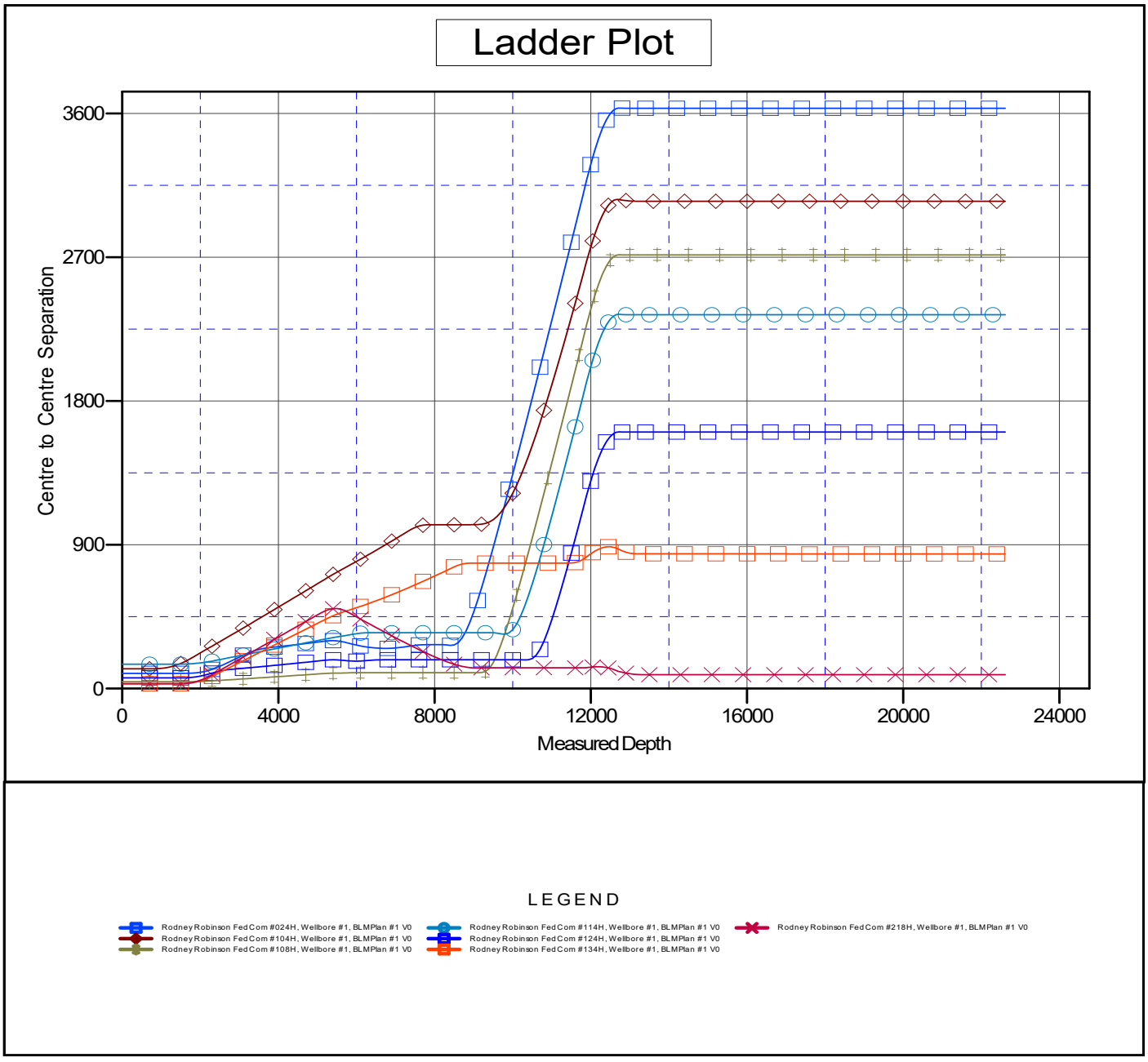
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 @ 3747.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #204H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°



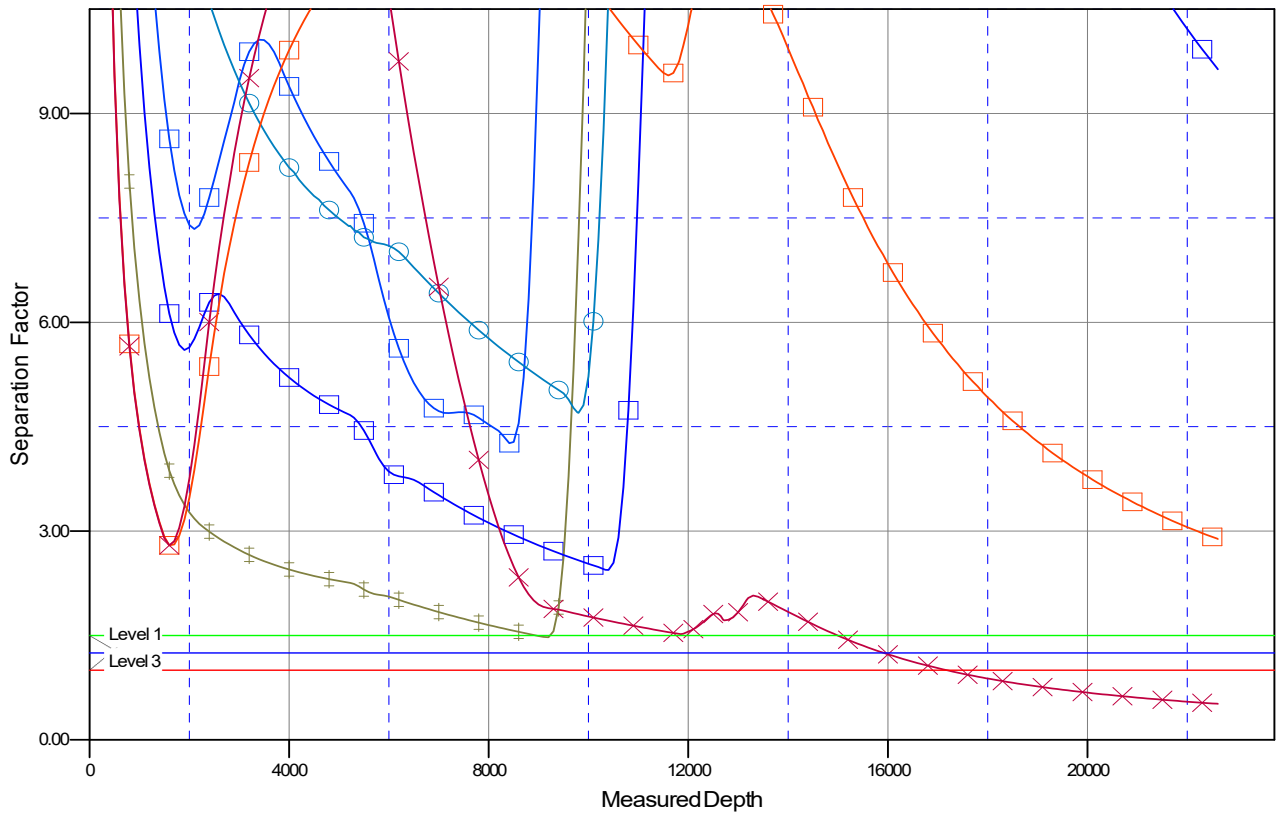
Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3747.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3747.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #204H	**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 @ 3747.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #204H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°

Separation Factor Plot



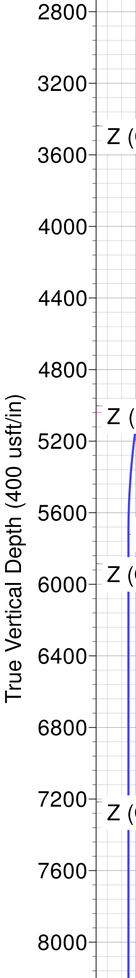
LEGEND

Rodney Robinson Fed Com #024H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #104H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #108H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #114H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #124H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #134H, Wellbore #1, BLM Plan #1 V0
Rodney Robinson Fed Com #218H, Wellbore #1, BLM Plan #1 V0

Company: Matador Production Company
Well: Rodney Robinson Fed Com #204H
County: Lea county, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 07/27/2020

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

To convert a Magnetic Direction to a Grid Direction, Add 6.25°
To convert a Magnetic Direction to a True Direction, Add 6.64° East
To convert a True Direction to a Grid Direction, Subtract 0.39°



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.25°

Magnetic Field
Strength: 47665.6snT
Dip Angle: 60.10°
Date: 7/27/2020
Model: IGRF2015

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.0	22613.4	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Rodney Robinson Fed Com #204H

GL @ 3719.0 KB @ 3747.5usft

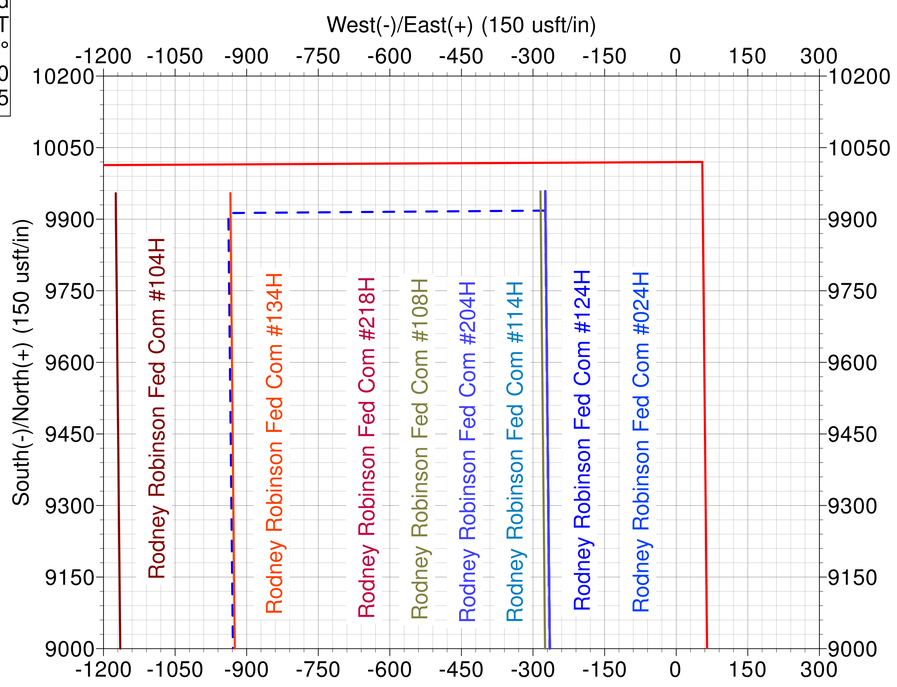
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	478495.28	725646.36	32° 18' 48.191 N	103° 36' 10.594 W	

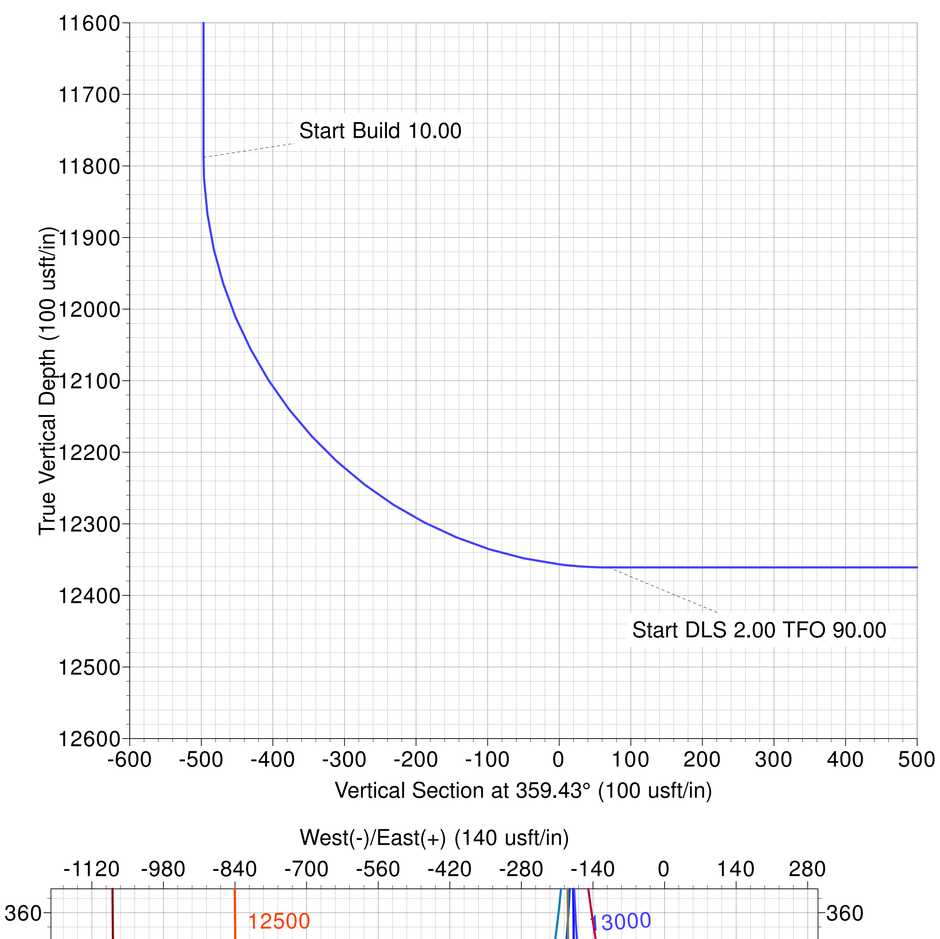
DESIGN TARGET DETAILS

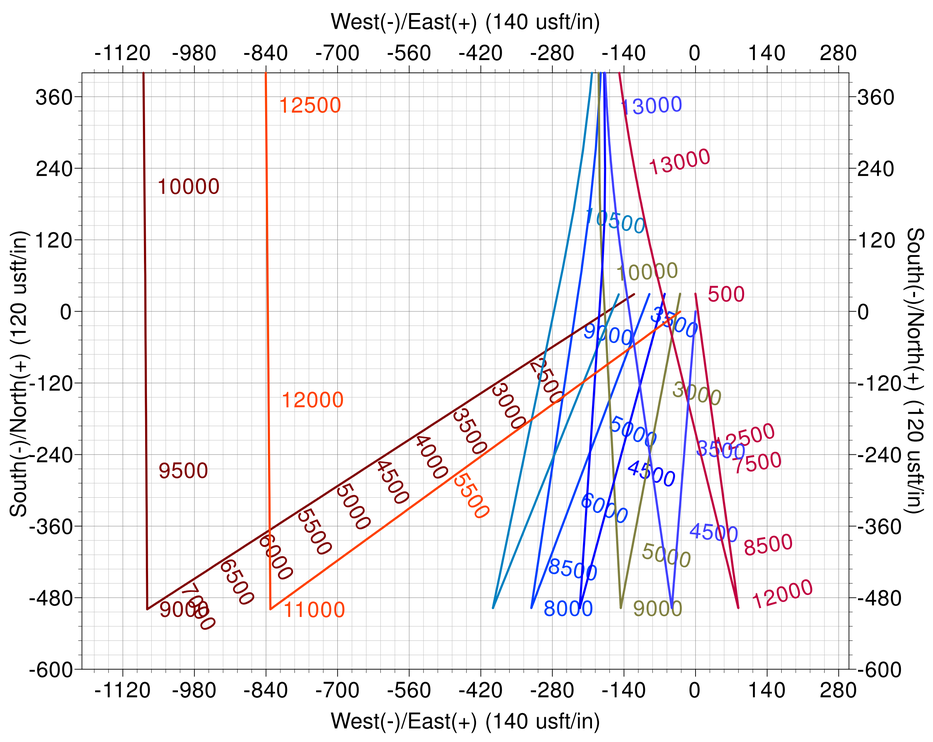
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Rodney Robinson Fed Com #204H	11788.0	-497.3	-46.4	477998.00	725600.00	32° 18' 43.273 N	103° 36' 11.174 W
BHL - Rodney Robinson Fed Com #204H	12361.0	9957.8	-274.3	488453.48	725372.02	32° 20' 26.750 N	103° 36' 13.000 W

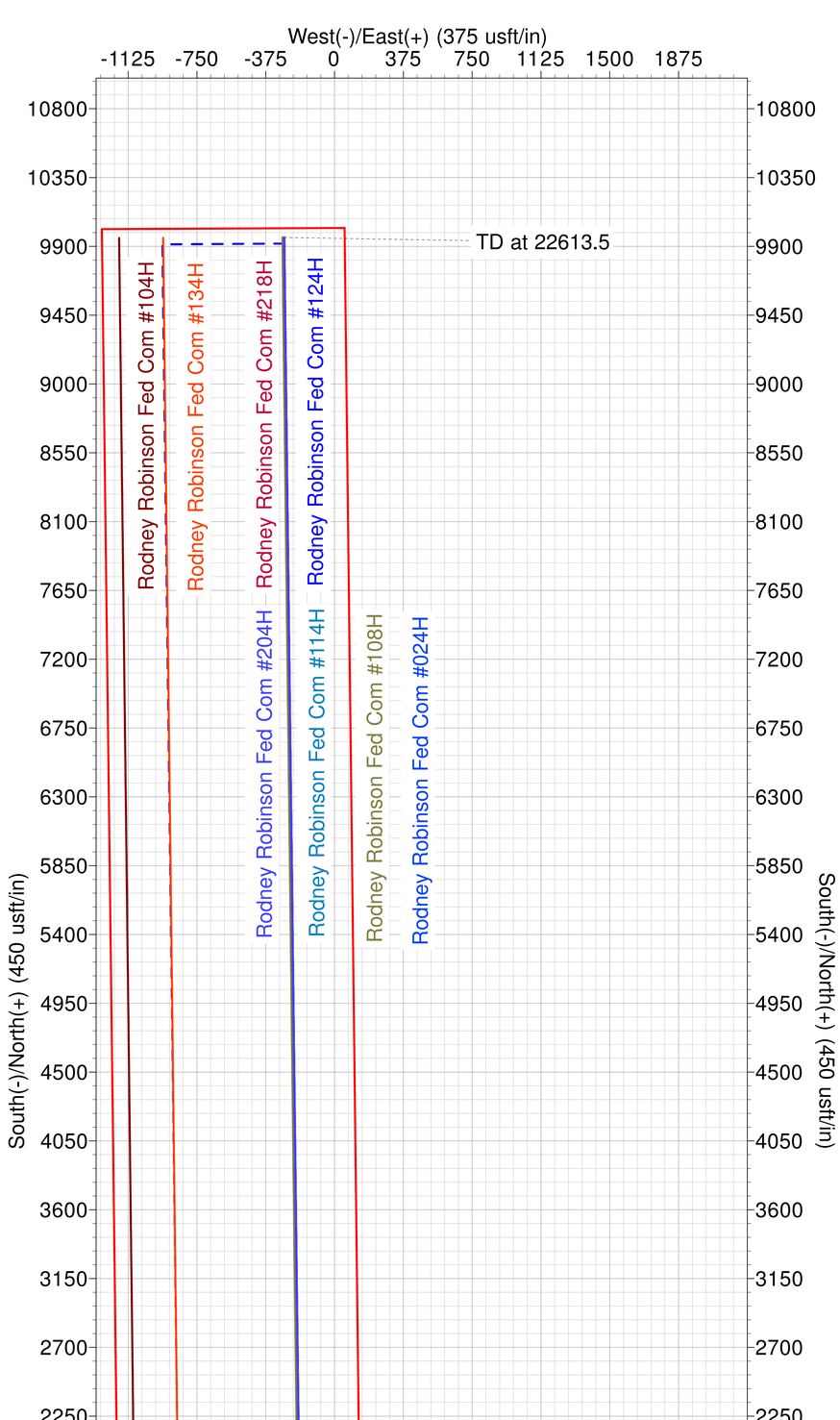
SECTION DETIALS

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	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2300.0	8.00	185.33	2297.4	-55.5	-5.2	1.00	185.33	-55.5	Start 2921.2 hold at 2300.0 MD
5221.2	8.00	185.33	5190.2	-460.3	-42.9	0.00	0.00	-459.9	Start Drop -1.50
5754.5	0.00	0.00	5721.8	-497.3	-46.4	1.50	180.00	-496.8	Start 6066.2 hold at 5754.5 MD
11820.8	0.00	0.00	11788.0	-497.3	-46.4	0.00	0.00	-496.8	Start Build 10.00
12720.8	90.00	350.50	12361.0	67.8	-140.9	10.00	350.50	69.2	Start DLS 2.00 TFO 90.00
13167.2	90.00	359.43	12361.0	512.0	-180.1	2.00	90.00	513.8	Start 9446.3 hold at 13167.2 MD
22613.5	90.00	359.43	12361.0	9957.8	-274.3	0.00	0.00	9960.1	TD at 22613.5









Matador Production Company

Antelope Ridge
Rodney Robinson
Rodney Robinson Fed Com #204H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

27 July, 2020

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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:**	478,311.32 usft	**Latitude:**	32° 18' 46.476 N
From:	Lat/Long	**Easting:**	724,072.70 usft	**Longitude:**	103° 36' 28.945 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.39 °

Well Rodney Robinson Fed Com #204H

Well Position	**+N/-S**	184.0 usft	**Northing:**	478,495.28 usft	**Latitude:**	32° 18' 48.191 N
	+E/-W	1,573.7 usft	**Easting:**	725,646.35 usft	**Longitude:**	103° 36' 10.594 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,719.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/27/2020	6.64	60.10	47,665.56560678

Design BLM Plan #1

Audit Notes:

Version:	1	**Phase:**	PLAN	**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** 7/27/2020

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,613.4	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	8.00	185.33	2,297.4	-55.5	-5.2	1.00	1.00	0.00	185.33	
5,221.2	8.00	185.33	5,190.2	-460.3	-42.9	0.00	0.00	0.00	0.00	
5,754.5	0.00	0.00	5,721.8	-497.3	-46.4	1.50	-1.50	0.00	180.00	
11,820.8	0.00	0.00	11,788.0	-497.3	-46.4	0.00	0.00	0.00	0.00	VP - Rodney Robinso
12,720.8	90.00	350.50	12,361.0	67.8	-140.9	10.00	10.00	0.00	350.50	
13,167.2	90.00	359.43	12,361.0	512.0	-180.1	2.00	0.00	2.00	90.00	
22,613.5	90.00	359.43	12,361.0	9,957.8	-274.3	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 #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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
749.0	0.00	0.00	749.0	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
1,264.0	0.00	0.00	1,264.0	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
Start Build 1.00									
1,600.0	1.00	185.33	1,600.0	-0.9	-0.1	-0.9	1.00	1.00	0.00
1,700.0	2.00	185.33	1,700.0	-3.5	-0.3	-3.5	1.00	1.00	0.00
1,770.1	2.70	185.33	1,770.0	-6.3	-0.6	-6.3	1.00	1.00	0.00
Z (Salado)									
1,800.0	3.00	185.33	1,799.9	-7.8	-0.7	-7.8	1.00	1.00	0.00
1,900.0	4.00	185.33	1,899.7	-13.9	-1.3	-13.9	1.00	1.00	0.00
2,000.0	5.00	185.33	1,999.4	-21.7	-2.0	-21.7	1.00	1.00	0.00
2,100.0	6.00	185.33	2,098.9	-31.3	-2.9	-31.2	1.00	1.00	0.00
2,200.0	7.00	185.33	2,198.3	-42.5	-4.0	-42.5	1.00	1.00	0.00
2,300.0	8.00	185.33	2,297.4	-55.5	-5.2	-55.5	1.00	1.00	0.00
Start 2921.2 hold at 2300.0 MD									
2,400.0	8.00	185.33	2,396.4	-69.4	-6.5	-69.3	0.00	0.00	0.00
2,500.0	8.00	185.33	2,495.5	-83.2	-7.8	-83.2	0.00	0.00	0.00
2,600.0	8.00	185.33	2,594.5	-97.1	-9.1	-97.0	0.00	0.00	0.00
2,700.0	8.00	185.33	2,693.5	-110.9	-10.3	-110.8	0.00	0.00	0.00
2,800.0	8.00	185.33	2,792.5	-124.8	-11.6	-124.7	0.00	0.00	0.00
2,900.0	8.00	185.33	2,891.6	-138.7	-12.9	-138.5	0.00	0.00	0.00
3,000.0	8.00	185.33	2,990.6	-152.5	-14.2	-152.4	0.00	0.00	0.00
3,100.0	8.00	185.33	3,089.6	-166.4	-15.5	-166.2	0.00	0.00	0.00
3,200.0	8.00	185.33	3,188.6	-180.2	-16.8	-180.1	0.00	0.00	0.00
3,300.0	8.00	185.33	3,287.7	-194.1	-18.1	-193.9	0.00	0.00	0.00
3,400.0	8.00	185.33	3,386.7	-207.9	-19.4	-207.7	0.00	0.00	0.00
3,450.8	8.00	185.33	3,437.0	-215.0	-20.0	-214.8	0.00	0.00	0.00
Z (Castile (T))									
3,500.0	8.00	185.33	3,485.7	-221.8	-20.7	-221.6	0.00	0.00	0.00
3,600.0	8.00	185.33	3,584.8	-235.7	-22.0	-235.4	0.00	0.00	0.00
3,700.0	8.00	185.33	3,683.8	-249.5	-23.3	-249.3	0.00	0.00	0.00
3,800.0	8.00	185.33	3,782.8	-263.4	-24.6	-263.1	0.00	0.00	0.00
3,900.0	8.00	185.33	3,881.8	-277.2	-25.8	-277.0	0.00	0.00	0.00
4,000.0	8.00	185.33	3,980.9	-291.1	-27.1	-290.8	0.00	0.00	0.00
4,100.0	8.00	185.33	4,079.9	-304.9	-28.4	-304.7	0.00	0.00	0.00
4,200.0	8.00	185.33	4,178.9	-318.8	-29.7	-318.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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)
4,300.0	8.00	185.33	4,277.9	-332.7	-31.0	-332.3	0.00	0.00	0.00
4,400.0	8.00	185.33	4,377.0	-346.5	-32.3	-346.2	0.00	0.00	0.00
4,500.0	8.00	185.33	4,476.0	-360.4	-33.6	-360.0	0.00	0.00	0.00
4,600.0	8.00	185.33	4,575.0	-374.2	-34.9	-373.9	0.00	0.00	0.00
4,700.0	8.00	185.33	4,674.0	-388.1	-36.2	-387.7	0.00	0.00	0.00
4,800.0	8.00	185.33	4,773.1	-401.9	-37.5	-401.6	0.00	0.00	0.00
4,900.0	8.00	185.33	4,872.1	-415.8	-38.8	-415.4	0.00	0.00	0.00
5,000.0	8.00	185.33	4,971.1	-429.7	-40.1	-429.2	0.00	0.00	0.00
5,031.2	8.00	185.33	5,002.0	-434.0	-40.5	-433.6	0.00	0.00	0.00
Z (G30:CS14-CSB)									
5,068.5	8.00	185.33	5,039.0	-439.2	-40.9	-438.7	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
5,100.0	8.00	185.33	5,070.2	-443.5	-41.3	-443.1	0.00	0.00	0.00
5,200.0	8.00	185.33	5,169.2	-457.4	-42.6	-456.9	0.00	0.00	0.00
5,221.2	8.00	185.33	5,190.2	-460.3	-42.9	-459.9	0.00	0.00	0.00
Start Drop -1.50									
5,300.0	6.82	185.33	5,268.3	-470.4	-43.9	-470.0	1.50	-1.50	0.00
5,400.0	5.32	185.33	5,367.8	-481.0	-44.8	-480.5	1.50	-1.50	0.00
5,500.0	3.82	185.33	5,467.4	-488.9	-45.6	-488.4	1.50	-1.50	0.00
5,600.0	2.32	185.33	5,567.3	-494.2	-46.1	-493.7	1.50	-1.50	0.00
5,700.0	0.82	185.33	5,667.2	-496.9	-46.3	-496.5	1.50	-1.50	0.00
5,754.5	0.00	0.00	5,721.8	-497.3	-46.4	-496.8	1.50	-1.50	0.00
Start 6066.2 hold at 5754.5 MD									
5,800.0	0.00	0.00	5,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
5,917.8	0.00	0.00	5,885.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
6,000.0	0.00	0.00	5,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,248.8	0.00	0.00	7,216.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,300.0	0.00	0.00	7,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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	0.00	0.00	8,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
8,834.8	0.00	0.00	8,802.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (G4: BSGL (CS9))									
8,900.0	0.00	0.00	8,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,877.8	0.00	0.00	9,845.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L5.3: FBSC)									
9,900.0	0.00	0.00	9,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
9,993.8	0.00	0.00	9,961.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L5.1: FBSG)									
10,000.0	0.00	0.00	9,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,262.8	0.00	0.00	10,230.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L4.3: SBSC)									
10,300.0	0.00	0.00	10,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,685.8	0.00	0.00	10,653.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L4.1: SBSG)									
10,700.0	0.00	0.00	10,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,867.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,967.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,067.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,167.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,281.8	0.00	0.00	11,249.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L3.3: TBSC)									
11,300.0	0.00	0.00	11,267.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,367.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,467.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,567.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,667.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,767.2	-497.3	-46.4	-496.8	0.00	0.00	0.00
11,818.8	0.00	0.00	11,786.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Z (L3.1: TBSG)									
11,820.8	0.00	0.00	11,788.0	-497.3	-46.4	-496.8	0.00	0.00	0.00
Start Build 10.00 - VP - Rodney Robinson Fed Com #204H									
11,900.0	7.92	350.50	11,867.0	-491.9	-47.3	-491.4	10.00	10.00	0.00
12,000.0	17.92	350.50	11,964.3	-469.9	-51.0	-469.4	10.00	10.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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)
12,100.0	27.92	350.50	12,056.3	-431.5	-57.4	-430.9	10.00	10.00	0.00
12,170.0	34.92	350.50	12,116.0	-395.6	-63.4	-394.9	10.00	10.00	0.00
Z (L. TBSG)									
12,200.0	37.92	350.50	12,140.2	-378.0	-66.3	-377.3	10.00	10.00	0.00
12,274.8	45.41	350.50	12,196.0	-329.0	-74.5	-328.2	10.00	10.00	0.00
Z (L2: WFMP A)									
12,300.0	47.92	350.50	12,213.3	-310.9	-77.6	-310.1	10.00	10.00	0.00
12,343.2	52.24	350.50	12,241.0	-278.2	-83.0	-277.4	10.00	10.00	0.00
Z (X Sand (T))									
12,348.1	52.74	350.50	12,244.0	-274.4	-83.7	-273.5	10.00	10.00	0.00
Z (X Sand (B))									
12,371.9	55.12	350.50	12,258.0	-255.4	-86.8	-254.6	10.00	10.00	0.00
Z (Y Sand (T))									
12,400.0	57.92	350.50	12,273.5	-232.3	-90.7	-231.4	10.00	10.00	0.00
12,500.0	67.92	350.50	12,319.0	-144.6	-105.4	-143.6	10.00	10.00	0.00
12,600.0	77.92	350.50	12,348.3	-50.5	-121.1	-49.2	10.00	10.00	0.00
12,700.0	87.92	350.50	12,360.6	47.3	-137.5	48.7	10.00	10.00	0.00
12,720.8	90.00	350.50	12,361.0	67.8	-140.9	69.2	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00									
12,800.0	90.00	352.08	12,361.0	146.1	-152.9	147.6	2.00	0.00	2.00
12,900.0	90.00	354.08	12,361.0	245.4	-165.0	247.0	2.00	0.00	2.00
13,000.0	90.00	356.08	12,361.0	345.0	-173.5	346.7	2.00	0.00	2.00
13,100.0	90.00	358.08	12,361.0	444.9	-178.6	446.6	2.00	0.00	2.00
13,167.2	90.00	359.43	12,361.0	512.0	-180.1	513.8	2.00	0.00	2.00
Start 9446.3 hold at 13167.2 MD									
13,200.0	90.00	359.43	12,361.0	544.8	-180.4	546.6	0.00	0.00	0.00
13,300.0	90.00	359.43	12,361.0	644.8	-181.4	646.6	0.00	0.00	0.00
13,400.0	90.00	359.43	12,361.0	744.8	-182.4	746.6	0.00	0.00	0.00
13,500.0	90.00	359.43	12,361.0	844.8	-183.4	846.6	0.00	0.00	0.00
13,600.0	90.00	359.43	12,361.0	944.8	-184.4	946.6	0.00	0.00	0.00
13,700.0	90.00	359.43	12,361.0	1,044.8	-185.4	1,046.6	0.00	0.00	0.00
13,800.0	90.00	359.43	12,361.0	1,144.8	-186.4	1,146.6	0.00	0.00	0.00
13,900.0	90.00	359.43	12,361.0	1,244.8	-187.4	1,246.6	0.00	0.00	0.00
14,000.0	90.00	359.43	12,361.0	1,344.8	-188.4	1,346.6	0.00	0.00	0.00
14,100.0	90.00	359.43	12,361.0	1,444.8	-189.4	1,446.6	0.00	0.00	0.00
14,200.0	90.00	359.43	12,361.0	1,544.8	-190.4	1,546.6	0.00	0.00	0.00
14,300.0	90.00	359.43	12,361.0	1,644.8	-191.4	1,646.6	0.00	0.00	0.00
14,400.0	90.00	359.43	12,361.0	1,744.8	-192.4	1,746.6	0.00	0.00	0.00
14,500.0	90.00	359.43	12,361.0	1,844.8	-193.4	1,846.6	0.00	0.00	0.00
14,600.0	90.00	359.43	12,361.0	1,944.8	-194.4	1,946.6	0.00	0.00	0.00
14,700.0	90.00	359.43	12,361.0	2,044.8	-195.4	2,046.6	0.00	0.00	0.00
14,800.0	90.00	359.43	12,361.0	2,144.8	-196.4	2,146.6	0.00	0.00	0.00
14,900.0	90.00	359.43	12,361.0	2,244.8	-197.4	2,246.6	0.00	0.00	0.00
15,000.0	90.00	359.43	12,361.0	2,344.7	-198.4	2,346.6	0.00	0.00	0.00
15,100.0	90.00	359.43	12,361.0	2,444.7	-199.4	2,446.6	0.00	0.00	0.00
15,200.0	90.00	359.43	12,361.0	2,544.7	-200.4	2,546.6	0.00	0.00	0.00
15,300.0	90.00	359.43	12,361.0	2,644.7	-201.4	2,646.6	0.00	0.00	0.00
15,400.0	90.00	359.43	12,361.0	2,744.7	-202.4	2,746.6	0.00	0.00	0.00
15,500.0	90.00	359.43	12,361.0	2,844.7	-203.4	2,846.6	0.00	0.00	0.00
15,600.0	90.00	359.43	12,361.0	2,944.7	-204.3	2,946.6	0.00	0.00	0.00
15,700.0	90.00	359.43	12,361.0	3,044.7	-205.3	3,046.6	0.00	0.00	0.00
15,800.0	90.00	359.43	12,361.0	3,144.7	-206.3	3,146.6	0.00	0.00	0.00
15,900.0	90.00	359.43	12,361.0	3,244.7	-207.3	3,246.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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)
16,000.0	90.00	359.43	12,361.0	3,344.7	-208.3	3,346.6	0.00	0.00	0.00
16,100.0	90.00	359.43	12,361.0	3,444.7	-209.3	3,446.6	0.00	0.00	0.00
16,200.0	90.00	359.43	12,361.0	3,544.7	-210.3	3,546.6	0.00	0.00	0.00
16,300.0	90.00	359.43	12,361.0	3,644.7	-211.3	3,646.6	0.00	0.00	0.00
16,400.0	90.00	359.43	12,361.0	3,744.7	-212.3	3,746.6	0.00	0.00	0.00
16,500.0	90.00	359.43	12,361.0	3,844.7	-213.3	3,846.6	0.00	0.00	0.00
16,600.0	90.00	359.43	12,361.0	3,944.7	-214.3	3,946.6	0.00	0.00	0.00
16,700.0	90.00	359.43	12,361.0	4,044.7	-215.3	4,046.6	0.00	0.00	0.00
16,800.0	90.00	359.43	12,361.0	4,144.7	-216.3	4,146.6	0.00	0.00	0.00
16,900.0	90.00	359.43	12,361.0	4,244.7	-217.3	4,246.6	0.00	0.00	0.00
17,000.0	90.00	359.43	12,361.0	4,344.6	-218.3	4,346.6	0.00	0.00	0.00
17,100.0	90.00	359.43	12,361.0	4,444.6	-219.3	4,446.6	0.00	0.00	0.00
17,200.0	90.00	359.43	12,361.0	4,544.6	-220.3	4,546.6	0.00	0.00	0.00
17,300.0	90.00	359.43	12,361.0	4,644.6	-221.3	4,646.6	0.00	0.00	0.00
17,400.0	90.00	359.43	12,361.0	4,744.6	-222.3	4,746.6	0.00	0.00	0.00
17,500.0	90.00	359.43	12,361.0	4,844.6	-223.3	4,846.6	0.00	0.00	0.00
17,600.0	90.00	359.43	12,361.0	4,944.6	-224.3	4,946.6	0.00	0.00	0.00
17,700.0	90.00	359.43	12,361.0	5,044.6	-225.3	5,046.6	0.00	0.00	0.00
17,800.0	90.00	359.43	12,361.0	5,144.6	-226.3	5,146.6	0.00	0.00	0.00
17,900.0	90.00	359.43	12,361.0	5,244.6	-227.3	5,246.6	0.00	0.00	0.00
18,000.0	90.00	359.43	12,361.0	5,344.6	-228.3	5,346.6	0.00	0.00	0.00
18,100.0	90.00	359.43	12,361.0	5,444.6	-229.3	5,446.6	0.00	0.00	0.00
18,200.0	90.00	359.43	12,361.0	5,544.6	-230.3	5,546.6	0.00	0.00	0.00
18,300.0	90.00	359.43	12,361.0	5,644.6	-231.3	5,646.6	0.00	0.00	0.00
18,400.0	90.00	359.43	12,361.0	5,744.6	-232.3	5,746.6	0.00	0.00	0.00
18,500.0	90.00	359.43	12,361.0	5,844.6	-233.3	5,846.6	0.00	0.00	0.00
18,600.0	90.00	359.43	12,361.0	5,944.6	-234.3	5,946.6	0.00	0.00	0.00
18,700.0	90.00	359.43	12,361.0	6,044.6	-235.3	6,046.6	0.00	0.00	0.00
18,800.0	90.00	359.43	12,361.0	6,144.6	-236.3	6,146.6	0.00	0.00	0.00
18,900.0	90.00	359.43	12,361.0	6,244.6	-237.3	6,246.6	0.00	0.00	0.00
19,000.0	90.00	359.43	12,361.0	6,344.5	-238.3	6,346.6	0.00	0.00	0.00
19,100.0	90.00	359.43	12,361.0	6,444.5	-239.3	6,446.6	0.00	0.00	0.00
19,200.0	90.00	359.43	12,361.0	6,544.5	-240.3	6,546.6	0.00	0.00	0.00
19,300.0	90.00	359.43	12,361.0	6,644.5	-241.3	6,646.6	0.00	0.00	0.00
19,400.0	90.00	359.43	12,361.0	6,744.5	-242.3	6,746.6	0.00	0.00	0.00
19,500.0	90.00	359.43	12,361.0	6,844.5	-243.3	6,846.6	0.00	0.00	0.00
19,600.0	90.00	359.43	12,361.0	6,944.5	-244.3	6,946.6	0.00	0.00	0.00
19,700.0	90.00	359.43	12,361.0	7,044.5	-245.3	7,046.6	0.00	0.00	0.00
19,800.0	90.00	359.43	12,361.0	7,144.5	-246.3	7,146.6	0.00	0.00	0.00
19,900.0	90.00	359.43	12,361.0	7,244.5	-247.3	7,246.6	0.00	0.00	0.00
20,000.0	90.00	359.43	12,361.0	7,344.5	-248.2	7,346.6	0.00	0.00	0.00
20,100.0	90.00	359.43	12,361.0	7,444.5	-249.2	7,446.6	0.00	0.00	0.00
20,200.0	90.00	359.43	12,361.0	7,544.5	-250.2	7,546.6	0.00	0.00	0.00
20,300.0	90.00	359.43	12,361.0	7,644.5	-251.2	7,646.6	0.00	0.00	0.00
20,400.0	90.00	359.43	12,361.0	7,744.5	-252.2	7,746.6	0.00	0.00	0.00
20,500.0	90.00	359.43	12,361.0	7,844.5	-253.2	7,846.6	0.00	0.00	0.00
20,600.0	90.00	359.43	12,361.0	7,944.5	-254.2	7,946.6	0.00	0.00	0.00
20,700.0	90.00	359.43	12,361.0	8,044.5	-255.2	8,046.6	0.00	0.00	0.00
20,800.0	90.00	359.43	12,361.0	8,144.5	-256.2	8,146.6	0.00	0.00	0.00
20,900.0	90.00	359.43	12,361.0	8,244.5	-257.2	8,246.6	0.00	0.00	0.00
21,000.0	90.00	359.43	12,361.0	8,344.4	-258.2	8,346.6	0.00	0.00	0.00
21,100.0	90.00	359.43	12,361.0	8,444.4	-259.2	8,446.6	0.00	0.00	0.00
21,200.0	90.00	359.43	12,361.0	8,544.4	-260.2	8,546.6	0.00	0.00	0.00
21,300.0	90.00	359.43	12,361.0	8,644.4	-261.2	8,646.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**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)
21,400.0	90.00	359.43	12,361.0	8,744.4	-262.2	8,746.6	0.00	0.00	0.00
21,500.0	90.00	359.43	12,361.0	8,844.4	-263.2	8,846.6	0.00	0.00	0.00
21,600.0	90.00	359.43	12,361.0	8,944.4	-264.2	8,946.6	0.00	0.00	0.00
21,700.0	90.00	359.43	12,361.0	9,044.4	-265.2	9,046.6	0.00	0.00	0.00
21,800.0	90.00	359.43	12,361.0	9,144.4	-266.2	9,146.6	0.00	0.00	0.00
21,900.0	90.00	359.43	12,361.0	9,244.4	-267.2	9,246.6	0.00	0.00	0.00
22,000.0	90.00	359.43	12,361.0	9,344.4	-268.2	9,346.6	0.00	0.00	0.00
22,100.0	90.00	359.43	12,361.0	9,444.4	-269.2	9,446.6	0.00	0.00	0.00
22,200.0	90.00	359.43	12,361.0	9,544.4	-270.2	9,546.6	0.00	0.00	0.00
22,300.0	90.00	359.43	12,361.0	9,644.4	-271.2	9,646.6	0.00	0.00	0.00
22,400.0	90.00	359.43	12,361.0	9,744.4	-272.2	9,746.6	0.00	0.00	0.00
22,500.0	90.00	359.43	12,361.0	9,844.4	-273.2	9,846.6	0.00	0.00	0.00
22,600.0	90.00	359.43	12,361.0	9,944.4	-274.2	9,946.6	0.00	0.00	0.00
22,613.5	90.00	359.43	12,361.0	9,957.8	-274.3	9,960.1	0.00	0.00	0.00
TD at 22613.5 - BHL - Rodney Robinson Fed Com #204H									

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	11,788.0	-497.3	-46.4	477,998.00	725,600.00	32° 18' 43.273 N	103° 36' 11.174 W
BHL - Rodney Robinson - plan hits target center - Point	0.00	359.61	12,361.0	9,957.8	-274.3	488,453.48	725,372.02	32° 20' 26.750 N	103° 36' 13.000 W

Planning Report

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #204H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3747.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3747.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #204H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
749.0	749.0	Z (Dewey Lake (P))			
1,264.0	1,264.0	Z (Rustler)			
1,770.1	1,770.0	Z (Salado)			
3,450.8	3,437.0	Z (Castile (T))			
5,031.2	5,002.0	Z (G30:CS14-CSB)			
5,068.5	5,039.0	Z (G26: Bell Cyn.)			
5,917.8	5,885.0	Z (G13: Cherry Cyn.)			
7,248.8	7,216.0	Z (G7: Brushy Cyn.) Antelope Ridge			
8,834.8	8,802.0	Z (G4: BSGL (CS9))			
9,877.8	9,845.0	Z (L5.3: FBSC)			
9,993.8	9,961.0	Z (L5.1: FBSG)			
10,262.8	10,230.0	Z (L4.3: SBSC)			
10,685.8	10,653.0	Z (L4.1: SBSG)			
11,281.8	11,249.0	Z (L3.3: TBSC)			
11,818.8	11,786.0	Z (L3.1: TBSG)			
12,170.0	12,116.0	Z (L. TBSG)			
12,274.8	12,196.0	Z (L2: WFMP A)			
12,343.2	12,241.0	Z (X Sand (T))			
12,348.1	12,244.0	Z (X Sand (B))			
12,371.9	12,258.0	Z (Y Sand (T))			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	-55.5	-5.2	Start 2921.2 hold at 2300.0 MD
5,221.2	5,190.2	-460.3	-42.9	Start Drop -1.50
5,754.5	5,721.8	-497.3	-46.4	Start 6066.2 hold at 5754.5 MD
11,820.8	11,788.0	-497.3	-46.4	Start Build 10.00
12,720.8	12,361.0	67.8	-140.9	Start DLS 2.00 TFO 90.00
13,167.2	12,361.0	512.0	-180.1	Start 9446.3 hold at 13167.2 MD
22,613.5	12,361.0	9,957.8	-274.3	TD at 22613.5

Rodney Robinson Fed Com 204H
SHL: 546' FSL & 155' FEL Section 7
BHL: 60' FNL & 330' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3719

Drilling Operation Plan

Proposed Drilling Depth: 22613' MD / 12361' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3121493454 N / -103.6053507177 W
TD Lat/Long (NAD83): 32.3408877752 N / -103.6054547193 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,264	1,264	506	Anhydrite	Barren
Salado (Top of Salt)	1,770	1,770	1,667	Salt	Barren
Castile	3,437	3,437	1,565	Salt	Barren
Lamar (Base of Salt)	5,002	5,002	37	Dolomite	Barren
Bell Canyon	5,039	5,039	846	Sandstone	Oil/Natural Gas
Cherry Canyon	5,885	5,885	1,331	Sandstone	Oil/Natural Gas
Brushy Canyon	7,216	7,216	1,586	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,802	8,802	1,159	Limestone	Oil/Natural Gas
1st Bone Spring Sand	9,961	9,961	269	Sandstone	Oil/Natural Gas
2nd Bone Spring Carbonate	10,230	10,230	423	Carbonate	Oil/Natural Gas
2nd Bone Spring Sand	10,653	10,653	596	Sandstone	Oil/Natural Gas
3rd Bone Spring Carbonate	11,249	11,249	517	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	11,818	11,766	430	Sandstone	Oil/Natural Gas
KOP	**11,820**	**11,788**	**-**	**Sandstone**	**Oil/Natural Gas**
Wolfcamp	12,274	12,196	-	Shale	Oil/Natural Gas
TD	**22,613**	**12,361**		**Shale**	**Oil/Natural Gas**

2. Notable Zones

Wolfcamp is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 78'.

3. Pressure Control

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

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

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

A third party company will test the BOPs.

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

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

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

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

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

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1289	0 - 1289	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1 Top	9.875	0 - 9500	0 - 9500	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Intermediate 1 Bottom	8.75	9500 - 11720	9500 - 11688	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	8.75	0 - 22613	0 - 12361	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 option to deepen Intermediate 1 set depth into curve, no changes in pipe weight or grade is necessary.

Variance Request

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

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

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

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

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

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	640	1.72	1103	12.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	989	C	5% NaCl + LCM
Intermediate 1 DV ~5,100'	Tail	490	3.68	1815	10.3	35%	0	A/C	Stage 2: Tuned light blend
	Lead	440	3.68	1630	10.3	35%	5100	A/C	Stage 1:Fluid Loss + Dispersant
	Tail	110	1.46	156	13.2	35%	10720	A/C	Stage 1: Fluid Loss +
Intermediate 1 Alternate Design-	Lead	840	3.68	3108	10.3	35%	0	A/C	Tuned light blend
	Tail	110	1.43	156	13.2	35%	10720	A/C	Stage 1: Fluid Loss +
	Tail	1000	1.46	1460	14.2	35%	0	C	Bradenhead Contingency: Class
Production	Tail	800	1.43	1143	13.2	10%	11520	H	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 - 1289	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Bine Emulsion	1289 - 11720	8.7 - 9.4	28-30	NC
Production	8.75	OBM	11720 - 22613	11.5 - 12.5	28-30	<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. Maximum anticipated surface pressure is 5315 psi. Expected bottom hole temperature is 176° F.

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

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

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

COMMENTS

Action 22237

COMMENTS

Operator:	OGRID:	Action Number:	Action Type:
MATADOR PRODUCTION COMPANY One Lincoln Centre 5400 LBJ Freeway, Ste 1500 Dallas, TX75240	228937	22237	C-103A

Created By	Comment	Comment Date
pkautz	Old e-Doc submittal	03/29/2021

District I
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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 22237

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
MATADOR PRODUCTION COMPANY One Lincoln Centre 5400 LBJ Freeway, Ste 1500 Dallas, TX75240	228937	22237	C-103A

OCD Reviewer	Condition
pkautz	None